



# Deliverable 2.5 EPICommunity design

# European Partnership for an Innovative Campus Unifying Regions EPICUR Research Agenda Shaping European Society in Transition

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The main objective of D2.5 is to design a non-commercial, open and inclusive registry of European researchers and the necessary platform for creating a European Social Network of researchers (EPICommunity) to support academic matchmaking and collaboration.





Author(s)		
Name	Organisation	E-mail
Thras Tsiatsos	AUTh	tsiatsos@office365.auth.gr

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#### 1 Introduction

#### 1.1 <u>Context</u>

This deliverable is part of Task2.3 EPICommunity Design (M13-M18) of Work package 2 "EPICommunity as basis for strengthening human capital". This work package aims to enhance sustainable research careers in the context of the European Research Area and is broken down in four tasks:

- **Task 2.1**. It elaborated EPICUR's researchers' framework (EPIQAssess) and will combine this with a gamification framework, namely incentives and rewards (EPIGame)
- **Task 2.2**. It will elaborate blended mobility formats (EPIMove) for researchers and will produce policy recommendations to the EC on the needs of early career researchers in the context of blended mobility, with a view to the new instruments in the next Erasmus+ programme
- **Tasks 3+4**. Tasks 2.3 and 2.4 will be devoted to design and implement the EPICommunity prototype by exploiting (a) EPIQAssess and (b) EPIGame (see Figure 1)



Figure 1: WP2 tasks interconnection

The main steps of Task 2.3 are:

Main steps of this task are the following:

- (a) Analysis of the state of the art of researchers' social networks (e.g., Research Gate, LinkedIn, Google Scholar, etc.) or platforms: This step will basically collect common design issues, user profiling issues, etc. in order to give input to the EPI-Community design.
- (b) Design of European Alliance Researcher profile qualitative criteria for assessing skills: this step will take into account the results of Task 2.1.
- (c) **Design of networking functionality among researchers** (for example joint projects, proposal writing, common research, data exchange, peer review, etc.). UML notation and mock-ups will be exploited for the design of the EPICommunity functionality.

#### 1.2 Objective of D2.5

The main objective of D2.5 is "to **design** a non-commercial, open and inclusive registry of European researchers and the necessary platform for creating a European Social Network of researchers (EPICommunity) to support academic matchmaking and collaboration [...]".

This deliverable will give input to deliverable D2.6 in order to "[...] *further develop the EPICommunity (technically), to be open and accessible for members of other European University alliances and beyond. Like this, EPICUR will offer services to researchers across the globe who are able and willing to collaborate in order to solve global (EPI-) challenges*".

#### 1.3 <u>Methodology</u>

This paragraph is briefly presenting the methodology for escribing and deciding the EPICommunity Design. More specifically three workshops have been conducted with the EPICUR-Research WP2 experts and the participation of EPICUR ECR board members to define:

• The methodology and the templates for the Use Cases and the System Funtionality (see paragraphs 1.3.1and 1.3.2)

- The discussion and finalization of the Use Cases
- The discussion and the finalization of EPICommunity Functionality

#### 1.3.1 About the Use cases

The section on Use Cases (**Section 4 - EPICommunity Use Cases**) describes the context of the system and the problem(s) that it solves. The aim is to introduce the system that is accessible to non-domain experts. The problem description enumerates the key features of with the system and how the system provides value to them. The focus of this section is on the features concerned with and communicating with the system, and on the roles of these features, not on the system itself.

Use cases have been adopted to extract the main components resulting (mainly) from the previous WP2 tasks:

We use these use cases in order to capture the intended behavior of the system without having to specify how that behavior is implemented. These use cases will provide a way for developers and users to come to a common understanding on the functionality of the intended system.

The use cases are divided into basic groups concerning the different end user target groups and entities. The agreed format for the use cases, as decided by the EPICUR-Research partners, is presented at Table 1.

Use Case	Use case identifier and reference number and modification history
Description	Goal to be achieved by use case
Actors	List of actors involved in use case
Assumptions	Conditions that must be true for use case to terminate successfully
Steps	Interactions between actors and system that are necessary to achieve goal
Variations	Any variations in the steps of a use case
Non-Functional	List any non-functional requirements that the use case must meet
Issues	List of issues that remain unresolved

#### Table 1: Template for Use Cases

#### *1.3.2 About System Interface and System functionality*

The section on system interface and System Functionality (Section 5) documents the services that the system provides in terms of responsibilities. Often the system interface may be organized into a set of sub-interfaces, each sub-interface corresponding to a distinct usage of the system, e.g., there may be specific interfaces for system configuration, for normal system use, and for system management. This document is mainly focused on the normal system use. Each system interface will be presented as a rapid prototype. Along with the system interfaces the specific system functionality are described using the template presented in Table 2:

Functionality Name	Name of the functionality
Relative Use Case(s)	Use Case(s) where the functionality could contribute
Actors	Users or system components that will use this functionality
Input Data	Data needed for the implementation
Description	Process that will be followed for the achievement of the functionality
Output Data	Expected result

#### Table 2: Template for Functionalities

#### 2 Researcher profile

At EPICommunity, we aim to create a space where researchers can provide information for their career, research interests and aspirations moving forward with their research. We argue that a research profile is a combination of the different activities that the researcher becomes a part of while she is evolving. These activities can include but are not limited to:

- <u>Publications</u>: on of the most integral activities for a researcher. Published work establishes the findings of the research and circulates them to the academic community though the peer review process.
- <u>Courses</u>: very often researchers are involved in teaching or supporting academic courses. This is also a very important activity since it adds the educational / teaching dimension to a research profile.
- <u>Projects</u>: researchers that are involved in research projects, especially European Union funded projects, are unlocking several different skills because of this involvement. Technical writing. Design of applied research-oriented solution. Social skills for cross-disciplinary, border agnostic, diverse communication, and work.
- <u>Groups</u>: depending on their research interests, researchers are often organized in groups, to discuss and exchange experiences. Open science resources like Arxiv, Zenodo and so forth have enabled this idea exchange by safeguarding the intellectual property of the original authors.

Such activities, as the ones presented above, make clear that a researcher's profile can combine traits and skills from different dimensions. If we add, on the top of that, the fact that a researcher can work with different research fields during her career we have a rich, complex and diverse set of information to present her fellow researchers.

Contemporary digital communities, however, have come to incorporate a set of similar features and, depending on their target audience to inherit specific styling in terms of visuals, language and actions that their members can perform. The most used such communities are the different social networks (i.e. Facebook, Instagram, Twitter). As the WWW evolves, social networks evolve as well. In the beginning we started with plain simple social networks like Facebook, LinkedIn, Google+, functioning mainly as an agenda of contacts online. Those social networks evolved to offer several different functionalities but alongside them other types of social networks started appearing.

- <u>Microblogging</u>: Twitter was the first microblogging platform to introduce a social network that allowed its users to post updates limited to a small number of characters.
- <u>Academic</u>: Platforms like Research Gate and Academia are similar to the classic social networks (like Facebook) but they are built to accommodate the research community, mainly exchanging information in the form of updates for publications and project involvement.
- <u>Decentralized</u>: The blockchain revolution made the concept of decentralization a trend. And while, peer-networks were being used for a long time for content sharing, WiFi sharing and so forth, this new era of decentralization also brought social networking platforms with it. In fact we are seeing social network alternatives emerging for almost every one of the most known social network platforms (i.e. PeerTube for YouTube, Mastodon for Twitter and so forth).
- <u>Communication apps as social networks</u>: Although they are not falling to the social network category, lately many communication applications have started incorporating social features. Viber, WhatsApp and Signal are offering a group feature where, the members of the group have a public profile, usually associated with little information like their name and their e-mail or phone, a profile picture and so forth. We are mentioning that last category of apps just to stress the fact that more and more applications are currently offering "social features" without being social networking platforms per se.
- <u>Complementary apps for academics</u>: These are applications that academic institutions use for internal management and project management. Universis.eu and OLAS by Divinus Soft are two such solutions.

Following we are going to present the state of the art regarding the social networking platforms, their different goals, features and audiences focusing on the characteristics of the profiles of the users of these platforms. After that we will move on with presenting our reasoning on choosing the set of characteristics that we believe that best serve in the context of the EPICommunity.

#### 2.1 State of the art of Social Networks

In the image below we are presenting different social network applications grouped by domain related to the scope of usage. Personal, where we expect more casual, everyday content, professional, where we expect expert, professional content and key updates related to the user's career and academic, where we expect research and scientific specific content alongside key updates to the user's academic endeavours.

# The State of Social Networks



*Figure 2: Social networks grouped by domain (personal – professional – academic)* 

If we observe carefully the different social networks that fall to the aforementioned categories, we will find that there is an overlap in certain characteristics: Full name, profile image, phone number, address, website URL, e-mail address and so forth. These characteristics are serving the purpose of identifying the user of the platform and hence, are pretty much essential for every social network.

Similar characteristics, available in most of the social networks seem to be timeline related characteristics: Professional work, studies, certifications, courses, awards and so forth. For the professional related social networks (like LinkedIn) this is considered an essential feature since these social networks are also used as a source of candidate hires from recruiters and HR departments. For the more casual social networks, these characteristics usually serve the purpose of showcasing important highlights of a profile. Vanity related characteristics (i.e., likes, shares and so forth) are frequent used in social networks to enable user generated content.

At this point we would like to stress the fact that simpler social networks have managed to become relevant in different domains. For example, Twitter is being used from personal, professional and academic users to share relevant content. This is very important because it shows that the usage of a social network is not necessarily limited when the network itself offers limited characteristics.

For the EPICommunity, being a community targeting mainly members of the research and academic community, we will be basing our research on the pre-existing academic related social networking platforms. Therefore, academic usage becomes the dominant domain and our goal is to investigate whether other characteristics, found in social networks from other domains, would be valuable to EPICommunity. Since we have already discussed how some characteristics are shared between domains, the pool of characteristics is organized as follows.



Figure 3: Shared characteristics between social networks

Academic usage social platforms, our dominant dimension is in the center and shares characteristics with the two neighbouring dimensions containing social networks of personal and professional usage respectively.

#### 2.2 Profile characteristics common standards

Before we move on with the selection of EPICommunity's features we have to address an issue that becomes apparent from the aforementioned analysis. While the three domains share similar features when it comes to the user profile, there is no common standard between them. LinkedIn has its own way to describe a user's working experience, Facebook and ORCHID might use a slightly different way of doing that. The EPICommunity aims in becoming a reference point for the European researchers' community in terms of discovering talent, forming cooperations and enabling cross-disciplinary work. That is why we need to find a common standard to base the EPICommunity's profile to.

After analysing the state-of-the-art social networks available for researcher we came to the conclusion that the Europass CV schema' incorporates the majority of the characteristics that efficiently promote the skills of the researchers and enable the search functionality.

"Europass is a European Union (Directorate General for Education and Culture) initiative to increase transparency of qualification and mobility of citizens in Europe. It aims to make a person's skills and qualifications clearly understood throughout Europe (including the European Union, European Economic Area and EU candidate countries). The five Europass documents are the Curriculum Vitae, Language Passport, Europass Mobility, Certificate Supplement, and Diploma Supplement, sharing a common brand name and logo, Since 2012 individuals have been able to assemble all Europass documents in the European Skills Passport." (source: Wikipedia)

We believe that Europass is the ideal candidate to solve our standardization problem regarding user profiles on EPICommunity because:

<sup>&</sup>lt;sup>1</sup> <u>https://europa.eu/europass/en/create-europass-cv</u>

- It has been already used across the European Union and most of the Europeans, especially researchers actively participating in EU funded projects are familiar with it.
- It includes most of the key characteristics that we want to incorporate in EPICommunity.
- It offers portability allowing to export the data to a machine-readable format. This way the user will be able to import her Europass profile to EPICommunity easily.



#### Figure 4: Europass and EPIQAsses relation to the EpiCommunity profile characteristics

In the image above we are presenting how the Europass can serve as the common layer between the characteristics on the different platforms. By using Europass, we add standardization to our EPICommunity's users profile.

Another element, worth mentioning is the EPIQAsses features that we full adopt (as described on the deliverable D2.1) to be used as qualitative criteria.

#### 2.3 Towards a social network designed for researchers by researchers

We believe that EPICommunity can serve as a social network incorporating all those features that can foster research and collaboration rather than be "yet another social network". Researchers' time is limited and valuable. Moreover, their work reflects on their publications and academic activities and this is why they are not very much interested in utilizing marketing tools and / or vanity metrics to promote their work. What they do need though are ways to easily find fellow researchers to collaborate, institutions and organizations to partner with on proposals writing or as contractors, teams or laboratories to join for post-doctoral research and so forth.

That is why we designed EPICommunity to serve as a registry, allowing for the easy discovery of high-quality research profiles. Like LinkedIn the members of EPICommunity are the competitive advantage of the platform. The selection of the aforementioned features on a researcher's profile gives our members the opportunity to effectively research future collaborators. On a second level our members can make use of community like features (like participating in groups). This way they can have a quick way of coordinating for a common goal (for example to prepare a project proposal). On the third level, the platform is trying to engage or kickstart such communications by recommending to its members material and contacts relevant to them.

#### 2.4 EPICommunity: Researcher's profile characteristics

Based deliverable D2.3-EPIGame, we identify a set of characteristics that we consider key for the researcher's profile platform wise.

- 1. First name
- 2. Last name
- 3. Date of birth
- 4. Gender
- 5. Place of birth
- 6. University Name
- 7. University Faculty/Department
- 8. Skills
  - Communication/Interpersonal
  - Organizational
  - Digital
  - Language
- 9. Profile description/annotation (form of hashtags)
- 10. Publications
- 11. Projects
- 12. Work experience
- 13. Courses

The reasoning behind the selection of these characteristics is the following. Characteristics 1-5 are providing key information about the identity of the user mainly related to demographics. Characteristics 6-7 are related to the Institution with which the user is related. This is key information since many of the activities of the EU (and EPICUR Alliance activities) require groups by researchers of different academic institutions. Characteristics 8-9 provide work related information (skills and interests). Characteristics 10-13 are lists of elements directly linked with the activity of the user in all the different dimensions that we described in the beginning of 2.3.

#### 3 Definition of EPICommunity actors

#### 3.1 General Roles

The main roles are the following:

- Guest
- Subscriber
- Member
- Moderator
- Administrator

ADMINISTRATOR is responsible for each of the EPICommunity components. The platform is divided in the following parts:

- The Public Space (Web site)
- The Community
- The Administration Panel

Each of those sites can be accessed from the central homepage. Each part has distinct roles. The public can access parts of the information on the platform as a GUEST.

SUBSCRIBERS are users that are signed in to the EPICommunity not as ECRs. Even though they are signed in users, they do not have their own profile entities, they cannot evaluate other users, neither join nor create a

group. The permissions that this role has, is to be able to use the search mechanism of the platform, view profiles and their entities, as well as view group and their information.

MEMBER users have increased rights in comparison to the GUEST and SUBSCRIBER users in the sense that they can interact with the platform instead of just consume content. Specifically for the GROUP entity a user can have the role of MODERATOR, if he is the creator of the GROUP.

The ADMINISTRATOR of all the components is one.

Table 3 presents and overview of EPICommunity Roles and Rights per Component

Table 3: Overview of EPICommunity Roles and Rights per Component

Component	Roles and Rights
Public Web Site	Roles and Rights for Public Web Site
Guest	Access the front page of the platform. Access general purpose informative pages. Access generic metrics of the platform (i.e., number of projects, number of
Community	Poles and Pights for Community
Member / Moderator	Access to logged in users' information (full users' profiles and related entities). Profile and Entities search. Entities Interactions. Matchmaking & Recommendation capabilities. Peer review.
Community	Roles and Rights for Community
Subscriber	Access to logged in users' information (full users' profiles and related entities). Profile and Entities search.
Administration Panel	Roles and Rights for Administration Panel
Administrator	Technical Role. Management of overall Users, Entities, Groups Responsible for Data Consistency. Responsible for Bug Fixes. Responsible for analytics reports. Responsible for site reliability.

#### 3.2 <u>Main entities</u>

The main entities as described in deliverable D2.3-EPIGame are the following:

- User
- Project
- Group [Open / Closed]
- Courses
- Publications
- Positions

#### 4 EPICommunity Use Cases

#### 4.1 Access and Registration / Login

The Figure 5 shows a diagram for the use cases of the Access and Registration / Login. The actual use cases are two and will be thoroughly analyzed in the corresponding paragraphs:

• User Registration



Figure 5: Access and Registration Diagram

#### 4.1.1 User Registration

Use Case	User Registration
Description	A mechanism to join EPICommunity and store personal information to the registry
Actors	PUBLIC
Assumptions	A PUBLIC user has accessed the EPICommunity site and wishes to create a profile in the EPICommunity and add his/her data on the systems registry-catalogue.
Steps	<ul> <li>The user clicks on a registration button on the home page. This links to a page, which asks for information about the user.</li> <li>Required fields are: <ul> <li>First name</li> <li>Last name</li> <li>Email address</li> <li>Chosen password (password is repeated to check for typing errors)</li> </ul> </li> </ul>
Variations	-
Non-Functional	The registration process must be quick - completed within seconds.
Issues	-

#### 4.1.2 User Login

Table 5: Use Case - User Login

Use Case	User Login
Description	A mechanism to authenticate EPICommunity registered members in order to
	access the platform
Actors	Member / Subscriber
Assumptions	A registered user has accessed the EPICommunity site and wishes to login in
	his/her EPICommunity profile.
Steps	The user clicks on a login button on the home page. This links to a page, where the
	user must fill a form with his credentials.
	Required form fields are:
	Email address

	Password
	After filling the correct information in the form, by pressing the Login In button, the user is redirected to the main view of the platform, and he is authenticated.
Variations	-
Non-Functional	-
Issues	-

#### 4.2 Entities interaction

The Figure 6 depicts the Members' interactions with the EPICommunity platform entities while the Figure 7 shows the flow of how a Subscriber can Search and Visit profiles. The interactions are divided into three categories and be further analyzed in the respective paragraphs:

- User to user (Members, partially Subscribers)
- Recommended entities to the user by the platform (only Members)
- User interaction with platform entities (only Members)



Figure 6: Members' Entities Interactions Diagram



Figure 7: Subscribers' Search and Visit Profile Diagram

#### 4.2.1 User to user

The users can interact with each other with the following ways:

- Search Profile
- Visit Profile
- Contact Request
- Private Message
- Evaluate User

#### 4.2.1.1 Search Profile

# Table 6: Use Case - Search Profile

Use Case	Entities Interaction / User to User / Search Profile
Description	This use case describes the ways that a user can utilise in order to find another
	EPICommunity Member.
Actors	Member, Subscriber
Assumptions	A registered user that is authenticated (logged in) in the EPICommunity platform
Steps	EPICommunity platform empowers the Members and Subscribers with a set of tools and different ways that grands them the ability to search for other Members within the platform. Those are: Search: The EPICommunity platform offers an advanced search mechanism that allows a user to perform complex queries in order find profiles that match his/her requirements. In order for a Member or Subscriber to use the Search,
	<ul> <li>s/he could:</li> <li>Select the Search option from the sidebar menu</li> </ul>
	<ul> <li>Select the entity option Users</li> </ul>
	• Fill the corresponding fields
	Send the query
	View the results
	Some of the available search options regarding the profile search are the following:
	• First name (result contains the characters of the user input)
	• Last Name (result contains the characters of the user input)
	Associated Tags
	• Publication name (result contains the characters of the user input)
	Number of Publications
	Project name (result contains the characters of the user input)
	Number of Projects
	Course name (result contains the characters of the user input)
	Number of Courses
	Number of Positions
	Number of Friends
	Number of assessments that the profile has received
	Profile score
	<ul> <li>Assessment scores per role (Researcher, Innovation, Entrepreneur, Society)</li> <li>Number of groups that s/he is member of</li> <li>Top categories tags</li> </ul>
	<ul> <li>Search bar: Using a search bar the user can find perform a quick search for another member that match his search query. The search bar input will be matched only against first names, last names and tags while the search results will only contain users.</li> <li>Groups: Utilizing the open groups, a user can find other EPICommunity users by reviewing the members that belong to a group.</li> </ul>
Variations	<ul> <li>An alternative way to search for a profile using the groups, is to view member of the groups that he/she is member of. By following:</li> <li>Navigate to his/her own profile using the sidebar menu</li> </ul>
	Select Groups tab

