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# **Software Requirements Specification**

**For**

## **FYP Repository**

**Version 1.0**

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## **Revision History**

<b>Name</b>	<b>Date</b>	<b>Reason For Changes</b>	<b>Version</b>

## **1. Introduction**

This Software Requirements Specification (SRS) document identifies the requirements for the project “FYP Repository”. In this section we will discuss purpose, scope, definitions, abbreviations, references and overview of the project.

### **1.1 Purpose**

The purpose of this document is to give a thorough description of the requirements for the “FYP Repository” web portal. It will illustrate the purpose and complete declaration for the development of the portal. In addition to this, the document provides information regarding system interfaces, user interface, constraints, quality attributes, hardware and software requirements mainly the functional and non- functional requirements. Also this document states who the users of the system are and how these end users will interact with the system through its interfaces.

### **1.2 Scope**

FYP Portal project focuses on automated system. The system is a portal used for the Automation of the processes associated with the management of final year projects. The system will provide a platform to students, supervisors and project committee (PC) to communicate easily during all the vital processes of final year project, commencing from the allocation of project by supervisors to students and evaluation of students from project committee (PC) down to the final clearance of the student after the project defense

All the modules and features given below are from the perspective of FYP Portal.

#### **1.2.1 User Management**

User can be a student, supervisor and PC member that will use the system.

- a. Add User
- b. Delete User
- c. Login
- d. Forget password
- e. Reset password

#### **1.2.2 Project Management**

- a. Upload projects
- b. Assign projects to students
- c. De-assign projects
- d. Acquire project
- e. Track progress of projects currently develop
- f. Search project by title
- g. Search project by batch code
- h. View assigned project list
- i. Create group of students

### **1.2.3 Notification Management**

- a. Add notification related to projects.
- b. Update notification.
- c. Delete notification.
- d. View all projects notification.
- e. Set time to upload milestone
- f. Update time to upload milestone
- g. Send message
- h. Send email

### **1.2.4 Evaluation Management**

- a. Evaluate student
- b. Open document for evaluation
- c. Select verdict
- d. Add evaluation remarks
- e. Update remarks
- f. Delete remarks
- g. View remarks
- h. User get feedback
- i. Upload milestone

### **1.2.5 Schedule Management**

- a. Create schedule.
- b. Update schedule.
- c. View schedule.
- d. Nominate External to a specific project

### 1.3 Definitions, Acronyms and Abbreviations

**Table 1.3.1 Definitions**

Terms	Definitions
FR	Functional Requirements
NFR	Non Functional Requirements
SRS	Software Requirement Specification
PC	Project Committee
FYP	Final Year Project
Asp.Net	(Active server pages)Server Side Web application framework produced dynamic web pages.
DB	Database
AI	Artificial Intelligence
UC	Use Case

### 1.4 References

- [www.ciitfyp.com](http://www.ciitfyp.com)
- IEEE Recommended Practice for Software Requirements Specifications.
- Sommerville. Software Engineering (6th Edition). Addison Wesley, 2005. Document.
- Roger S. Pressman: Software Engineering A Practitioner's Approach (7th Edition)

### 1.5 Overview

SRS document is divided into two sections. The second section contains the overall description and background of this system. This section includes system functions, information about users, constraint and assumption of the system. The second section i.e. third section and forth are more detailed description of how the system should be implemented and which features must exist. This

section is basically to support the designers and developers in designing and implementing this system respectively. It gives clear information about functional and non-functional requirements. It also helps the testers for validating the system requirements.

## **2. Overall Description**

### **2.1 Product Perspective**

The system is an upgrade of currently used FYP Portal developed by FYP students last year. So it's an upgrade or related version of an already built system. Proposed system is extracted from this existing system however some optimizations, improvements and enhancements are required by the relevant stakeholders.

### **2.2 Product Functions**

FYP automation system focuses on the paper free work. Students will be able to submit their documents and work online within the given deadlines. PC Members and Supervisor can view student's work online, grade their work, make changes if any, send notifications and can communicate with the students.

### **2.3 User Characteristic**

Following are the types of users of our proposed system

- Administrator
- PC Convener
- Supervisors
- Students
- Students will be able to take projects online and communicate with the supervisor through this web portal.
- Students can submit all the required documents like Scope, SRS and SDS online.
- Supervisors can check and mark documentations and uploaded materials.
- Provision of online communication and feedback.
- Project committee can keep track of the progress of project of a particular student.

### **2.4 Constraints**

- System shall authenticate validity of usernames and passwords.
- Development in limited time.

## 2.5 Assumptions and dependencies

Users know how to use a system. To use the system internet connection is required. Admin is already created in the system. See section 4 for more details.

## 3. Use Case(s)

<b>Use Case ID:</b>	UC-1
<b>Use Case Name:</b>	Login
<b>Actors:</b>	Administrator, Supervisor, Student ,Project Committee
<b>Description:</b>	The purpose of this use case is that users have privacy to login on portal. User can b login by entering user id and password.
<b>Trigger:</b>	The user clicks on “Login” button to login.
<b>Preconditions:</b>	User will be registered and have user id and password to login the portal.
<b>Post conditions:</b>	User will be logged in.
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User selects login</li> <li>2. Login screen appears.</li> <li>3. User enters user id.</li> <li>4. User enter password.</li> <li>5. User clicks on Login button.</li> <li>6. User’s home page will display.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	User id or password will not match.
<b>Includes:</b>	Forget password Use case.
<b>Special Requirements:</b>	N/A
<b>Assumptions:</b>	N/A
<b>Notes and Issues:</b>	N/A



<b>Use Case ID:</b>	UC-2	
<b>Use Case Name:</b>	Forget Password	
<b>Actors:</b>	Admin, Supervisor, Student ,Project Committee	
<b>Description:</b>	The purpose of this use case is that users can change password in case of forget password.	
<b>Trigger:</b>	The user clicks on “Forget password” button to change password.	
<b>Preconditions:</b>	User will be registered and have user id and password to login the portal. If password will not match then click on forget password button.	
<b>Post conditions:</b>	User will have changed the password.	
<b>Normal Flow:</b>	Login screen appears. 1. User enters user id. 2. User enter password. 3. Password not match. 4. User clicks on forget password button. 5. A forget password screen will display. 6. Enter email address. 7. Enter code from email that user have received. 8. Password will be changed.	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	Password will not match.	
<b>Includes:</b>	N/A	
<b>Special Requirements:</b>	N/A	
<b>Assumptions:</b>	N/A	
<b>Notes and Issues:</b>	N/A	

<b>Use Case ID:</b>	UC-3	
<b>Use Case Name:</b>	Enter Code	
<b>Actors:</b>	Supervisor, Student ,Project Committee	
<b>Description:</b>	The purpose of this use case is that when the user forgets the password the system will generate a random code which to be entered by user at the time of creating new password.	
<b>Trigger:</b>	The user clicks on “Enter code” button.	
<b>Preconditions:</b>	User have clicked forget password.	

<b>Post conditions:</b>	User will have entered code and verified.
<b>Normal Flow:</b>	Forget password screen appears. 1. User get code in his/her email address. 2. User enters code in text field. 3. User click Reset button to change password.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	Entered code is not match.
<b>Includes:</b>	Login Use case.
<b>Special Requirements:</b>	N/A
<b>Assumptions:</b>	N/A
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-4	
<b>Use Case Name:</b>	Reset Password	
<b>Actors:</b>	Admin, Supervisor, Student ,Project Committee	
<b>Description:</b>	The purpose of this use case is that when the user forgets the password user can reset the password after entering the code. A new reset password window will open.	
<b>Trigger:</b>	The user clicks on “Reset password” button.	
<b>Preconditions:</b>	User have clicked forget password and entered the given code.	
<b>Post conditions:</b>	User will have reset the password.	
<b>Normal Flow:</b>	Forget password screen appears. 1. User get code in his/her email address. 2. User enters code in text field. 3. User click Next button to change password. 4. Reset password screen will appear. 5. User enters new password. 6. User re-enters new password. 7. User clicks Ok button and the password will change.	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	Re-entered password not match.	
<b>Includes:</b>	Login Use case.	
<b>Special Requirements:</b>	Minimum password length will be eight characters.	
<b>Assumptions:</b>	N/A	
<b>Notes and</b>	N/A	

<b>Issues:</b>	
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<b>Use Case ID:</b>	UC-5	
<b>Use Case Name:</b>	Assign Projects to Students	
<b>Actors:</b>	Supervisor	
<b>Description:</b>	The purpose of this use case is that student request to a supervisor for project and supervisor assign the projects to particular student.	
<b>Trigger:</b>	Then supervisor assign the project by clicking on “Assign” button.	
<b>Preconditions:</b>	1. Student should be registered on portal.	
<b>Post conditions:</b>	1. Project is assigned to student.	
<b>Normal Flow:</b>	9. Student selects the project from uploaded list. 10. Student give information about his/her group that contain number of students. 11. Student send request to supervisor. 12. Supervisor assign project to student.	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	N/A	
<b>Includes:</b>	Get project form supervisor and Login Use case.	
<b>Special Requirements:</b>	N/A	
<b>Assumptions:</b>	N/A	
<b>Notes and Issues:</b>	There will be three students in a group for doing project or depend on project scope.	

