PSI Requirements Specification

Version 1.0

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Table of Contents

1.   Executive Summary

1.1   Project Overview

Nowadays companies are using Project Management Systems to increase the efficiency of the products. Some different projects may be running at the same time , so a proper software to fully organize and divide the work in the group is needed. Since several workers take part in each project , the application will play a critical role in creating reliable and high quality projects. We considered the possibility that a Project Management System is needed and is in demand for some companies or businesses .

1.2   Purpose and Scope of this Specification

PSIΨ Project Management System main purpose is to help in managing various projects in a company. It is designed to manage and store project information , as it allows easy management and tracking of several projects. It is an effective software system to help manage these activities in any project, so the primary goal is to ease the companies tasks division and management and also to make a complete project for everyday use , which confirms all demands and requirements of the client.

2.   Product/Service Description

2.1   Product Context

The context of the Software that we are creating is closely related to companies that need help in managing various projects. This Web based Project Management System can increase performance, productivity and efficiency within the teams. This application will be used by the team leader and also the team members , to have a better understanding and collaborating with each other.

2.2   User Characteristics

There is a total of two users :
1- Admin
2- User
User Profile : **Admin**
-This user will be logged in.
-Responsible for bug reports. (Support)
-Can access the users information.
-Has access to the projects.
-Can delete users.

User Profile : **User**
-Every user must register in order to use the application , with an email , username , password and birthday.
-After registering , or if he already has an account , the user can login using the username and the password.
-After login , the main page will be displayed , containing a button to Create a project , and also all the

projects all the user are shown there.

-If the user creates a project, the user can add members to the team.

→**Team Leader:**
-Assigns tasks (Description , File , Deadline)
-Posts Announcements
-Adds and Removes members.
-Views the progress of the tasks. (To Do / Done)

→**Team Member:**
-Can view all the tasks. (To Do / Done)
-Comment in the chatbox.
-Can request deadline extension.

2.3 **Assumptions**

It is assumed that most of students have at least one project to a group of students. Also, it's assumed that every student has at least a PC or a laptop to work with. It is assumed that everyone in the group has a work to do and should make it in time. In addition, it is assumed that the user has a persistent network connection, otherwise it won't work.

2.4 **Constraints**

The system will be potentially constrained by:

• The fact that every member of the group should have access to internet at the time they are posting in PSI.

• If the user has any problems with the login part they should contact support team.

• Users should have PC or a laptop to work with.

2.5 **Dependencies**

Dependencies that affect therequirements are:
This web is dependent on the fact that users and admin are connected to the internet.

3. Requirements

3.1 Functional Requirements

PMS- (Project Management System Requirements) Pertains to the general requirements.

Req#	Requirement	Comments	Priority	Date Rvwd	SME Reviewed / Approved
PMS_01	The system supports the idea of **users**. Each user has a name and a password. Users also a set of attributes like email, phone number etc.		1		
PMS_02	The system will determine the functionalities provided to the user according to the **user role** after authentication.		1		
PMS_03	Predefined user roles Administrator - Full control over the system. Project Leader/Manager - Control over project related functionalities. Project Member - View/Update given tasks.		2		
PMS_4	The system shall provide the user with the ability to change their password and update the change.	.	1		
PMS_5	The system shall provide certain user roles (Administrator/Team Leader) with the ability to change and update permissions for specific user roles.		1		
PMS_6	The system shall support the idea of a **user profile.** The user profile The system's user-specific customizable parameters are contained in the user profile. The user profile can be related to only one user.		1		
PMS_7	The system must enable the user to edit his profile and update changes.		1		
PMS_8	User will login to the system by using their name and password before they can interact with the system. The user is not allowed to login in the password is incorrect or in the case the user is not registered. If the user is		1		

