



ProSys

Final Year Project Management System

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Final Approval

This is to certify that we have read the report submitted by **Walid ahmed (12422)**, **Sami ullah Qureshi (12520)**, **Alizain Aziz (12253)** for the partial fulfillment of the requirements for the degree of the Bachelors of Science in Computer Science (BSCS). It is our judgment that this report is of sufficient standard to warrant its acceptance by IQRA University, Karachi for the degree of Bachelors of Science in Computer Science (BSCS).

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Abstract

Most of the projects fails because there is a communication gap between the students and the supervisors. Students do not have the knowledge of the past projects. There is no digital platform where the project repositories are managed. ProSys have the ability to eliminate communication barriers between coordinator, supervisor and students and facilitate coordinator to manage batch and student groups etc. Students can view and select ideas shared by faculty members. Students can upload tasks that are given by the coordinator and students can easily keep track the deadlines of the tasks. Student and supervisor can request a meeting for the project discussion. In ProSys weekly report of the project can be generated by the supervisors and also can be seen by coordinator and students. Coordinator can send an email to specific batch, student and supervisor can send single email to any email address from ProSys. In ProSys coordinator have project repositories where he can find details of any specific project of any batch.

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Chapter 1:

Introduction

Chapter 1:

Introduction

ProSys (Final Year Project Management System) is a web-based solution designed for IQRA University which automates tasks of Final Year Projects. ProSys manages all the processes involved in Final year projects and also keep repository of all projects.

1.1. Background

Project management tool is automation of all the tasks involved in Final Year Project lifecycle.

1.2. Motivations and Challenges

There are some systems implemented in some universities of Pakistan, but most of the Universities handle FYP task manually or through their university's Virtual Learning Environment (VLE) or their Course Portals.

In IQRA University there is no customized solution available, most of the tasks are handled manually and some with help of VLE. This motivate us to build an automated system to handle almost all the tasks of FYP lifecycle.

1.3. Goals and Objectives

To create an automated system that follows complete final year project's lifecycle.

- Maintains repository of all projects
- Manage batch, students, faculty and coordinator also register student and faculty from coordinator panel
- Faculty have request meeting and weekly report options
- Coordinator and faculty have grading option with different grading criteria

1.4. Problem and Solution Overview

Problem:

There is no platform available in IQRA University by which coordinator can manage projects and all the life cycle of FYP management system handled manually.

Also, students have the problem in approaching the supervisor for resolving any queries they have and coordinator is using other platform for communicating with students on any updates on the project tasks or any other updates.

Weekly report handling is manual and it is required to have all the group members and supervisors to communicate face to face and before that students have to request for a meeting face to face.

Solution:

Final Year Project Managements system follows complete final year project's life cycle.

It is automation of manual tasks in FYP. It maintains Project repository and their documents.

It handles Notifications and deadlines. It is fully automated system with online availability.

It will also maintain student and supervisor meeting request. Also, it gives the solution of all the problems mentioned above.

It also gives option to coordinator and faculty to grade students with different grading criteria.

Coordinator can upgrade any batch from Project Proposal to Project Defense.

1.5. Report Outline

This project report covers in detail all the aspects of the system. For the sake of understanding and clarity, this report is divided into following chapters:

- Chapter 1: Introduction
- Chapter 2: Technology Background
- Chapter 3: Requirements & Methodology
- Chapter 4: Project Plan & Initial Design

Chapter 2:

Technology Background

Chapter 2:

Technology Background

2.1 Introduction of Technologies

Theme, Components, Libraries, Web Services and stubs

We are using

- HTML 5
- CSS 3
- Bootstrap 4
- JavaScript
- JQuery
- Font Awesome
- AdminLte Theme
- Send Grid API

For Our Project design:

We used AdminLte theme for our Project which is based on bootstrap 4, HTML 5, CSS 3 and Other Plugins that help the theme working properly.

Send grid API:

We used Send grid API for sending emails from our platform and also its give us option of sending an email to multiple recipients which we have in coordinator panel.

Best Practices / Coding Standards

HTML5

HTML5 is used since it is recommended by W3C

W3 Validation

All HTML pages are verified against the W3C validator to ensure that the markup is well formed.

Attributes and Tags

All tags and attributes are written in lowercase. Additionally, attribute values are also lowercase

Indentation

Proper indentation is used in PHP and HTML to reflect logical structure.

Externalized CSS

All the stylesheets are externalized and used in HEAD of HTML

JavaScript at footer

To make page load quickly as possible all JavaScript who perform their functionality after page has been loaded are placed in footer.

Responsiveness

Website is responsive and mobile friendly to deliver content to mobile devices. The principal objective is to improve the user experience of the Web when accessed from such devices.

Deployment Environment

Our system is PHP base web application so it will be deployed on a webserver.

2.2 problem domain with historical background

There are many project managements tools available in the markets. The purpose of these tools is to manage the entire life cycle of project management including the task allocation, resource allocation and creating the team for the specific tasks.

These tools can be used for final year project management system but there are some options that we must have customized for using according the university policies. Here is the list of few project management systems which are famous in the market.

- Bitrix24
- Microsoft Project
- Teamweek
- Easy Project
- JIRA

2.3Similar Solutions and Comparison with ProSys

If we compare the project management tool with the ProSys. The main difference that we observed is ProSys is fully customized according to the IQRA University rules and Policy.

All the project management tools are design to manage all type of projects but ProSys is specifically design to manage final year projects. The basic functionalities are same.

If we compare the project management tool and ProSys like creating Projects, Forming Groups, Coordinator/ Project Manager Assign tasks, group leader

deliver tasks, send email from the platforms. It's a general comparison among all the project management tools and ProSys.

2.4Summary

In this chapter we have defined all the technologies that we have used in our project.

We have described all the libraries and components and also the APIs we have used in the project. Also, we have described the best practices for the languages that are being used to develop the system. All the coding conventions and standards that will be followed in the course of development are described in the chapter.

Chapter 3:

Requirements & Methodology

Chapter 3:

Requirements & Methodology

3.1 Solution of the Problem

Problem:

Every semester many of the projects fail because of barriers of communication between supervisor and students. Students mostly face the problem of meeting the supervisor, timeline and deadline mostly supervisors don't have the updated document of the project.

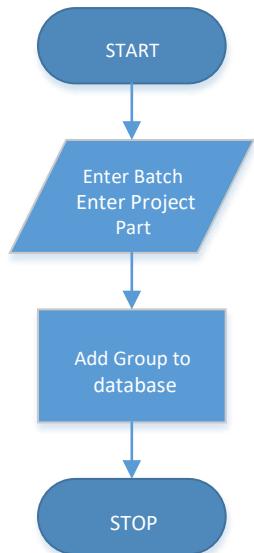
Students usually don't have idea of projects that have already been made, since there is no repository of such projects are available.

Solution:

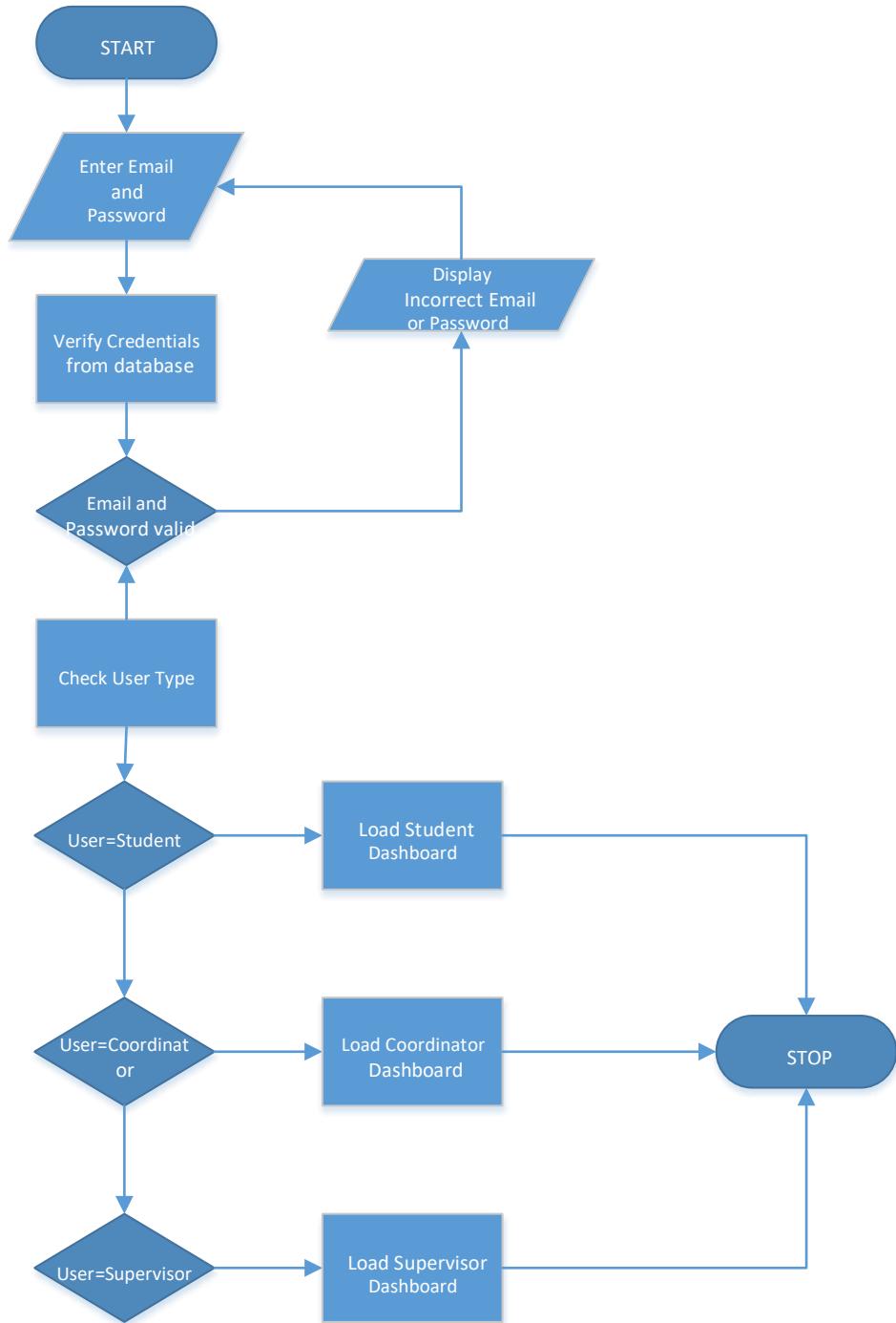
ProSys is automated software that keeps track and repository of all projects and manages all the processes involved in projects. Final Year Project Management System manages current and previous final year projects. All activities/processes involved in final year projects will be managed

3.2 Project Flow Diagram

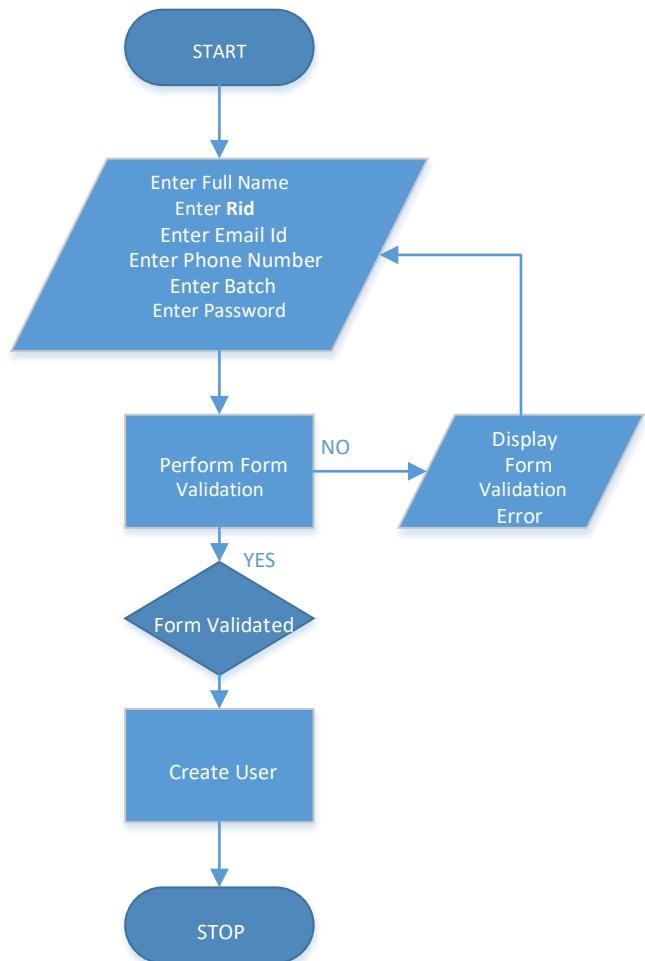
Create Group (Student Role)



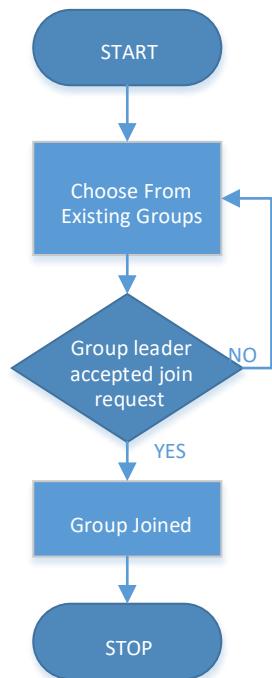
User Login Flow control



Register Students (Coordinator Role)



Join Group (Student Role)



3.3. Type of roles

- **Student**
- **Supervisor**
- **Coordinator**

3.4. Functional Requirements

Final Year Project Management System has different users with different requirements as below

No.	Requirement	Detail
Student		
3.4.1.	Repository	Repository will contain all projects
3.4.2.	Make Group	Student can make a new group or join an existing group
3.4.3.	Choose Supervisor	Student will be able to choose from available list of supervisors
3.4.4.	Upload Deliverables	Student will be able to upload different artifacts of their projects
Supervisor		
3.4.5.	Choose group	Supervisor will choose groups to supervise from his request list
3.4.6.	Schedule Meetings	Supervisor will be able to schedule meetings with students
3.4.7.	Grading	Supervisor can grade students
3.4.8.	Add Meeting Request	Supervisor will add meeting request with students to the system
Coordinator		
3.4.9.	Create/Manage batch	Coordinator will create a new batch or manage existing created batch
3.4.10.	Register Student	Coordinator will register students to the batch
3.4.11.	Manage/Create groups	Coordinator will manage already created groups or create groups of students who are not with any group
3.4.12.	Set Deadlines	Coordinator will set deadlines to deliver different artifacts of projects
3.4.13.	Generate Notifications	Coordinator will generate different notifications related to the FYP and these notifications will be sent to all students
3.4.14.	Send Emails	Coordinator will be able to send emails to all the users of the system

3.4.15.	Manage Faculty and their roles	Coordinator will register new faculty or manage existing faculty and set their roles
3.4.16.	Set Configurations	Will set configurations for each Batch
3.4.17.	Manage Repository	Will manage repository

Table 3.4.1 Functional Requirements

3.5. Non-Functional Requirements

Requirement	Description
Availability	The system is available 24/7 except in the case of unexpected condition like failure of database etc.
Usability:	System is user friendly, responsive, mobile friendly and it is designed so that interaction of user will be maintained.
Accessibility	Since this system is mobile friendly and responsive so users will be able to access from every device with internet connection.
Modifiability	Our system is prone to future changes. There will be a panel to change and set rules (i.e. Maximum members in a group etc.). Users can be added or removed. Records can be edited also.
Failure Management	To avoid failure, we will use server validation using PHP and JavaScript validation on client side. System will also maintain a cloned database so if any failure occur it will be able to restore the database
Consistency	To ensure consistency we are using same CSS stylesheets on almost all pages

Table 3.4.2 Non-Functional Requirements

Chapter4:

Project Plan & Initial Design

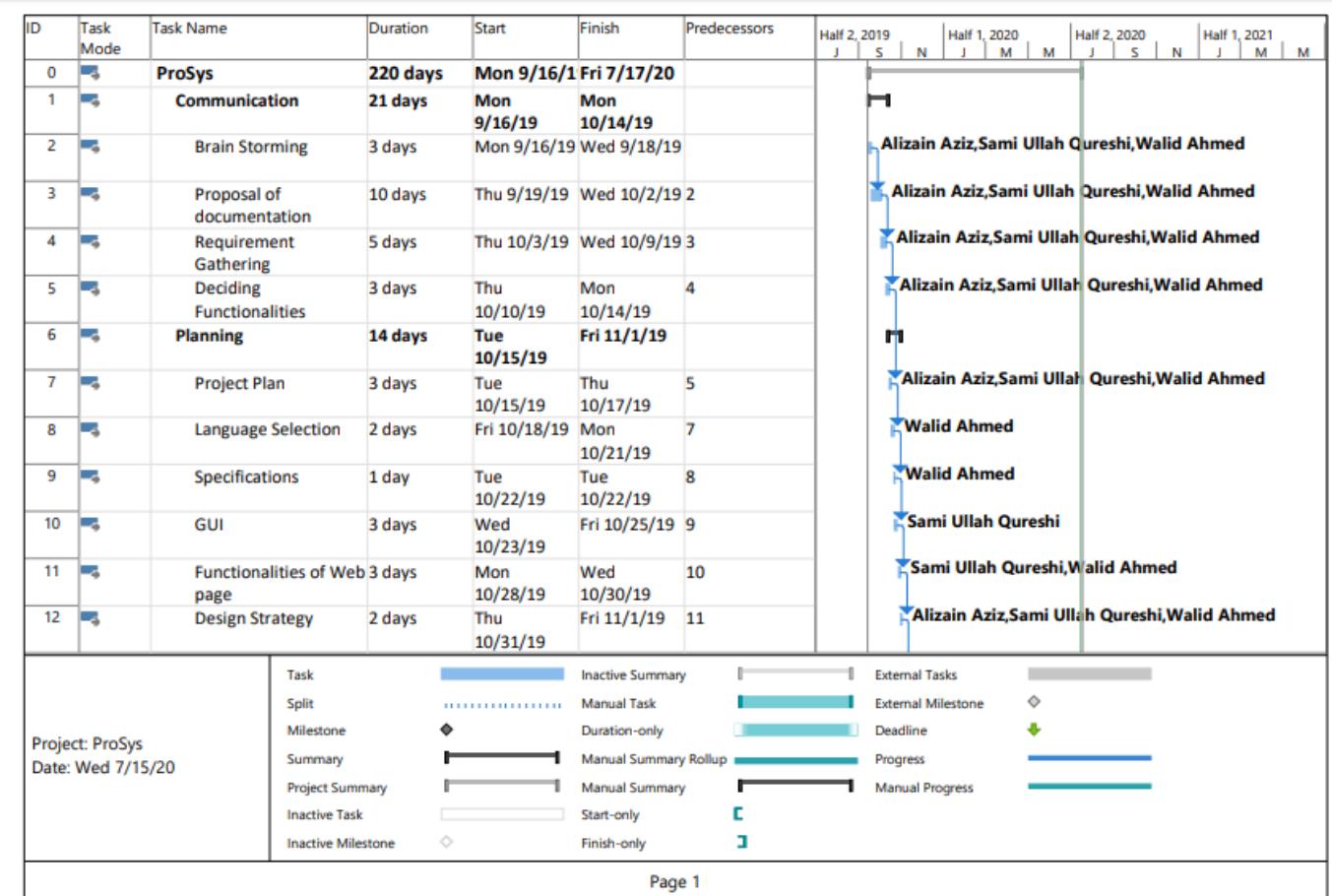
Chapter 4:

Project Plan & Initial Design

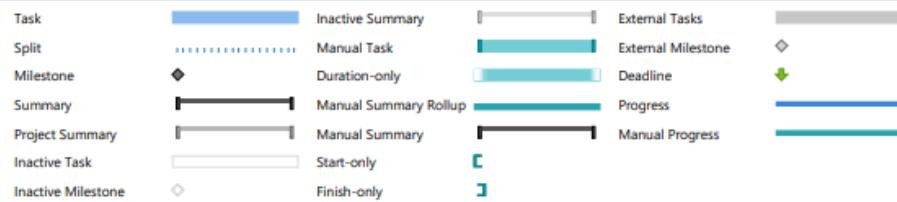
4.1 Project timeline and Gantt Chart

- Project Timeline

- **Gantt Chart**

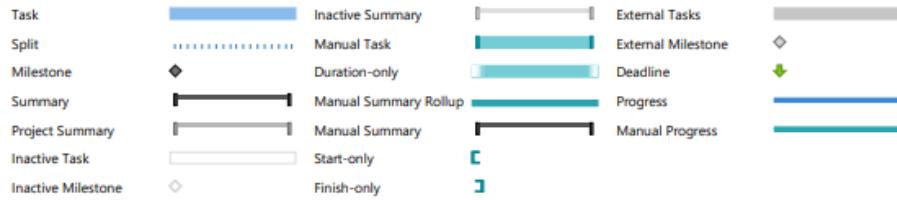


ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Half 2, 2019 J S N	Half 1, 2020 J M M	Half 2, 2020 J S N	Half 1, 2021 J M M
13	Normal	Analysis and Design	25 days	Mon 11/4/19	Fri 12/6/19					
14	Normal	Usecase Diagram	6 days	Mon 11/4/19	Mon 11/11/19	12				
15	Normal	ER Diagram	13 days	Tue 11/12/19	Thu 11/28/19	14				
16	Normal	UI Flow Diagram	6 days	Fri 11/29/19	Fri 12/6/19	15				
17	Normal	Development	135 days	Mon 12/9/19	Fri 6/12/20					
18	Normal	UI Design	35 days	Mon 12/9/19	Fri 1/24/20					
19	Normal	Coordinator Panel	15 days	Mon 12/9/19	Fri 12/27/19	16				
20	Normal	Supervisor Panel	10 days	Mon 12/30/19	Fri 1/10/20	19				
21	Normal	Student Panel	10 days	Mon 1/13/20	Fri 1/24/20	20				
22	Normal	Backend Design	100 days	Mon 1/27/20	Fri 6/12/20					
23	Normal	Backend Construction	80 days	Mon 1/27/20	Fri 5/15/20	21				
24	Normal	Database Construction	10 days	Mon 5/18/20	Fri 5/29/20	23				
25	Normal	Prototype Construction	10 days	Mon 6/1/20	Fri 6/12/20	24				