<b>Use Case ID:</b>	UC-6	
<b>Use Case Name:</b>	Acquire Project form Supervisor.	
<b>Actors:</b>	Student (primary) Supervisor (secondary)	
<b>Description:</b>	The purpose of this use case is that student request to a supervisor for project and supervisor assign the projects to particular student.	
<b>Trigger:</b>	Student selects particular project by using “Request” button and the request goes to supervisor.	
<b>Preconditions:</b>	Student should be registered on portal.	
<b>Post conditions:</b>	Project is assigned to student.	

<b>Normal Flow:</b>	1. Student selects the project from uploaded list. 2. Student give information about his/her group that contain number of students. 3. Student send request to supervisor. 4. Supervisor assign project to student.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Includes:</b>	Assign projects to students and Login Use case.
<b>Special Requirements:</b>	N/A
<b>Assumptions:</b>	N/A
<b>Notes and Issues:</b>	There will be three students in a group for doing project or depend on project scope.

<b>Use Case ID:</b>	UC-7	
<b>Use Case Name:</b>	DE Assign Projects to Students	
<b>Actors:</b>	Supervisor (primary) Student (secondary)	
<b>Description:</b>	The purpose of this use case is supervisor de assign the projects to student.	
<b>Trigger:</b>	Then supervisor de assigns the project by clicking on “DE assign” button.	
<b>Preconditions:</b>	Student should be registered on portal.	
<b>Post conditions:</b>	Project is de assigned to student.	
<b>Normal Flow:</b>	1. Supervisor selects the particular project that has been assigned. 2. Clicks the de assign button. 3. Project will de assign to the student.	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	N/A	
<b>Includes:</b>	Login Use case.	
<b>Special Requirements:</b>	N/A	
<b>Assumptions:</b>	N/A	
<b>Notes and Issues:</b>	The same project will assign to other student.	

<b>Use Case ID:</b>	UC-8
<b>Use Case</b>	Search Project by Title

<b>Name:</b>	
<b>Actors:</b>	Supervisor, Student ,Project Committee
<b>Description:</b>	The purpose of this use case is that students, supervisor and PC can search projects by title of the projects.
<b>Trigger:</b>	The users write title in search field and click search button.
<b>Preconditions:</b>	User will be registered and login to the portal.
<b>Post conditions:</b>	User searched project by title and get associate information about project.
<b>Normal Flow:</b>	1. User will login. 2. User clicks on projects in menu bar. Projects page is opened. 3. User searches project by title and get associate project.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	There is no project related to this title.
<b>Includes:</b>	Upload projects Use case.
<b>Special Requirements:</b>	To insure that the title is searched by a user will lie in the list of projects.
<b>Assumptions:</b>	Project is uploaded on the portal.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-9
<b>Use Case Name:</b>	Search Project by Batch Code
<b>Actors:</b>	Supervisor, Student ,Project Committee
<b>Description:</b>	The purpose of this use case is that students, supervisor and PC can search projects by batch code of the projects.
<b>Trigger:</b>	The users write batch code in search field and click search button.
<b>Preconditions:</b>	User will be registered and login to the portal.
<b>Post conditions:</b>	User searched project by batch code and get associate information about project.
<b>Normal Flow:</b>	1. User will login. 2. User clicks on projects in menu bar. Projects page is opened. 3. User searches project by batch code and get associate project.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	There is no project related to this batch code.
<b>Includes:</b>	Upload projects Use case.
<b>Special Requirements:</b>	To insure that the batch code is searched by a user will lie in the list of projects.

<b>Assumptions:</b>	Project is uploaded on the portal.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-10	
<b>Use Case Name:</b>	Upload Project	
<b>Actors:</b>	Supervisor, Student ,Project Committee	
<b>Description:</b>	The purpose of this use case is that supervisor will upload project and project can be searched by date and title.	
<b>Trigger:</b>	The user will click on upload button to upload the project.	
<b>Preconditions:</b>	User will be registered and login to the portal.	
<b>Post conditions:</b>	Project will upload on the portal.	
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will login.</li> <li>2. User clicks on projects in menu bar. Projects page is opened.</li> <li>3. User add description in upload field and then clicks upload button.</li> <li>4. Project will upload.</li> </ol>	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	N/A	
<b>Includes:</b>	N/A	
<b>Special Requirements:</b>	N/A	
<b>Assumptions:</b>	Project is not uploaded on the portal.	
<b>Notes and Issues:</b>	N/A	

<b>Use Case ID:</b>	UC-11	
<b>Use Case Name:</b>	View Assigned Project List	
<b>Actors:</b>	Supervisor, Student ,Project Committee	
<b>Description:</b>	The purpose of this use case is that supervisor will upload project and a project will assign to number of students or a group that is created by supervisor.	
<b>Trigger:</b>	The user will click on view project list button to view the assigned list of project.	
<b>Preconditions:</b>	User will be registered and login to the portal and project list is maintained by user.	
<b>Post conditions:</b>	User have viewed the assigned project list.	
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will login.</li> <li>2. User clicks on view assigned list of project.</li> </ol>	

	3. List will display to user.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	Project list is not maintained by user.
<b>Includes:</b>	Assign Project
<b>Special Requirements:</b>	N/A
<b>Assumptions:</b>	Project list is maintained.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-12	
<b>Use Case Name:</b>	Create Group of Students	
<b>Actors:</b>	Supervisor	
<b>Description:</b>	The purpose of this use case is that supervisor will upload project and a project will assign a particular group that is created by supervisor.	
<b>Trigger:</b>	The user will click on Create Group button to Create group of student's in one project.	
<b>Preconditions:</b>	User will be registered and login to the portal.	
<b>Post conditions:</b>	User have created the group successfully.	
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User will login.</li> <li>2. User clicks on create group button.</li> <li>3. User Adds students by their names and registration no#.</li> <li>4. User assigns a group# to each group.</li> <li>5. User will assign the project to the group.</li> <li>6. Group will be created.</li> </ol>	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>		
<b>Includes:</b>	N/A	
<b>Special Requirements:</b>	N/A	
<b>Assumptions:</b>	N/A	
<b>Notes and Issues:</b>	N/A	

<b>Use Case ID:</b>	UC-13	
<b>Use Case Name:</b>	Add Notification	
<b>Actors:</b>	Administrator	

<b>Description:</b>	The purpose of this use case is that Administrator will add notifications related to FYP's when to submit the document or presentation declared by PC.
<b>Trigger:</b>	User will be required to click on "add notification" option to proceed.
<b>Preconditions:</b>	User will be registered and login to the portal to perform this action.
<b>Post conditions:</b>	User successfully adds notification.
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. Admin logged in.</li> <li>2. User clicks on add notification option</li> <li>3. User select option of all student to whom notifications should be sent</li> <li>4. User click on send button</li> <li>5. System sends notification</li> <li>6. Notification can be seen by only those users whose registration is done.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Includes:</b>	N/A
<b>Special Requirements:</b>	User must be logged in as Administrator.
<b>Assumptions:</b>	No notifications are available.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-14	
<b>Use Case Name:</b>	Update Notification	
<b>Actors:</b>	Administrator	
<b>Description:</b>	The purpose of this use case is that Administrator will update notifications related to FYP's when to submit the document or presentation declared by PC.	
<b>Trigger:</b>	User will be required to click on "update notification" option to proceed.	
<b>Preconditions:</b>	User will be registered and login to the portal to perform this action.	
<b>Post conditions:</b>	User successfully updates notification.	
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User accesses the update option.</li> <li>2. User selects the required milestone.</li> <li>3. User updates notifications on the portal.</li> </ol>	
<b>Alternative Flows:</b>	N/A	