Req#	Requirement	Comments	Priority	Date Rvwd	SME Reviewed / Approved
	authenticated successfully he/she will be presented with a GUI customized according to their user role and projects.				
PMS_9	The system shall provide a new user will the ability to register. If registration fails due to account already existing or format not matching the one specified by the system an error message will be displayed accordingly. If the registration is successful the user will be redirected to his dashboard.				
PMS_10	The system shall provide authorized user the ability to view current list of projects he is involved in.		1		
PMS_11	The system shall provide authorized user permission to apply certain filters when viewing current list of projects.		2		
PMS_12	The system shall provide authorized user ability to create a new project, specify certain attributes of the project and add member/s to it. The project name must be different from projects the user is already associated with. The project will be empty upon creation.		1		
PMS_13	The system shall provide authorized user permission to edit selected projects attributes and members.		1		
PMS_14	The system shall provide authorized user permission to delete selected project only if he is the assigned the Team Leader role for that project. Otherwise an error will be display informing the user that the have insufficient privileges to complete that action.		1		
PMS_15	The system shall provide authorized user the ability to export the selected project to a file in a predefined format.		2		
PMS_16	The system shall provide		2		

Req#	Requirement	Comments	Priority	Date Rvwd	SME Reviewed / Approved
	authorized user permission to make announcements on the project if he has the Team Leader role for that project.				
PMS_17	The system shall provide authorized user permission to add or remove team members if the has the Team Leader role for that project.		1		
PMS_18	The system shall provide authorized user with the role Team Leader the ability to assign to tasks to member/s of the team for a specific project,.		1		
PMS_19	The system shall provide authorized user a dashboard for the provided project with features and permissions according to their role in the project.		1		
PMS_20	The system shall provide authorized user the ability to update given tasks status to "done".		1		
PMS_21	The system shall provide authorized user permission to comment on an announcement made by the project management.		2		
PMS_22	The system shall provide the authorized user the ability to communicate with other members using the project chatbox.		3		
PMS_23	The system shall provide the authorized user the ability to add an estimated completion time for any task assigned.		3		
PMS_24	The system shall provide the authorized user the ability to create a report for a task.		2		

3.2 Non-Functional Requirements

3.2.1 User Interface Requirements

It will be a system represented by a web application, which can be accessed either with Mozilla, Chrome, Internet explorer or Safari. This will have a user interface that will be for the Students, businesses, Architectures, and whoever needs to manage a project properly. It will have some sections and services. On the first page there will

be a login button. The Login button will redirect to a simple login interface, where it will ask the user for Username and Password. The user will gain access to the system, in case of proven authenticity otherwise, an error message of wrong credentials will be displayed.

It will have 2 different users, Admin and User, User will be divided to Leader and member. A user can be leader at e project and member at another one, my default leader is the one creating the project. The user will have the first page which will be the names of the projects he/she is part of and a create project button. If he is a leader he will have 4 other pages , members , dashboard , announcement ,tasks.if he is an Admin he will be able to see a menu page that will provide him access to see users , project names , support , delete a user. If he is a user the first page will be same as leader he will have access to group members, his own tasks, his own dashboard, and announcements.

3.2.2 Usability

- The Web application is easy to understand and use.

- The application will be provided with a Document manual, showing a step by step

  information on how to successfully use the application.

- There will be an error message identifying the exact action that caused the error.

- The system is identified for certain users, thus the system will know, when a certain action is

  not permissible.

3.2.3 Performance

The system will be a web application which will be stored in a web server. The

application's execution time will be determined by:

- The efficiency of fetching data from database

- The bandwidth of Internet connection

- The capabilities of server's hardware

- The Operating System.

- The third-party libraries that need to be installed.

- The number of active users accessing the system.

3.2.3.1   Capacity

The system requires to be stored on a web server. The web application itself will have a maximum size of 100 MB. The database will be complex and large. However, the system is expected to work fine will every user logged in.

3.2.3.2   Availability

- The application will be available for use 24/7.

- The system will work in a best manner during the working hours of the day.

- The web application can be opened and used in any geographical area, as long as the user has an active Internet connection.

- By creating separate user sessions, while using the application, their overall work efficiency and productivity will not decrease by much.

- Specific error messages in case an action would cause systems fatal error, will be provided.

3.2.3.3   Latency

The latency of the web application will depend on:

- The bandwidth of internet connection

- The efficiency of fetching data from the database

- The database size.

Some other functions such as searching for users might take a longer time.

3.2.4   Manageability/Maintainability

3.2.4.1   Monitoring

The system user interface will be simple, and it will not provide cases that would crash the application. Needed actions for any of error will be taken. The input data must be valid input data. The user will log in the system, in case the user has entered valid credentials, otherwise an error message of "Wrong Credentials" will be showed.