	<ul> <li>In the new window, the user views a list containing all the groups that he is member</li> <li>Selecting a group, the user can view the rest group members</li> </ul>
	<ul> <li>Also, using the build in recommendations mechanism of the platform the user can find other member that the application suggests for contact.</li> <li>Choose Recommendations in the side bar</li> <li>Choosing Connection from the options will display recommended Members for contact by the platform</li> <li>Selecting a group, the user can view the rest group members</li> </ul>
	Note: The above variations are only available for the registered Members, while the Subscribers have neither access to recommendations nor groups.
Non-Functional	-
Issues	-

#### 4.2.1.2 Visit Profile

Use Case	Entities Interaction / User to user / Visit Profile
Description	A user can visit the profile of another user and view the information regarding the
	entities of that profile
Actors	Member / Subscriber
Assumptions	A registered user that is authenticated (logged in) in the EPICommunity platform
Steps	The steps to view another user's profile are the following:
	<ul> <li>Find the EPICommunity member that the user is interested to view</li> <li>Press on his/her name</li> </ul>
	<ul> <li>After pressing on the user's name, the platform redirects to the profile page of that user. The information that a user will see by visiting another profile is the following:</li> <li>Number of friends</li> </ul>
	<ul> <li>Number of assessments that the profile has received</li> </ul>
	• Number of assessments that the user has made to other users
	Profile score
	• Number of groups that s/he is member of
	Iop categories
	Category impact
	Profile strength
	• List of the reset recent estivities recentling the platform entities
	• List of the most recent activities regarding the platform entities
	<ul> <li>Using a navigation bar, a user is also able to see the entities information of that profile. This includes the following info:</li> <li>Projects</li> <li>Publications</li> </ul>
	Publications
	Courses     Desitions
	Positions
	The user can also select a specific instance of an entity in order to view the instance
	information and useful data like:
	Instance annotations (tags)
	Number of views
	Number of endorsements

#### Table 7: Use Case - Visit Profile

	Comments
	In the entities' navigation bar, there is also the option to view the acquired Badges for that user. Explained in section 4.6. In order to find an EPICommunity member the user can utilise the ways described in 4.2.1.1
Variations	-
Non-Functional	-
Issues	-

#### 4.2.1.3 Contact Request

#### Table 8: Use Case - Contact Request

Use Case	Entities Interaction / User to user / Contact Request
Description	A user can send a contact request to another user
Actors	Member
Assumptions	A registered user that is authenticated (logged in) in the EPICommunity platform
Steps	<ul> <li>The steps that an authenticated user must follow in order to send a contact request to another user are:</li> <li>Visit the profile of the user (explained in 4.2.1.2)</li> <li>Press the send contact button</li> </ul>
	Then, the platform forwards the request to the other user. When that user accepts the request, they both can view each other in the contacts list.
Variations	In case of a rejected contact request, the user can send a new request.
Non- Functional	-
Issues	-

#### 4.2.1.4 Private Message

#### Table 9: Use Case - Private Message

Use Case	Entities Interaction / User to user / Private Message
Description	A user can use the messaging mechanism of the platform to send a private
	message to a contacted user
Actors	Member
Assumptions	A registered user that is authenticated (logged in) in the EPICommunity platform and being in contact (friends) with the user that is going to receive the massage
Steps	<ul> <li>The steps that an authenticated user must follow in order to send a message to a contact are:</li> <li>Visit the profile of the user (explained in 4.2.1.2)</li> <li>Press the Send Message button</li> <li>Fill the message information (subject, body) in a text form</li> <li>Press "Send button"</li> <li>The Send Message button is only visible if and only if the two users are already in contact (friends).</li> </ul>
Variations	<ul> <li>An alternate procedure to use the messaging functionality is through the contact list:</li> <li>Select the Profile option from the sidebar menu</li> <li>Select the Contact List</li> <li>Find the contact that is going to receive the message</li> <li>Press the mail icon</li> </ul>

	<ul> <li>Fill the message information (subject, body)</li> <li>Press "Send button"</li> </ul>
Non- Functional	-
Issues	-

#### 4.2.1.5 Evaluate User

Use Case	Entities Interaction / User to user / Evaluate User
Description	A user can evaluate another user based on the EPIQAssess
Actors	User
Assumptions	A registered user that is authenticated (logged in) in the EPICommunity platform
Steps	<ul> <li>The steps that an authenticated user must follow in order to evaluate another user are:</li> <li>Visit the profile of the user (explained in 4.2.1.2)</li> <li>Press the Evaluate button</li> </ul>
	<ul> <li>After pressing on the Evaluate button, the assessment process starts. The assessment has the form of a questionary. The rating is from 1 to 10. The user has to provide his rating and comments (qualitative assessment) for the user regarding the specified field</li> <li>The evaluation could be done in 4 aspects of a researcher based on EPIQAssess, namely: <ul> <li>Researcher</li> <li>Teacher</li> <li>Entrepreneur</li> <li>Society</li> </ul> </li> </ul>
	<ul> <li>Each role has 3 categories of criteria:</li> <li>Core criteria</li> <li>Specific criteria</li> <li>Personal Qualities</li> </ul>
	Depending on the category the number of questions per aspect varies from 3 to 6 questions. The evaluation will expire after 6 months.
Variations	<ul> <li>The evaluation process is flexible. A user should be able to evaluate another one:</li> <li>only in a specific role</li> <li>save the evaluation process to finish later</li> </ul>
Non-Functional	-
Issues	The "Emerging Criteria" of EPIQAssess are not included in the assessment. This could be integrated in a future version of the EPICommunity if decided/needed.

# 4.2.2 Recommended entities to the user by the platform

Table 11: Use Case - Recommended entities to the user by the platform

Use Case	Entities Interaction / Recommended entities to the user by the platform
Description	The platform proposes entities to a user in the form of recommendations (i.e.,
	other user profiles, publications, courses, groups)
Actors	Member, Platform

Assumptions	A registered Member that is authenticated (logged in) in the EPICommunity platform
Steps	<ul> <li>The steps that a user must follow in order to view the recommendations are the following:</li> <li>Choose Recommendations in the side bar</li> <li>Choosing an entity from the options will display the recommendations of that choice.</li> </ul>
	The different options are: <ul> <li>Projects</li> <li>Groups</li> <li>Publications</li> <li>Courses</li> <li>Connections (users)</li> </ul>
	<ul> <li>The user can view the platforms recommendation regarding the entity of his choice. The platform sorts the recommendations in a descending order, from the most relevant to the least relevant.</li> <li>In order to create a recommendations list for a user, the EPICommunity platform considers two parameters. Those parameters are:</li> <li>Tags</li> <li>Institution</li> </ul>
	The Tags parameter contributes 70% to the result, while the Institution parameter contributes 30%.
Variations	-
Non-Functional	-
lssues	The recommendation algorithm could be revised in future versions by changing the input parameters (for example by considering "Alliance", "Co-Authors", etc.) and their weights.

# 4.2.3 User interaction with platform entities

Table 12: Use Case - User interaction with platform entities

Use Case	Entities Interaction / User interaction with platform entities / Actions
Description	<ul> <li>Users can interact with platform entities. The interactions include:</li> <li>Endorsement, which is a form of "like" functionality used in other social networks</li> <li>Copy entity link, where the user can create a link that leads to that entity</li> <li>Comment</li> </ul>
Actors	Member
Assumptions	A registered member that is authenticated (logged in) in the EPICommunity platform
Steps	<ul> <li>To interact with an entity, an authenticated member user has to:</li> <li>Visit the profile of a user (explained in 4.2.1.2)</li> <li>Visit the entity that he wants to interact with</li> <li>Choose the type of interaction</li> </ul>
	In case of Endorsement, the user can press the Endorse button. The button changes colour in order to indicate that an entity in already endorsed. If the user wants to remove his/her endorsement, he/she presses again the same button, which will return to its normal state.

	<ul> <li>In case of Comment, the user can view the previous comments of that entity and by using the input field and the Comment button can leave his/her own comment.</li> <li>A user can delete a comment if he/she wishes by:</li> <li>using the options button on the top right of a comment he already has posted</li> <li>Select the delete option</li> </ul>
	The user cannot use the Endorsement for his own entities.
Variations	-
Non- Functional	-
Issues	Consider adding an Edit option in the comment's options.

#### 4.3 **Profile Related Use Cases**

The Figure 8 depicts the EPICommunity profile related use cases. The use cases are distinct in the following categories and will be thoroughly analyzed in the corresponding paragraphs:

- Profile Management (Create / Read / Update / Delete)
- Profile Import
- Profile Export



Figure 8: Diagram for the Profile Related Use Cases

#### 4.3.1 Profile Management (Create / Read / Update / Delete)

Table 13: Use Case - Profile Management

Use Case	Profile Related Use Cases / Profile Management
Description	<ul> <li>This use case refers to the set of actions that allow a user to manage his/her own profile. The profile management actions are:</li> <li>Create: this management action refers to the fulfilment of the extended information regarding the user. While an email and a password are sufficient for a user to get registered in the EPICommunity, in order to use the platform in its extend and get the most of it, a user must provide additional information.</li> <li>Read: allows a user to view the information of his/her own profile</li> <li>Update: allows a user to update the information in his/her profile</li> <li>Delete: allows a user to remove information from his/her profile or delete his/her account.</li> </ul>
Actors	Member
Assumptions	A registered user that is authenticated (logged in) in the EPICommunity platform

Steps	<ul> <li>The profile creation begins right after a successful registration. The new user will be prompt to provide additional information that is crucial for the functionality of the platform.</li> <li>Step 1 The mandatory information is: <ul> <li>Institution / Organisation</li> <li>Research level (R1-R4, as agreed by the EPICUR consortium)</li> <li>Profile descriptors (in form of tags)</li> <li>ORCID</li> <li>Europass link</li> </ul> </li> </ul>
	<ul><li>The following field is optional:</li><li>Alliance</li></ul>
	<ul> <li><u>Step 2</u></li> <li>In this next step, the platform requests from the user the following information:</li> <li>Date of birth</li> <li>Place of birth</li> <li>Contact Information</li> <li>Address</li> </ul>
	<ul> <li><u>Step 3</u></li> <li>In the final step, the platform asks the user for information regarding the entities:</li> <li>Courses</li> <li>Publications</li> <li>Projects</li> <li>Positions<sup>2</sup></li> </ul>
	<ul> <li>And the following lists containing his/her skills:</li> <li>Digital skills</li> <li>Communication/Interpersonal skills</li> <li>Organisational skills</li> <li>Language skills</li> </ul>
	<ul> <li>By finishing the above procedure, the role MEMBER is assigned to the user, so he/she can use the full capabilities of the EPICommunity platform and access the Dashboard.</li> <li>The Dashboard is the main view of the EPICommunity platform. Here the user will see useful information not only regarding his/her own profile, but also information regarding his/her friends' recent activity, as well as general platform news.</li> <li>The information regarding his/her own profile in Dashboard contains:</li> <li>Total Endorsements</li> <li>Total Assessments</li> <li>Total Profile Score</li> </ul>
	<ul> <li>Also, s/he will be able to see:</li> <li><u>Radar chart</u> displaying his assessment score in the 4 roles (Researcher, Teacher, Entrepreneur, Society) based on other EPICommunity members evaluations</li> <li><u>Line chart</u>: displaying his profile visits, endorsements and comments overtime</li> <li><u>Friends News</u>: A table displaying his/her friends' recent activity regarding the entities (e.g., X X added a new Publication)</li> </ul>

<sup>&</sup>lt;sup>2</sup> "Jobs" field in the Europass schema

• <u>EPICommunity News</u> : Displaying information regarding the platform daily news in the form of timeline (e.g., X New Users Joined)
<ul> <li>The users can read – view the profile information that they have inserted-shared in the EPICommunity. By following the steps below:</li> <li>Select the Profile option in the sidebar menu</li> <li>Press the Profile Information button</li> </ul>
<ul> <li>The user can view his/her general information:</li> <li>Institution / Organisation</li> <li>Research level (R1-R4, as agreed by the EPICUR consortium)</li> <li>Profile descriptors (in form of tags)</li> <li>Date of birth</li> <li>Place of birth</li> <li>Contact Information</li> <li>Address</li> <li>Alliance</li> <li>Digital skills</li> <li>Communication/Interpersonal skills</li> <li>Organisational skills</li> <li>Language skills</li> </ul>
As well as the following: Friends List Number of assessments that he/she has received Number of assessments that he/she has made to other users List of his assessments Profile score Group List Top categories Category impact Profile strength List of his/her most recent activities regarding the platform entities
<ul> <li>In order to update the profile information, the user must:</li> <li>Navigate to the Profile Information</li> <li>Select the Edit option</li> </ul>
<ul> <li>The information that he/she can update is:</li> <li>Institution / Organisation</li> <li>Research level (R1-R4, as agreed by the EPICUR consortium)</li> <li>Profile descriptors (in form of tags)</li> <li>Date of birth</li> <li>Place of birth</li> <li>Contact Information</li> <li>Address</li> <li>Alliance</li> <li>Digital skills</li> <li>Communication/Interpersonal skills</li> <li>Organisational skills</li> <li>ORCID</li> </ul>
<ul> <li>In order to <b>delete</b> the profile information, the user has to:</li> <li>Navigate to the Profile Information</li> </ul>

	<ul> <li>Select the Delete option</li> <li>Select Yes, in a pop-up window</li> </ul>
	<ul> <li>The Delete option removes the following information from the user profile:</li> <li>Date of birth</li> <li>Place of birth</li> <li>Contact Information</li> <li>Address</li> <li>Hard skills</li> <li>Soft skills</li> <li>Alliance</li> </ul>
	Furthermore, in the delete function the member/subscriber will have an option to delete his/her account from the EPICommunity permanently.
Variations	<ul> <li>From the three steps described in the profile management action create, only the first one is mandatory.</li> <li>A user can choose to continue to the EPICommunity platform as a SUBSCRIBER in the first step of the action create. By doing so, the whole create action is skipped, the role SUBSCRIBER is assigned to the user, and he/she continues to the EPICommunity platform with limited access. SUBSCRIBER:</li> <li>Has access only EPICommunity news to his/her Dashboard</li> <li>Has no Recommendation option</li> <li>Has no ability to interact with entities</li> <li>Has no ability to assess Members</li> <li>Has no ability to create or join groups</li> </ul>
	<ul> <li>Also, the available information for update or view by other users in his/her profile is:</li> <li>First name</li> <li>Last name</li> <li>Address</li> <li>Organisation</li> <li>Email</li> </ul>
Non-Functional	-
Issues	-

#### 4.3.2 Profile Import

Use Case	Profile Related Use Cases / Profile Import
Description	Users can import existing profiles that follow the Europass profile schema. A convenient way to fill profile information regarding the entities Publication, Courses, Projects, Jobs and generic profile information like contact, address, skills and date of birth.
Actors	Member
Assumptions	The user is registered in the EPICommunity platform
Steps	After a new user successfully registers to the EPICommunity platform and finishes the first mandatory step of the profile creation, he/she can choose to finish the profile creation either manually or import. The steps to import existing profile are: Press the import button
	Provide a link containing the profile for import
	<ul> <li>Review the information that are going to be imported per entity</li> </ul>

Table 14: Use Case - Profile Import

	Press the Complete button.
Variations	The user can use either file or link for the import process.
Non-Functional	-
Issues	<ul> <li>Issues for this use case contain:</li> <li>Incompatible schema</li> <li>Incompatible file extension</li> <li>Expired link</li> </ul>

#### 4.3.3 Profile Export

#### Table 15: Use Case - Profile Export

Use Case	Profile Related Use Cases / Profile Export	
Description	Users can export their profiles into a file that follows the Europass profile schema	
	definition in a convenient way for profile reusability.	
Actors	Member	
Assumptions	The user is registered and authenticated in the EPICommunity platform	
Steps	In order to export the profile information, the authenticated has to:	
	Select the Profile option in the sidebar menu	
	Press the Profile Information button	
	Select the export option	
	After selecting this option, a file is downloaded. The user can use this file to import or update his information to any platform that is compatible with the Europass profile schema.	
	The user can select the export file extension between the two available export	
	• 1SON	
Variations	-	
Non-Functional	-	
Issues	-	

# 4.4 <u>Use Cases for the Entities Courses, Publications and Projects (Create / Read / Update / Delete)</u>

The Figure 9 depicts the use cases for the Management and Search of the entities Courses, Publications and Projects by a user with the role of a Member. It shows the set of actions that allow a user to manage the entities Courses, Publications and Projects as well as the ways he/she can find and view instances of those entities.



Figure 9: Diagram for Management/Search of Courses, Publications, Positions and Projects by Members

The Figure 10 demonstrates how users with Subscriber role can search for the entities Courses, Publications and Projects.



Figure 10: Diagram for Search of Courses, Publications, Positions and Projects by Subscribers

#### 4.4.1 Management of Courses, Publications and Projects

Table 16: Use Case - Management of Courses, Publications and Projects

Use Case	Use Cases for the Entities Courses, Publications and Projects Courses / Management
Description	<ul> <li>This use case refers to the set of actions that allow a user to manage his/her own profile Courses, Publications and Projects. The management actions are:</li> <li>Create: allows a user to create new instance of either Course. Publication or lob</li> </ul>
	<ul> <li>entity in his/her profile</li> <li>Read: allows a user to view his/her own records of each entity</li> <li>Update: allows a user to update the information of an already registered instance</li> </ul>

	• <b>Delete:</b> allows a user to delete instances of Courses, Publication or Projects from his/her profile
Actors	Member
Assumptions	A registered user that is authenticated (logged in) in the EPICommunity platform
Steps	<ul> <li>In order to create a new instance of an entity, the authenticated user must follow the steps:</li> <li>Navigate to his/her own profile using the sidebar menu</li> <li>Select the category that corresponds to the entity that he/she wants to create</li> <li>In the new window, select the option to create new entity instance</li> <li>The new window contains the form for the user to fill with required information regarding new entity</li> <li>Press create</li> </ul>
	<ul> <li>Each entity has its own fields to be filled in the creation form. The fields below are common among all the entities:</li> <li>Title</li> <li>Description</li> </ul>
	<ul> <li>The Publication entity has the additional fields, and they are all mandatory:</li> <li>Year</li> <li>URL (the link to the publication)</li> <li>Reference</li> <li>Co-authors</li> </ul>
	<ul> <li>The Course and Project entities have also the fields, with the last two fields being optional:</li> <li>Start date</li> <li>End date</li> <li>Ongoing</li> <li>Link to file or video (optional)</li> <li>Project logo (optional image attachment of the project, accepted formats: PNG, JPG)</li> </ul>
	<ul> <li>In case of Course creation an optional field "Co-Teachers" will be available.</li> <li>In case of Project creation, the user has also the option to create a Group for that Project. By enabling the checkbox labelled Create Group in Project creation form, a new private group will be created and will be attached to this Project using the Project ID field automatically. This new Group will act as an internal community for the project, where the moderator can invite new members.</li> <li>The user can read – view his/her registered entities instances to the EPICommunity platform. The steps are:</li> <li>Navigate to his/her own profile using the sidebar menu</li> <li>Select the option that matches the type of the entity that he/she wants to view</li> <li>In the new window, the user views all the instances that he/her has created for that entity</li> </ul>
	<ul> <li>By selecting an instance, the user will see the detailed information regarding the entity instance as well as:</li> <li>The number of Endorsements</li> <li>Number of views</li> <li>Comments</li> <li>Annotations</li> <li>To edit – update the information of an instance the user has to perform the following actions:</li> </ul>

	<ul> <li>Navigate to his/her own profile using the sidebar menu</li> </ul>
	• Select the option that matches the type of the entity that he/she wants to
	update
	<ul> <li>In the new window, the user views all the instances that he/her has created for that entity</li> </ul>
	• Select the entity instance that is going to be updated
	Select the update option
	• The new window contains a prefilled form with the data of the instance. The user can update the instance data using this form
	Press update
	<ul> <li>Deleting an entity follows similar steps as the update procedure.</li> <li>Navigate to his/her own profile using the sidebar menu</li> </ul>
	• Select the option that matches with the type of the entity that he/she wants to delete
	• In the new window, the user views all the instances that he/her has created for that entity
	Select the entity instance for deletion
	Select the delete option
	• The pop-up window prompts the user that the delete action is irreversible and ask for his confirmation
	Pressing Yes concludes the instance deletion
Variations	•
Non-Functional	•
Issues	

# 4.4.2 Search of Courses, Publications and Projects

Table 17: Use Case - Search of the Courses, Publications and Projects

Use Case	Use Cases for the Entities Courses, Publications and Projects / Search	
Description	The EPICommunity platform empowers the Members and Subscribers with a tool	
	that allows them to search for Courses, Publications and Projects within the	
	community. This table refers to the search use case of the above entities.	
Actors	Member / Subscriber	
Assumptions	A registered user that is authenticated (logged in) in the EPICommunity platform	
Steps	<ul> <li>Members and Subscribers can utilise the advanced search mechanism that allows them to perform complex queries in order to find Courses, Publications and Projects that meet his/her requirements. To use the Search option:</li> <li>Selecting the Search option from the sidebar menu</li> <li>Select one or more of the entities options (Courses, Publications, Projects)</li> <li>Fill the corresponding fields</li> <li>Send the query</li> <li>View the results</li> </ul>	
	<ul> <li>Some of the available search options that are common among the Courses, Publications and Projects are the following:</li> <li>Name (result contains the characters of the user input)</li> <li>Associated Tags (result contains the characters of the user input)</li> <li>Number of Endorsements</li> <li>Number of Comments</li> </ul>	
Variations	An alternative way to search for Courses, Projects and Publications is by using the build in recommendations mechanism of the platform. A Member can find Courses, Publications and Projects that suggested by the application through:	

	<ul> <li>Choose Recommendations in the side bar</li> <li>Choosing either Courses, Projects or Publications from the options will display the recommended instances of chosen entity</li> </ul>
	The above is only available for the registered Members, while the Subscribers have no access to recommendations.
Non- Functional	-
lssues	-

#### 4.5 Group Related Use Cases

The Figure 11 depicts the diagram for the Group Management (Create / Read / Update / Delete), Group Member Management and Group Enrolment use cases. The actual use cases are further analyzed by the tables in each corresponding paragraph.