<b>Exceptions:</b>	N/A
<b>Includes:</b>	N/A
<b>Special Requirements:</b>	User must be logged in as Administrator.
<b>Assumptions:</b>	Notifications are available.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-15	
<b>Use Case Name:</b>	Delete Notification	
<b>Actors:</b>	Administrator	
<b>Description:</b>	The purpose of this use case is that Administrator will delete notifications related to FYP's when to submit the document or presentation declared by PC.	
<b>Trigger:</b>	User will be required to click on "delete notification" option to proceed.	
<b>Preconditions:</b>	User will be registered and login to the portal to perform this action.	
<b>Post conditions:</b>	User successfully deletes notification.	
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User accesses the delete option.</li> <li>2. User selects the required milestone.</li> <li>3. User deletes notifications on the portal.</li> </ol>	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	N/A	
<b>Includes:</b>	N/A	
<b>Special Requirements:</b>	User must be logged in as Administrator.	
<b>Assumptions:</b>	Notifications are available.	
<b>Notes and Issues:</b>	N/A	

<b>Use Case ID:</b>	UC-16	
<b>Use Case Name:</b>	View Notification	
<b>Actors:</b>	Administrator, PC, Student, Supervisor	
<b>Description:</b>	The purpose of this use case is to view notifications related to FYP's when to submit the document or presentation declared by PC.	
<b>Trigger:</b>	User will be required to click on "view notification" option to proceed.	

<b>Preconditions:</b>	User will be registered and login to the portal to perform this action.
<b>Post conditions:</b>	User successfully views notification.
<b>Normal Flow:</b>	1. User accesses the view notification option. 2. User views notifications on the portal.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	No notifications are available.
<b>Includes:</b>	N/A
<b>Special Requirements:</b>	User must be logged in.
<b>Assumptions:</b>	Notifications are available.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-17
<b>Use Case Name:</b>	Upload Milestones for Evaluation
<b>Actors:</b>	Student
<b>Description:</b>	Students will upload their documents (e.g. Scope document/SRS/SDS/Presentation) in PDF format by entering in upload section of FYP Repository Portal. These documents will be automatically converted in word format after uploading and will open in evaluation section and PC will comment on it. Upload document will have Title, category (DB, Game, AI, mobile app, web app), skills used and format (.pdf, word). A time constraint for uploading document will automatically generate in which document should upload in given time otherwise portal will close for upload document.
<b>Trigger:</b>	User will be required to click on “upload” option to proceed.
<b>Preconditions:</b>	1. Internet is connected. 2. User must login to perform this function.
<b>Post conditions:</b>	User have uploaded document successfully.
<b>Normal Flow:</b>	1. User access the Documents section of the system. 2. The system displays all the options related to that section. 3. Submit your project document appears on screen. 4. User specifically upload the particular document. 5. The system validates the information and determines that validation is passed. 6. The system displays a dialog box to notify user about submission. 7. Success message will be shown and the milestone will be added for evaluation.

<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ul style="list-style-type: none"> <li>• Internet connectivity error may occur.</li> <li>• All the required field for uploading a document must be filled, else the error message will be displayed.</li> <li>• File is already uploaded.</li> </ul>
<b>Includes:</b>	Login Use case.
<b>Special Requirements:</b>	User must be logged in.
<b>Assumptions:</b>	The user must have the related knowledge to operate this task.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-18	
<b>Use Case Name:</b>	Set Time to Upload Milestone	
<b>Actors:</b>	Administrator	
<b>Description:</b>	Administrator will set time to upload the document (e.g. Scope/SRS/SDS).	
<b>Trigger:</b>	User will be required to click on Set Time option to proceed.	
<b>Preconditions:</b>	User have logged in.	
<b>Post conditions:</b>	User have set time successfully.	
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User access the set time section of the system.</li> <li>2. The system displays all the options related to that section.</li> <li>3. User selects set time to upload document.</li> <li>4. A new screen will open where user can set time (e.g. start time is 20/05/2015 to end time that will be 29/05/2015).</li> <li>5. User clicks save button to set time.</li> </ol>	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	N/A	
<b>Includes:</b>	Login Use case.	
<b>Special Requirements:</b>	User must be logged in.	
<b>Assumptions:</b>	The user must have the related knowledge to operate this task.	
<b>Notes and Issues:</b>	N/A	

<b>Use Case ID:</b>	UC-19	
<b>Use Case Name:</b>	Update Time to Upload Milestone	

<b>Actors:</b>	Administrator
<b>Description:</b>	Administrator will update time to upload the document (e.g. Scope/SRS/SDS).
<b>Trigger:</b>	User will be required to click on update Time option to proceed.
<b>Preconditions:</b>	User have logged in.
<b>Post conditions:</b>	User have updated time successfully.
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User access the update time section of the system.</li> <li>2. The system displays all the options related to that section.</li> <li>3. User selects update time to upload document.</li> <li>4. A new screen will open where user can update time (e.g. start time is 20/05/2015 to end time that will be 10/06/2015).</li> <li>5. User clicks save button to set time.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Includes:</b>	Login Use case.
<b>Special Requirements:</b>	User must be logged in.
<b>Assumptions:</b>	The user must have the related knowledge to operate this task.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-20	
<b>Use Case Name:</b>	Evaluate Student	
<b>Actors:</b>	PC	
<b>Description:</b>	PC will evaluate the student by checking document (e.g. Scope/SRS/SDS).	
<b>Trigger:</b>	User will be required to click on Evaluate student option to proceed.	
<b>Preconditions:</b>	User have logged in.	
<b>Post conditions:</b>	Student is evaluated successfully.	
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User access the Evaluation section of the system.</li> <li>2. The system displays all the options related to that section.</li> <li>3. User selects type of document.</li> <li>4. User will open the document.</li> <li>5. Select group# and then evaluation page will open.</li> </ol>	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	N/A	
<b>Includes:</b>	Select Group, Open document and select type document Use cases.	

<b>Special Requirements:</b>	User must be logged in.
<b>Assumptions:</b>	The user must have the related knowledge to operate this task.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-21	
<b>Use Case Name:</b>	Select Title	
<b>Actors:</b>	PC	
<b>Description:</b>	PC will select the title of the document (e.g. Scope/SRS/SDS) to evaluate the student.	
<b>Trigger:</b>	User will be required to click on select option to proceed.	
<b>Preconditions:</b>	User will be logged in.	
<b>Post conditions:</b>	Title is selected.	
<b>Normal Flow:</b>	1. User access the Evaluation section of the system. 2. The system displays all the options related to that section. 3. User selects title of document.	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	N/A	
<b>Includes:</b>	Evaluate Student Use case.	
<b>Special Requirements:</b>	User must be logged in.	
<b>Assumptions:</b>	The user must have the related knowledge to operate this task.	
<b>Notes and Issues:</b>	N/A	

<b>Use Case ID:</b>	UC-22	
<b>Use Case Name:</b>	Select Category	
<b>Actors:</b>	PC	
<b>Description:</b>	PC will select the category of the document (e.g. Scope/SRS/SDS) to evaluate the student.	
<b>Trigger:</b>	User will be required to click on select option to proceed.	
<b>Preconditions:</b>	User will be logged in.	
<b>Post conditions:</b>	Category is selected.	
<b>Normal Flow:</b>	1. User access the Evaluation section of the system. 2. The system displays all the options related to that section. 3. User selects category of document.	