3.2.4.2   Maintenance

The application will be created using MySQL for the database and Apache for the server.
In case the system crashes, the system is going to restart. During this process, the system will send the user to the dashboard, but the changes will be saved. If the problem continues, it is needed to contact the IT team so a full restart of the server can happen.

3.2.4.3   Operations

Some of the operations that can be taken by the users are:

- Upload a file
- Add a new member
- Delete a member
- Set deadlines

- Make announcements
- Let comments on the chat box
- Search for users
- Assign someone to a task

3.2.5 System Interface/Integration

The DB will provide to the users only as information. They can only modify the structure for their personal information . Admin will have access to the DB configuration. The system will take care of queries.

3.2.5.1 Network and Hardware Interfaces

The system is a web application that will be stored in a web server, so the browser will create a TCP connection with the server. Every browser supports this connection, so it will work correctly.

3.2.6 Security

3.2.6.1 Protection

The system security is important, since this is a private system. Security is added in every form that will make sure that everything entered is correct such as a correct name, correct surname, correct email address and correct password. The client will not be able to access the passwords.

3.2.6.2 Authorization and Authentication

- Correct credentials are checked when users log in.
- Authorization will be based on the type of users.
- Users will have access only to their information.
- Session to be used for the currently logged user.
- Using Cookies and PubCookie tool.

3.2.7 Data Management

The application might have a complex and large database and some of those classes are:
- Users
- Project
- Task
- taskComment
- Annauncement
- AnnouncementComment
- Chatbox

3.2.8 Standards Compliance

The application will be developed in such way that will follow and respect the rules and regulations lead to concrete requirements. In order to meet these requirements, organizations must

1. Define processes and operations.
2. Guarantee the availability of information.
3. Monitor processes and operations.
4. Establish an effective communications policy

These measures apply to organizations as well as small organizational units, or projects, The best way is to establish a so-called Compliance Management System and set up a workflow that helps you to meet standards, one that is independent from individual persons while at the same time supporting the work of individuals. This will help you to master audits, implement changes to your processes and operations and take advantage of the oppportunites compliance offers.

3.2.9 Portability

The application can be accessed via a browser and a internet connection.

3.2.10 Other Non-Functional Requirements

Please provide all necessary non-functional requirements, similar to the requirements explained in the lesson slides or in the textbook.

3.3 Domain Requirements

In our case   by choosing this topic of "Project Management System" we are part of the clients side as well , all students are part of the client side in this project but not only! This project can be used in field as: Business, Architecture, Marketing, School, etc… By saying this automatically we are the specialists, we know how a project is done , what is required to make a project efficient , finish it on time , and coordinating your group members perfectly!
So that's it! What a project need to be done is specifying:
1. Members of the group(keeping their emails, phones in case he need it)
2. Tasks assigned (to do or done , also the %of the tasks each have done to complete their own tasks)
3. Dashboard (watching the progress of the project, such as the % of the whole project completed)
4. Announcements (everybody can see the announcements of the leader and comment on the chat box)

4. User Scenarios/Use Cases

Failed Registration
- The user clicks on menu bar the Register button.
- The user is asked to enter input data: email, username, password, birthday.
- The input will be validated and in case of wrong input, requirements will be shown.

Successful Registration
- The user clicks on menu bar the Register button.
- The user is asked to enter input data: email, username, password, birthday.
- The input will be validated and if it is successful, a "Successful Registration successful" message will be shown.

Failed Login
- The user clicks on menu bar the Login button.
- The user is asked to enter input data: username and password.
- If the credentials are wrong, a message will be displayed.
- After 5 unsuccessful tries "Please wait a few minutes before you try again", will be shown and the login will be blocked for several minutes.

Successful Login
- The user clicks on menu bar the Login button.
- The user is asked to enter input data: username and password.
- The input will be validated and if it is successful, after the authentication, it will redirect to admin or user view, depending on the user role.

Create Project
- After successfully login in as a user, you can see a button "Create Project"
- You will be redirected to a form, where you can input: Project Title, Description.
- After clicking submit the project, the project will be added in the projects tab with the user with the role of Project Leader.

Opening Project
- After successfully login in as a user, your main page is Projects.
- If there is no projects linked to the user, "No Projects yet" message will be displayed.
- If there are projects, those will be displayed in a list.
- By clicking the project name you will be redirected to the Project's Announcement page.