Figure 11: Group Management and Member Management Diagram

#### 4.5.1 Group Management (Create / Read / Update / Delete)

Table 18: Use Case	- Group	Management
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Use Case	Group Related Use Cases / Group Management
Description	<ul> <li>This use case refers the built-in group system of the EPICommunity platform. A user can use the following actions in order to manage the entity group:</li> <li>Create: allows a user to create a new group</li> <li>Read: allows a user to view the information of a group</li> <li>Update: allows a user to update the information of a group</li> <li>Delete: allows a user to delete a group</li> </ul>
Actors	MEMBER, Group Moderator
Assumptions	A registered user that is authenticated (logged in) in the EPICommunity platform For the update and delete actions the user has to also be group moderator

Steps	<ul> <li>In order to create a new group, the authenticated user has to follow the steps:</li> <li>Select Groups option in the sidebar menu</li> <li>Select the New Group option</li> <li>Fill in the group information</li> <li>Press Create</li> </ul>
	<ul> <li>The mandatory group information consists of:</li> <li>Group name</li> <li>Description</li> <li>Group annotations (tags)</li> <li>Group type (open/closed)</li> </ul>
	<ul> <li>The optional group fields are:</li> <li>Meeting link</li> <li>Project ID</li> <li>EPICluster (i.e., to characterize the group as an EPICluster)</li> <li>EPICradle (i.e., to characterize the group as an EPICradle)</li> </ul>
	<ul> <li>The group types are:</li> <li><u>Open</u>: the open groups do not require membership approval</li> <li><u>Closed</u>: the closed groups require for the group moderator to accept the group membership request</li> </ul>
	<ul> <li>By completing the creation of the group, the user is assigned automatically as the user founder and the user moderator.</li> <li>A user can read - view the groups that he/she is a member by: <ul> <li>Navigate to his/her own profile using the sidebar menu</li> <li>Select Groups tab</li> <li>In the new window, the user views a list containing all the groups that he is member</li> </ul> </li> </ul>
	<ul> <li>By clicking on a group, the user can view the groups information like:</li> <li>Group tags</li> <li>Group name</li> <li>Description</li> <li>Group members (if he/she is member or group is public)</li> <li>Meeting Link (if he is member)</li> <li>Group wall (if he/she is member)</li> <li>Group statistics</li> <li>Manage Group button (if he is group moderator)</li> </ul>
	As well as analytics like: <ul> <li>Number of views</li> <li>Number of Endorsements</li> <li>Number of comments</li> <li>Number of badges</li> <li>List of badges held over time</li> </ul>
	<ul> <li>The group wall has the form of a forum.</li> <li>A user can read – view a list of all the registered groups in EPICommunity platform despite the fact if he/she is a member of or not:</li> <li>Selecting the Groups option from the sidebar menu</li> </ul>
	<ul> <li>To edit – update the information of group:</li> <li>Navigate to his/her own profile using the sidebar menu</li> <li>Select Groups tab</li> </ul>

	<ul> <li>In the new window, the user views a list containing all the groups that he is member</li> <li>Select the group that is going to be updated</li> <li>Select the Edit option</li> <li>The new window contains a prefilled form with the information of the group. The user can update the group data using this form</li> <li>Press update</li> </ul>
	<ul> <li>The option Edit in the group view, is only available if and only if the user is moderator of the group or has permissions for edit.</li> <li>Deleting a group follows similar steps as the update procedure.</li> <li>Navigate to his/her own profile using the sidebar menu</li> <li>Select Groups tab</li> </ul>
	<ul> <li>In the new window, the user views a list containing all the groups that he is member</li> <li>Select the group that is going to be deleted</li> <li>Select the Delete option</li> </ul>
	<ul> <li>The pop-up window prompts the user that the delete action is irreversible and ask for his confirmation</li> <li>Pressing Yes concludes the instance deletion</li> </ul>
Variations	-
Non-Functional	-
Issues	-

# 4.5.2 Group Member Management

Table 19: Use Case - Group Member Management

Use Case	Group Member Management
Description	This use case describes how a group moderator can manage the users within a group
Actors	Group moderator
Assumptions	A registered user that is authenticated (logged in) in the EPICommunity platform The user is group moderator, and the group has at least another one member
Steps	<ul> <li>To manage the member of a group the group moderator must:</li> <li>Navigate to his/her own profile using the sidebar menu</li> <li>Select Groups tab</li> <li>In the new window, the user views a list containing all the groups that he is member</li> <li>Select the group for user management</li> <li>Select the Manage Group option</li> <li>Select Manage Members</li> <li>The new window contains a table with all the users in the group</li> <li>Manage the group</li> <li>Press Complete</li> <li>The option Manage Members, like the Edit option in the group view, is only available if and only if the user is moderator of the group.</li> <li>The bullet "Manage the group" refers to the actions:</li> <li>Remove Member</li> <li>Change permissions of Member</li> <li>Change Role</li> </ul>

	If the moderator decides that a member can no longer be a part of that group, he/she can revoke memberships and remove users from the group using the Remove Member option. A moderator cannot remove another moderator from the group.
	<ul> <li>The different permissions that a group moderator can give to the members are:</li> <li>Write to wall</li> <li>Update information</li> </ul>
	<ul> <li>The available roles are that a moderator can assign to a group member are:</li> <li>Moderator</li> <li>Member</li> </ul>
	Another role that exists but it is not assignable is the Founder role. This role is immutable and can only be held by one user, the creator of the group. This role has not any special privileges, it is just an honorary title. The moderator role, is the most powerful role in a group, having all the permissions. A group moderator cannot degrade other moderators. Always must be at least one moderator. In case of multiple, a moderator can only degrade his own role, from Moderator to Member. In case of multiple group moderators, the group cannot be deleted, unless they consent.
Variations	-
Non- Functional	-
lssues	-

# 4.5.3 Group Enrolment

#### Table 20: Use Case - Group Enrolment

Use Case	Group Related Use Cases / Group Enrolment
Description	This use case describes how a user becomes member of a group.
Actors	MEMBER, Group Moderator, Platform
Assumptions	A registered user that is authenticated (logged in) in the EPICommunity platform The group moderator handles the request of the applicant
Steps	<ul><li>There are two types of groups:</li><li>Open</li><li>Closed</li></ul>
	<ul> <li>Which follow different approach to group membership. If the type of the group is open, the applicant automatically becomes member of the group upon application.</li> <li>On the other hand, to become member in a closed group, the applicant sends membership request. The EPICommunity platform pushes a notification to the group moderator and adds a new entry to the list of the pending membership requests of the group. If the moderator accepts the request, the user becomes member of the group. The applicant cannot send a new request while his previous one is still pending. If the group moderator declines the membership request or does not handle it within 7 days, the request is automatically cancelled, and the applicant can reapply.</li> <li>The procedure to apply for a group is:</li> <li>Selecting the Groups option from the sidebar menu</li> <li>Select a group from the groups list</li> <li>Press the Apply Now button</li> </ul>
	If the group is open, the user becomes a member.
----------------	--
	In case of closed group, in order the user to become member the group moderator
	must follow the steps:
	• Navigate to his/her own profile using the sidebar menu
	Select Groups tab
	• In the new window, the user views a list containing all the groups that he/she is member
	Select the group for user management
	Select the Manage Group option
	Select the Manage Requests option
	• The new window contains a table with all the incoming group membership applications
	• Each entry has 2 options, Accept – Reject
	• Selecting Accept, the applicant becomes member of the group
	The default role for new members is Member.
Variations	An alternative procedure to apply for a group is by utilising the search mechanism
	to find the group first and then join. The steps are:
	• Selecting the Search option from the sidebar menu
	Make a Groups query
	Select a group from the results
	Press the Apply Now button
Non-Functional	-
Issues	-

#### 4.5.4 Leave Group

The Figure 12: Leave Group Diagram depicts the diagram for the Leave Group use case, which is further elaborated in the Table 21 below.



Figure 12: Leave Group Diagram

Table 21: Use Case – Leave Group

Use Case	Group Related Use Cases / Leave Group
Description	This use case describes how a user can leave a group.
Actors	MEMBER
Assumptions	A registered user that is authenticated (logged in) in the EPICommunity platform and wishes to quit from a group that he/she is member of.
Steps	<ul> <li>In either case of the open or closed group the steps that a user can follow to leave from a group are:</li> <li>Navigate to his/her own profile using the sidebar menu</li> <li>Select Groups tab</li> <li>In the new window, the user views a list containing all the groups that he/she is member</li> <li>Select the group</li> <li>Select the Leave option</li> <li>Confirm the leave pop-up message</li> </ul>
Variations	-
Non- Functional	-

lssues

### 4.6 Badges Use Case (Create / Read / Delete)

The Figure 13 demonstrates how a user with the Member role can view his own badges. The procedure of viewing other Members' badges by Members is shown in the Figure 6, while for the Subscribers to view other Members badges can be found in Figure 7.



#### Figure 13: Diagram for View Badges Use Case

### Table 22: Use Case - Badges

Use Case	Badges
Description	This use case refers to the actions regarding the built-in badge system of the
	EPICommunity platform. These actions are:
	Create: The platform issues a new badge to a user or a group
	Read: A user can view his badges, other members' badges or groups' badges
	<b>Delete:</b> The platform decides if the conditions are not met to revoke a badge from
	a user or a group
Actors	Member, Platform
Assumptions	A registered user that is authenticated (logged in) in the EPICommunity platform.
	User that has at least one badge.
	Group that has at least one badge.
Steps	The badges that are considered are those with type Badge of Achievements, from
	the deliverable of EPIGame (Table 4 - Proposed Gamification Mechanics).
	For the platform to <b>create</b> a new badge, the conditions of the badge must be
	satisfied <sup>3</sup> . After the badge creation the badge is issued to the eligible user.
	Only the EPICommunity platform can <b>create</b> and <b>issue</b> badges.
	Users can <b>view – read</b> their earned badges through:
	<ul> <li>Navigate to his/her own profile using the sidebar menu</li> </ul>
	Select Badges tab
	• In the new window, the user views a list containing all the badges that he/she has acquired
	Or they can view what badges other members of the EPICommunity have received by:
	Visit the profile
	• From the navigation bar select Badges option

<sup>&</sup>lt;sup>3</sup> Please refer to the deliverable D2.3 (EPIGame) for more information regarding the conditions of gaining the badges.

	<ul> <li>Also, users can view the Badges that a Group has earned by: If he/she is member of the group</li> <li>Navigate to his/her own profile using the sidebar menu</li> <li>Select Groups tab</li> <li>In the new window, the user views a list containing all the groups that he is member</li> </ul>
	<ul> <li>If he/she is not member of the group:</li> <li>Selecting the Groups option from the sidebar menu</li> <li>A list of all the registered groups in EPICommunity platform is displayed</li> </ul>
	In either case, by clicking on a specific group, the user can view the information of a particular group as well as the badges that this group has obtained. The <b>deletion</b> case is also a platform only action. Users cannot delete badges. If the conditions of a badge cease to be met, the platform revokes the issuance of that badge and will not be able to see it on his profile Badge list (same rules apply for group badges).
Variations	-
Non-Functional	-
Issues	-

### 5 EPICommunity Functionality

This section describes the services that the system provides in terms of responsibilities. Each envisaged system service is described along with a wireframe in order to depict the user interface. The functionality of the system has been categorized as much as possible to each system component/element.

- 5.1 Access and Registration / Login
- 5.1.1 User Registration



#### Figure 14: User Registration Screen

EpiCommunity	
	Sign Up Fill the bellow form to become and EpiCommunity member.
	First Name
	This field is required
	Last Name
	This field is required
	Email Address
	This field is required
	Password
Promote yourself and your work	This field is required
Meet with other FCRs	What is a secure password?
Create collaboration groups	Confirm Password
and much more. All in one place.	This field is required
	I agree to the EpiCommunity Privacy Policy.
	You have to agree with the Privacy Policy.
	Register

#### Figure 15: User Registration Screen with errors

Functionality Name	User Registration
Relative Use	User Registration
Cases	Paragraphs: 4.1.1
Actors	PUBLIC
Input Data	First name

### Table 23: Functionality – User Registration

	<ul> <li>Last name</li> <li>Email address</li> <li>Chosen password</li> <li>Confirm password (repeated password to check for typing errors)</li> </ul>
Description	<ul> <li>It is assumed that the actor is an anonymous user who wishes to register on the system. Therefore, the actor fills in the form with his/her information as described above in the Input data.</li> <li>Providing the wrong or inaccurate information, the interface (Figure 14) informs the user about the error/s below and each corresponding field. Also, the border of the field turns red, indicating error. The image Figure 15 depicts how a registration form with errors will look like.</li> <li>The incorrect information could be: <ul> <li>First name (at least 2 characters)</li> <li>Last name (at least 2 characters)</li> <li>Email address (already used, emails are unique in the EPICommunity platform)</li> <li>Password (must contain at least 1 upper case, 1 lower case, 1 number and have minimum length of 8)</li> <li>Confirm password (does not match the Password field)</li> </ul> </li> </ul>
	All the above fields are mandatory. After providing his/her information and pressing the register button, the user is redirected to a new page for the email verification process (Paragraph 5.1.2).
<i>Output Data</i>	The system creates a new entry in the users table and marks it with unverified email. Also, a verification email is being send to the user.
Variations	-

### 5.1.2 Email Verification



Figure 16: Email Verification Screen Table 24: Functionality – Email Verification

Functionality	Email Verification
Name	
Relative Use	User Registration, User Login
Cases	Paragraphs: 4.1.1, 4.1.2
Actors	PUBLIC
Input Data	Notification ID
	Hash (SHA1 of the user email)
	Expiration date and time
Description	<ul> <li>It is assumed that the actor is a user that has finished the registration process (paragraph 5.1.1) and wishes to log in to his/her account. After a successful log in, the system will redirect the user to a page that instructs her/him to verify the provided email address in order to continue.</li> <li>The steps that a user must follow to verify the email address for the EPICommunity, are:</li> <li>Find the email verification in the inbox</li> <li>Press the "Verify now" button or visit the link under that button</li> </ul>
	The input data described above, are parameters encoded in the URL that is being send to the users' email. The user does not provide, and/or not required to know/remember/hold the input information. The email verification is a onetime procedure, and it is mandatory for the user to continue to the usage of the platform. The user must finish the email verification process either during his/her registration or later during an another session right after his/her log in.
<i>Output Data</i>	The system updates the data of the user in the database by setting the email verification date field and redirects the user to for the profile creation procedure.
Variations	

# 5.1.3 Resend Email Verification

Functionality	Resend Email Verification
Name	
Relative Use	User Registration, User Login
Cases	Paragraphs: 4.1.1, 4.1.2
Actors	PUBLIC
Input Data	<ul> <li>Notification ID</li> <li>Hash (SHA1 of the user email)</li> <li>Expiration date and time</li> </ul>
Description	<ul> <li>The verification link that the EPICommunity platform send the users' email upon his/her registration (described in paragraph 5.1.2) expires after 60 minutes. If the link expires, the user can request a new one, with the rate limited to one verification link per hour.</li> <li>The steps that a user must follow to request a new verification link are:</li> <li>Press the "Resend Verification Link" button</li> <li>As depicted in the Figure 16.</li> </ul>
	After that, she/he must follow the email verification process (paragraph 5.1.2).

Output Data	The system updates the database with the new verification link and its expiration
	date, for the user that has requested it.
Variations	

#### User Login 5.1.4



Email Address	
Password	
Remember me	Forgot Your Passv
Login	Register

#### Figure 17: User Login Screen

EpiCommunity	
Promote yourself and your work Meet with other ECRs Create collaboration groups	Sign Ln         Mere more clicks to sign in to your "pilCommunity account.         Lst@pipcu.com         These credentials do not match our records.         Password         Remember me         Copin         Rejustre         Bredentian         Or got Your Password         Using Meret         Registre         Bredentian         Registre         Bredentian         Strategistre         Registre         Bredentian         Registre         Registre         Bredentians & Brivacy Policy

Figure 18: User Login Screen with errors

Table 26: Functionality – User Login

Functionality	User Login	
Name		
Relative Use	User Login	
Cases	Paragraphs: 4.1.2	
Actors	PUBLIC	
Input Data	• Email	
	• Password	
Description	It is assumed that the actor is a registered user. The user has to fill the form shown	
in the Figure 17, providing the input data described above.		
	Pressing the Login button, the information is sent to the server for validation. If the	
	credentials does not match the EPICommunity records, the border of fields in the	
	login form turn red, indicating error, and the user is notified regarding the invalid	
	information, as shown in Figure 18.	
On the other hand, If the provided information is correct, the platform will		
	the user has verified email. Being verified, means that the user will be	
	automatically redirected to the Dashboard screen or role selection screen (Figure	
	21) (depending if this is the fresh account or not), while not being verified, the	
	platform redirects to the verification process screen (paragraph 5.1.2).	
Output Data	The system updates the data of the user in the database by setting the last login	
,	field to the login datetime.	
Variations	-	

### 5.1.5 Password Reset

55	
<text><text><section-header><text></text></section-header></text></text>	Password Reset   Passe provide your e mail in order to reset your password.   Email     On     On     Login

Figure 19: Request Password Reset Link Screen

Promote yourself and your work   Meet with other ECRs
New Password       What is a secure password?       Promote yourself and your work       Meet with other ECRs

Figure 20: Password Reset Screen

Functionality	Password Reset
Name	
Relative Use	User Login
Cases	Paragraphs: 4.1.2
Actors	PUBLIC
Input Data	• Email
	Password
	Password Confirm
Description	Assuming a user has forgotten the password of his/her account. Using the "Forgot Your Password" option from the Login screen (Figure 17), the user is redirected to the interface as shown in the Figure 19. After filling the email field and pressing the "Send Password Reset Link" button, the EPICommunity platform will check if the email address exists in the records, and if so, will send a mail to that address containing a password reset link. This link redirects the user to the screen Figure 20, where the user must create a new password and provide the password confirm field also. The password field must fulfil all the rules below: At least 1 capital letter At least 1 number Length >= 8
	The email field in this screen is not editable and is prefilled with the address that requested the password reset.
	The password reset link expires after 60 minutes. The user cannot request a password reset link if another one is already active.