<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Includes:</b>	Evaluate Student Use case.
<b>Special Requirements:</b>	User must be logged in.
<b>Assumptions:</b>	The user must have the related knowledge to operate this task.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-23
<b>Use Case Name:</b>	Select Group
<b>Actors:</b>	PC
<b>Description:</b>	PC will select the group number of students that PC will be able to evaluate.
<b>Trigger:</b>	User will be required to click on select option to proceed.
<b>Preconditions:</b>	User must be logged in.
<b>Post conditions:</b>	Group number is selected.
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User access the Evaluation section of the system.</li> <li>2. The system displays all the options related to that section.</li> <li>3. User selects group number from group drop down menu.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Includes:</b>	Evaluate Student Use case.
<b>Special Requirements:</b>	User must be logged in.
<b>Assumptions:</b>	The user must have the related knowledge to operate this task.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-24
<b>Use Case Name:</b>	Select Type of Document
<b>Actors:</b>	PC
<b>Description:</b>	PC will select the type of the document (e.g. Scope/SRS/SDS) to evaluate the student.
<b>Trigger:</b>	User will be required to click on select option to proceed.
<b>Preconditions:</b>	User have selected the group# of students.

<b>Post conditions:</b>	Document type is selected.
<b>Normal Flow:</b>	1. User access the Evaluation section of the system. 2. The system displays all the options related to that section. 3. User selects type of document.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Includes:</b>	Evaluate Student Use case.
<b>Special Requirements:</b>	User must be logged in.
<b>Assumptions:</b>	The user must have the related knowledge to operate this task.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-25	
<b>Use Case Name:</b>	Open Document for Evaluation	
<b>Actors:</b>	PC	
<b>Description:</b>	PC will open the uploaded document for evaluation (Document will be opened in word format) and will write comments on it.	
<b>Trigger:</b>	User will be required to click on ‘open’ option to proceed.	
<b>Preconditions:</b>	User have uploaded document successfully.	
<b>Post conditions:</b>	Document will open.	
<b>Normal Flow:</b>	1. User access the Documents section of the system. 2. The system displays all the options related to that section. 3. User open document appears on screen. 4. User makes correction online on the document. 5. User gives feedback where correction requires.	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	<ul style="list-style-type: none"> <li>Internet connectivity error may occur.</li> <li>All the required field for uploading a document must be filled, else the error message will be displayed.</li> </ul>	
<b>Includes:</b>	Login and Upload milestone Use case.	
<b>Special Requirements:</b>	User must be logged in.	
<b>Assumptions:</b>	The user must have the related knowledge to operate this task.	
<b>Notes and Issues:</b>	N/A	

<b>Use Case ID:</b>	UC-26
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<b>Use Case Name:</b>	Add Evaluation Remarks	
<b>Actors:</b>	PC, Supervisor	
<b>Description:</b>	PC will open the uploaded document for evaluation (Document will be opened in word format) and will write comments on it and PC verdicts the document by giving remarks as: <ul style="list-style-type: none"> <li>• Pass</li> <li>• Pass with minor changes</li> <li>• Major changes or</li> <li>• Fail</li> </ul>	
<b>Trigger:</b>	User will be required to click on ‘open document’ option to proceed.	
<b>Preconditions:</b>	User have uploaded document on the portal.	
<b>Post conditions:</b>	Document will open for evaluation and PC can add evaluation remarks on the portal.	
<b>Normal Flow:</b>	1. User access the Documents section of the system. 2. The system displays all the options related to that section. 3. User open document appears on screen. 4. User makes correction online on the document. 5. User gives feedback where correction requires. 6. User verdicts the document by giving remarks as: <ul style="list-style-type: none"> <li>• Pass (then make presentation)</li> <li>• Pass with minor changes (correct changes and then make presentation)</li> <li>• Major changes (resubmit document with correction of major changes within 7-days )</li> <li>• Fail (then choose another project)</li> </ul>	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	<ul style="list-style-type: none"> <li>• Internet connectivity error may occur.</li> <li>• All the required field for uploading a document must be filled, else the error message will be displayed.</li> <li>• Document is not opened.</li> </ul>	
<b>Includes:</b>	Evaluate student Use case.	
<b>Special Requirements:</b>	Users must be logged in and document should be uploaded within time.	
<b>Assumptions:</b>	Type of Document is selected and document is checked by user.	
<b>Notes and Issues:</b>	N/A	

<b>Use Case ID:</b>	UC-27
<b>Use Case Name:</b>	Select Verdict



<b>Actors:</b>	PC
<b>Description:</b>	PC will evaluate the student by selection verdict options (pass, pass with minor changes, major changes, fail).
<b>Trigger:</b>	User will be required to click on select radio option to proceed.
<b>Preconditions:</b>	User have selected the group# of students.
<b>Post conditions:</b>	User have selected verdict.
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User access the Evaluation section of the system.</li> <li>2. The system displays all the options related to that section.</li> <li>3. User selects type of document.</li> <li>4. User selects group#.</li> <li>5. User opens the document.</li> <li>6. User verdicts the document by giving remarks as: <ul style="list-style-type: none"> <li>• Pass (then make presentation)</li> <li>• Pass with minor changes (correct changes and then make presentation)</li> <li>• Major changes (resubmit document with correction of major changes within 7-days )</li> </ul> </li> </ol> <p>Fail (then choose another project)</p>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Includes:</b>	Evaluate Student Use case.
<b>Special Requirements:</b>	User must be logged in.
<b>Assumptions:</b>	The user must have the related knowledge to operate this task.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-28	
<b>Use Case Name:</b>	Save Evaluation Remarks	
<b>Actors:</b>	PC	
<b>Description:</b>	After adding evaluation remarks PC will save the remarks and commented document. Document will automatically save in PDF format.	
<b>Trigger:</b>	User will be required to click on ‘save remarks’ button to proceed.	
<b>Preconditions:</b>	User have add evaluation remarks of document on the portal.	
<b>Post conditions:</b>	PC will add evaluation remarks on the portal and result will be saved in DB.	
<b>Normal Flow:</b>	1. User verdicts the document by giving remarks as:	

	<ul style="list-style-type: none"> <li>• Pass (then make presentation)</li> <li>• Pass with minor changes (correct changes and then make presentation)</li> <li>• Major changes (resubmit document with correction of major changes within 7-days )</li> <li>• Fail (then choose another project)</li> </ul> <p>2. User clicks save button the result will save in DB.</p>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	<ul style="list-style-type: none"> <li>• Document is not saved.</li> </ul>
<b>Includes:</b>	Login and Add Evaluation Remarks Use case.
<b>Special Requirements:</b>	Users must be logged in and document should be uploaded within time. PC will evaluate the document successfully.
<b>Assumptions:</b>	PC have evaluated the document successfully.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-29	
<b>Use Case Name:</b>	Update Evaluation Remarks	
<b>Actors:</b>	PC	
<b>Description:</b>	User will reopen the document and will edit the remarks/comments on document.	
<b>Trigger:</b>	User will be required to click on ‘update remarks” button to proceed.	
<b>Preconditions:</b>	User have added evaluation remarks of document on the portal.	
<b>Post conditions:</b>	User will update evaluation remarks on the portal and result will be update in DB.	
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User access the Documents section of the system.</li> <li>2. The system displays all the options related to that section.</li> <li>3. User open document appears on screen.</li> <li>4. User makes correction online on the document.</li> <li>5. User gives feedback where correction requires.</li> <li>6. User verdicts the document by giving remarks as: <ul style="list-style-type: none"> <li>• Pass (then make presentation)</li> <li>• Pass with minor changes (correct changes and then make presentation)</li> <li>• Major changes (resubmit document with correction of major changes within 7-days )</li> <li>• Fail (then choose another project)</li> </ul> </li> <li>7. User clicks update button the result will update in DB.</li> </ol>	
<b>Alternative Flows:</b>		

	N/A
<b>Exceptions:</b>	<ul style="list-style-type: none"> <li>Document is not save and will not update.</li> </ul>
<b>Includes:</b>	Login, Add Evaluation Remarks, Save Evaluation Remarks Use case.
<b>Special Requirements:</b>	Users must be logged in and document should be uploaded within time. PC will evaluate the document successfully.
<b>Assumptions:</b>	PC have evaluated the document successfully.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-30	
<b>Use Case Name:</b>	View Evaluation Remarks	
<b>Actors:</b>	PC	
<b>Description:</b>	PC will add evaluation remarks and save the remarks. User can view instantly evaluation by login their accounts.	
<b>Trigger:</b>	User will be required to click on ‘view remarks’ button to proceed.	
<b>Preconditions:</b>	User have saved evaluation remarks of document in DB.	
<b>Post conditions:</b>	User will view evaluation remarks on the portal.	
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User access the Documents section of the system.</li> <li>2. The system displays all the options related to that section.</li> <li>3. User select view remarks button and result will appears on screen.</li> <li>4. User can get more feedback about his/her project after checking the evaluation result.</li> </ol>	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	<ul style="list-style-type: none"> <li>Evaluation result is not upload.</li> </ul>	
<b>Includes:</b>	Login Use case.	
<b>Special Requirements:</b>	N/A	
<b>Assumptions:</b>	PC have evaluated the document successfully.	
<b>Notes and Issues:</b>	N/A	

<b>Use Case ID:</b>	UC-31	
<b>Use Case Name:</b>	Delete Evaluation Remarks	
<b>Actors:</b>	PC	
<b>Description:</b>	PC will delete the saved document in case of wrong evaluation remarks.	
<b>Trigger:</b>	User will be required to click on ‘delete remarks’ button to proceed.	