Posting Announcement
- Team leader can post an announcement, by writing in Post Announcement window and clicking the button.
- The announcement will be displayed with the others in the page.

Project Leader adds Project Members
- After opening the project, the leader can click on the menu "Members".
- It will be redirected to a page, where it I can see a list of already joined members.
- Write username and click "+Add Member".
- If username doe not exist a message will be displayed.

Project Leader searchs Project Members
- After opening Members, in top of the page you can write the username and click search.
- The users, which fulfill the filter search will be shown in the list.

Project Leader removes Project Members
- In the Members's list, in the end of each row is a button "Remove".
- After clicking it the user will be removed from the project.

Project Leader assigns Tasks
- Opening Tasks tab, by clicking the button add Task a form will be shown.
- In this form task name, task description and the team member will be specified and submitted.
- The submitted task will be shown in Task page for team leader and team member.

Project Leader' Dashboard
- Dashboard page will show the progress of all assigned tasks.

Project Member completes Task
- As project member Task page will show the already assigned task from the project leader.
- Clicking on the task, it will show a page with more information for it.
- Clicking the "Done" button will complete the Task.

Users comment in Task
- In task can comment the Project Leader and Project Member, whose the task was assigned to.
- Writing in input text field and clicking Add Comment will post it.

Users comment in Announcement
- In announcement can comment the Project Leader and Project Member.
- Writing in input text field under the announcement and clicking Add Comment will post it.

Users writes in chatbox
- In chatbox in announcement page by writing in input field, the user can write to all group.
- Clicking the Button "Submit" will write it in the chat.

Admin search user
- In main page, click user information.
- This will show you a search input field.
- After writing the username and clicking the button "Search" it will provide the information for this user such as: username, email, birthday, phone.

Admin deletes user
- After searching user in User Information, in the and of row is a button "Delete"
- After clicking in it will remove, and the user will be able to log in with this account.

Admin search project
- In main page, click Project
- This will show you a search input field.
- After writing the project name and clicking the button "Search" it will provide the information for this project such as a list of members and its leader.

UC Name	*PMS_01 - User logs in*
Summary	*Each user has a name and a password.*
Dependency	*none.*
Actors	*Admin /User /Leader /*
Preconditions	*You should sign up to log in.*
Description of the Main Sequence	● *Each user has a name and a password.* ● *You should have an active email.*
Description of the Alternative Sequence	● *Users should have also a set of attributes like:* ● *Name* ● *Surname* ● *Phone number* ● *Address* ● *Email*
Non functional requirements	*Protection in added in every for that will make sure that everything entered is correct such as a valid name, valid surname, valid email and a valid password.*
Postconditions	*User is logged on his account.*

UC Name	*PMS_02 - Understanding Users and Roles*
Summary	*The system will determine the user role after authentication.*
Dependency	*PMS_01*
Actors	*Admin /User /Leader /*
Preconditions	*none*
Description of the Main Sequence	● *The system will determine the functionalities provided to the user according to the user role after authentication.* ● *User information is stored in the domain identity store.* ● *An anonymous user is a user whose credentials have not been validated*
Description of the Alternative Sequence	● *An enterprise group is a role that comprises users or other groups* ● *It can be defined in an application deployment descriptor*
Non functional requirements	*Valid credentials are checked when users log in.* *Users will have access only to their information.* *Session to be used for the currently logged user.*
Postconditions	*Understanding User's Role*

UC Name	PMS_03 - Predefined User roles
Summary	*The system will have predefined user roles such as (administrator, leader ,member, etc)*
Dependency	*none*
Actors	*Admin /User /Leader /Member/*
Preconditions	*none*
Description of the Main Sequence	● *Predefined user roles:* ● *Administrator* ● *Project Leader/Manger* ● *Project Member*
Description of the Alternative Sequence	● *Admin- Full Control over the system* ● *Leader- Control over project related functionalities.* ● *Member- View/Update given tasks.*
Non functional requirements	
Postconditions	*You can define your role.*