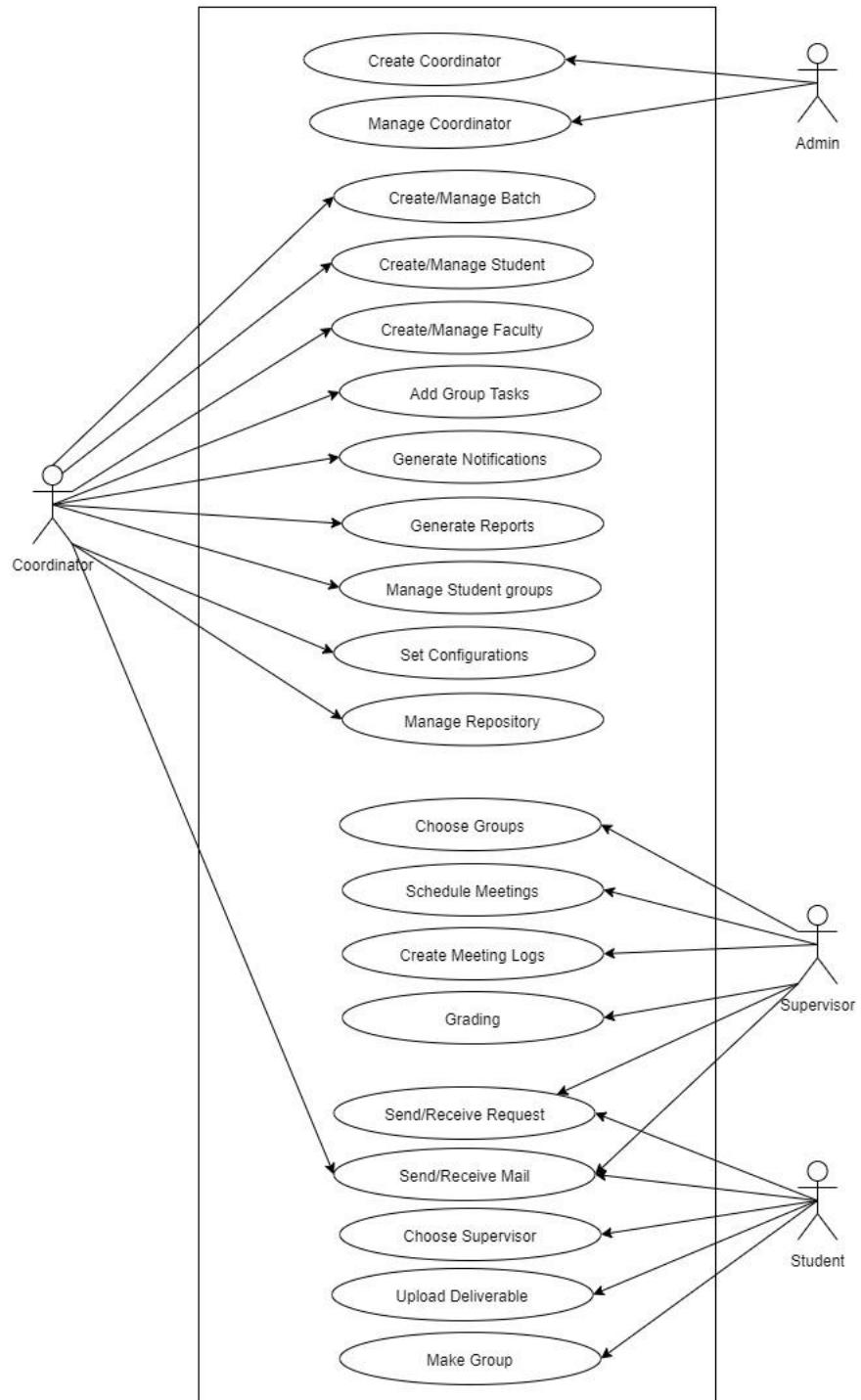
Page 2

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Half 2, 2019 J S N	Half 1, 2020 J M M	Half 2, 2020 J S N	Half 1, 2021 J M M
26	Normal	Testing	10 days	Mon 6/15/20	Fri 6/26/20					
27	Normal	Functional Testing	10 days	Mon 6/15/20	Fri 6/26/20	25				
28	Deployment	Deployment	15 days	Mon 6/29/20	Fri 7/17/20					
29	Normal	Proper Documentation	15 days	Mon 6/29/20	Fri 7/17/20					