<b>Preconditions:</b>	User have added evaluation remarks of document on the portal.
<b>Post conditions:</b>	User will delete evaluation remarks on the portal and result will be delete in DB.
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User access the Documents section of the system.</li> <li>2. The system displays all the options related to that section.</li> <li>3. User open document appears on screen.</li> <li>4. User clicks delete button the result will delete in DB.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	Document is not delete from DB.
<b>Includes:</b>	Login Use case.
<b>Special Requirements:</b>	Users must be logged in and document should be uploaded within time. PC will evaluate the document successfully.
<b>Assumptions:</b>	PC have evaluated the document successfully.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-32	
<b>Use Case Name:</b>	Create Schedule	
<b>Actors:</b>	Student, supervisor, PC	
<b>Description:</b>	User can schedule their activities by using calendar on the portal. User set reminder on specific date that reminds the user to perform particular task on same date or time.	
<b>Trigger:</b>	User will be required to click on ‘Create New Schedule’ button to proceed.	
<b>Preconditions:</b>	User have logged in and have got a notification regarding his/her project.	
<b>Post conditions:</b>	User have created schedule.	
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User logged in to his/her account.</li> <li>2. Select schedule option in the home page.</li> <li>3. User clicks save button then user’s schedule will create.</li> </ol>	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	N/A	
<b>Includes:</b>	Login, Set Reminder Use case.	
<b>Special Requirements:</b>	Users must be logged in and get notification to schedule it.	
<b>Assumptions:</b>	User have got notification.	
<b>Notes and Issues:</b>	N/A	

<b>Issues:</b>	
<b>Use Case ID:</b>	UC-33
<b>Use Case Name:</b>	Update Schedule
<b>Actors:</b>	Student, supervisor, PC
<b>Description:</b>	User set reminder on specific date that reminds the user to perform particular task. User will update the schedule when a new notification will come.
<b>Trigger:</b>	User will be required to click on ‘Update Schedule’ button to proceed.
<b>Preconditions:</b>	User have logged in and have got a notification regarding his/her project.
<b>Post conditions:</b>	User have updated schedule.
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User logged in to his/her account.</li> <li>2. Select schedule option in the home page.</li> <li>3. User clicks update button then user’s schedule will update.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Includes:</b>	Login, Set Reminder Use case.
<b>Special Requirements:</b>	Users must be logged in and get notification to schedule it.
<b>Assumptions:</b>	User have got notification.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-34
<b>Use Case Name:</b>	View Schedule
<b>Actors:</b>	Student, supervisor, PC
<b>Description:</b>	User can view the schedule that have been created by user.
<b>Trigger:</b>	User will be required to click on ‘view Schedule’ button to proceed.
<b>Preconditions:</b>	User have logged in.
<b>Post conditions:</b>	User have viewed schedule.
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User logged in to his/her account.</li> <li>2. Select schedule option in the home page.</li> <li>3. User clicks view button then user’s schedule will appear.</li> </ol>
<b>Alternative Flows:</b>	N/A

<b>Exceptions:</b>	N/A
<b>Includes:</b>	Login Use case.
<b>Special Requirements:</b>	N/A
<b>Assumptions:</b>	User have created schedule.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-35	
<b>Use Case Name:</b>	Set Reminder	
<b>Actors:</b>	Student, supervisor, PC	
<b>Description:</b>	User set reminder on specific date that reminds the user to perform particular task.	
<b>Trigger:</b>	User will be required to click on “Set” button to proceed.	
<b>Preconditions:</b>	User have logged in and have created a schedule.	
<b>Post conditions:</b>	User have set schedule.	
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User logged in to his/her account.</li> <li>2. Select schedule option in the home page.</li> <li>3. Select date from calendar to set reminder that user wants to perform particular activity.</li> <li>4. A window will appear when user clicks on date. User will write description about project in the same window that will open.</li> <li>5. User clicks save button then user’s schedule will update.</li> </ol>	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	N/A	
<b>Includes:</b>	N/A	
<b>Special Requirements:</b>	N/A	
<b>Assumptions:</b>	User have not set reminder.	
<b>Notes and Issues:</b>	N/A	

<b>Use Case ID:</b>	UC-36	
<b>Use Case Name:</b>	View Reminder	
<b>Actors:</b>	Student, supervisor, PC	
<b>Description:</b>	User set reminder on specific date that reminds the user to perform particular task and user will be able to view the reminder that has been set before.	

<b>Trigger:</b>	User will be required to click on “View” button to proceed.
<b>Preconditions:</b>	User have logged in and have created a schedule and have set a reminder.
<b>Post conditions:</b>	User have viewed reminder.
<b>Normal Flow:</b>	1. User logged in to his/her account. 2. Select schedule option in the home page. 3. User clicks on particular date then a reminder window will open.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	There is no reminder has set on particular date in calendar.
<b>Includes:</b>	N/A
<b>Special Requirements:</b>	N/A
<b>Assumptions:</b>	User have set reminder.
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-37
<b>Use Case Name:</b>	Send Message
<b>Actors:</b>	Student, PC, Supervisor
<b>Description:</b>	This requirement is used as a mode of communication between student, PC and supervisor.
<b>Trigger:</b>	User will be required to click on send button to proceed.
<b>Preconditions:</b>	User have logged in to perform this action.
<b>Post conditions:</b>	Message is sent successfully.
<b>Normal Flow:</b>	1. User clicks on inbox. 2. User selects send message option next to supervisor’s name 3. User types in the message and sends it.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Includes:</b>	N/A
<b>Special Requirements:</b>	N/A
<b>Assumptions:</b>	N/A
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-38
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<b>Use Case Name:</b>	Send Email
<b>Actors:</b>	PC, supervisor
<b>Description:</b>	This requirement is used as a mode of communication between PC and supervisor.
<b>Trigger:</b>	User will be required to click on send button to proceed.
<b>Preconditions:</b>	User have logged in to perform this action.
<b>Post conditions:</b>	Email is sent successfully.
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User clicks on inbox.</li> <li>2. User write email address of other user and write his/her email id in the text field.</li> <li>3. User types in the message field and click send email button.</li> <li>4. Email will send successfully.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	Unavailability of Email ID
<b>Includes:</b>	N/A
<b>Special Requirements:</b>	Availability of Email ID
<b>Assumptions:</b>	N/A
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-39
<b>Use Case Name:</b>	View Comment
<b>Actors:</b>	Student
<b>Description:</b>	This requirement is used to view the comments given by the PC members.
<b>Trigger:</b>	User will be required to click on “Remarks” option to proceed.
<b>Preconditions:</b>	User have logged in to perform this action.
<b>Post conditions:</b>	User have successfully viewed the comments
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User accesses the Remarks option.</li> <li>2. User selects the required milestone.</li> <li>3. User clicks on view comments option next to the project name to view.</li> </ol>
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	No comments are available



<b>Includes:</b>	N/A
<b>Special Requirements:</b>	User must be logged in as student.
<b>Assumptions:</b>	N/A
<b>Notes and Issues:</b>	N/A