<i>Output Data</i>	The system updates the new password of the user in the database and redirects the user to the login page, with the message "Password successfully changed" being displayed.
Variations	

# 5.2 **Profile Functionality**

### 5.2.1 Create

5.2.1.1 Role Selection

EPICommunity	Application > Role Select	٢	
	Select Role Selecting role is mandatory to continue to the EPICommunity platform.		
	CC SUSCRIEE • Search • No Groups • Limited Profile Information With the Subscriber role you can be advanced search mechanisms of the EPiConnunity to find reservers that match your needs.	MEMBER • Search • Groups • Peer Evaluation • Dashboard • Advanced Profile With the Member role you can use the EPRCommunity platform and the capabilities to its extend. From Search, to Groups, Peer to-Peer Evaluations, Interact with the emittees of the community, Send private messages and much more.	
	=		

Figure 21: Role Selection Screen

Functionality	Role Selection		
Name			
Relative Use	User Login, Profile Management (Create)		
Cases	Paragraphs: 4.1.2, 4.3.1		
Actors	MEMBER		
Input Data	User ID		
	• Role		
Description	After the user has created a brand-new account and successfully verified the provided email address, he/she will be prompt to select a role as presented in Figure 21. Refer to paragraph 3.1 for the restrictions and permissions for each role. The interface also informs the user about the rights of each role. The role immutable. If a user wants to use the platform as a different role, he/she has to create a new account with a new email.		

Output Data	The system updates the data of the user in the database by setting the role field depending on the choice and based on that choice redirects the user to profile creation.
Variations	

#### 5.2.1.2 Research Information

EPICommunity	Application > Profile > Research Information			
	Profile Create			
	Research Information	2 Personal Information	3 Courses Publications Projects Positions	Skills
	Research Information		Research Level R1	×
	Profile Descriptors           LMS         ×	~	Alliance	
	Import from Europass Octional: If you have a Europass profile, you can use it to import your informatio	in regarding the steps 2, 3, 4.	ORCID Qelional: If you have ORCID, please feel free to fill the field below.	
		Change Role	Next	

Figure 22: Profile Create – Research Information Screen

Table 29: Functionality – Profile Creation / Research Information

Functionality	Research Information
Relative Use	Profile Management (Create)
Actors	MFMBFR
Input Data	<ul> <li>Institution / Organisation</li> <li>Research level (R1-R4, as agreed by the EPICUR consortium)</li> <li>Profile descriptors (in form of tags)</li> <li>Alliance (optional)</li> <li>ORCID (optional)</li> <li>Europass Profile Link (optional)</li> </ul>
Description	If the user selects the Member role (as described in paragraph 5.2.1.1), he/she will be prompt to complete a four-step form providing additional and extended information in order to create his research profile in the EPICommunity. The first step regards the users' research information as shown in the Figure 22. Refer to the above row regarding the input data. The Europass Profile Link, could be quite useful, in case the user already has a Europass profile. By filling this field, EPICommunity platform will pull the profile information and automatically update the information of the next steps. The user will still be able to update/edit the fetched Europass information.
Output Data	The system updates the corresponding fields of the user in the database and unlocks the next step in the form.

Variations	-

### 5.2.1.3 Personal Information

EPICommunity	Application > Profile > Personal Information				9
	Profile Create				
	1 Research Information	2 Personal Information		3 Courses Publications Projects Positions	4 Skills
	Personal Information Date of Birth		Nationalities Greek ×		
	Phone	Personal Site		email 2	
	Address Full address Ø Address	Country Country	City D City	Postal Code	Change Photo
		Previous	Next		

Figure 23: Profile Create – Personal Information Screen

Functionality	Personal Information
Name	
Relative Use	Profile Management (Create)
Cases	Paragraphs: 4.3.1
Actors	MEMBER
Input Data	• Date of birth
	Nationality
	Phone (optional)
	Personal Site (optional)
	• Email 2 (optional)
	Address (all address fields are optional)
	Profile photo (optional)
Description	The second step regards the users' research information as shown in the Figure 23.
	Refer to the above row regarding the input data. Will most of the fields in this step
	are optional, by filling them, could help other users reach out to you more easily
	and increase your profile completion score.
	The information in this step could be completely imported from a Europass profile,
	by setting the Europass Profile Link field in the previous step.
Output Data	The system updates the corresponding fields of the user in the database and
	unlocks the next step in the form.
Variations	-

### Table 30: Functionality – Profile Creation / Personal Information

### 5.2.1.4 Courses, Publications, Positions, Projects

EPICommunity	Application > Profile > Entities			
	Profile Create			
	Research	Personal Information	Courses Publications Projects Positions	4 Skills
	Courses			Add New Course
	Course 0 : Course title 0 Course description 0 LMS × Drupol × ×	Course 1 : Course title 1 Course description 1 LMS × Drupal × ×		
	Publications			Add New Publication
	Publication 0	Publication 1	Publication 2	Publication 3
	Publication title 0 Publication description 0	Publication title 1 Publication description 1	Publication title 2 Publication description 2	Publication title 3 Publication description 3
	LMS × Drupal × V	LMS * Drupal *	LMS × Drupal × ×	LMS × Drupal × ·

Figure 24: Profile Create – Courses Publications, Projects, Positions Screen

EPICommunity	Application > Profile Creese					_		۲
	Profile Create		Project Title		Created By			
		Title			🕅 User name 🗸 🗸			
			Project Description		Post Date			
		Description			18 May, 2022			
	h				Tags			
					LMS × Drupal × ∨			
			Project Link		On-going Create Project Group			
		URL			Group Name			
	Courses	From	Тс	0	Group name			Add New Course +
	Course 0	18 May, 2022	18 May, 2022					
			Project Logo					
	Course description 0	Dipload a file or drag and	d drop					
	LMS × Drupal ×							
			Cancel	Create				
	Publications						1	Add New Publication
	Publication 0	; Publi	ication 1		Publication 2		Publication 3	
	Publication title 0	Publ	lication title 1		Publication title 2		Publication title 3	
	LMS × Drupal ×	× U	t5 * Drupal *		LMS * Drupal *		LMS * Drupal ×	×
	Projects							Add New Project +

Figure 25: Profile Create – Create Project Modal Screen

EPICommunity	Application > Profile > Entities			
	Profile Create			
	Research	2 Personal Information	Courses Publications Projects Positions	4 Skills
	Courses			Add New Course
	Course 0 : Course title 0 Delete Course Course description 0 Delete Course LMS × Drupal × V	Course 1 ; Course title 1 Course description 1 LMS × Drupal × ✓		
	Publications			Add New Publication
	Publication 0 i	Publication 1	Publication 2	Publication 3
	Publication title 0 Publication description 0 LMS × Drupal × ✓	Publication title 1 Publication description 1 LMS × Drupal ×	Publication title 2 Publication description 2 LMS × Drupal × ✓	Publication title 3 Publication description 3 LMS × Drupal ×

Figure 26: Profile Create – Courses, Publications, Positions, Projects Edit/Delete Options Screen

Functionality	Courses Publications Projects
Name	
Relative Use	Profile Management (Create)
Cases	Paragraphs: 4.3.1
Actors	MEMBER
Input Data	Courses fields
	• Title
	Description
	Host Institution
	• ECTS
	Course Format
	Language of instruction
	• Target Group
	• Cost
	Contact person
	• Contact email
	Learning Outcomes
	• From (date)
	• To (date)
	• Link (optional)
	• Logo (optional)
	• Tags
	• On-going
	• Co-Teacher(s)
	Publications fields
	• Title
	Description

Table 31: Functionality – Profile Creation / Courses Publications Projects

Output Data	The system updates the corresponding fields of the user in the database and
	unlocks the next step in the form.
Variations	-

### 5.2.1.5 Skills

EPICommunity	Application > Profile > Skills			9
	Profile Create			
	1 Research Information	2 Personal Information	Courses Publications Projects Positions	Skills
	Language Skills First Language English   *	~	Dher Languages German ×	×
	Digital Skills Microsoft Office ×			~
	Communication/Interpersonal Skills			~
	Managment/Leadership Skills			~
		Previous	Finish	

Figure 27: Profile Create – Skills Screen

Functionality	Skills
Name	
Relative Use	Profile Management (Create)
Cases	Paragraphs: 4.3.1
Actors	MEMBER
Input Data	<ul> <li>First Language</li> <li>Other Languages</li> <li>Digital Skills</li> <li>Communication/Interpersonal Skills</li> <li>Management/Leadership skills</li> </ul>
Description	The final step regards the users' skills. Refer to the previous row for the input data. The Figure 27 depicts the user interface of the fourth step. Every field in this step is a dropdown menu with options. The Mother Tongue field is single select while the rest are multi select. If a skill is not in the dropdown options, the user can type the skill and create a new option on the spot. Skills are also importable from Europass. Pressing "Finish" the profile creation process completes.
Output Data	The system updates the corresponding fields and creates a new profile in the database, associates the user's account with that profile, unlocks the Dashboard view for the user, as well as the side menu options.
Variations	-

Table 32:	Functionality -	Profile	Creation ,	/ Skills
-----------	-----------------	---------	------------	----------

# 5.2.2 Read

## 5.2.2.1 General Information

EPICommunity	Application > Profile > General Information		Search. Q 🧔 🧔
Dashboard	General Profile Information		
Profile	User Name	A Friends 1	9
$\int$ Recommendations $\sim$	T T RI		Publication #5: Gamification Publication Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum
Chat	$\Lambda_{\!$	Assessments 2	has been the industry's standard dummy text ever. Lorem (psum is simply dummy text of the printing and typesetting industry since the
Q Search ~	Courses     Projects	Profile Score 210	1500s. 10 01 June 2021 View Publication
	Publications     m Positions		
	i E Skills	Top Categories	Profile Completion The profile completion indicates
	A, Groups ⊘ Badges	Image: Constraint of the second s	100%
	(2) Friends List	LMS Your impact score in LMS category 7%	- 🕅 Badges 2
	Export Protile	Java Toor in JAVA category 15% Bootstrap Your impact score in Bootstrap category 40%	Given Assessments 6
		Latest Assessments	Profile Score Progress Export 🗸
		User Name 20/4/20	Profile Score over time     Filter by Month      ·
		User Name 21/4/20	1.200
		User Name 22/4/20	22 800- 605- 200- Jan Feb Mar Apr May Jan Jal Aug See Oct Nev Dec

Figure 28: Profile Read / General Information Screen

, Functionality – Profile Creation	/ General Information
------------------------------------	-----------------------

Functionality	General Information
Name	
Relative Use	Profile Management (Read)
Cases	Paragraphs: 4.3.1
Actors	MEMBER
Input Data	
Description	<ul> <li>This is the landing page when vising a profile or a user. The information that someone can view on this page is:</li> <li>Number of friends</li> <li>Number of Assessments given by the user that owns the profile</li> <li>Number of Assessments given to that profile by the community members</li> <li>Profile Score</li> <li>Top Categories</li> <li>Profile Completion</li> <li>Number of Badges</li> <li>A table with information regarding the last 3 assessments given by the user that owns the profile</li> </ul>

	Profile score progression chart
	<ul> <li>Last 5 entities instances that the user has added</li> </ul>
	The Profile Score is the score of the profile based on the peer assessment
	functionality provided by the EPICommunity (paragraph 5.4.5). Based on the
	EPIQAssess, the formula for calculating the score is the following:
	$R_x$ = the relevance number (based on the research level)
	a = number of assessments
	<i>c = number of core criteria, An the n<sup>th</sup> core criteria</i>
	$s = number of specific criteria, B_n the nth specific criteria$
	p = number of personal qualities criteria, Cn the n <sup>th</sup> personal criteria
	a da
	$\sum_{i=1}^{c} \left( A_{n,i} * R_x \right)$
	$\sum_{n=1} \left( \frac{1}{number of A_n ratings} \right)$
	Core Score =
	$\sum^{a} (B \rightarrow P)$
	$\sum_{i=1}^{s} \left( \frac{\sum_{i=1}^{i} (D_{n,i} + K_{x})}{\sum_{i=1}^{s} (D_{n,i} + K_{x})} \right)$
	Specific Score = $\frac{2 n = 1 \text{ number of } B_n ratings}{2 n = 1 \text{ number of } B_n ratings}$
	non zero B <sub>n</sub>
	$\sum_{i=1}^{p} \left( \sum_{i=1}^{\infty} (C_{n,i} * R_x) \right)$
	$Pore on al Score = \sum_{n=1}^{n} (\overline{number of C_n ratings})$
	$non zero C_n$
	Finally, the profile score is:
	$Profile Score = w_c^* Core Score + w_s^* Specific Score + w_p^*$
	Personal Score
	The final values of the weights $w_c$ , $w_s$ , $w_p$ will be decided after the platform
	testing. If:
	$W_{c} + W_{s} + W_{p} > 1$
	then the Profile Score will be divided with the sum of these weights.
	The Top Categories is a list that shows the most popular tags of the profile. Also,
	users can see the impact score that the profile has on each tag. The impact score is
	a weighted sum and it is calculated with the formula.
	#endorses = the aggregation of endorsements for all the instances in the profile
	that contain the particular tag
	#comments = the aggregation of comments for all the instances in the profile that
	contain the particular tag
	#views = the aggregation of views for all the instances in the profile that contain
	the narticular tag
	$Impact Score = w_* # endorses + w_* # comments + w_* # wiews$
	The final values of the weights $w_1$ , $w_2$ , $w_3$ , $w_4$ will be decided after the platform
	tocting If.
	$W_1 + W_2 + W_3 > 1$
	The Profile Completion is an indicate that shows if the wave because ideal. Use
	The Prome Completion is an indicator that snows if the user has provided all the
	required information to the platform and also has added at least 1 instance in each
Output Data	enuty of the EPICommunity.
Unipul Data	
variations	-

#### 5.2.2.2 Courses

EPICommunity	Application > Profile > Courses			SearchQ 🗳 🧕
Dashboard	Profile			
♀ Profile ✓ Recommendations ~	User Name	Courses Creato Course		SearchQ
Chat	A <sub>2</sub> General Information	John Doe Posted at - 5/5/2022	John Doe Posted at - 5/5/2022	John Doe Posted at - 5/5/2022
Q Search ~	D Courses	1	-	~
O) Groups	Projects			22
	Publications			
	Positions			
	i≣ Skills			
	2, Groups			
	Ø Badges	Course title 0	Course title 1	Course title 2
	<ul> <li>Friends List</li> </ul>	#Tag 0 #Tag 1 #Tag 2	#Tag 0 #Tag 1 #Tag 2	#Tag 0 #Tag 1 #Tag 2
	Export Profile	3	< 🕖	3 0
		Comments: 123 Views: 5k Endorsements: 1k	Comments: 123 Views: 5k Endorsements: 1k	Comments: 123 Views: 5k Endorsements: 1k
		Post a comment	Post a comment	Post a comment ©

Figure 29: Profile Read / Courses Screen

Functionality Name	Courses
Relative Use Cases	Profile Management (Read) / Management of Courses, Publications, Positions and Projects (Courses) Paragraphs: 4.3.1, 4.4.1
Actors	MEMBER
Input Data	-
Description	<ul> <li>The screen Figure 29 depicts the list of the users' courses. Each course is displayed as a "card" view, with the following information:</li> <li>Title</li> <li>Description</li> <li>Date posted on EPICommunity platform</li> <li>Tags</li> <li>Number of comments</li> <li>Number of views</li> <li>Number of endorsements</li> </ul>
	The user can use the share icon button to copy a link for that course, and the endorse button next to it, to endorse the specific course. The option of posting a new comment in a specific course is also provided as shown in the interface, at the bottom of each course view. The "Search" field in the top right corner of the interface can be used to filter the courses list. The field searches based on course title only.
<i>Output Data</i>	In case the user decides to post a comment, the server creates a new comment entry in the database, associates the comment with the course and the user is alerted for the result. More regarding comments on entities in paragraph 5.3.6.
Variations	-

### Table 34: Functionality – Profile Read / Courses

#### 5.2.2.3 Projects

EPICommunity	Application > Profile > Projects			Search
Dashboard	Profile			
Profile  ↓ Recommendations ↓	User Name	Projects		Search 0
Chat	<ul> <li>✓ General Information</li> <li>□ Courses</li> </ul>	John Doe Postel at - 5/5/2022 :	John Doe Posted at - 5/5/2022	John Doe Posted at - 3/5/2022
A Groups	Projects  Publications  Skills  R, Groups  Gadges	PROJECT Project title 0	PROJECT Project tile 1	PROJECT Project tille 2
	Friends List  Export Profile  Delete Account	Project description 0 #Tag 0 #Tag 1 #Tag 2 Members:	Project description 1 #Tag 0 #Tag 1 #Tag 2 Members:	Project description 2 #Tag 0 #Tag 1 #Tag 2 Members:
		Comments: 123 Views: Sk Endorsements: 1k Post a comment	Comments: 123 Views: Sk Endorsements: 1k Post a comment	Comments: 123 Views 5k Endorsements: 1k

### Figure 30: Profile Read / Projects Screen

Functionality	Projects
Name	
Relative Use	Profile Management (Read) / Management of Courses, Publications, Positions and
Cases	Projects (Projects)
	Paragraphs: 4.3.1, 4.4.1
Actors	MEMBER
Input Data	-
Description	<ul> <li>The screen Figure 30 depicts the list of the users' projects. Each project is displayed as a "card" view, with the following information:</li> <li>Title</li> <li>Description</li> <li>Date posted on EPICommunity platform</li> <li>Tags</li> <li>Members</li> <li>Number of comments</li> <li>Number of views</li> <li>Number of endorsements</li> </ul>
	The Members information is only available if the project has a group attached to it. The Members show the group members in order descending order based on the member role and how long the user has been a member of that group project. The user can use the share icon button to copy a link for that project, and the endorse button next to it, to endorse the specific project. The option of posting a new comment in a specific project is also provided as shown in the interface, at the bottom of each course view. The "Search" field in the top right corner of the interface can be used to filter the projects list. The field searches based on project title only.

### Table 35: Functionality – Profile Read / Projects

Output Data	In case the user decides to post a comment, the server creates a new comment entry
	in the database, associates the comment with the project and the user is alerted for
	the result. More regarding comments on entities in paragraph 5.3.6.
Variations	-

### 5.2.2.4 Publications

EPICommunity	Application > Profile > Publications			Search Q 🧔 🧔
Dashboard	Profile			
Profile	User Name	Publications		
$\label{eq:recommendations}$ $\label{eq:recommendations}$	4 4 KI	Create Publications		SearchQ
Chat	$\Lambda_{\!$	Contraction in the last	Contra Data	O John Dan
Q Search ~	D Courses	Posted at - 5/5/2022	Posted at + 5/5/2022	Posted at - 5/5/2022
O) Groups	Projects			
	Publications			
	D Positions			
	j≘ Skills			
	왔, Groups			
	© Badges	Publication title 0	Publication title 1	Publication title 2
	E Friends List	Publication description 0	Publication description 1	Publication description 2
	Export Profile	< 0	< <b>3</b>	< 3
		Comments: 123 Views: 5k Endorsements: 1k	Comments: 123 Views: 5k Endorsements: 1k	Comments: 123 Views: 5k Endorsements: 1k
		Post a comment	Post a comment	Post a comment.

Figure 31: Profile Read / Publications Screen

Functionality	Publications
Name	
Relative Use Cases	Profile Management (Read) / Management of Courses, Publications, Positions and Projects (Publications)
Actors	MEMBER
Input Data	-
Description	<ul> <li>The screen Figure 31 depicts the list of the users' publications. Each publication is displayed as a "card" view, with the following information:</li> <li>Title</li> <li>Description</li> <li>Date posted on EPICommunity platform</li> <li>Tags</li> <li>Number of comments</li> <li>Number of views</li> <li>Number of endorsements</li> </ul>
	The user can use the share icon button to copy a link for that publication, and the endorse button next to it, to endorse the specific publication. The option of posting a new comment in a specific publication is also provided as shown in the interface, at the bottom of each publication view.