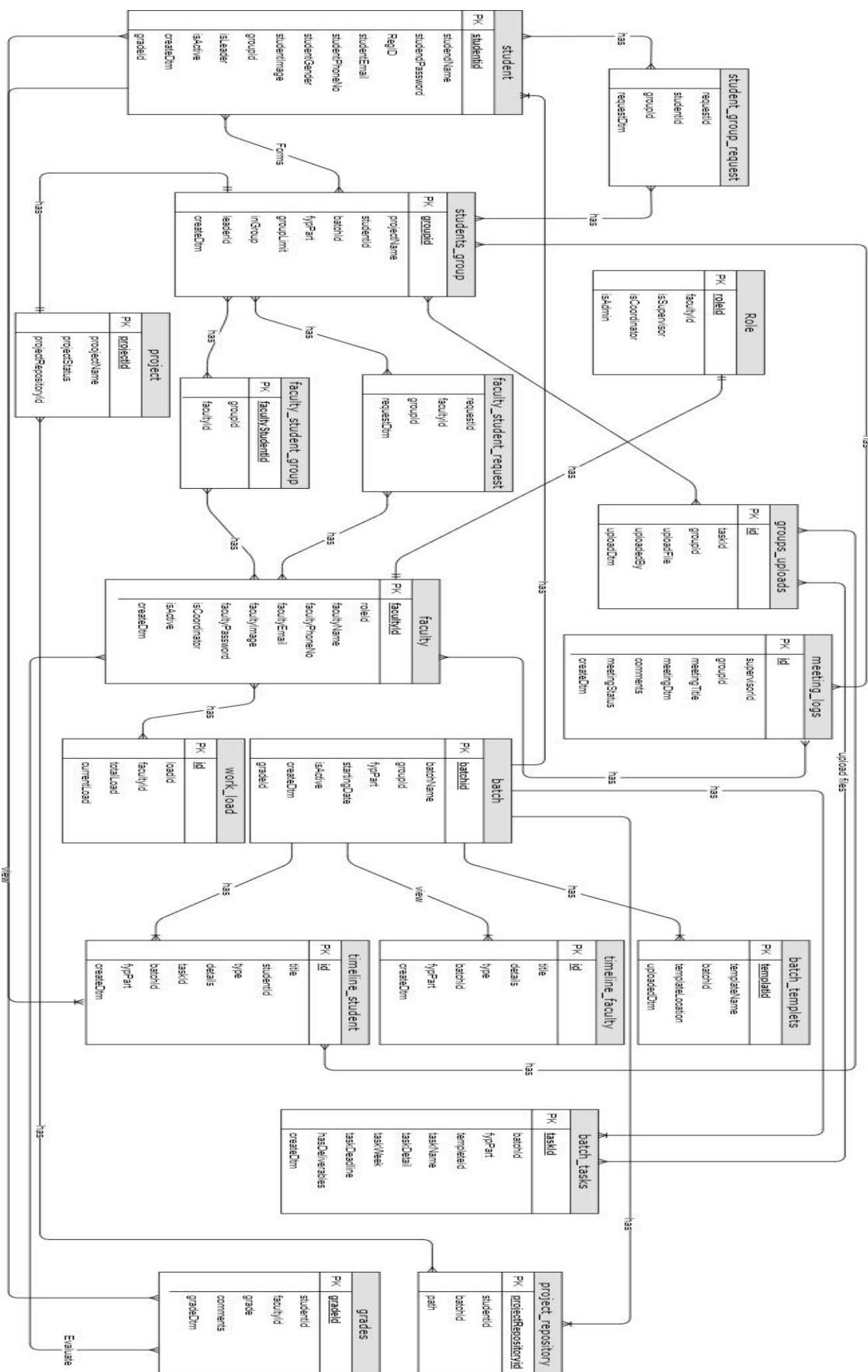


Page 3

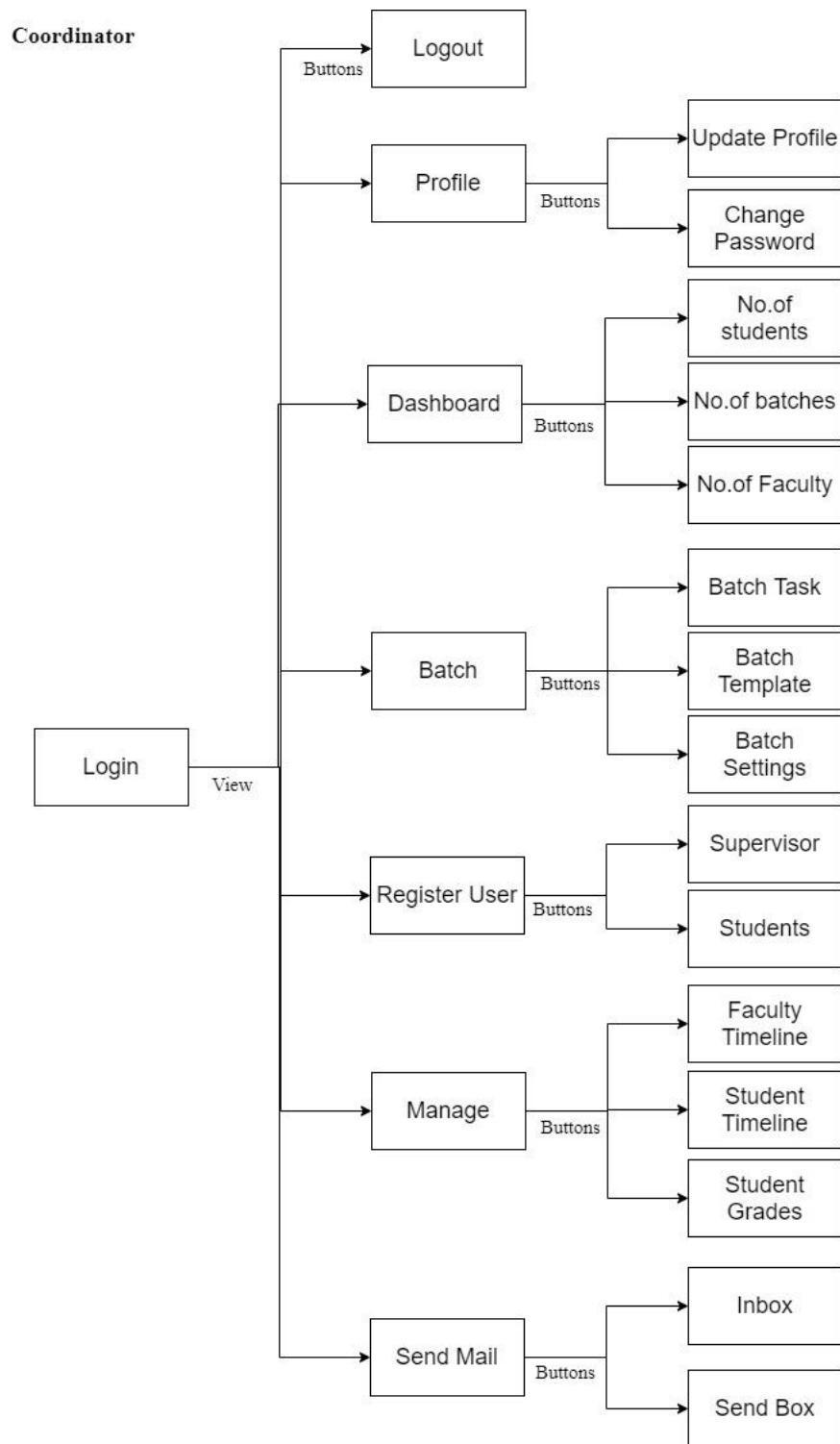
4.2 Use case



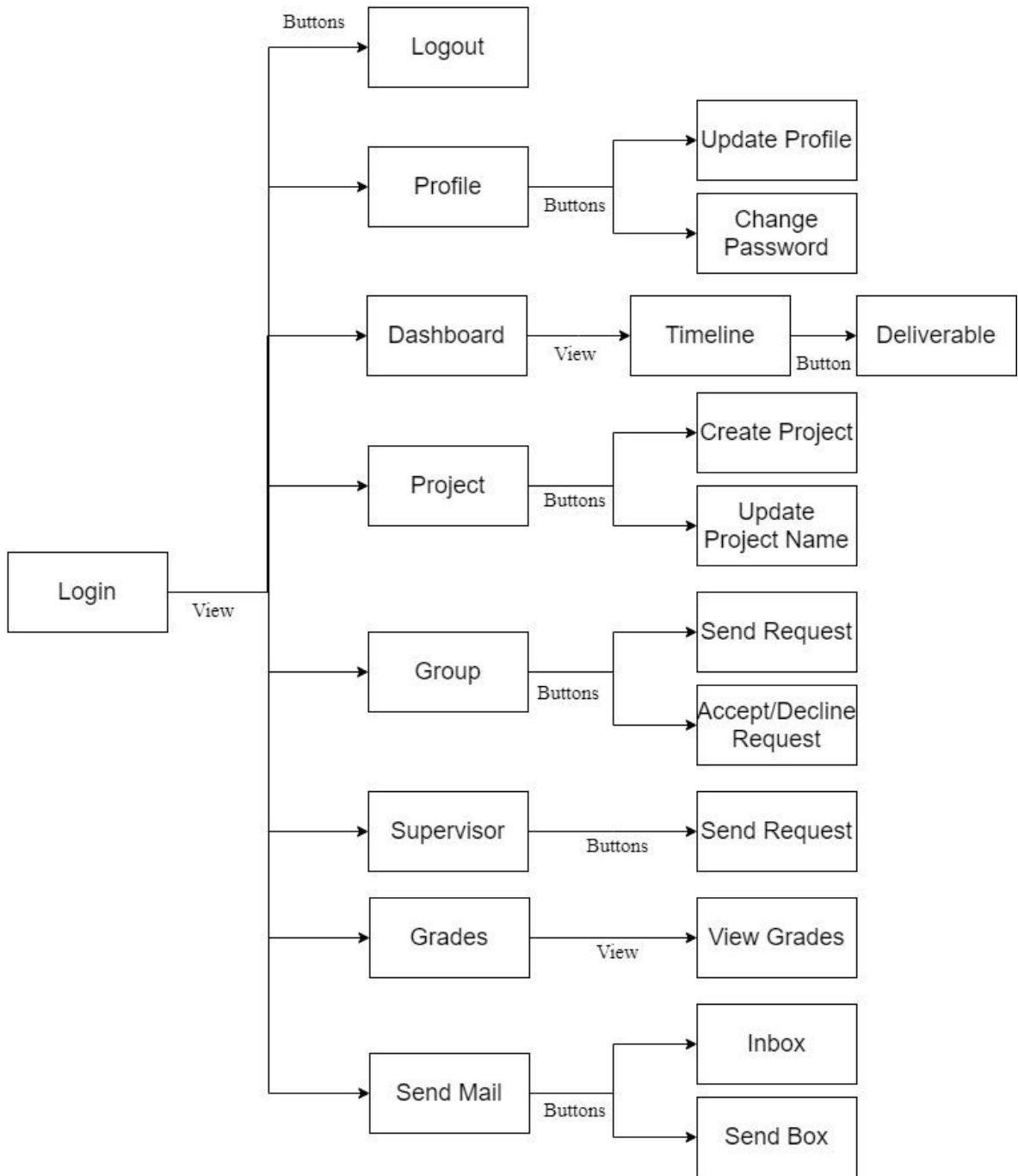
4.3 ERD



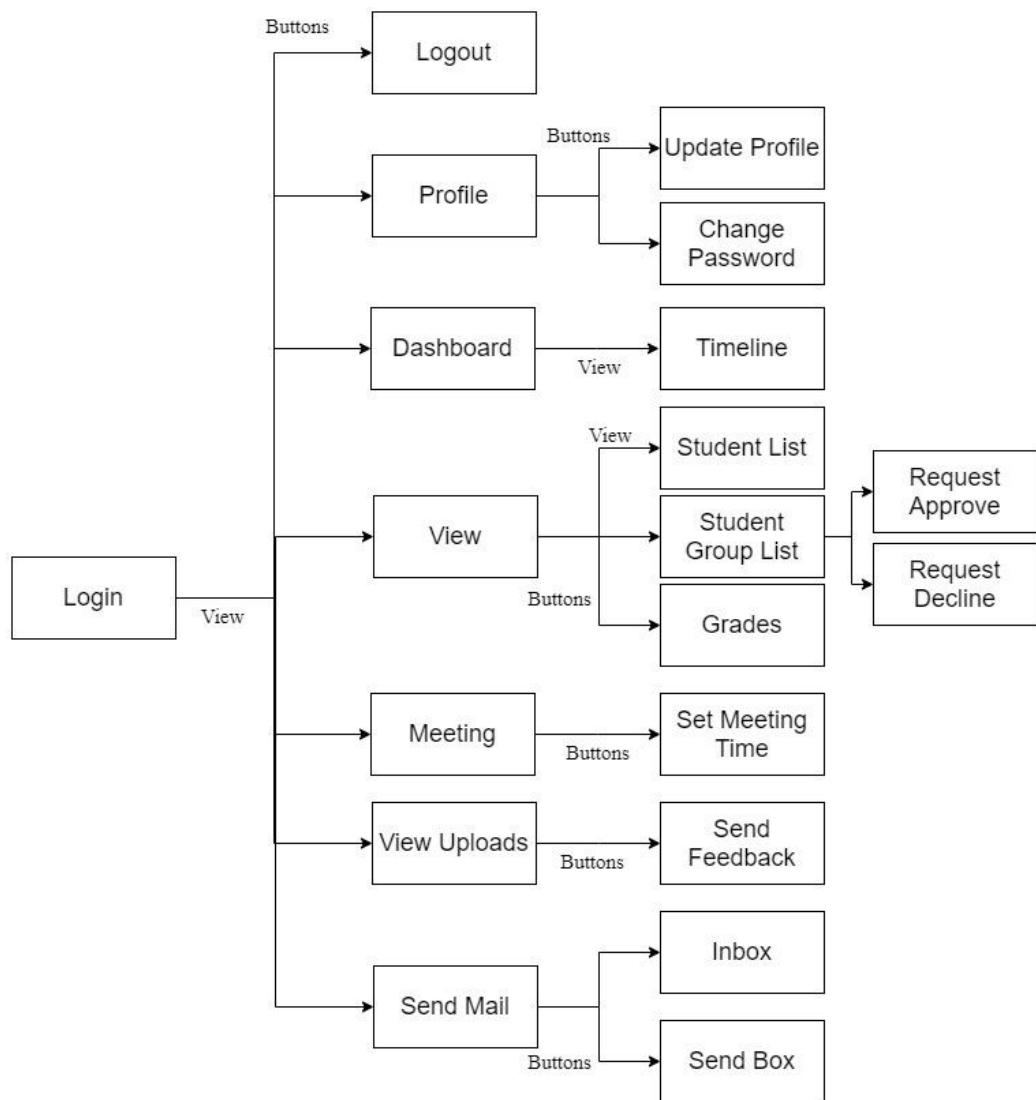
4.4 UI Diagram



Student



Supervisor



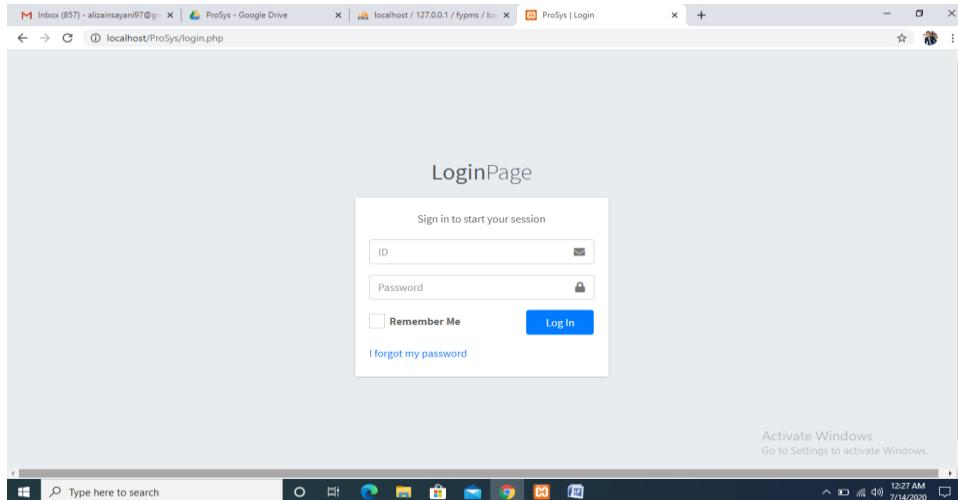
Chapter 5:

Project Design & Development

Chapter 5: Project Design & Development

5.1 Screenshots of User Interfaces

Login:



Description:

Student, Faculty and Coordinator can login by this page.

Student Panel:

Figure 1:

Dashboard:

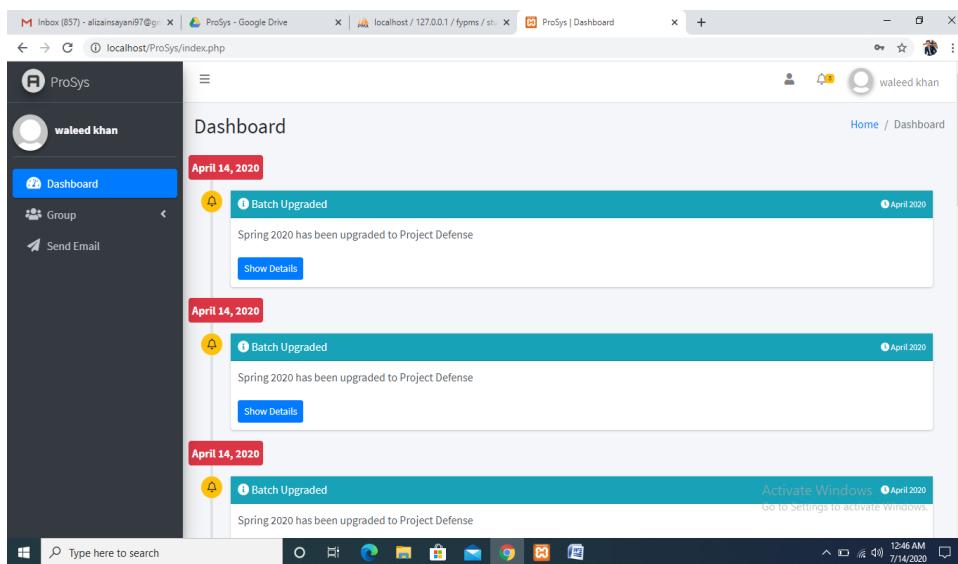
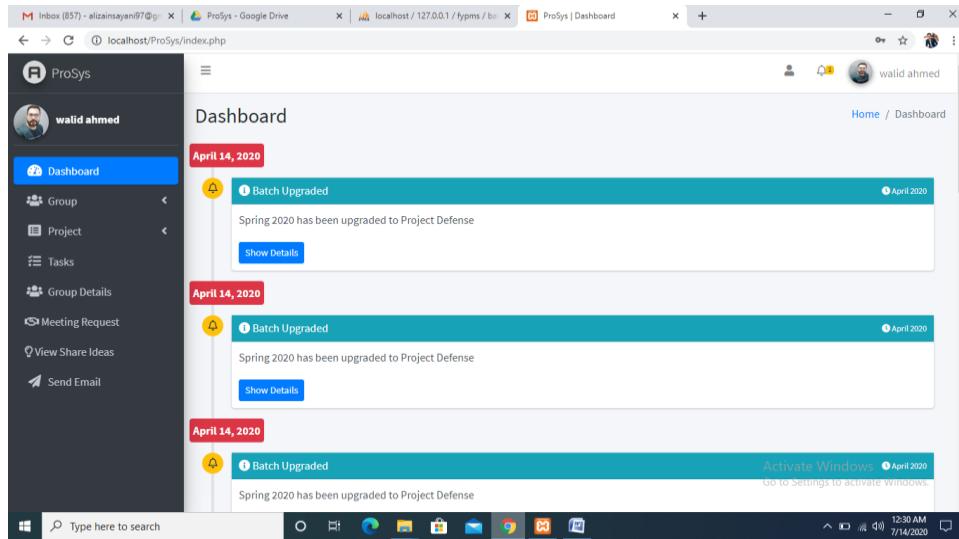


Figure 2:



Description:

In figure 1, the student is not added in a group that's why there are minimum options and in figure 2, the student has a group that's why it shows all the options.

Group:

Create Project:

Figure 3:

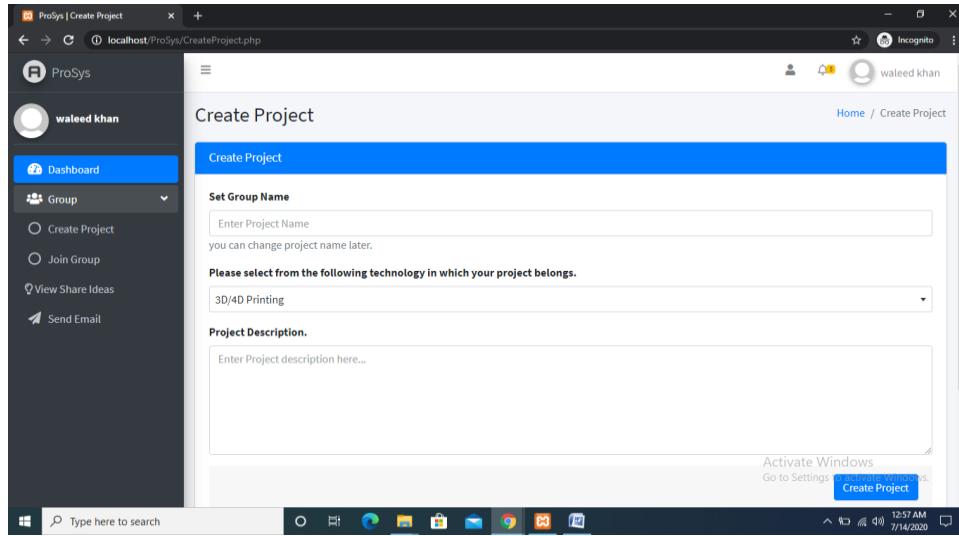


Figure 4:

Join Group:

The screenshot shows a web browser window for 'ProSys | Join Group' at 'localhost/ProSys/joinGroup.php'. The user is logged in as 'waleed khan'. On the left, a sidebar menu includes 'Dashboard', 'Group' (selected), 'Create Project', 'Join Group', 'View Share Ideas', and 'Send Email'. The main content area is titled 'Join Group' and displays a table titled 'List of available groups'. The table has columns: 'Project Name', 'Created By', 'Group Created', and 'Actions'. The data rows are:

Project Name	Created By	Group Created	Actions
IU Chat Bot	Khalid Ahmed [12423]	4 months ago	Send Request
smart robot	mohi khan [12430]	4 months ago	Send Request
yycvg	haroon rasheed [12432]	4 months ago	Send Request
Smart Card	Mubashir Hussain [12431]	3 months ago	Send Request
Work 4 Worker	Abdul sami [12347]	18 days ago	Send Request

At the bottom right of the content area, there is an 'Activate Windows' button with a tooltip 'Go to Settings to activate Windows.' and a link 'Version 1.0.0'.