<b>Use Case ID:</b>	UC-40	
<b>Use Case Name:</b>	Give Feedback	
<b>Actors:</b>	PC, supervisor	
<b>Description:</b>	This requirement is used to give feedback from the PC members.	
<b>Trigger:</b>	User will be required to click on “Give Feedback” option to proceed.	
<b>Preconditions:</b>	User have logged in to perform this action.	
<b>Post conditions:</b>	User have successfully gave feedback	
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User accesses the Feedback option.</li> <li>2. User selects the required milestone.</li> <li>3. User clicks on give feedback option and the user will be able to view comment.</li> </ol>	
<b>Alternative Flows:</b>	N/A	
<b>Exceptions:</b>	N/A	
<b>Includes:</b>	N/A	
<b>Special Requirements:</b>	User must be logged in.	
<b>Assumptions:</b>	N/A	
<b>Notes and Issues:</b>	N/A	

<b>Use Case ID:</b>	UC-41	
<b>Use Case Name:</b>	Track Progress of Projects	
<b>Actors:</b>	Supervisor	
<b>Description:</b>	This requirement is used to keep track progress of the projects that were assigned to students.	
<b>Trigger:</b>	User will be required to click on “View result” option to proceed.	
<b>Preconditions:</b>	User have logged in to perform this action.	
<b>Post conditions:</b>	User have kept track progress of project.	
<b>Normal Flow:</b>	<ol style="list-style-type: none"> <li>1. User accesses the view result option.</li> <li>2. User selects the required milestone.</li> </ol>	

	3. Result will be displayed on screen.
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	Result not found
<b>Includes:</b>	N/A
<b>Special Requirements:</b>	User must be logged in.
<b>Assumptions:</b>	Evaluation result has been declared.
<b>Notes and Issues:</b>	N/A

## 4. Specific Requirements

### 4.1 Functionality

#### 4.1.1 Functional Requirement 1

<b>Identifier</b>	FR1
<b>Title</b>	Log in
<b>Requirement</b>	Users give registration no and password to log into the system.
<b>Source</b>	Project Committee
<b>Rationale</b>	Users will have privacy.
<b>Restrictions and Risk</b>	Users must be registered.
<b>Dependencies</b>	All
<b>Priority</b>	High

#### 4.1.2 Functional Requirement 2

<b>Identifier</b>	FR2
<b>Title</b>	Forget Password
<b>Requirement</b>	System will allow the users to reset the forget password. User will click on “Forget Password” link in login tab.
<b>Source</b>	Project Committee
<b>Rationale</b>	If users have multiple accounts on different websites they may forget password.
<b>Restrictions and Risk</b>	No
<b>Dependencies</b>	FR3
<b>Priority</b>	High

#### 4.1.3 Functional Requirement 3

<b>Identifier</b>	FR3
<b>Title</b>	Enter Code
<b>Requirement</b>	When the user forgets the password the system will generate a random code which is to be entered by the user

	at the time of creating new password.
Source	Project Committee
Rationale	Privacy policies of our system must be fulfilled.
Restrictions and Risk	A valid code generated by the system should be entered by the user to access the functionality of creating new password.
Dependencies	FR4
Priority	High

#### 4.1.4 Functional Requirement 4

Identifier	FR4
Title	Reset Password
Requirement	When user enter the code system will navigate the user to a new page where user will enter new password and also re-enter the new password.
Source	Project Committee
Rationale	Due to some security reasons (for example user may suspect that someone uses his/her account) user may reset the password.
Restrictions and Risk	No
Dependencies	No
Priority	High

#### 4.1.5 Functional Requirement 5

Identifier	FR5
Title	Assign Projects
Requirement	Supervisor will assign the project to students.
Source	Project Supervisor
Rationale	Projects are mandatory for completion of Bachelor degree programs for students.
Restrictions and Risk	One project can assign to one particular group of students.
Dependencies	FR7
Priority	High

#### 4.1.6 Functional Requirement 6

Identifier	FR6
Title	Acquire project from supervisor
Requirement	When the student selects a project from an uploaded list then the system will get information about group members of the project and will send the request to supervisor for project supervision meanwhile the system will automatically set a time period of 30 minutes for project reservation.
Source	Project Committee
Rationale	Student is interested in doing a particular project from a specific supervisor.
Restrictions and Risk	In case if student fails to meet the supervisor within the given time constraint (30 mins.) then the system will cancel the reservation of project.

Dependencies	No
Priority	High

#### 4.1.7 Functional Requirement 7

Identifier	FR7
Title	De-assign Projects
Requirement	System will de-assign the project if supervisor click on 'De-assign' button.
Source	Project Committee
Rationale	No
Restrictions and Risk	No
Dependencies	FR2
Priority	Medium

#### 4.1.8 Functional Requirement 8

Identifier	FR8
Title	Search Project by Title
Requirement	Users can search a particular project by giving title of project in search field.
Source	Project Committee
Rationale	Easily find a particular project.
Restrictions and Risk	Title should be define properly to search a particular project.
Dependencies	No
Priority	High

#### 4.1.9 Functional Requirement 9

Identifier	FR9
Title	Search Project by Batch code
Requirement	When users want to search previous projects, they will enter batch code in the search field and system will display a list of projects which were assigned in that batch.
Source	Portal users
Rationale	Users want to know about previous projects.
Restrictions and Risk	
Dependencies	No
Priority	Medium

#### 4.1.10 Functional Requirement 10

Identifier	FR10
Title	Upload Projects
Requirement	Supervisor will upload the project for the students.
Source	Project Supervisor
Rationale	Supervisors want students to do projects proposed by him.
Restrictions and Risk	No
Dependencies	FR6,FR8, FR9
Priority	High

**4.1.11 Functional Requirement 11**

Identifier	FR11
Title	View assigned Project list
Requirement	Users view assigned project list by clicking on “view assigned projects” button. When on project is assigned and the project will be listed in list of project.
Source	Project Committee
Rationale	User wants to see the list of assigned projects.
Restrictions and Risk	There will not information of unassigned projects.
Dependencies	No
Priority	High

**4.1.12 Functional Requirement 12**

Identifier	FR12
Title	Create Group
Requirement	The purpose of this use case is that supervisor will upload project and a project will assign a particular group that is created by supervisor.
Source	Project Committee
Rationale	During evaluation PC will select group# not individual registration# of student.
Restrictions and Risk	No
Dependencies	No
Priority	High

**4.1.13 Functional Requirement 13**

Identifier	FR13
Title	Add Notifications
Requirement	Administrator will add notifications.
Source	Project Committee
Rationale	Notifications keep users up-to-date.
Restrictions and Risk	Notifications must be approved by Administrator.
Dependencies	FR1
Priority	High

**4.1.14 Functional Requirement 14**

Identifier	FR14
Title	Update Notifications
Requirement	Administrator can modify the notifications.
Source	Project Committee
Rationale	Valid Information should display.
Restrictions and Risk	No
Dependencies	FR7
Priority	High

**4.1.15 Functional Requirement 15**

Identifier	FR15
Title	Delete Notification
Requirement	Administrator can delete notifications.
Source	Project Committee
Rationale	No duplication of notifications.
Restrictions and Risk	Two same notifications can be entered.
Dependencies	FR7
Priority	High

#### 4.1.16 Functional Requirement 16

Identifier	FR16
Title	View Notification
Requirement	Users (Administrator, Students, PC, and Supervisors) can view notifications.
Source	Project Committee
Rationale	Users want to get updates by notifications
Restrictions and Risk	No
Dependencies	No
Priority	High

#### 4.1.17 Functional Requirement 17

Identifier	FR17
Title	Upload Milestones for Evaluation
Requirement	Students will upload their documents (e.g. Scope document/SRS/SDS/Presentation) in PDF format by entering in upload section of FYP Repository Portal. These documents will be automatically converted in word format after uploading and will open in evaluation section and PC will comment on it.
Source	Project Committee
Rationale	
Restrictions and Risk	No
Dependencies	FR13
Priority	High

#### 4.1.18 Functional Requirement 18

Identifier	FR18
Title	Set time to upload milestone
Requirement	Administrator will set time to upload the document (e.g. Scope/SRS/SDS).
Source	Project Committee
Rationale	Each document have a deadline to submit.
Restrictions and Risk	No
Dependencies	No
Priority	High