Table 36:	Functionality –	Profile	Read /	Publications

	The "Search" field in the top right corner of the interface can be used to filter the publications list. The field searches based on publication title only.
<i>Output Data</i>	In case the user decides to post a comment, the server creates a new comment entry in the database, associates the comment with the specific publication and the user is alerted for the result. More regarding comments on entities in paragraph 5.3.6.
Variations	-

#### 5.2.2.5 Positions

EPICommunity	Application > Profile > Positions			Search	Q # 의
Dashboard	Profile				
Profile ↓ Recommendations ~	User Name	Positions Create Position		Searc	h Q
니 Chat Q Search ~ 옷 Groups	<ul> <li>A<sub>2</sub> General Information</li> <li>Courses</li> <li>Projects</li> <li>Publications</li> <li>It Positions</li> <li>E Skills</li> <li>R, Groups</li> <li>Badges</li> <li>Prineds List</li> </ul>	John Doe Prested al - VFU 2022 Position title 0 Position title 0 Prestion description 0 Press 4 Trag 2 Trag 2	Solution Dee Protect al + SFUCCE2	John Doe Prested at - 6/3/2022 Position title 2 Position title 2 Prostion description 2	76 <b>8</b>
	Export Profile 🕥 Delete Account	Comments: 123 Views: Sk Endorsements: 1k Post a comment.	Comments: 123 Views: Sk Endorsements: 1k	Comments: 123 Views: Sk	Contraction Contra

Figure 32: Profile Read / Positions Screen

Functionality	Positions
Name	
Relative Use	Profile Management (Read) / Management of Courses, Publications, Positions and
Cases	Projects (Positions)
	Paragraphs: 4.3.1, 4.4.1
Actors	MEMBER
Input Data	-
Description	The screen Figure 32 depicts the list of the users' job positions. Each position is
	displayed as a "card" view, with the following information:
	• Title
	Description
	Date posted on EPICommunity platform
	• Tags
	Number of comments
	Number of views
	Number of endorsements
	The user can use the share icon button to copy a link for that position, and the endorse button next to it, to endorse the specific position.

	The option of posting a new comment in a specific position is also provided as shown in the interface, at the bottom of each position view.
	nositions list. The field searches based on position title only
Output Data	In case the user decides to post a comment, the server creates a new comment entry
	in the database, associates the comment with the specific position and the user is
	alerted for the result. More regarding comments on entities in paragraph 5.3.6.
Variations	-

#### 5.2.2.6 Skills

EPICommunity	Application > Profile > Skills				iearch Q 4 Q
Dashboard	Profile				
Profile ↓ Recommendations ~	User Name	Skills			Edit Skills
Chat Q Search ~ On Groups	↓ General Information  Courses  Pojecta  Publications  Displaysitions  Courses  Courses Courses  Courses  Courses  Courses  Courses  Courses  Courses  Courses Courses  Courses  Courses  Courses  Courses  Courses  Courses  Cour	Communication/Interpersonal Skills Communication/Interpersonal skills description	Corganizational Skills Organizational skills Gescription	Digital Skills Digital skills	ŻA Language Skilis Language skilis description
	Ri, Groups G Badges D Friends List Coport Profile	Communication skill 1 Interpersonal skill 2 Interpersonal skill 3 Communication skill 4	Organizational skill 1 Organizational skill 2 Organizational skill 3 Organizational skill 4	Digital skill 1 Digital skill 2 Digital skill 3 Digital skill 4	Language skill 1 Language skill 2 Language skill 3 Language skill 4

Figure 33: Profile Read / Skills Screen

Functionality Name	Skills			
Relative Use	Profile Management			
Cases	Paragraphs: 4.3.1			
Actors	MEMBER			
Input Data	<ul><li>Skill category</li><li>Skill</li></ul>			
Description	<ul> <li>The screen Figure 33 depicts the list of the users' skills that he/she has provided during the profile creation. The skills are divided into the following categories:</li> <li>Digital skills</li> <li>Communication/Interpersonal skills</li> <li>Organisational skills</li> <li>Language skills</li> </ul>			
	If the user owns the profile, the button "Edit Skills" is visible. Pressing that button, allows the user to add new skills or remove existing.			

Table 38:	Functionalit	y – Profile	Read / Skills
-----------	--------------	-------------	---------------

Output Data	If the user decides to add a new skill, the system takes the category and the newly added skill, stores into the database the data and redirects the user back to screen
	with the list of the skills (Figure 33).
	If the user decides to discard a skill, the system removes the skill entry from the
	database and redirects the user back to screen with the list of the skills (Figure 33).
Variations	-

### 5.2.2.7 Groups

EPICommunity	Application > Profile > Groups				Search	Q # 9
Dashboard	My Groups					
Profile	User Name	Groups				
$\label{eq:recommendations}$ $\sim$		Moderators	Group Name	Members	Туре	Actions
Chat v	<ul> <li>✓ General Information</li> <li>☑ Courses</li> </ul>		Group1 group1 description	6	Closed	🕑 Edit 🍵 Leave
Or Groups	Projects Publications		Group2 group2 description	9	Closed	D Leave
	∰ Positions ⊞ Skills		Group3 group3 description	12	🕑 Open	
	옷, Groups		Group4 group4 description	15	🕑 Open	D Leave
	⊘ Badges È Friends List		Group5 group5 description	18	🕑 Open	🗇 Leave
	Export Profile	« « 1	2 3 > »			5. ~

Figure 34: Profile Read / Groups Screen

Table 39:	Functionality -	- Profile	Read /	Groups

Functionality Name	Groups
Relative Use	Group Management (Read)
Cases	Paragraphs: 4.5.1
Actors	MEMBER
Input Data	-
Description	<ul> <li>The screen Figure 34 depicts the list of the users' groups that he/she is member of, in a table form. Each entry of the table represents an enrolled group, with the following information:</li> <li>Title</li> <li>Description</li> <li>Moderators</li> <li>Tags</li> <li>Number of members</li> <li>Type of group (closed, open)</li> <li>A list of actions</li> <li>The actions list contains the "Leave" option, and in case if the user has the moderator role of the group the "Edit" action is also displayed for that particular group, as indicated in the user interface.</li> </ul>

Output Data	-
Variations	-

#### 5.2.2.8 Badges

Lericonninunity	Application > Profile > Badges		Search Q	9
C Deshboard Profile ↓ Profile ↓ Recommendations ↓ ↓ Chat ↓ Search ↓ ↔ ↔ ↔ Groups	Application > Profile > Badges  My Badges  Acceleration  A	<b>Der reviewer</b> Bauer: 12/5/2022 Abdge given ba use for da gue number of assessments dore by heru/her	Geerch. Q 4	
	Export Profile			

Figure 35: Profile Read / Badges Screen

Functionality	Badges
Name	
Relative Use	Badges Use Case (Read)
Cases	Paragraphs: 4.6
Actors	MEMBER
Input Data	-
Description	<ul> <li>The screen Figure 35 depicts the list of the users' acquired badges. Each badge is shown in a card view. Each card contains the following information:</li> <li>Icon</li> <li>Title</li> <li>Date Issued</li> <li>Description</li> </ul>
Output Data	-
Variations	-

### 5.2.2.9 Friends List

EPICommunity	Application > Profile > Friends					Search	a) I	• 😐
Dashboard	My Friends							
A Profile	User Name	Firends List						
$\checkmark$ Recommendations ~	T T KI	Find new Friends +					Search	Q
Chat	A₂ General Information							
Q Search ~	Courses	User Name 2 R1			User Name 3 R2			
O Groups	Projects     Publications	Profile Completion	20%	Message Profile	Profile Completion	20%	Message	Profile
	D Positions							
	i Skills	User Name 4			User Name 5			
	Ø Badges							
	🗈 Friends List	Profile Completion	20%	Message Profile	Profile Completion	20%	Message	Profile
	Export Profile	10 🗸						

Figure 36: Profile Read / Friends List Screen

Functionality	Friends List
Name	
Relative Use	Profile Management (Read)
Cases	Paragraphs: 4.3.1
Actors	MEMBER
Input Data	-
Description	<ul> <li>The screen Figure 36 depicts the list of the users' contacts. Each contact is shown in a card view. Each card contains the following information:</li> <li>First and Last name</li> <li>Research Level</li> <li>Profile Completion</li> <li>Message button</li> <li>Profile button</li> <li>Using the "Profile" button the user can visit the profile of a contact.</li> <li>Using the "Message" button the user opens the history of the messages with a contact.</li> <li>The "Search" field in the top right corner of the interface can be used to filter the</li> </ul>
	user list. The field searches based on first and last name only.
Output Data	-
Variations	-

### 5.2.2.10 Contact Request

EPICommunity	Application > Profile	> Friends
Dashboard	My Friends	
O Profile	User Nar	me
$\checkmark$ Recommendations $\sim$	R1	Extra Options
Chat	-∿ General Informa	Profile Update
Q Search ~	D Courses	음+ Contact Requests 3
Groups	<ul> <li>Projects</li> <li>Publications</li> <li>Positions</li> <li>Skills</li> <li>Groups</li> <li>Badges</li> <li>★ Friends List</li> </ul>	Sync
	Export Profile	间 Delete Account

Figure 37: Profile Read / Extra Options menu Screen

EPICommunity	Application > Profile > Friend Requests		Search	0 4 🙆
Dashboard	Contact Requests			
Profile	User Name	Requests List		
↓ Recommendations →	√r General Information	User Name 7 n1 User Name 8 R2		
Q Search ~	따 Courses 한 Projects	Public Completion 20% Accept Decline Public Completion	20%	Accept Decline
CI COMP	Publications  Positions	User Name 9 P3		
	i≡ Souis &, Groups ⊘ Badges	Polle Completion 20% Accept Decline		
	(王) Friends List	10 👻		
	Export Profile			

Figure 38: Profile Read / Contact Requests Screen

Table 42: Functionality – Profile Read /Contact Request
---

Functionality	Contact Request
Name	
Relative Use	Profile Management (Read)
Cases	Paragraphs: 4.3.1
Actors	MEMBER
Input Data	• User ID (the current user)
	• User ID (the user that send the request)
	Accept/Decline
Description	Across the users' name there are three dots. Those dots, when clicked show a menu,
	Extra Options. The screen Figure 37 depicts the user interface. The user can choose
	the option Contact Requests, to view the incoming requests. The screen Figure 38,
	displays the list view of the requests. The user can accept or decline a request from
	another EPICommunity member, by pressing the respective buttons.
Output Data	If a contact request gets accepted, the system creates a new entry in the database,
	that links the user (with user ID) with the other user (user ID, sender) and unlocked
	the option of messaging between the two.
Variations	-

### 5.2.3 Update

5.2.3.1 Research and Personal Information

EPICommunity	Application > Profile Update	Search	Q 4 🙆
Dashboard			User Name R1 Researcher
Profile			옷 Profile
↓ Recommendations  √			Update Profile
Chat			Co Logout
Q Search			
O) Groups			

Figure 39: Profile Dropdown Options

EPICommunity	Application > Profile					Search	a) 🧳 🦲
Dashboard	Update Profile						
A Profile	User Name	Research Information					
$\checkmark$ Recommendations $\sim$		Institution/Organization		Research Level			
Chat	Ar General Information			R1			·
Q Search	D Courses	Profile Descriptors		Alliance			
O) Groupe	Projects	LMS × Drupal ×	~				
	Publications	Europass Profile Link					1 1
	i≣ Skills	Eurpass Profile Link					Change Photo
	2, Groups	Save					
	Friends List	_					
		Personal Information					
	Export Profile						
		Date of Birth			Nationalities		
		18 May, 2022			Greek ×		~
		Phone	Personal Site	e		Email 2	
		8	C			0	
		Address					
		Full address	Country		City	Pos	stal Code
		Address	Country		City	6	Postal Code
		Save					

Figure 40: Profile Update Screen

Functionality	Profile Update Research and Personal Information				
Name					
Relative Use	Profile Management (Update)				
Cases	Paragraphs: 4.3.1				
Actors	MEMBER				
Input Data	Institution / Organisation				
	• Research level (R1-R4, as agreed by the EPICUR consortium)				
	Profile descriptors				
	Alliance				
	Europass Profile Link (optional)				
	• Date of birth				
	Nationality				
	Phone				
	Personal Site				
	Email 2				
	Address (all address fields are optional)				
	Profile photo				

### Table 43: Functionality – Profile Update Research and Personal Information

Description	The user can update the information that he/she provided during the profile
	creation procedure. In order to view the profile update interface, the user has to
	select the "Update Profile" option in the dropdown menu which appears by clicking
	in the rounded profile image on the top right corner as shown in the Figure 39. The
	Figure 40 shows the user interface for in the update functionality. The user can edit
	the info he/she provided in the first and second step in the profile creation
	multistep form (paragraphs : 5.2.1.2, 5.2.1.3).
Output Data	The system updates the corresponding fields and creates a new profile in the database, associates the user's account with that profile, unlocks the Dashboard
	view for the user, as well as the side menu options.
Variations	-

## 5.2.4 Delete

EPICommunity				_		Search	a 🖉 🧕
	My Friends	(	3				
Profile      Recommendations ~	User Name	Fin Are you Do you really want to This estimates	J SURE? delete your account?				
	Ar General Information	Cancel	Delete				
	Courses			-	User Name 3 R2		
	Projects  Publications	Profile Completion :	20% <b>M</b> C	essage Profile	Profile Completion		Message Profile
	⊞ Skills ्रथ, Groups ⊘ Badges	User Name 4 R3			User Name 5 R4		
	(i) Friends List	Profile Completion :	20% Me	essage Profile	Profile Completion		Message Profile
	Export Profile						

Figure 41: Profile Delete Screen

Functionality	Profile Delete
Name	
Relative Use	Profile Management (Create)
Cases	Paragraphs: 4.3.1
Actors	MEMBER
Input Data	-
Description	The user can opt to delete his account using the "Delete Account" option in the profile (Figure 28). A popup window with a confirmation message is displayed as shown in the Figure 41. Selecting the "Delete" option in the modal the account with all its information are purged from the EPICommunity platform.
Output Data	The system deletes all the user data, entities information and interactions associated with the user profile, from the database and redirects. Finally the user is redirected to the Landing Page
Variations	-

### Table 44: Functionality – Profile Delete

5.2.5 Export

EPICommunity		_					Search_	0 1 8
Dashboard	My Friends			Z				
Profile	User Name R1	JSON ×	Please sele	ect the outpu	t format	~		
	<ul> <li>✓ General Information</li> <li>□ Courses</li> </ul>		( C	ancel Delete		Name 3		
	Projects     Publications     E Skills		Prufile Completion		Message Profile	Profile Completion		Meisage Profile
	段, Groups ② Badges		User Name 4			User Name S		
	Export Profile	10 Delete Account	Prufile Completion		Message Profile	Profile Completion		Message Profile

Figure 42: Profile Export Screen

Functionality	Profile Export
Name	
Relative Use	Profile Export
Cases	Paragraphs: 4.3.3
Actors	MEMBER
Input Data	-
Description	<ul> <li>The user can export his profile information from the EPICommunity using the "Export Profile" option as shown in the Figure 28. Pressing that button a modal window is displayed. The modal contains a form field, which allows the user to select the format of the output file. The options are:</li> <li>XML</li> <li>JSON</li> </ul>
	The screen Figure 42 in the shows the modal interface. The export option is given to user in case he/she wants to import his/her profile information in another platform (eg Europass) that supports the same profile schema and definition.
<i>Output Data</i>	The system generates a file based on the selected format containing the profile data of the user as well as the entities information associated with that profile. The result file gets downloaded by the user browser after the file generation is done.
Variations	-

### Table 45: Functionality – Profile Export

#### 5.2.6 Sync

### Table 46: Functionality – Profile Sync

Functionality	Profile Sync
Name	

Relative Use	Profile Management (Update)
Cases	Paragraphs: 4.3.1
Actors	MEMBER
Input Data	Europass profile
Description	In case the user has provided a Europass Profile Link, he/she can use the "Sync" option to sync the profile data of the EPICommunity platform with the Europass. This option is available for the user to maintain one profile among the two platforms. In other words, for example the user can add a new publication in his/her Europass profile and use the sync option to import this new publication instance into the EPICommunity profile. The sync option is available in a dropdown menu that is visible when the user clicks the three dots across his name, as shown in the Figure 37.
<i>Output Data</i>	The system after parsing the Europass profile in the background, tracks the changes, and if there are any updates the user profile in the database according to the differences found. Finally, a notification is sent back to the user containing the new additions.
Variations	-

# 5.3 Entities Functionality

### 5.3.1 Create

#### 5.3.1.1 Course

EPICommunity	Application > Course > Create				Search Q 4 Q
Dashboard	Create New Course		Create		
O Profile	Course Title				Offered By
	Title				John Doe
Chat	Course Description		Learning Outcomes		Post Date
O Search Y	Description		Outcomes		15 Jun; 2022
03 00000					Tags
Groups					LMS × Drupal ×
	Institution	ECTS		Course Format	Co-Teacher
	AUTh	✓ ECTS		E-learning/online	✓ Co-Teacher
	Target Group	Cost		Language of Instruction	If more than one Co-Teachers, separate with comma.
	R1	✓ Cost €		Language	On-going
	Course Link	Contact Pers	son	Contact Email	C
	URL.	Name		Email	
	From To				
	15 Jun, 2022				
	Course Logo				
	Discussion of the second secon				

Figure 43: Course Create Screen

Table 47: Functionality – Course Create

Functionality	Course Create
Name	
Relative Use	Management of Course, Publications, Positions and Projects
Cases	Paragraphs: 4.4.1
Actors	MEMBER
Input Data	
	Description
	ECIS     Course Format
	<ul> <li>Language of instruction</li> </ul>
	Target Group
	Cost
	Contact person
	Contact email
	Learning Outcomes
	• From (date)
	• To (date)
	• Link (optional)
	• Logo (optional)
	• Tags
	• On-going
	• Co-Teacher(s)
Description	The user can use the "Create Course" button as shown in the screen Figure 29, in order to view the creation form of a new course. The form is shown in the screen Figure 43. The input data can be reviewed in the above row. The user interface also shows the fields "Offered By" and "Post Date". Those two fields are not editable, with the corresponding values being the first/last name of the user and the current date. The creation form is validated with the rules: • All the non-optional fields must have a value • The title must be at least 3 letters • The description must be at least 8 characters long • The To field cannot be chronologically before the From field • At least one tag • The logo must one of the following extensions [.jpg, .png, .jpeg] • The link field must a valid URL • Email fields myst be valid email addresses • Cost and ECTS fields must be numbers The On-going field disabled the "To" date field and sets its value to "Present". If the user does not select a logo for the new course, EPICommunity will assign the
	default course logo. If an error is occurred, the invalid field/s get a red border and the error message is displayed below each field/s.
Output Data	The system in case of a valid input data, creates a new course instance in the
	database with the values, associates that course with the user and finally redirects
	the user back to the page with his/her courses (Figure 29). In case of invalid, the
	errors are being returned and shown as alerts.
Variations	-

### 5.3.1.2 Publication

EPICommunity	Application > Publication > Create	Search Q
Dashboard	Create New Publication	
Profile	Publication Title	Written By
🔎 Recommendations 🗸	Title	John Doe
Chat	Publication Description	Post Date
) Search	Description	15 Jun, 2022
		Tags
Groups		LMS × Drupal ×
	Published Year	Co-Author(s)
	Year	Co-Author
	Publication Link	Published
	URL	
	Publication Logo	
	2 Upload a file or drag and drop	