UC Name	PMS_04 - Editing
Summary	*Editing you profile*
Dependency	*PMS_03 & PMS_02*
Actors	*Admin /User /Leader /Member/*
Preconditions	*You should have already an account.* *Account should be active.*
Description of the Main Sequence	● *The system should provide the user with the ability to change their password.* ● *Update your profile.* ● *Make changes.*
Description of the Alternative Sequence	● *Reset User Passwords* ● *Force Password change at next Logon* ● *Problem occurs because Administrative Tools incorrectly evaluates user premissions.*
Non functional requirements	*Authorization will be based on the user type.* *Users will have access only to their information.* *The client will not be able to see the passwords.*
Postconditions	*You can change you password.*

UC Name	PMS_05 - Admin Functionality
Summary	The system shall provide certain user roles (Administrator/Team Leader) with the ability to change and update permissions for specific user roles
Dependency	PMS_1
Actors	Administrator
Preconditions	You should log in to be able to be the admin.
Description of the Main Sequence	● The Admin will be able to edit other user roles. ● Admin will be the only one accessing specific data.
Description of the Alternative Sequence	● Admin will also have a set of attributes like: ● Name ● Surname ● Phone number ● Address ● Email
Non functional requirements	• Authorization will be based on the type of users. • The system is identified for certain users, thus the system will know, when a certain action is not permissible.
Post conditions	Admin is able to manage the program correctly.

UC Name	*PMS_06 - User profile*
Summary	*The system shall support the idea of a user profile. The system's user-specific customizable parameters are contained in the user profile. The user profile can be related to only one user.*
Dependency	*PMS_1, PMS_2 ,PMS_3, PMS_4*
Actors	*User(member , leader)*
Preconditions	*You should log in as a user ,create a profile.*
Description of the Main Sequence	● *The user will be able to access his profile.* ● *He is permitted to access his profile only.*
Description of the Alternative Sequence	● *He can access his :* ● *Name* ● *Surname* ● *Phone number* ● *Address* ● *Email*
Non functional requirements	**4.3.1 System Interface/Integration** *The DB will provide to the users only as information. They can only modify the structure for their personal information . Admin will have access to the DB configuration. The system will take care of queries.*
Post conditions	*User will access his personal profile information*

UC Name	PMS_07 - User profile modification
Summary	The system must enable the user to edit his profile and update changes.
Dependency	PMS_1, PMS_2 ,PMS_3, PMS_4 ,PMS_6
Actors	User(member , leader)
Preconditions	You have to log in as a user and have a profile.
Description of the Main Sequence	● The user will be able to edit his profile. ● He is permitted to edit his personal profile only.
Description of the Alternative Sequence	● He can edit : ● Name ● Surname ● Phone number ● Address ● Email
Non functional requirements	**4.3.2 System Interface/Integration** The DB will provide to the users only as information. They can only modify the structure for their personal information . Admin will have access to the DB configuration. The system will take care of queries.
Post conditions	User will modify his personal profile information

UC Name	PMS_8 - User log in policy
Summary	User will login to the system by using their name and password before they can interact with the system. The user is not allowed to login in the password is incorrect or in the case the user is not registered. If the user is authenticated successfully he/she will be presented with a GUI customized according to their user role and projects.
Dependency	PMS_1, PMS_2
Actors	User/Admin
Preconditions	You have to log in using a valid name and password.
Description of the Main Sequence	- The user need to sign up in order to log in successfully. - He need a valid name and password. - He cannot log in if the password is incorrect. - After a successful log in he will be presented with the according first page and role.
Description of the Alternative Sequence	- He will be able to access his profile - He will be able to access a project according to his role on that project , ether member or leader.
Non functional requirements	4.3.2.1 Authorization and Authentication - Correct credentials are checked when users log in. - Authorization will be based on the type of users. - Users will have access only to their information. - Session to be used for the currently logged user. - Using Cookies and PubCookie tool.
Post conditions	User will successfully log in and be presented to the according page for his role.