#### 4.1.19 Functional Requirement 19

Identifier	FR19
------------	------

Title	Update time to upload milestone
Requirement	Administrator will update time to upload the document (e.g. Scope/SRS/SDS).
Source	Project Committee
Rationale	Each document have a deadline to submit.
Restrictions and Risk	No
Dependencies	No
Priority	High

#### 4.1.20 Functional Requirement 20

Identifier	FR20
Title	Evaluate Student
Requirement	PC will evaluate the student of his/her project on the portal.
Source	Project Committee
Rationale	Evaluate the students on the portal.
Restrictions and Risk	User login
Dependencies	No
Priority	High

#### 4.1.21 Functional Requirement 21

Identifier	FR21
Title	Select Title
Requirement	PC will select Title of project before evaluation
Source	Project Committee
Rationale	PC will evaluate the students
Restrictions and Risk	No
Dependencies	No
Priority	High

#### 4.1.22 Functional Requirement 22

Identifier	FR22
Title	Select Category
Requirement	PC will select category of project before evaluation
Source	Project Committee
Rationale	PC will evaluate the students
Restrictions and Risk	No
Dependencies	No
Priority	High

#### 4.1.23 Functional Requirement 23

Identifier	FR23
Title	Select Group
Requirement	PC will select group# to evaluate the student.
Source	Project Committee
Rationale	PC selects group of students for evaluation

Restrictions and Risk	User have selected Title of project.
Dependencies	No
Priority	High

**4.1.24 Functional Requirement 24**

Identifier	FR24
Title	Select Type of Document
Requirement	PC will select the type of the document (e.g. Scope/SRS/SDS) to evaluate the student.
Source	Project Committee
Rationale	PC selects Type of document for evaluation
Restrictions and Risk	User have selected Title and group#.
Dependencies	No
Priority	High

**4.1.25 Functional Requirement 25**

Identifier	FR25
Title	Open Document for evaluation
Requirement	PC will open the uploaded document for evaluation (Document will be opened in word format) and will write comments on it.
Source	Project Committee
Rationale	.No
Restrictions and Risk	No
Dependencies	FR14
Priority	High

**4.1.26 Functional Requirement 26**

Identifier	FR20
Title	Add Evaluation Remarks
Requirement	Project Committee members log into the system and evaluate the students instantly. For example students are giving presentation for scope document meanwhile PC will be evaluating the students by adding evaluation remarks (e.g. major revision, minor change, ok with minor changing, and ok to proceed) and also PC can comment on uploaded milestone.
Source	Project Committee
Rationale	.Instant Evaluation
Restrictions and Risk	No
Dependencies	FR15
Priority	High

**4.1.27 Functional Requirement 27**

Identifier	FR27
Title	Select Verdict
Requirement	PC will evaluate the student by selection verdict options (pass, pass with minor changes, major changes, fail).



Source	Project Committee
Rationale	PC will evaluate the students
Restrictions and Risk	User have opened the document.
Dependencies	No
Priority	High

#### 4.1.28 Functional Requirement 28

Identifier	FR28
Title	Save Evaluation Remarks
Requirement	After adding evaluation remarks PC will save the remarks and commented document. Document will automatically save in PDF format.
Source	Project Committee
Rationale	.No
Restrictions and Risk	No
Dependencies	FR16,FR17,FR18
Priority	High

#### 4.1.29 Functional Requirement 29

Identifier	FR29
Title	Update Evaluation Remarks
Requirement	PC will reopen the document and will edit the remarks/comments on document.
Source	Project Committee
Rationale	.No
Restrictions and Risk	Document must be saved before updating.
Dependencies	No
Priority	High

#### 4.1.30 Functional Requirement 30

Identifier	FR30
Title	View Evaluation Remarks
Requirement	Users will view the remarks when PC save the review document.
Source	Project Committee
Rationale	.Users wants to see the result of a document.
Restrictions and Risk	Document must be saved.
Dependencies	No
Priority	High

#### 4.1.31 Functional Requirement 31

Identifier	FR31
Title	Delete Evaluation Remarks
Requirement	PC will delete the saved document in case of wrong evaluation remarks.
Source	Project Committee
Rationale	.Valid Evaluation Remarks.
Restrictions and Risk	No

Dependencies	FR1
Priority	High

**4.1.32 Functional Requirement 32**

Identifier	FR32
Title	Create Schedule
Requirement	User can schedule their activities by using calendar on the portal.
Source	Project Committee
Rationale	User will be scheduled to do project.
Restrictions and Risk	No
Dependencies	No
Priority	Medium

**4.1.33 Functional Requirement 33**

Identifier	FR33
Title	Update Schedule
Requirement	User update schedule using calendar on the portal.
Source	Project Committee
Rationale	User will be scheduled to do project.
Restrictions and Risk	No
Dependencies	No
Priority	Medium

**4.1.34 Functional Requirement 34**

Identifier	FR34
Title	View Schedule
Requirement	User can view schedule on the portal and will perform tasks according to the schedule.
Source	Project Committee
Rationale	User will schedule to do project.
Restrictions and Risk	No
Dependencies	No
Priority	Medium

**4.1.35 Functional Requirement 35**

Identifier	FR35
Title	Set reminder
Requirement	User set reminder on specific date that reminds the user to perform particular task.
Source	Project Committee
Rationale	User will be informed about his/her schedule.
Restrictions and Risk	User have created a schedule.
Dependencies	FR25
Priority	High

**4.1.36 Functional Requirement 36**

Identifier	FR36
Title	View reminder
Requirement	User have set reminder on specific date that reminds the user to perform particular task and user will be able to view the reminder.
Source	Project Committee
Rationale	User will be informed about his/her schedule.
Restrictions and Risk	User have created a schedule.
Dependencies	FR25
Priority	Medium

#### 4.1.37 Functional Requirement 37

Identifier	FR37
Title	Send Message
Requirement	This requirement is used as a mode of communication between student, PC and supervisor.
Source	Project Committee
Rationale	User will be informed about any queries.
Restrictions and Risk	No
Dependencies	No
Priority	High

#### 4.1.38 Functional Requirement 38

Identifier	FR38
Title	Send Email
Requirement	This requirement is used as a mode of communication between PC and supervisor.
Source	Project Committee
Rationale	User will be informed about any queries.
Restrictions and Risk	User have an Email ID.
Dependencies	No
Priority	High

#### 4.1.39 Functional Requirement 39

Identifier	FR39
Title	View Comment
Requirement	This requirement is used to view the comments given by the PC members.
Source	Project Committee
Rationale	User will be informed about any queries.
Restrictions and Risk	No
Dependencies	No
Priority	High

#### 4.1.40 Functional Requirement 40

Identifier	FR40
Title	Give Feedback
Requirement	This requirement is used to give feedback from the PC

	members.
Source	Project Committee
Rationale	User will be informed about any queries.
Restrictions and Risk	No
Dependencies	No
Priority	High

#### 4.1.41 Functional Requirement 41

Identifier	FR41
Title	Track Progress of Projects
Requirement	System will show the result and student, supervisor and PC can view the evaluation result.
Source	Project Committee
Rationale	Student and supervisor wants to check the evaluation of their projects.
Restrictions and Risk	Every user can keep track progress of projects by using their own user id on portal.
Dependencies	FR2
Priority	High

## 4.2 Usability

### 4.2.1 Non-Functional Requirement 1

Identifier	NFR1
Title	Understandability
Requirement	Interface elements should be easy to understand since we are following standard Windows element in our interface.
Source	Project Committee
Rationale	User uses interface which is understandable.
Restrictions and Risk	No
Dependencies	No
Priority	High

### 4.2.2 Non-Functional Requirement 2

Identifier	NFR2
Title	Learn Ability
Requirement	The system is basically for the students, faculty, supervisors and project committee who will be using different modules of the system.
Source	Project Committee
Rationale	No
Restrictions and Risk	No
Dependencies	No
Priority	Medium

### 4.2.3 Non-Functional Requirement 3

Identifier	NFR3
Title	Operability
Requirement	The interface will show the login option which will decide the mode for the user.
Source	Project Committee
Rationale	Each user have different account.
Restrictions and Risk	No
Dependencies	No
Priority	High