Figure 44: Publication Create Screen

Functionality	Publication Create		
Relative Use Cases	Management of Course, Publications, Positions and Projects Paragraphs: 4.4.1		
Actors	MEMBER		
Input Data	<ul> <li>Title</li> <li>Description</li> <li>Co-authors</li> <li>Link (optional)</li> <li>Logo (optional)</li> <li>Year</li> <li>Tags</li> <li>Co-Authors</li> <li>Published</li> </ul>		
Description	<ul> <li>The user can use the "Create Publication" button as shown in the screen Figure 31, in order to view the creation form of a new publication. The form is shown in the screen Figure 44. The input data can be reviewed in the above row. The user interface also shows the fields "Written By" and "Post Date". Those two fields are not editable, with the corresponding values being the first/last name of the user and the current date. The creation form is validated with the rules:</li> <li>All the non-optional fields must have a value</li> <li>The title must be at least 3 letters</li> <li>The description must be at least 8 characters long</li> <li>At least one tag</li> <li>The chosen logo file must one of the following extensions [.jpg, .png, .jpeg]</li> <li>The link field must a valid URL</li> </ul>		

### Table 48: Functionality – Publication Create

	If the user does not select a logo for the new publication, EPICommunity will assi	
	the default publication logo.	
	If an error is occurred, the invalid field/s get a red border and the error message is	
	displayed below each field/s.	
Output Data	The system in case of a valid input data, creates a new publication instance in the	
	database with the form values, associates that publication with the user and finally	
	redirects the user back to the page with his/her publications (Figure 31). In case of	
	invalid data, the errors are being returned and shown as alerts.	
Variations	-	

#### 5.3.1.3 Position

EPICommunity	Application > Position > Create		Search	Q 4 🙆
Dashboard	Create New Position			Create
O Profile	Position/Occupation Title		Employee	
$\checkmark$ Recommendations $\sim$	Title		John Doe	~
Chat	Position Description		Post Date	
O Search	Description		15 Jun, 2022	
0			Tags	
Groups			LMS × Drupal ×	~
	From	То	On-Going	
	15 Jun, 2022	15 Jun, 2022		
	Employer			
	City	Country		
	Organization Website	Organization Email		
	Pacifica Lass			
	Position Logo			
	Upload a file or drag and drop			

Figure 45: Position Create Screen

Table 49:	Functionality -	Position	Create
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Functionality	Position Create		
Name			
Relative Use	Management of Course, Publications, Positions and Projects		
Cases	Paragraphs: 4.4.1		
Actors	MEMBER		
Input Data	Occupation/Position title		
	Description		
	• Tags		
	Employer		
	• City		
	Country		
	• From (date)		
	• To (date)		
	On-going		
	• Logo (optional)		
	Organization website (optional)		

	Organization email (optional)
Description	<ul> <li>The user can use the "Create Position" button as shown in the screen Figure 32, in order to view the creation form of a new position. The form is shown in the screen Figure 45. The input data can be reviewed in the above row. The user interface also shows the fields "Employee" and "Post Date". Those two fields are not editable, with the corresponding values being the first/last name of the user and the current date. The creation form is validated with the rules:</li> <li>All the non-optional fields must have a value</li> <li>The title must be at least 3 letters</li> <li>The description must be at least 8 characters long</li> <li>The To field cannot be chronologically before the From field</li> <li>At least one tag</li> <li>The logo must one of the following extensions [.jpg, .png, .jpeg]</li> <li>The Organization website field must a valid URL</li> <li>Organization email must be a valid email address</li> </ul>
	The On-going field disabled the "To" date field and sets its value to "Present". If the user does not select a logo for the new position, EPICommunity will assign the default position logo. If an error is occurred, the invalid field/s get a red border and the error message is displayed below each field/s.
<i>Output Data</i>	The system in case of a valid input data, creates a new position instance in the database with the form values, associates that position with the user and finally redirects the user back to the page with his/her positions (Figure 32). In case of invalid data, the errors are being returned and shown as alerts.
Variations	-

### 5.3.1.4 Project

EPICommunity	Application > Projects > Create		Search Q 4
Dashboard	Create New Project		Create
O Profile	Project Title		Created By
$\label{eq:Recommendations}$ $\sim$	Title		🔽 User name 🗸
Chat	Project Description		Post Date
O Search	Description	Description	
Q blanch			Tags
Groups			LMS × Drupal × V
	Project Link		On-going Create Project Group
	URL		Group Name
	From	То	Group name
	18 May, 2022	18 May, 2022	
	Project Logo		
	Deload a file or drag and drop		

Figure 46: Project Create Screen
Functionality Name	Project Create
Relative Use	Management of Course, Publications, Positions and Projects
Cases	Paragraphs: 4.4.1
Actors	MEMBER
Input Data	<ul> <li>Title</li> <li>Description</li> <li>Link (optional)</li> <li>From (start date)</li> <li>To (end date)</li> <li>Logo (optional)</li> <li>Tags</li> <li>On-going</li> <li>Create Group</li> <li>Group Name</li> </ul>
Description	The user can use the "Create Project" button as shown in the screen Figure 30, in order to view the creation form of a new project. The form is shown in the screen Figure 44. The input data can be reviewed in the above row. The user interface also shows the fields "Created By" and "Post Date". Those two fields are not editable, with the corresponding values being the first/last name of the user and the current date. The creation form is validated with the rules: • All the non-optional fields must have a value • The title must be at least 3 letters • The description must be at least 8 characters long • The To field cannot be chronologically before the From field • At least one tag • The logo must one of the following extensions [.jpg, .png, .jpeg] • The link field must a valid URL The On-going field disabled the "To" date field and sets its value to "Present". If the user wants to create a group associated with that project, he/she must toggle the field "Create Croup". By doing so, the field "Group Name" is unlocked and a name for the group is suggested by the platform. The suggested title follows the pattern: 'Group for' + Project title. The user can edit the group name as he/she pleases. If the user does not select a logo for the new project, EPICommunity will assign the default project logo. If an error is occurred, the invalid field/s get a red border and the error message is displayed below each field/s.
<i>Output Data</i>	The system in case of a valid input data, creates a new publication instance in the database with the form values, associates that publication with the user and finally redirects the user back to the page with his/her publications (Figure 30). In case of invalid data, the errors are being returned and shown as alerts.
Variations	-

# Table 50: Functionality – Project Create

# 5.3.2 Read

5.3.2.1 Course



Figure 47: Course Read Screen

Table 51:	Functionality –	Crouse Read	1
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Functionality	Course Read			
Name				
Relative Use	Management of Course, Publications, Positions and Projects			
Cases	Paragraphs: 4.4.1			
Actors	MEMBER			
Input Data	-			
Description	<ul> <li>By clicking on the title of a course instance, the user is redirected to a new screen showing the extended course information, like a post. The information that a user can see visiting a course is:</li> <li>Title</li> <li>Duration</li> <li>Description</li> <li>Tags</li> </ul>			

	Name of the user that offers the course
	Number of views
	Number of endorsements
	Number of comments
	The list of the comments
	• Co-Teacher(s)
	Host Institution
	• ECTS
	Course Format
	Language of instruction
	Target Group
	• Cost
	Contact person
	Contact email
	Learning Outcomes
Output Data	-
Variations	-

#### 5.3.2.2 Publication

EPICommunity	Application > Publication > Read		Search	0 4 🙆
Dashboard     Dashboard     Profile     Recommendations     Chat     Chat	Application Publication Finad	Publication #1 title 2021 Published	Darch.	
Ph Groups				
		Comments: 2 Views: 1k Endorsements: 20 C C  Pescription Lorent pound dolor sits, and consectatur addisioning elit: Quabusdam nonsequantur quidem provident, dicita harum assumenda unde quaerat in sepiente inventore dolorent, nobis deserunti Sepiente aliquam vero, facilis molestias repellat incidunt! Tags Tags Tags Lothor Co-Authors Lothors L		
		2 Responses  Post a comment  Post a co	Renty	

## Figure 48: Publications Read Screen

## Table 52: Functionality – Publication Read Screen

Functionality	Publication Read			
Name				
Relative Use	Management of Course, Publications, Positions and Projects			
Cases	Paragraphs: 4.4.1			
Actors	MEMBER			
Input Data	-			
Description	<ul> <li>By clicking on the title of a publication instance, the user is redirected to a new screen showing the extended information of the publication, like a post. The information that a user can see visiting a publication is:</li> <li>Title</li> <li>Published year</li> <li>Publication status (published – unpublished)</li> <li>Description</li> <li>Co-authors</li> <li>Tags</li> <li>Name of the publisher</li> <li>Number of views</li> <li>Number of endorsements</li> <li>Number of comments</li> <li>The list of the comments</li> </ul>			
Output Data	-			
Variations	-			

#### 5.3.2.3 Position

EPICommunity	Application : Position : Read	search Q 🗘	•
EPiCommunity	<text><section-header></section-header></text>	aentu Q G	3
	2 Responses  Posta comment  Posta comment  Posta comment  Posta Consecteur valuptates, quia a. Blandias, tempore. Architecto mod similique (pas evenies.  Posta facilia consecteur valuptates, quia a. Blandias, tempore. Architecto mod similique (pas evenies.  Posta facilia consecteur valuptates, quia a. Blandias, tempore. Architecto mod similique (pas evenies.  Posta facilia consecteur valuptates, quia a. Blandias, tempore. Architecto mod similique (pas evenies.  Posta facilia consecteur valuptates, quia a. Blandias, tempore. Architecto mod similique (pas evenies.  Posta facilia consecteur valuptates, quia a. Blandias, tempore. Architecto mod similique (pas evenies.  Posta facilia consecteur valuptates, quia a. Blandias, tempore. Architecto mod similique (pas evenies.  Posta facilia consecteur valuptates, quia a. Blandias, tempore. Architecto mod similique (pas evenies.  Posta facilia consecteur valuptates, quia a. Blandias, tempore. Architecto mod similique (pas evenies.  Posta facilia consecteur valuptates, quia a. Blandias, tempore. Architecto mod similique (pas evenies.  Posta facilia consecteur valuptates, quia a. Blandias, tempore. Architecto mod similique (pas evenies.  Posta facilia consecteur valuptates, quia a. Blandias, tempore. Architecto mod similique (pas evenies.  Posta facilia consecteur valuptates, quia a. Blandias, tempore. Posta facilia consecteur valuptates, quia a. Blandias, tempore.  Posta facilia consecteur valuptates, quia a. Blandias, tempore.  Posta facilia consecteur valuptates, quia a. Blandias, tempore.  Posta facilia consecteur valuptates, quia a. Blandias, tempore.  Posta facilia consecteur valuptates, quia a. Blandias, tempore.  Posta facilia consecteur valuptates, quia a. Blandias, tempore.  Posta facilia consecteur valuptates, quia a. Blandias, tempore.  Posta facilia consecteur valuptates, quia a. Blandias, tempore.  Posta facilia consecteur valuptates, quia a. Blandias, tempore.  Posta facilia consecteur valuptates, quia a. Blandias, tempore.  Posta facilia consecteur		

Figure 49: Position Read Screen

Table 53:	Functional	lity –	Position	Read
-----------	------------	--------	----------	------

Functionality	Position Read			
Name				
Relative Use	Management of Course, Publications, Positions and Projects			
Cases	Paragraphs: 4.4.1			
Actors	MEMBER			
Input Data	-			
Description	<ul> <li>By clicking on the title of a position instance, the user is redirected to a new screen showing the extended information of the positions, like a post. The information that a user can see visiting a position is:</li> <li>Occupation title</li> <li>Description</li> <li>Tags</li> <li>Employer</li> </ul>			

	• City
	Country
	• From (date)
	• To (date)
	On-going
	Organization website
	Organization Email
Output Data	-
Variations	-

#### 5.3.2.4 Project

EPICommunity	Application > Project > Read			
Dashboard  Profile  Recommendations  Chat  Search		Project #1 title 05/05/2022 - 10/05/2022		
Groups		Comments: 2 View: 1k Comments	duaerat Name	
		Post a comment      John Doe     Zi secondo sgo     Lonen, ipsum dolor sit amet consectetur adipisicing elit. Voluptatibus fugiat inventore, voluptatum alias voluptas laudantium optio qui     taque facilis consectetur voluptate, quia a Blandhis, tempore. Architecto mod similique (pos eveniet.	Reply	
		Jane Doe 1 hour ago Looren jaoun dolor, sit amet consectetur adipisicing elit. Quod temporitus, ventatis animi, eum laborum eos quisquam modi dolorem molitisa illum dolorum minus ducimus a sapiente? Commodi auscipit quia libero? Sint.	Reply	

Figure 50: Project Read Screen

Table 54:	Functionality –	Project Read
-----------	-----------------	--------------

Functionality	Project Read
Name	
Relative Use	Management of Course, Publications, Positions and Projects
Cases	Paragraphs: 4.4.1
Actors	MEMBER
Input Data	-
Description	<ul> <li>By clicking on the title of a project instance, the user is redirected to a new screen showing the extended information of the project, like a post. The information that a user can see visiting a project is:</li> <li>Title</li> <li>Duration</li> <li>Description</li> </ul>

	<ul> <li>Name of the user that participated</li> <li>Tags</li> <li>Project group name (if exists)</li> <li>Number of views</li> <li>Number of endorsements</li> <li>Number of comments</li> <li>The list of the comments</li> </ul>
Output Data	-
Variations	-

## 5.3.3 Update



Figure 51: Edit and Delete options Screen

EPICommunity	Application > Course > Update		Search Q 4 🙆
Dashboard	Update Course		Update
O Profile	Course Title		Offered By
↓ Recommendations ~	Course #1 Title		John Doe v
Chat	Course Description		Post Date
Q Search	Lorem ipsum dolor sit amet consectetur adipisicing elit. Nihil dolore provident pari perspiciatis sunt odit quod. Fuga, sunt necessitatibus!	iatur? Vitae porro aliquam, fugit eos aperiam repellat deleniti amet totam vel	3 Jan, 2022 Tags
C) Groups			LMS × Drupal × Gamification × Deep Learning ×
	Course Link		On-going
	http://course#1.url		$\odot$
	From	То	
	1 Jan, 2022	31 May, 2022	
	Course Logo		
	Upload a file or drag and drop		

Figure 52: Course Update Screen

Functionality Name	Entities Update
Relative Use Cases	Management of Courses, Publication and Projects (Update) Paragraphs: 4.4.1
Actors	MEMBER
Input Data	Common updatable fields among all entities: Title Description Link (optional) Logo (optional) Tags Project specific update fields From (start date) To (end date) Create Group Group name
	<ul> <li>Course specific update fields:</li> <li>From (start date)</li> <li>To (end date)</li> <li>On-going</li> <li>On-going Publication specific update fields:</li> <li>Published</li> <li>Year</li> </ul>
Description	The update procedure of is common among the entities Project, Course and Publication. The creator of the instance -the user-, after visiting his/her profile, selects an entity from the menu, in order to view the list with entity instances. Every

Table 55: Functionali	y – Entities Update
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	instance has three dots on the top right corner. Those three dots, on click, reveal the
	instance "Edit" and "Delete" options, as shown in the screen Figure 51. Pressing the
	"Edit" option, the user is redirected to a prefilled create form (for the entity create
	forms see paragraphs 5.3.1.1, 5.3.1.2, 5.3.1.3), based on the entity of the instance. The
	interface in Figure 52 displays an example of the update procedure of a course
	instance. Publication and Project entities follow the same logic. The corresponding
	updatable fields for each entity are being elaborated in the row Input Data. The
	validation of the fields for each entity has been analyzed in the paragraphs 5.3.1.1,
	5.3.1.2, 5.3.1.3.
Output Data	The system after validating the input data, finds the to-be-updated entity in the
	database and sets its information based on the input data.
Variations	-

# 5.3.4 Delete



Figure 53: Course Delete Screen

Table 56:	Functionality	- Entities	Update
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Functionality		Entities Update
Name		
Relative U	Use	Management of Courses, Publication and Projects (Update)
Cases		Paragraphs: 4.4.1
Actors		MEMBER
Input Data		-
Description		The delete procedure of is common among the entities Project, Course and
		Publication. The steps are very similar to the Update procedure. Selecting the
		"Delete" option from the menu revealed by the three dots (explained in paragraph
		5.3.3), a popup window is show asking for confirmation. If the user presses the

"Delete" button, the instance is removed. The user interface of a course deletion is
shown in the Figure 53.
The system deletes the entity instance from the database and redirects the user to
the list of the other instances.
-

# 5.3.5 Endorsement

EPICUR-Research

Functionality	Entities Endorsement
Name	
Relative Use	User interaction with platform entities (Endorsement)
Cases	Paragraphs: 4.2.3
Actors	MEMBER
Input Data	Endorsed
	Unendorsed
	Entity ID
	• User ID
Description	The endorsement of an instance is similar between all the entities. Viewing an instance (paragraphs 5.3.2.1, 5.3.2.2, 5.3.2.3), the Endorse button (the rounded blue) located next to Share button. By pressing it the user endorses that particular instance. If a user has already liked an instance, by pressing the Endorse button again, his/her endorsement is removed.
Output Data	The system creates a new entry in the database, where the user (user ID) is linked with an entity (entity ID) through endorse. In case of unendorsed, this link is removed.
Variations	The Endorse button can be found in various screens:
	• 5.2.2.2
	• 5.2.2.3
	• 5.2.2.4

## Table 57: Functionality – Entities Endorsement

#### 5.3.6 Comment

#### Table 58: Functionality – Entities Comment

Functionality	Entities Comment
Name	
Relative Use	User interaction with platform entities (Comment)
Cases	Paragraphs: 4.2.3
Actors	MEMBER
Input Data	Comment text
	Instance ID
	User ID
	• Timestamp
Description	The comment of an instance is similar between all the entities. Viewing an instance
	(paragraphs 5.3.2.1, 5.3.2.2, 5.3.2.3), at the bottom there is a comment section. The

	user, through the text area with placeholder "Post a comment…" can create a new
	comment for that instance.
<i>Output Data</i>	The system creates a new entry in the database, where the user (with user ID) comments (with comment text) an instance of an entity (with instance ID) on that date (with Timestamp). The new comment is added on top of the comment list in the user interface.
Variations	<ul> <li>The comment text area can be found also in screens:</li> <li>5.2.2.2</li> <li>5.2.2.3</li> <li>5.2.2.4</li> </ul>

## 5.3.7 Share

# Table 59: Functionality – Entities Share

Functionality	Entities Share
Name	
Relative Use	User interaction with platform entities (Share)
Cases	Paragraphs: 4.2.3
Actors	MEMBER
Input Data	Instance ID
Description	The share of an instance is similar between all the entities. Viewing an instance (paragraphs 5.3.2.1, 5.3.2.2, 5.3.2.3), next to the Endorse button, is the Share button. Pressing that button, a URL that leads to that instance is copied to the user's clipboard.
Output Data	The system gets the instance ID and generates a URL.
Variations	<ul> <li>The share text area can be found also in screens:</li> <li>5.2.2.2</li> <li>5.2.2.3</li> <li>5.2.2.4</li> </ul>

# 5.4 General Functionality

5.4.1 Dashboard

EPICommunity	Application > Dashboard					Sear	ch C	) # 🥥
Dashboard     Profile     Recommendations ~	Dashboard	<b>2</b> 31	<b>1</b> 2149	<mark>م</mark> 152	C: Reload Data	Recent	Platform Activity 12 November Courses 50 new Courses	
Chat Q Search ~	Endorsements Profile Strength	Total Assessments	Profile Score	Unique	Visitor		Projects 50 new Projects Publications	
			Previ	ous month assessments Thi Research 80	s month assessments	۵	Positions 50 new Positions	
		-	s	ociety	aching	9	Users 50 new Users Groups 5 new Groups	
	Publications     Projects     Courses	62% 30% 8%				Importa	nt EPICommunity M	lessa < 🗲
	Latest Friends News Friend Name		Feed Overview	Status	Actions	20 Hor Lorem and ty the inc 1500s	I Ipsum is simply dumn irs ago Ipsum is simply dummy pesetting industry. Loren lustry's standard dummy	ny text text of the printing n Ipsum has been text ever since the
	John Doe R1	A	dded new Course	Inactive	옷 Visit Profile D Message	View	Notes	Dismiss
	John Doe R1	A	dded new Course	S Inactive	<u>A Visit Profile</u> D Message			
	John Doe R1	A	dded new Course	C Active	,2, Visit Profile 📁 Message			
	John Doe R1	A	dded new Course	C Active	😤 Visit Profile 🏳 Message			