UC Name	*PMS_13 – Edit Project*
Summary	*Edit A Projects Attributes*
Dependency	*PMS_03-2, PMS-10*
Actors	*Project Leader*
Preconditions	*Project Leader Role*
Description of the Main Sequence	● *Select a project and click on the edit option* ● *The user will be redirected to a page containing the attributes of the project.* ● *If the attribute is updated successfully a green message will be displayed to inform the user.* ● *If the attribute change is unsuccessful due to a possible unwanted interactivity with another attribute a red message will displayed to inform the user the change was not successful.*
Description of the Alternative Sequence	● *Open a certain projects dashboard. From there the user can click on the settings and will be redirected to the page containing the projects attributes.*
Non functional requirements	*System Availability*
Postconditions	*Updated Project Attributes*

UC Name	*PMS_14 – Delete Project*
Summary	*Delete A Certain Project*
Dependency	*PMS_03-2, PMS-10*
Actors	*Project Leader*
Preconditions	*Project Leader Role*
Description of the Main Sequence	● *Select a project and click on the delete option* ● *If the user has the required privileges (user role) a dialog box will pop up for the user to confirm the deletion process.* ● *If not, a red alert message will inform the user of the insufficient privileges to perform the action.*
Description of the Alternative Sequence	● *Open a certain projects dashboard. From there the user can on delete project option next to the settings.* ● *If the user has the required privileges (user role) a dialog box will pop up for the user to confirm the deletion process.* ● *If not, a red alert message will inform the user of the insufficient privileges to perform the action*
Non functional requirements	*System Availability*
Postconditions	*Deleted Project From The List Of Projects*

UC Name	*PMS_15 – Export project*
Summary	*Export Project To A File*
Dependency	*PMS_03, PMS-10*
Actors	*Users*
Preconditions	*Any User Role*
Description of the Main Sequence	*Enters the project dashboard* *Click on the Export option* *The user will be redirected to a page where they can specify the format of the file the project will be exported to.* *A dialogue box will show up where the user can set the directory they want the file to be saved to and the name.*
Description of the Alternative Sequence	
Non functional requirements	*System Availability*
Postconditions	*Project Exported In The Form Of A File*

UC Name	*PMS_16 – Post Announcement*
Summary	*Posting Announcement For A Project*
Dependency	*PMS_03-2, PMS-10*
Actors	*Team Leader*
Preconditions	*Team Leader Role*
Description of the Main Sequence	● *Enter the project dashboard* ● *The user can click on the Create Announcement option to make an announcement.* ● *A text field will appear where the Team Leader can write the announcement and a date field where the wanted date for the announcement can be specified.*
Description of the Alternative Sequence	
Non functional requirements	*System Availability*
Postconditions	*A New Announcement On The Announcement Page (Depends On Date Specified)*

UC Name	*PMS_17 - Manage Members*
Summary	*Add members in the current Project, remove member and edit information of members regarding project.*
Dependency	*PMS_03, PMS_12, PMS_13*
Actors	*Project Leader*
Preconditions	*Entering a project, in which user has the role of Project Leader*
Description of the Main Sequence	● *Open Project and click Members on the menu.* ● *It will be redirected to a page, where it I can see a list of already joined members.* ● *Write username and click "+Add Member".* ● *If username doe not exist a message will be displayed.* ● *In the Members's list, in the end of each row is a button "Remove". The user will be removed from the project.* ● *In the Members's list, in the end of each row is a button "Edit". Project leader can edit position of member.*
Description of the Alternative Sequence	● *In top of the page you can write the username and click search.The users, which fulfill the filter search will be shown in the list. Then Project Leader can continue with edit/remove functions.*
Non functional requirements	*User input validation.*
Postconditions	*Updated members list of Project.*

UC Name	*PMS_18 - Assign Tasks*
Summary	*Assign tasks to the members in the current Project.*
Dependency	*PMS_03, PMS_12, PMS_13, PMS_17*
Actors	*Project Leader*
Preconditions	*Entering a project, in which user has the role of Project Leader. Already joined project members to assign tasks to.*
Description of the Main Sequence	● *Open Project and click Tasks on the menu.* ● *Click button "+Task".* ● *A form is displayed, in which you can input task name, task description and the project member and submit it.*
Description of the Alternative Sequence	● *A list of members is displayed to add, instead of writing the full username of project member in form.*
Non functional requirements	*User input validation.*
Postconditions	*Task will be displayed to Project Member personal tasks and to Project Leader's Project Tasks*