### 4.3 Reliability

#### 4.3.1 Non-Functional Requirement 4

Identifier	NFR4
Title	Accuracy
Requirement	Accuracy of the system will be specified with the type of user has given its input.
Source	Project Committee
Rationale	User will give right input to get specific output.
Restrictions and Risk	No
Dependencies	No
Priority	High

#### 4.3.2 Non-Functional Requirement 5

Identifier	NFR5
Title	Bugs
Requirement	Critical bug can be categorized as a complete loss of data which can be possible if any system file is corrupted. System cannot operate until file is repaired or system is reinstalled.
Source	Project Committee
Rationale	In case of corrupt file uploaded system generates bugs.
Restrictions and Risk	No
Dependencies	No
Priority	High

### 4.4 Performance

#### 4.4.1 Non-Functional Requirement 6

Identifier	NFR6
Title	Response Time
Requirement	The response time of the system depends on the internet connection and underlying hardware.
Source	Project Committee
Rationale	System will give response to user when user inputs to

	system.
Restrictions and Risk	System will be able to response after 3 seconds when an action is performed.
Dependencies	No
Priority	High

#### 4.4.2 Non-Functional Requirement 7

Identifier	NFR7
Title	Resource Utilization
Requirement	As the system will be an online application so it will not be consuming much memory and processing.
Source	Project Committee
Rationale	No
Restrictions and Risk	No
Dependencies	No
Priority	High

### 4.5 Supportability

#### 4.5.1 Non-Functional Requirement 8

Identifier	NFR8
Title	Naming Conventions
Requirement	Standard naming conventions of C# will be used in the development of this project.
Source	Project Committee
Rationale	No
Restrictions and Risk	No
Dependencies	No
Priority	High

### 4.6 Design Constraints

#### 4.6.1 Non-Functional Requirement 9

Identifier	NFR9
Title	Programming Language.
Requirement	The project will be developed using C# language.
Source	Project Committee
Rationale	No
Restrictions and Risk	User will familiar about programming language.
Dependencies	No
Priority	High

#### 4.6.2 Non-Functional Requirement 10

Identifier	NFR10
Title	Development Tools
Requirement	Visual Studio 2013 will be used as development tools.
Source	Project Committee
Rationale	No
Restrictions and Risk	User will familiar about visual studio.
Dependencies	No
Priority	High

#### 4.6.3 Non-Functional Requirement 11

Identifier	NFR11
Title	Standard
Requirement	The application program shall be able to function on all Windows based system.
Source	Project Committee
Rationale	No
Restrictions and Risk	No
Dependencies	No
Priority	High

### 4.7 On-line User Documentation and Help System Requirements

There is no on-line user documentation and help system requirements for this system.

### 4.8 Purchased Components

System will use domain to perform action therefor there is need to purchase a domain for this system.

### 4.9 Interfaces

#### 4.9.1 User Interfaces

User interface will be simple and user friendly, since we are following windows standard interface which is easily understandable by the user.

#### 4.9.2 Hardware Interfaces

##### 4.9.2.1 Monitor screen

The software shall display information to the user via the monitor screen.

##### 4.9.2.2 Mouse & Keyboard

The software shall interact with the mouse and the keyboard. They will be used for data input and select options from menus.

### **4.9.3 Software Interfaces**

The system itself will be the Software Interface of this system. Software interface for this system are displayed in section 5.2 Appendix.

### **4.9.4 Communications Interfaces**

The system will communicate with different users via sending message or email by connecting Local area networks, Wi-Fi signals, protocols (HTTP, SMTP ) and port numbers (8080, 25).

## **4.10 Licensing Requirements**

System will use the DB server of CIIT and system will use a domain. Therefor system requires license to use the server of CIIT Islamabad and domain.

### **4.10.1 Application Requirement**

#### **4.10.1.1 Application**

Complete the application by clicking on the "Online Services" links that provides license for domain.

#### **4.10.1.2 Fee:**

Pay the required fee as provided in the application.

## **4.11 Legal, Copyright, and Other Notices**

The proposed system is a trademark for department of Computer Science, COMSATS Institute of Information Technology. No part of this system or any of its contents may be reproduced, copied, modified or adapted, without the prior written consent of the author, unless otherwise indicated for stand-alone materials.

## **4.12 Applicable Standards**

The proposed system includes legal and regulatory standards that will be applicable for the system.



## **5. Supporting Information**

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## 5.2 Appendices

### Login



COMSATS Institute of  
Information Technology, Islamabad


**FYP REPOSITORY**  
STUDENT CONSOLE

[Forgotten Password?](#)

**Project committee Member**

[Forgotten Password?](#)

## Request to Supervisor for project reservation



**COMSATS** Institute of  
Information Technology, Islamabad

**FYP REPOSITORY**

**Android Malware Behaviour Analysis through Memory Forensic**

The scope of this project is to analyse a given set of Android malwares and understand their functioning. [More Detail](#)

**Status :NotAssigned**

Proposed By : Dr. Masoom Alam

**Request**

**New Project**

**Android Malware Behaviour Analysis through Forensic**

The scope of this project is to analyse a given set of Android malwares and understand their functioning. [More Detail](#)

No of group members

Member 1  Member 1

Registration No  Registration No

☒ We are interested in doing the project. Can we please...

**Contact**

Tel: +92-51-9247000-9247002 and 9049802  
UAN: +92-51-111-001-007


**Reach Us at**

Park Road, Chak Shahzad,  
Islamabad, Pakistan

Developed by: Ahmad Ehsan & Adil Rasheed

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## User Schedule



COMSATS Institute of  
Information Technology, Islamabad

**FYP REPOSITORY**

My Account Logout: Adil Rasheed

Thank you for signing in as Student I

Useful Links

- Notification
- **Schedule**
- Evaluation
- Download

**Calendar**

March 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

**Notification Message**

Scope Document Submission

**Contact**

Tel: +92-51-9247000-9247002 and 9049802  
UAN: +92-51-111-001-007


**Reach Us at**

Park Road, Chak Shahzad,  
Islamabad, Pakistan

Developed by: Ahmad Ehsan & Adil Rasheed

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## Evaluation


**COMSATS** Institute of  
Information Technology, Islamabad

**FYP REPOSITORY**
My Account    Welcome: Dr. Suleman

### Evaluation

**Group Members:**

**Adil Rashid Khan**  
(SP12-BCS-016)

**Ahmad Ehsan**  
(SP12-BCS-027)

Obtain    Total  
 —

Obtain    Total  
 —

**Verdict**  
☐ Pass  
☐ Pass with Minor Changes  
☐ Major Revision  
☐ Fail

### 3. Use Case(s)      Document

<b>Use Case ID:</b>	UC-1
<b>Use Case Name:</b>	Upload Milestone
<b>Actors:</b>	Student
<b>Description:</b>	This requirement is used to upload the milestones only in pdf format by the students. Milestones are SRS, SDS, Report and Presentations.
<b>Trigger:</b>	User is required to Click on "Upload" button to proceed.
<b>Preconditions:</b>	N/A <i>PC comments:</i> Following can be preconditions of this use case: Internet is connected. User must login to perform this function.
<b>Postconditions:</b>	User have uploaded the document successfully.
<b>Normal Flow:</b>	1. User access the Documents section of the system. 2. The system displays all the options related to that section. 3. Submit your project document appears on screen. 4. User specifically upload the particular document. 5. The system validates the information and determines that validation is passed. 6. The system displays a dialog box to notify user about submission. 7. Success message will be shown and the milestone will be added for evaluation.

**Feedback**

**Contact**  
 Tel: +92-51-8247000-8247002 and 8049802  
 UAN: +92-51-111-001-007

**Reach Us at**  
 Park Road, Chak Shazad,  
 Islamabad, Pakistan

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## Evaluation Result



COMSATS Institute of  
Information Technology, Islamabad


**FYP REPOSITORY**

My Account Logout: Ahmad Ehsan

You are signed in as Student

### Evaluation Result

Ahmad Ehsan  
(SP12-BCS-027)

Type	Total Marks	Obtain Marks	Grade	Verdict	Document
Scope Document	25	23	A	Pass	

Comments:

Documentation is good.Presentation is also good.....