Figure 5:

Choose Supervisor:

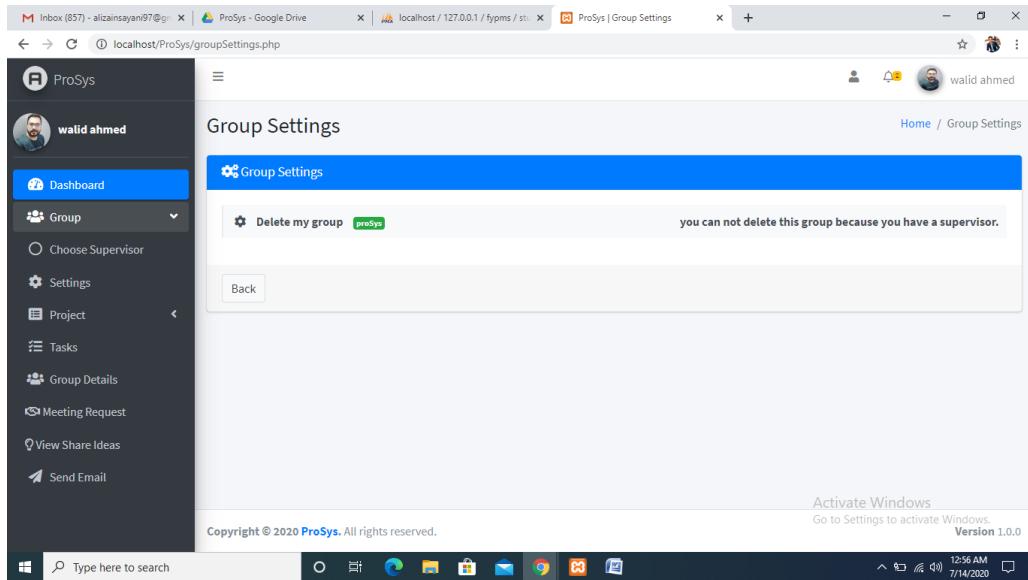
The screenshot shows a web browser window for 'ProSys | Choose Supervisor' at 'localhost/127.0.0.1/fyjoms/st...'. The user is logged in as 'waleid ahmed'. The sidebar menu is identical to Figure 4. The main content area is titled 'Choose Supervisor' and contains an 'Info' section with the message: 'You can not sent request to supervisor' followed by 'This may be due to reasons':

- You already have a group supervisor
- You have sent request to a supervisor already

At the bottom right of the content area, there is an 'Activate Windows' button with a tooltip 'Go to Settings to activate Windows.' and a link 'Version 1.0.0'. The footer also includes a copyright notice: 'Copyright © 2020 ProSys. All rights reserved.'

Figure 6:

Settings:



Description:

In figure 3, if student has no group so in group option it shows create group and in figure 4, it shows join group so student can join their group.

In figure 5, student has a group so they can choose their supervisor and in figure 6, student has an option of settings where they can change the group settings.

Project:

Figure 7:

Set Project Name:

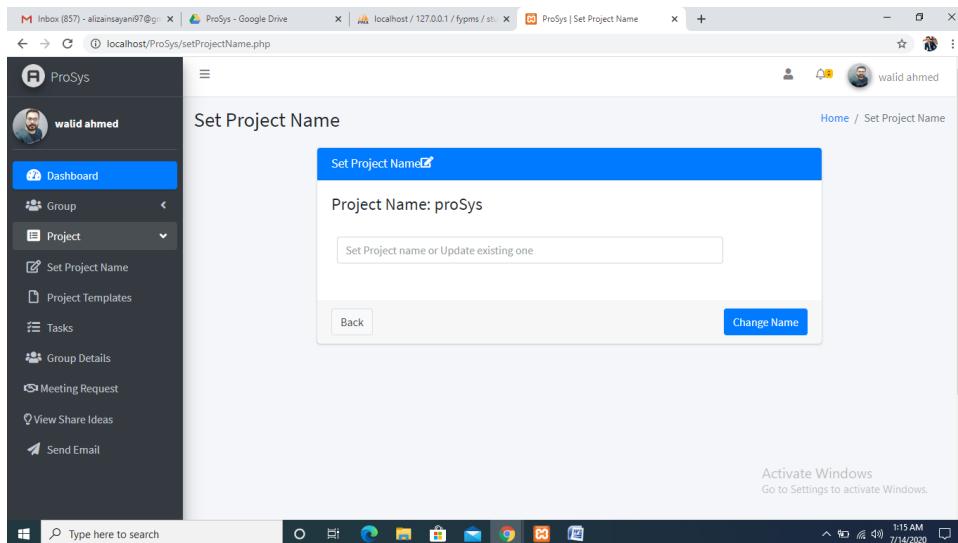
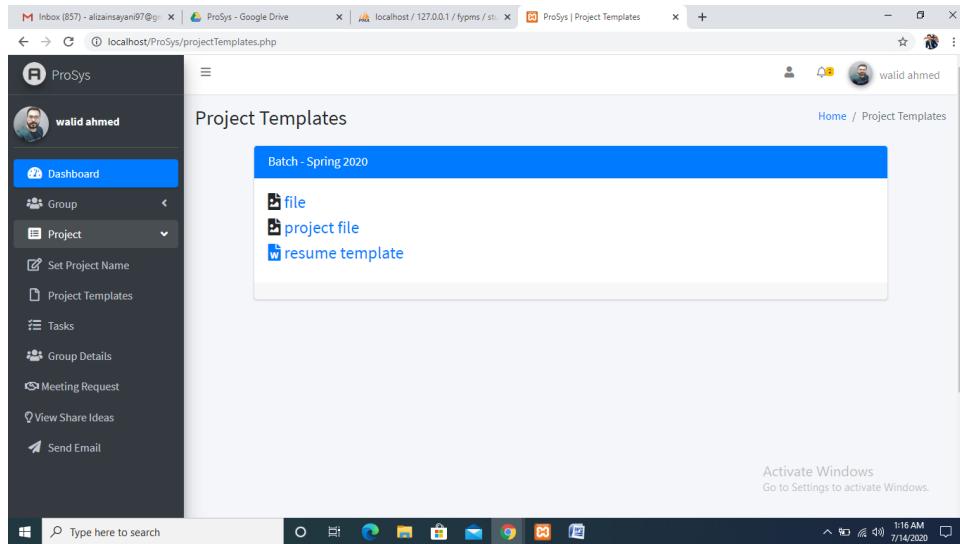


Figure 8:

Project Templates:



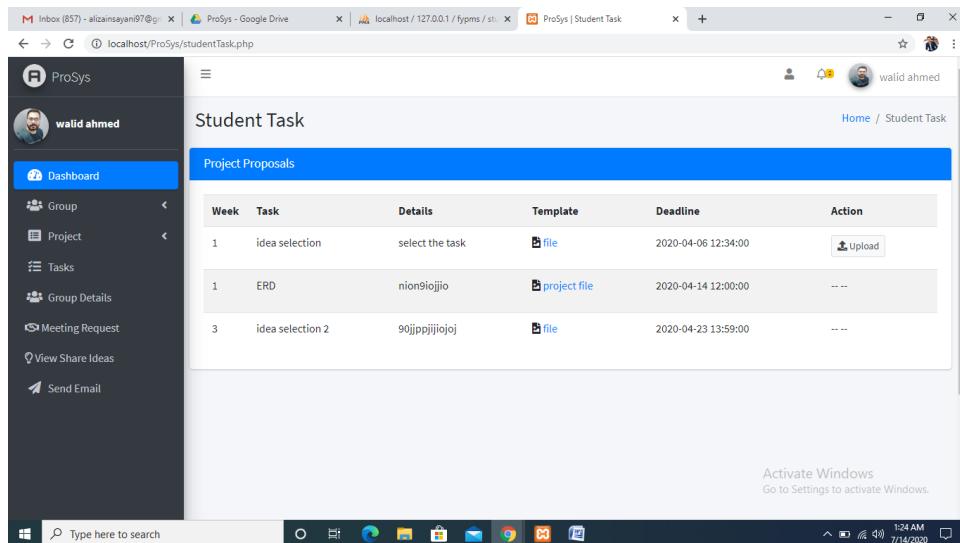
Description:

In figure 7, student can set their project name and in figure 8, student have project templates where we can upload files. When student has no group so they don't have any project option.