Figure 54: Dashboard Screen

Table 6	0: Gene	ral Functio	onalitv —	Dashboard
	0. 000			

Functionality	Dashboard
Name	
Relative Use	Profile Management (Read)
Cases	Paragraphs: 4.3.1
Actors	MEMBER
Input Data	<ul><li>Email</li><li>Password</li></ul>
Description	<ul> <li>The Dashboard is the main screen of the EPICommunity members. The screen</li> <li>Figure 54 shows user interface. In the top of the Dashboard are displayed 4 cards</li> <li>containing some generic analytics of the user's profile. Specifically:</li> <li>Number of Endorsements, plus the 24 hours change</li> <li>How many Assessments the profile has received</li> <li>The Profile Score</li> <li>The number of the unique visitors, plus the 24-hour change (views)</li> </ul>
	<ul> <li>Below the 4 analytics cards, there are two charts.</li> <li>Pie chart, displaying the percentage of each EPICommunity entity, based on the users' posts.</li> <li>Radar chart, displaying the score in each role based on the peer assessments.</li> </ul>
	<ul><li>Following the charts, the screen contains a table with the friend's new feed. Each row contains:</li><li>Friend image</li></ul>

	<ul> <li>Friend name</li> <li>Feed overview (eg Add new Course)</li> <li>Friend Status (Active – Inactive)</li> <li>Actions (Visit Profile, Message)</li> </ul>				
	The right part of the Dashboard is dedicated to EPICommunity platform general news and messages. The news contain the number of instances created on each entity the past 24 hours, as well as how many new users join the platform and how many new groups are created. Below are the announcements area. The announcements are special EPICommunity messages, send by the community itself or the system administrator				
Output Data	-				
Variations	-				

# 5.4.2 Notification

	Search	a 4	
	ions User Name 2 Lorem Ipsum is simply dummy	10 : 10 pm text of	

Figure 55: Notifications Screen

Functionality	Notification
Name	
Relative Use	Profile Management (Read)
Cases	Paragraphs: 4.3.1
Actors	MEMBER
Input Data	• Email
	• Password
Description	<ul> <li>This functionality aims to inform the user about regarding some interactions that he might want to know. The notifications are pushed to the user by the system when an important even is triggered. Events that trigger a pushed notification are:</li> <li>New Message</li> <li>New friend request</li> <li>New segment on an instance (sublication groups project)</li> </ul>
	• New comment on an instance (publication, course, project)

	The notifications are on the top right corner next to the user icon, as the screen Figure 55 displays. Notifications that have been read, are automatically dismissed after 3 days.
Output Data	All notifications are stored in the database until they expire.
Variations	

## *5.4.3 Send Contact Request*

EPICommunity	Application > Profile > View			Search Q 4 😣
Dashboard	General Profile Information			
O Profile	Other User	우 Friends	4	Latest Additions
✓ Recommendations ✓ Chat	✓ V K2 Arr General Information	Assessments	5	Publication #5: Gamification Publication Loren Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's tastand duranty text ever. Loren Ipsum is simply dummy text of the printing and typesetting industry since the trans-
C Groups	<ul> <li>Courses</li> <li>Projects</li> <li>Publications</li> </ul>	Profile Score	1000	01 June 2021 View Publication
	i Svills R. Groups O Badges B Friends List	Top Categories		Profile Strength The profile strength indicates
		Image: Weight of the second	100%	
	Assessment R* Add friend	Machine Learning Your impact score in Machine Learning category		Badges   2
		Python         15%           Your impact score in Python category         15%           Tailwind CSS         40%           Your impact score in Tailwind CSS category         40%	_	Given Assessments     6     6
		Latest Assessments		Profile Score Progress Export ~
		User Name R1	20/4/2022	Profile Score over time     Filter by Month      ~
		User Name R2	21/4/2022	1.200-

Figure 56: Another Members' Profile Screen

Functionality	Send Contact Request
Name	
Relative Use	Entities Interaction / User to User / Contact Request
Cases	Paragraphs: 4.2.1.3
Actors	MEMBER
Input Data	User ID
	User ID
Description	Visiting another users' profile, the user can send a contact request using the button
	"Add friend" as displayed in the right side of the Figure 56.
Output Data	The system sends a notification to the user regarding the incoming contact request.
Variations	-

#### Table 62: General Functionality – Send Contact Request

#### 5.4.4 Private Message

EPICommunity	Application > Chat		Search Q 4 🚇
Dashboard	Chat		
O Profile	Chats	John Doe	1
$\checkmark$ Recommendations $\sim$			
Chat	John Doe 5.00 PM Lorem ipsum dolor, sit amet consectetur adi	Lorem ipsum sit amen dolor, lorem ipsum sit amen dolor 2 mine ago	
Q Search	John Doe 6:00 PM		Lorem ipsum sit amen dolor, lorem ipsum sit amen dolor 1 mins ago
Groups	Lorem ipsum dolor, sit amet consectetur adi		Lorem ipsum sit amen dolor, lorem ipsum sit amen dolor
	John Doe 7:00 PM Lorem ipsum dolor, sit amet consectetur adi	12. June 2022	
	John Doe BOO PM Lorem ipsum dolor, sit amet consectetur adi	Lorem lipsum sit amen dolor, lorem ipsum sit amen dolor 10 aeca apo	_
	Soo PM Lorem ipsum dolor, sit armet consectetur adi		Lorem (psum 1 secs ago
		Type your message	© ∅ <b>∢</b>

Figure 57: Private Message Screen

Functionality	Private Message
Name	Three message
Relative Use	Entities Interaction / User to User / Private Message
Cases	Paragraphs: 4.2.1.4
Actors	MEMBER
Input Data	User ID
	Message
	User ID
Description	The private message functionality allows the user to chat with each other. Using the
	"Chat" option of the sidebar the user can send a private message to a contact. The
	screen Figure 57 displays the user interface.
Output Data	The system takes the message send by a user1 (with user ID), adds the message to
	the user2 (with user ID) inbox and pushes a notification to inform the user2 for the
	incoming message. All messages are stored in the database.
Variations	There are various options to send a new message to another user. Those can be
	found in the form of button "Message", in the following interfaces:
	• Figure 36
	Figure 54
1	

# Table 63: General Functionality – Private Message

#### 5.4.5 Assessment

EPICommunity	Application > Assessment					Search_	٩	¢ 🙆
Dashboard	Assessment							
<ul> <li>A Profile</li> <li>✓ Recommendations ✓</li> <li>✓ Chat</li> <li>Q Search ✓</li> </ul>	Researcher Role Researcher role description	Te	Teacher Role	Enterp	Oreneurial Role unal role description	Service Rol Service role descr	e	
Groups	Evaluate as Researcher							
		Core Critiria for Re	esearcher Role					
	1 Core Critiria	Critiria	Description	and sumthesis of new	Comment		Rating	
	2 Specific Critiria 3 Personal Critiria	Carry Out Research	and complexideas; to conducts reason or independently to advances a rese- take the lead in executing collaborativ Development of a strategic vision o research field and contribute through developing a substantial body of v application.	the under supervision arch agenda and to re research projects. In the future of the original research by work, innovation or	Leave a comment (Max 300 char	acters)	1	8
		Subject matter and expertise	Understanding of a field of study and ability to conceive, design, implem substantial programme of research subject area using the appropriate rese and approaches	subject area and the nent and adapt a with integrity in the parch methodologies	Leave a comment (Max 300 char	acters)	1	8
		Value team science	Contribute and engage in collabo reserach and share tasks and res among all team members and empowe researchers	prative, team-based ponsibilities equally er and support young	Leave a comment (Max 300 char	acters)	1	۲
		Supervision of research and mentorship	Supervise less experienced students conduct research and finalize their st successfully implement their research help Early Stage Researchers, to bec and successful in their research can networks with less experienced research and successful in their research can networks with less experienced research and successful in their research can networks with less experienced research and successful successful and successful successful and successful successful successful and successful successful successful successful successful and successful successful suc	and researchers to udy programme and project. Mentor and ome more effective eer. Shares external hers/students.	Leave a comment (Max 300 char	acters)	1	•
		Open Science skills	Skills and expertise support to apply op routines and practices, and Skills and for open access publishing	en science research expertise necessary	Leave a comment (Max 300 char	acters)	1	۲
		Scientific publications and impact	The level of contribution to scientif reviews, editorials, as co- and/or lead initiation and organization of workt sessions. The level of contribution (tr research field or spanning multiple area	ic papers, journals, d author, and to the shop or conference eakthroughs) to own IS	Leave a comment (Max 300 char	acters)	1	•
		Scientific publications and impact	The level of contribution to scientif reviews, editorials, as co- and/or feasi initiation and organization of work sessions. The level of contribution (tr research field or spanning multiple area	ic papers, journals, J author, and to the hop or conference eakthroughs) to own IS	Leave a comment (Max 300 char	acters)	1	

Figure 58: Assessment Screen

Functionality Name	Assessment				
Relative Use	Entities Interaction / User to User / Evaluate User				
Cases	Paragraphs: 4.2.1.5				
Actors	MEMBER				
Input Data	User ID				
	User ID				
	Ratings of Core criteria for Researcher Role				
	Ratings of Specific criteria for Researcher Role				
	Ratings of Personal criteria for Researcher Role				
	Ratings of Core criteria for Teacher Role				
	Ratings of Specific criteria for Teacher Role				
	Ratings of Personal criteria for Teacher Role				
	Ratings of Core criteria for Entrepreneurial Role				
	Ratings of Specific criteria for Entrepreneurial Role				
	Ratings of Personal criteria for Entrepreneurial Role				
	Ratings of Core criteria for Service Role				

7	able	64:	General	Fι	ıncti	ona	lity	-	Asse	ssm	ent
---	------	-----	---------	----	-------	-----	------	---	------	-----	-----

	<ul> <li>Ratings of Specific criteria for Service Role</li> <li>Ratings of Personal criteria for Service Role</li> </ul>
Description	The peer assessment is a unique functionality of the EPICommunity. The evaluation procedure has fully adopted the EPIQAssess roles and criteria. A member can choose to evaluate another member, only in a specific role, but has to complete all the criteria for that role (core, specific and personal). Each criteria has a list of different aspects regarding that criteria. The user can choose not to submit a rating for an aspect. The rating is between 1= lowest and 5 highest. The interface Figure 58 shows the rating of member, for the based criteria of the researcher role. By clicking next, the user is moved to the specific criteria. A "Previous" button will also be available to check the rating on the previous criteria if needed. The evaluation of a member expires after 6 months.
Output Data	The system will receive the rating of the member and store it in the database.
Variations	-

# 5.5 Groups Functionality

## 5.5.1 Create

EPICommunity	Application > Groups > Create	Geeth Q 🧔 🧔
Dashboard	Create New Group	Creat
O Profile	Group Title	Created By
↓ Recommendations →	Title	John Doe 🗸
Chat	Group Description	Creation Date
O Search	Description	21 May, 2022
		Tags
Groups		LMS × Drupal × V
	Meeting Link	open sraup
	URL	
	EPICluster ID	
	0	
	EPICradle ID	
	10	

Figure 59: Group Create Screen

Functionality Name		Create Group
Relative	Use	Group Management (Create)
Cases		Paragraphs: 4.5.1
Actors		MEMBER

# Table 65: Groups Functionality – Create

Input Data	<ul> <li>Group name</li> <li>Description</li> <li>Group annotations (tags)</li> <li>Group type (open/closed)</li> </ul>
	<ul> <li>The optional group fields are:</li> <li>Meeting link</li> <li>Project ID</li> <li>EPICluster (i.e., to characterize the group as an EPICluster)</li> <li>EPICradle (i.e., to characterize the group as an EPICradle)</li> </ul>
Description	<ul> <li>The screen Figure 59 displays the user interface regarding the creation of a new group. The above row contains the information regarding the fields. The submitted data must follow the rules:</li> <li>Group name should be unique</li> <li>Description should be at least 10 characters long</li> <li>At least 1 tag</li> </ul>
<i>Output Data</i>	The system validates the data, generates a group ID and stores the data on the database.
Variations	-

#### 5.5.2 Read

## 5.5.2.1 List

EPICommunity	Application > Groups					Search	a 🧳 🤒
Dashboard	Groups						
O Profile	Create new Group		Showing	g 1 to 5 of 5			Search Q
$\oint$ Recommendations $\sim$	Moderators	Name	Members	Tags	Project	Туре	Actions
Chat Q Search ~	<b>(()</b>	Group1 group1 description	6	#Tag 0 #Tag 1 #Tag 2	Project #6	Closed	🖉 Edit 🔒 Leave 🏠 Endorse
		<b>Group2</b> group2 description	9	#Tag 0 #Tag 1 #Tag 2		Closed	ම Leave 🖒 Endorse
	<b>(()</b>	Group3 group3 description	12	#Tag 0 #Tag 1 #Tag 2		Closed	ල Apply 🖒 Endorse
		Group4 group4 description	15	#Tag 0 #Tag 1 #Tag 2	Project #9	🕑 Open	) Join 🔥 Endorse
		Group5 group5 description	18	#Tag 0 #Tag 1 #Tag 2	Project #10	🕑 Open	) Join 🏠 Endorse
	« <	1 2 3 > »					10 🗸

Figure 60: Groups List Screen

Table 66: Groups Functionality – Groups List

Functionality	Groups List
Name	
Relative Use	Group Management (Read)
Cases	Paragraphs: 4.5.1
Actors	MEMBER
Input Data	• Email
	• Password
Description	Using the "Groups" option of the sidebar a member can view all the groups of the EPICommunity in a form of table. Each row of the table contains information regarding a group instance. The information is: <ul> <li>List of moderators</li> <li>Group name</li> <li>Group description</li> <li>Number of members</li> <li>Tags</li> <li>If the group is attached to a project instance</li> <li>The type of the group (closed, open)</li> <li>Actions</li> </ul>
	The "Actions" column in dynamic based on, if the user is already member of the group and if the user is moderator of the group. In such cases, the options "Edit" and "Leave" are displayed. On the other hand, the option "Join" is displayed if the group is open, or the option "Apply" if the group is closed. Finally, the action "Endorse" is displayed in case the user have not endorsed the group previously. The user interface can be found in the Figure 60.
Output Data	-
Variations	-

## 5.5.2.2 General Information

EPICommunity	Application > Group > General Information			Search Q 🥂 🚨
Dashboard	General Group Information			
Profile Recommendations ~	小 General Information ∞, Members	Group 1 Name Loren josum dolor, sit amet consectetur adipiscing elit. Perferendis autem sapiente saperioris tencur, consequatur fugit assumenda, facere odio culpa ad odit, dolorum	് Members	19
Chat Q Search	E) Wall	laborum neque in fugiat placeat. Aliquam, nisi consectetur: #Tag 0 #Tag 1 #Tag 2	🕄 Group Type	ි Open
On Groups	III Membership Requests	1 Endorsements		2000
		© Views		50000
		ි Badges		1
		Badge List		
		ம		
		Most Endorsed Group Issued : 5/5/2022 A badge given to the groups, which is in the top 10% of the most liked groups.		

Figure 61: Group General Information Screen

Functionality	Group General Information
Relative Use Cases	Group Management (Read) Paragraphs: 4.5.1
Actors	MEMBER
Input Data	<ul><li>Email</li><li>Password</li></ul>
Description	<ul> <li>Clicking on a group from the list Figure 60, the member is redirected in the general information screen, Figure 61. Here one can see the following information:</li> <li>Group name</li> <li>Group description</li> <li>Group tags</li> <li>Number of members</li> <li>Group type</li> <li>Number of endorsements</li> <li>Number of views</li> <li>Number of badges</li> <li>List of badges</li> <li>In the left side of the interface, there is a menu. The options of that menu are displayed according to the group type (open), the user role in the group</li> </ul>
Output Data	(moderator) and the user permissions (view wall, edit information).
Variations	-

Table 67: Groups	s Functionality –	Group General	Information
------------------	-------------------	---------------	-------------

## 5.5.2.3 Members

EPICommunity	Application > Groups > Members					Search	a) 🧳 🧕
Dashboard	Group Members						
Profile	Ar General Information	Members					
Chat	A Members	Image	Member Name	Joined	Role	Permissions	Actions
Q Search	Edit Information	4	User Name1	5/5/2022	Moderator	Full	
O) Groups	ﷺ Membership Requests 🛛 🔞		User Name2	5/5/2022	Moderator	Full	
	E Delete Group	<b>*</b>	User Name3	5/5/2022	Member	Read/Write Wall	Edit 🤽 Remove
		۲	User Name4	5/5/2022	Member	Read/Write Wall	🕑 Edit 🛛 🐥 Remove
		۲	User Name5	5/5/2022	Member	Read/Write Wall	🕑 Edit 🛛 🐥 Remove
		« < 1	> »				5 🗸



Functionality Name	Group View Members
Relative Use	Group Management (Read)
Cases	Paragraphs: 4.5.1
Actors	MEMBER
Input Data	• Email
	• Password
Description	<ul> <li>The interface in the Figure 62 shows the members of a group in a table form. Each table row consists of:</li> <li>Member image</li> <li>Member name</li> <li>Date join</li> <li>Role</li> <li>Permissions</li> <li>Actions</li> <li>The actions field contains the options to remove a member from the group, and the option to edit the members' permissions and role</li> </ul>
Output Data	-
Variations	-

# Table 68: Groups Functionality – Group View Members

#### 5.5.2.4 Wall

EPICommunity	Application > Group > Wall	Search Q 🦨 🙆
Dashboard	General Group Information	
✓ Recommendations ✓ □ Chat Q Search	Ar General Information R, Members R Wall R Edit Information	John Dee     Moneter  Announcement #0 Lorem (psum is simply dummy text of the printing and typesetting industry. Lorem (psum has been the industry's standard dummy text ever. Lorem (psum is simply dummy text of the printing and typesetting industry since the 1500s.
Oroups	E Membership Requests	02 June 2021
		Announcement #1 Lorem (psum is simply dummy text of the printing and typesetting industry. Lorem (psum has been the industry's standard dummy text ever. Lorem (psum is simply dummy text of the printing and typesetting industry since the 1500s. 02.June 2021
		Announcement #2 Lorem (psum is simply dummy text of the printing and typesetting industry. Lorem (psum has been the industry's standard dummy text ever. Lorem (psum is simply dummy text of the printing and typesetting industry since the 1500s. 02 June 2021

Figure 63: Group Wall Screen

Table 69: Groups Functional	lity – Group Wall
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Functionality	Group Wall
Name	

Relative Use	Group Management (Read)
Cases	Paragraphs: 4.5.1
Actors	MEMBER
Input Data	• Email
	• Password
Description	The Wall of a group is a place where the moderators can post announcements. The
	screen in Figure 63 shows the interface. Members of the group, in case of a closed
	group, or anyone in case of an open group, can view those announcements.
Output Data	-
Variations	-

#### 5.5.2.5 Membership Requests

EPICommunity	Application > Groups > Requests		Search Q 🖨 🙆
Dashboard	Group Members		
Profile Freeommendations ~	↓ General Information	Requests List	
Chat	, Members 日 Wall	User Name 7 User Name 7 User Name 7	ime 8
Groups	E continiormation	Profile Completion 20% Accept Decline Profile Completion	20% Accept Decline
	🔞 Delete Group	User Name 9 R3	
		Public Completion 20% Accept Decline	

Figure 64: Group Membership Requests Screen

Functionality	Manage Group Membership Requests
Name	
Relative Use	Group Member Management
Cases	Paragraphs: 4.5.2
Actors	MEMBER
Input Data	User ID
	Group ID
Description	When a group is closed, the users apply to join on that group. The moderators can
	view pending membership requests as shown in the screen Figure 64. Moderators
	can accept a request of decline a request.
Output Data	The system if a membership request gets accepted, adds the applicant (with user
	ID) to the members of the group (with group ID). If the request get declined the

## Table 70: Groups Functionality – Manage Group Membership Requests

	system deletes the pending request, and unlocks the option for the user to reapply for membership to the group.
Variations	-

# 5.5.3 Update

EPICommunity	Application > Groups > Update	Search Q 4 Q
Dashboard	Update Group	Update
O Profile	Group Title	Created By
$$ Recommendations $\sim$	Title of Group	John Doe 🗸
Chat	Group Description	Creation Date
C. Street	Lorem ipsum dolor sit amet consectetur adipisicing elit. In nisi veniam laudantium! Nisi quae nam iste repellendus, veniam, quisquam ut deserunt itaque consequatur laudantium, delenum quae ratione utrae commodi um que	21 May, 2022
Q search	aduamum, adorum quas ratione vitae common cumque.	Tags
O) Groups		LMS × Drupal × ~
	Meeting Link	Open Group
	zoom.link/123456	•
	EPICluster ID	
	ID	
	EPICradle ID	
	10	

Figure 65: Group Update Screen

Table	71:	Groups	Functionality –	- Undate	e Group
rabic	/	Groups	i anceronancy	opuate	Group

Functionality	Update Group			
Name				
Relative Use	Group Management (Update)			
Cases	Paragraphs: 4.5.1			
Actors	MEMBER			
Input Data	Group ID			
	Group name			
	Description			
	Group annotations (tags)			
	Group type (open/closed)			
	<ul> <li>The optional group fields are:</li> <li>Meeting link</li> <li>Project ID</li> </ul>			
	<ul> <li>EPICluster (i.e. to characterize the group as an EPICluster)</li> </ul>			
	<ul> <li>EPICradle (i.e., to characterize the group as an EPICradle)</li> </ul>			
	•			
Description	Group moderators or users with edit permission can update the information of the			
	group. Using the same form as in create group functionality, but prefilled with the			
	groups data, the allowed group members can change the data of the group. The			

	"Edit" button can be found in the list of the groups that the user is already member,				
	shown in interface Figure 34.				
Output Data	The system takes the update information based on the user input, and updates the				
	group (with group ID) in the database.				
Variations	The "Edit" button can also be found in the list of all the platform groups, as shown in the Figure 60.				