UC Name	*PMS_19 - Dashboard*
Summary	*Dashboard displays the progress of tasks depending of user role. Project Leader sees the progress of all tasks of projects and each member. Project member can see the progress of its own tasks.*
Dependency	*PMS_02, PMS_03, PMS_18*
Actors	*User/ Project Leader/ Project Member*
Preconditions	*Entered to a project, in which there are assigned tasks to project members.*
Description of the Main Sequence	● *Open Project and click Dashboard on the menu.* ● *For user with role Project Leader, it will show the progress of tasks: in progress or completed.* ● *It will also show the progress of each Project Member*
Description of the Alternative Sequence	● *Open Project and click Dashboard on the menu.* ● *For user with role Project Member, it will show the progress of its own tasks: in progress or completed.*
Non functional requirements	
Postconditions	*Project Leader can see the progress of all group.* *Project Member can see the progress of its own work.*

UC Name	*PMS_20 - Task Completion*
Summary	*Dashboard displays the progress of tasks depending of user role. Project Leader sees the progress of all tasks of projects and each member. Project member can see the progress of its own tasks.*
Dependency	*PMS_02, PMS_03, PMS_18,*
Actors	*User/ Project Member*
Preconditions	*Entered to a project , in which the role is Project Member and there are assigned tasks to be completed by Project Members.*
Description of the Main Sequence	● *Open Project and click Tasks on the menu.* ● *Select the task.* ● *There can see the task information and a button "Done".* ● *Clicking the button will complete the task.*
Description of the Alternative Sequence	● *The project member can search by task name to find it.*
Non functional requirements	*User input validation in search filter.*
Postconditions	*Task will be updated to completed to the project member and project leader. It will also update the dashboard.*

UC Name	*PMS_21 – Announcement Comment*
Summary	*Project Leader posts an Announcement . All the members of the project can comment on this Announcement.*
Dependency	*PMS_02, PMS_03, PMS_16*
Actors	*User/ Project Leader /Project Member*
Preconditions	*An Announcement is previously done by the team leader of the certain project.*
Description of the Main Sequence	● *Open Project and click Announcements on the menu.* ● *Select the announcement.* ● *There you can see the announcement , a text area , and a "Comment" button.* ● *Clicking on the text area will allow you to comment on the announcement.* ● *Pressing "enter" on keyboard or clicking the "Comment" button will post the comment.*
Description of the Alternative Sequence	
Non functional requirements	*Input validation.*
Postconditions	*The comment will be posted under the Announcement. It will be visible to all the project members.*

UC Name	*PMS_22 – Chatbox*
Summary	*Members can communicate with each other using the project chatbox , so the user can write to all members of the group.*
Dependency	*PMS_02, PMS_03*
Actors	*User/ Project Leader /Project Member*
Preconditions	*The user must be part of the team to access the chatbox.*
Description of the Main Sequence	*Open Project and click Announcements on the menu.* *There you can see the Chatbox , including an input text field and a "Send" button.* *Go to the input text area and type your message.* *Press "Enter" or Click "Send" button to send the message.*
Description of the Alternative Sequence	
Non functional requirements	*Input validation.*
Postconditions	*The message will be sent to all the members of the team. The other members can reply .*

UC Name	*PMS_23 – Task Completion Time*
Summary	*The Project Member inputs the time he needs to complete the given task.*
Dependency	*PMS_02, PMS_03, PMS_12*
Actors	*Project Member*
Preconditions	*The task is assigned to the Project Member by the Project Leader.*
Description of the Main Sequence	● *Open Project and click Task on the menu.* ● *Select the task.* ● *There you can see the task ,a date input field , and a button "Change Time".* ● *Clicking on the date you can choose the estimated time , then clicking on the button will update the time.*
Description of the Alternative Sequence	
Non functional requirements	*Input validation.*
Postconditions	*The estimated completion time for the given task is added. It will be visible to the team leader.*

UC Name	*PMS_24 – Report*
Summary	*After finishing a task , the Project Member creates a report for the task.*
Dependency	*PMS_02, PMS_03, PMS_12*
Actors	*Project Member*
Preconditions	*The task is assigned to the member by the leader, and it is finished by the member.*
Description of the Main Sequence	• *Open Project and click Task on the menu.* • *Select the task .* • *There you can see the "+Create a report" Button.* • *Clicking in the button will allow you to upload a file from your documents.* • *After you upload the report file a button "Submit" will appear.* • *Clicking the button will post the report.*
Description of the Alternative Sequence	
Non functional requirements	
Postconditions	*The report will be reviewed by the Project leader.*