# 5.5.4 Delete

$\cdot \!$	
A Members	
🖈 Wall	
C Edit Information	
E Membership Requests	8
	前 Delete Group

Figure 66: Group Side Menu

Table 72: Groups	Functionality – Delete	Group
------------------	------------------------	-------

Functionality	Delete Group
INAME	
Relative Use	Group Management (Delete)
Cases	Paragraphs: 4.5.1
Actors	MEMBER
Input Data	Group ID
Description	As described in the relative use case, a group can be deleted. The circumstances are the same as in the use case. The moderator of a group can delete the group from the EPICommunity using the "Delete Group" option as shown in the Figure 66.
Output Data	The system deletes the group (with group ID) and all the associated data with it.
Variations	

5.5.5 Create Announcement

EPICommunity	Application > Group > Create > Announcement		Search	Q 4 🙆
Dashboard	Create New Announcement			Create
O Profile	Announcement Title	Created By		
$$ Recommendations $\sim$	Title	John Doe		~
Chat	Announcement Description	Announcement Date		
O Search v	Description	23 May, 2022		
O) Groups				

## Figure 67: Create Announcement Screen

Functionality Name	Create Announcement		
Relative Use Cases	Group Management Paragraphs: 4.5.1		
Actors	MEMBER		
Input Data	<ul> <li>User ID</li> <li>Group ID</li> <li>Announcement Title</li> <li>Announcement Description</li> <li>Date</li> </ul>		
Description	<ul> <li>Group moderators can create group announcements, that are posted in the group wall. The group announcement a title and a description. The screen Figure 67 shows the creation form of a new announcement. The validation rules are:</li> <li>Title must be at least 4 characters long</li> <li>Description must be at least 8 characters long</li> </ul>		
	The date field and the user that creates the announcement are disabled and autocompleted by the platform.		
<i>Output Data</i>	The system creates a new announcement for the group and persists the announcement information in the database.		
Variations	-		

## Table 73: Groups Functionality – Create Announcement

# 5.5.6 Enrolment

Table 74: Groups Functionality – Group Enrolment

Functionality	Group Enrolment
Name	
Relative Use	Group Enrolment
Cases	Paragraphs: 4.5.3
Actors	MEMBER
Input Data	User ID
	Group ID
Description	A user can become a member of the group using the "Join" option, in the "Actions" column, in case of an open group, as shown in the Figure 60. In that case he/she will

	automatically become the member of the group. If the group is closed the user cause the option "Apply" to send a membership request to the moderators of the			
	group.			
<i>Output Data</i>	If the group is open the user clicks the "Join", the system add the user (with user ID) to the member of the group (with group ID) and stores to the database. If the group is closed and the user clicks "Apply", a new membership request is created for the group (with group ID) and stored in the database.			
Variations	-			

## 5.5.7 Leave Group

Table 75: Groups	Functionality -	Leave Group
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Functionality	Leave Group
Name	
Relative Use	Leave Group
Cases	Paragraphs: 4.5.4
Actors	MEMBER
Input Data	User ID
	Group ID
Description	A member of a group can leave the group using the "Leave" option as shown in the
	Figure 34.
Output Data	The system removes the user (with user ID) from the members of the group (with
	group ID).
Variations	The "Leave" option can also be found in the Figure 60.

# 5.6 <u>Search Functionality</u>

# 5.6.1 Entities (Courses/Publications/Projects)

EPICommunity	Application > Search > Courses					Search	0 4 0
Dashboard	Search Courses						Create New Course
Profile	Field Name v Type like v Value Search	Go Reset					
Chat	Course Name	Offered By	*	Views -	Likes -	Tags	- Actions -
Q Search	Course #1 Lorem Ipsum dolor sit amet consectetur adipisicing elit. Quae blanditis «	User Name 1 Posted at - 5/5/2022		700	100	#Java #Object Oriented	© View
O Users	Course #2 Lorem ipsum dolor sit amet consectetur adipisicing elit. Quae blanditiis «	User Name 2 Posted at - 5/5/2022		500	60	#LMS #Learning Analytics	© View
Projects	Course #3 Lorem ipsum dolor sit amet consectetur adipisicing elit. Quae blanditiis «	User Name 3 Posted at • 5/5/2022		1000	200	#Java #Object Oriented	S View
Courses	Page Size 10 v					« < 1 2 3	4 > »
Groups							
Groups							

Figure 68: Search Courses Screen

Functionality Name	Search Courses/Publications/Projects
Relative Use Cases	Search of Courses, Publications, Positions and Projects Paragraphs: 4.4.2
Actors	MEMBER
Input Data	Common: • Name (result contains the characters of the user input) • Associated Tags (result contains the characters of the user input) • Number of Endorsements • Number of Comments Courses: • On-going Publications: • Year
	Projects: • On-going
Description	Members and Subscribers can search for instances of entities in the EPICommunity platform. The search criteria can be found in the above row. The screen Figure 68 displays the user interface for the search of courses. The interface is similar for the entities.
Output Data	The matched instances are returned.
Variations	-

## 5.6.2 Users

Functionality	Search Users
Name	
Relative Use	Search Users
Cases	Paragraphs: 4.2.1.1
Actors	MEMBER
Input Data	• First name (result contains the characters of the user input)
	• Last Name (result contains the characters of the user input)
	Top categories tags
	• Publication name (result contains the characters of the user input)
	Number of Publications
	• Project name (result contains the characters of the user input)
	Number of Projects
	• Course name (result contains the characters of the user input)
	Number of Courses
	Number of Friends
	• Number of assessments that the profile has received
	Number of assessments made
	Profile score

Table 77: Search Functionality – Users

	<ul> <li>Assessment scores per role (Researcher, Innovation, Entrepreneur, Society)</li> <li>Number of groups that s/he is member of</li> </ul>
Description	The Users search mechanism offers a set of extensive fields, in order for a very specific query to be made. The fields can be found in the above row. Members and Subscribers can both use the Users search, but members can also send a contact request.
Output Data	The users that match the query fields.
Variations	-

# 5.7 <u>Recommendations Functionality</u>

The Members of the EPICommunity also have the Recommendations option available on their side bar.

```
5.7.1 Users
```

EPICommunity	Application >	Recommendations > Users				Search	Q 4 🕗
Dashboard	Recommen	nded Users					
O Profile	Based on anno	otations					
↓ Recommendations ∧		Name	Institution/Organization	Profile Annotations	Research Level	Profile Views	Actions
O) Users							
Courses		User Name1 Joined at + 5/5/2022	Institution 1	#Tag 0	R2	100	옷+ Send Request
Publications	-			#Tag 2			
O Groups				#Tag 0			
Chat		User Name2 Joined at + 5/5/2022	Institution 2	#Tag 1	R3	200	우 Send Request
Q Search ~				#Tag 2			
O) Groups	Based on Insti	itution					
	00000011100	Nama	institution (Association	Drofile Americalism	December 1 mint	Drafile Mission	Antione
		Name	institution/organization	Prome Annotations	Research Level	Profile Views	Actions
		User Name3	Institution 3	#Tag 0	R4	300	2+ Send Request
	V	Joined at + 5/5/2022		#Tag 1 #Tag 2			
	(6)	User Name4	Institution 4	#Tag 0 #Tag 1	R1	400	유• Send Request
				#Tag 2			
				#Teo 0			
	۲	User Name5 Joined at • 5/5/2022	Institution 5	#Tag 1	R2	500	옷* Send Request
				#Tag 2			

Figure 69: Recommended Users Screen

Table 78: Recommende	d Functionality – Users
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Functionality	Recommended Users
Name	
Relative L	se Recommended entities to the user by the platform
Cases	Paragraphs: 4.2.2
Actors	MEMBER
Input Data	User ID
	User Annotations
	User Institution
Description	The EPICommunity recommends users for contact to a member. Based on the profile annotations and the Institution, the platform gives a list to the user for

	potential new contacts. The screen Figure 69 shows the user interface, where
	the two lists of recommended users are displayed (based on tags and based on
	institution).
Output Data	The platform returns two lists of recommended users.
Variations	-

## 5.7.2 Entities (Courses/Publications/Projects)

EPICommunity	Application > Recommendations > Publication	cations			Search	a) 🧔 🤮
Dashboard	Recommended Publications					
O Profile	Based on annotations					
F Recommendations ~	Publication Name	Description	Annotations	Views	Endorsements	Actions
있 Users ① Courses ] Publications	Publication 1 Published on - 2021	Lorem ipsum dolor sit, amet consectetur adipisicing elit. Debitis er quod voluptates omnis quae soluta labore, expedita culpa. Odio fugiat magni modi. Nostrum, dolorum nisi molestiae quam beatae in ullam!	#Tag 0 #Tag 1 #Tag 2	100	50	S View
Chat	Publication 2 Published on • 2021	Lorem ipsum dolor sit, amet consectetur adipiticing elit. Debitis ex quod voluptates omnis quae soluta labore, expedita culpa. Odio fugiat magni modi. Nostrum, dolorum nisi molestiae quam bestae in ullam!	#Tag 0 #Tag 1 #Tag 2	200	100	🗵 View
2) Groups	Publication 3 Published on - 2021	Lorem ipsum dolor sit, amet consectetur adipisicing elit. Debitis ex quod voluptates onnis quae soluta labore, espedita culpa. Odio fugiat magni modi. Nostrum, dolorum nisi molestiae quam beate in ullam!	#Tag 0 #Tag 1 #Tag 2	300	150	2 View
	Publication 4 Published on + 2021	Lorem ipsum dolor sit, annet consectetur adipisiong efit. Debitis ex quod voluptates onnis quae soluta labore, expedita culpa. Odo fugiat magni modi. Nostrum, dolorum nisi molestiae quam beatae in ullam!	#Tag 0 #Tag 1 #Tag 2	400	200	2 View

Figure 70: Recommended Publications Screen

EPICommunity	Application > Recommendations > Courses			Searc	n	1 🕘
Dashboard	Recommended Courses					
O Profile	Based on annotations					
$\checkmark$ Recommendations ~	Course Name	Description	Offered By	Annotations Vi	ews Endorsements	Actions
Courses	Course 1 Posted on + 05/05/2021	Lorem ipsum dolor sit, amet consectetur adipisicing elit. Debitis ec quod voluptates omnis quae soluta labore, espedita culpa. Odio fugiat magni modi. Nostrum, dolorum nisi molestiae quam beatae in ullant	User Name 1 R1	#Tag 0 #Tag 1 1 #Tag 2	00 : 50 :	S View
	Course 2 Posted on - 65/05/2021	Lorem ipsum dolor sit, amet consectetur adipisicing elit. Debitis ex quod voluptates omnis quae soluta labore, especita culpa. Odo fugiat magni modi. Nostrum, dolorum nisi molestae quam beatae in ullam!	User Name 2 R2	#Tag 0 #Tag 1 2 #Tag 2	00 100	( View
C Search V	Course 3 Fosted on + 65/05/2021	Lorem ipsum dolor ait, amet consectetur adipisicing elit. Debitis ex quod voluptates omnis quae soluta labore, espedita culpa. Odo fugial magis modi. Nostrum, dolorum nisi molestae quam beatae in ufamt	User Name 3 R3	#Tag 0 #Tag 1 <sup>3</sup> #Tag 2	00 150	2 View
	Course 4 Posted on - 65/05/2021	Lorem ipsum dolor sit, amet consectetur adpisacing ekt. Debitis ex quod voluptates omnis quae soluta labore, especita culpa. Ode brigat magei modi. Nostrum, dolorum nisi molestiae quam bestae in ullami	User Name 4 R4	#Tag 0 #Tag 1 4 #Tag 2	00 200	View

Figure 71: Recommended Courses Screen

Functionality Name	Recommended Entities (Courses/Publications/Projects)
Relative Use Cases	Recommended entities to the user by the platform Paragraphs: 4.2.2
Input Data	<ul> <li>User ID</li> <li>User Annotations</li> <li>User Institution</li> </ul>
Description	The EPICommunity recommends instances of entities to a member. Based on the profile annotations, the platform gives a list to the user for interesting instances. The screens Figure 70, Figure 71 shows the user interfaces of recommended courses and publications.
Output Data	List of instances.
Variations	-

## Table 79: Recommended Functionality – Entities (Courses/Publications/Projects)

#### 5.7.3 Groups

EPICommunity	Application > Recommendations >		Search .	Q	4 🕗
Dashboard	Recommended Groups				
	Based on annotations	Description	Annotations	Members	Actions
Courses	Group 1 Created on - 05/05/2021	Lorem ipsum dolor sit, amet consectetur adpisicing elit. Debitis ex quod voluptates omnis quae soluta labore, expedita culpa. Odio fugiat magni modi. Nostrum, dolorum nisi molestiae quam beatae in ullam!	#Tag 0 #Tag 1 #Tag 2	3	2 View
Chat	Group 2 Created on - 05/05/2021	Lorem ipsum dolor sit, amet consectetur adpisicing elit. Debitis ex quod voluptates omnis quae soluta labore, expedita culpa. Odio fugiat magni modi. Nostrum, dolorum nisi molestiae quam beatae in ullam!	#Tag 0 #Tag 1 #Tag 2	6	2 View
C Groups	Group 3 Created on + 05/05/2021	Lorem ipsum dolor sit, amet consectetur adipisicing elit. Debitis ex quod voluptates omnis quae soluta labore, expedita culpa. Odio fugiat magni modi. Nostrum, dolorum nisi molestiae quam beatae in ullam!	#Tag 0 #Tag 1 #Tag 2	9	2 View
	Group 4 Created on - 05/05/2021	Lorem ipsum dolor sit, amet consectetur adipisicing elit. Debitis ex quod voluptates omnis quae soluta labore, expedita culpa. Odio fugiat magni modi. Nostrum, dolorum nisi molestiae quam beatae in ullam!	#Tag 0 #Tag 1 #Tag 2	12	2 View

#### Figure 72: Recommended Groups Screen

Functionality Name		Recommended Groups
Relative	Use	Recommended entities to the user by the platform
Cases		Paragraphs: 4.2.2
Actors		MEMBER

#### Table 80: Recommended Functionality – Groups

Input Data	-
Description	The EPICommunity recommends groups to a member. Based on the profile annotations, the platform gives a list to the user for interesting groups that he/she might want to become a member of. The screen Figure 72, shows the user interface of recommended groups.
Output Data	The list of recommended groups.
Variations	-

## 6 Conclusion and next steps

This deliverable has presented the functionality of the EPICommunity to be developed in the next project period.

EPICommunity is a community designed by researchers for researchers!

The deliverable elaborated in collaboration with all EPICUR partners and ECR board representatives in a stepwise approach taking into account the results of the previous tasks of WP2. More specifically:

- The researcher profile has been adopted by EPIGame (Deliverable D2.2) and after the results of a state of the art of other social networks profiles
- The peer-assessment functionality is in line with the EPIQAssess EPICUR qualitative researchers' assessment framework (Deliverable D2.1)

The main rationale of the EPICommunity design is to serve as a social network incorporating all the necessary features that can foster research and collaboration rather than be "yet another social network". To this direction 6 groups of 16 Use Cases (see Table 81) and 7 groups of 35 functionalities has been elaborated (see Table 82).

Paragraph	Use Case group	Number of Use Cases
4.1	Access and Registration / Login	2
4.2	Entities interaction	3
4.3	Profile Related Use Cases	3
4.4	Use Cases for the Entities Courses, Publications and Projects (Create / Read / Update / Delete)	2
4.5	Group Related Use Cases	4
4.6	Badges Use Case (Create / Read / Delete)	2

#### Table 81: EPICommunity Use Cases

#### Table 82: EPICommunity Functionalities

Paragraph	Functionalities group	Number of Functionalities
5.1	Access and Registration / Login	5
5.2	Profile Functionality	6
5.3	Entities Functionality	7

Paragraph	Functionalities group	Number of Functionalities
5.4	General Functionality	5
5.5	Groups Functionality	7
5.6	Search Functionality	2
5.7	Recommendations Functionality	3

The next steps are the following:

- Continuation of the activities of Task 2.4 EPICommunity Prototype Implementation (M16-M36). Main steps of this task are the following:
  - Creation of the database and the registry of the EPICommunity: This step will create the structure of the main component of the EPICommunity, namely its database, according to the European Alliance Researcher profile, designed in Task 2.3. During this step, the Privacy Policy<sup>4</sup> and "Data Protection Impact Assessment" (DPIA)<sup>5</sup> will be drafted by AUTh. Relevant experts (e.g., Data Protection Officers and/or Chief Information Security Officers) will be consulted on these documents. This consultation could be organised in the context of a wider GDPR Working Group meeting, provided that a general meeting concerning GDPR issues of all EPICUR-Research WPs will be organised.
  - Development of the user interface and the functionality of the EPICommunity: This step concerns the implementation of the user interface, the creation/ customization of each module of the EPICommunity for development the alpha version of EPICommunity Prototype (M24). The alpha version of EPICommunity Prototype will be accompanied by the final version of Privacy Policy and "Data Protection Impact Assessment" (DPIA).
  - Organization of the evaluation of the alpha version of EPICommunity Prototype with the support of ECR board members.
  - Deployment of the EPICommunity platform to creates groups for the EPICluster members.
  - Continuous support and fixes of the EPICommunity to develop the final EPICommunity Prototype (M36).
- Presentation in Conferences/infodays of the EPICommunity

## 7 References

EPICUR-Research Deliverable D2.1 EPIQAssess – EPICUR qualitative researchers' assessment framework EPICUR-Research Deliverable D2.2 EPIGame – Researchers gamification framework

<sup>&</sup>lt;sup>4</sup> "Privacy Policy" document: This document is being published as a part of any application that is going to collect user's personal data and informs them about the kind of processing, the requirements of using such user interfaces etc. "Privacy Policy" will be publicly available as a link in the EPICommunity landing page for anyone who wants to read it or as a part of an application component

<sup>&</sup>lt;sup>5</sup> "Data Protection Impact Assessment" (DPIA). DPIA is an internal document of the service provider. DPIA is going to be approved by the DPO of the hosted institution and contains information about a process designed to identify risks arising out of the processing of personal data and to minimise these risks as far and as early as possible.