Task:

Figure 9:

Student Task:



Description:

In figure 9, student has an option of task where they can upload their task.

Figure 10:

Group Details:

The screenshot shows the 'Group Details' page of the ProSys application. The top navigation bar includes links for 'Inbox', 'ProSys - Google Drive', 'localhost / 127.0.0.1 / fypms / sli', and 'ProSys | Group Details'. The user profile 'walid ahmed' is visible at the top right. The left sidebar has a dark theme with icons for Dashboard, Group, Project, Tasks, Group Details, Meeting Request, View Share Ideas, and Send Email. The main content area is titled 'Group Details' and displays the project name 'ProSys' and supervisor 'Ridah Fatima Mudassir'. Below this is a table titled 'Group Members' with columns: Registration ID, Name, Email, Contact, and Action. The table contains three rows:

Registration ID	Name	Email	Contact	Action
12520	Muhammad sami ullah qureshi			<button>Remove Member</button>
12425	alizain			<button>Remove Member</button>
12422	walid ahmed Leader	walidkhan@gmail.com	03122990486	

At the bottom of the page, there is a Windows activation message: 'Activate Windows Go to Settings to activate Windows.' The system tray shows the date and time as 7/14/2020 1:29 AM.

Description:

In this figure, student has all their group details.

Figure 11:

Meeting Request:

The screenshot shows the 'Meeting Requests' page of the ProSys application. The top navigation bar includes links for 'Inbox', 'ProSys - Google Drive', 'localhost / 127.0.0.1 / fypms / sli', and 'ProSys | Meeting Requests'. The user profile 'walid ahmed' is visible at the top right. The left sidebar has a dark theme with icons for Dashboard, Group, Project, Tasks, Group Details, Meeting Request, View Share Ideas, and Send Email. The main content area is titled 'Meeting Requests' and displays a table titled 'Requests' with columns: Meeting Title, Meeting Time, Comments, and Status. The table currently has no data.

Meeting Title	Meeting Time	Comments	Status

At the bottom of the page, there is a Windows activation message: 'Activate Windows Go to Settings to activate Windows.' The system tray shows the date and time as 7/14/2020 1:29 AM.

Description:

In this figure, student can request for the meeting to their coordinator and supervisor.

Figure 12:

View Share Idea:

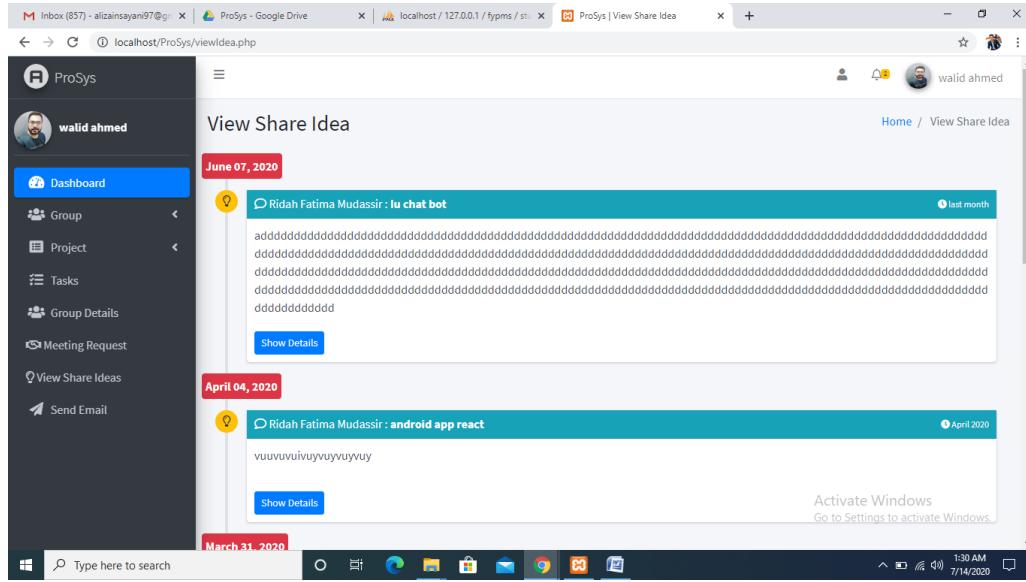
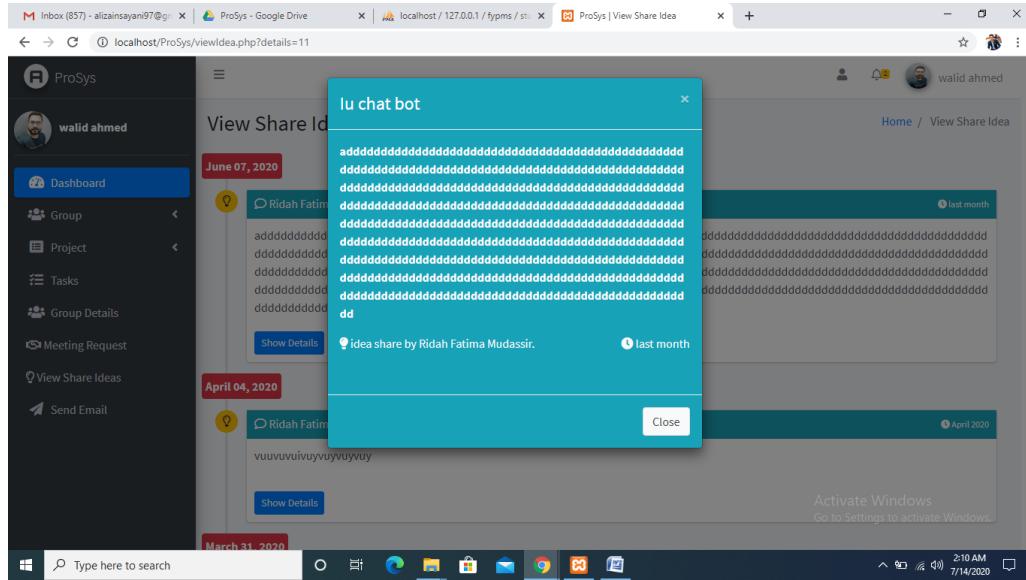


Figure 13:

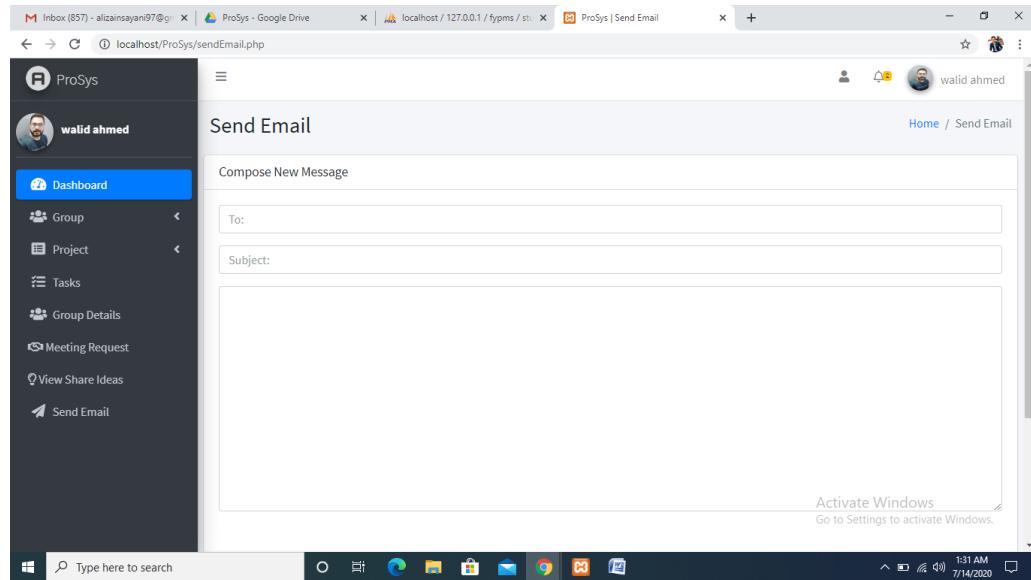


Description:

Supervisor share their ideas and students can view those ideas. Those students who have groups and those who don't have any group, all of them have this option.

Figure 14:

Send Email:



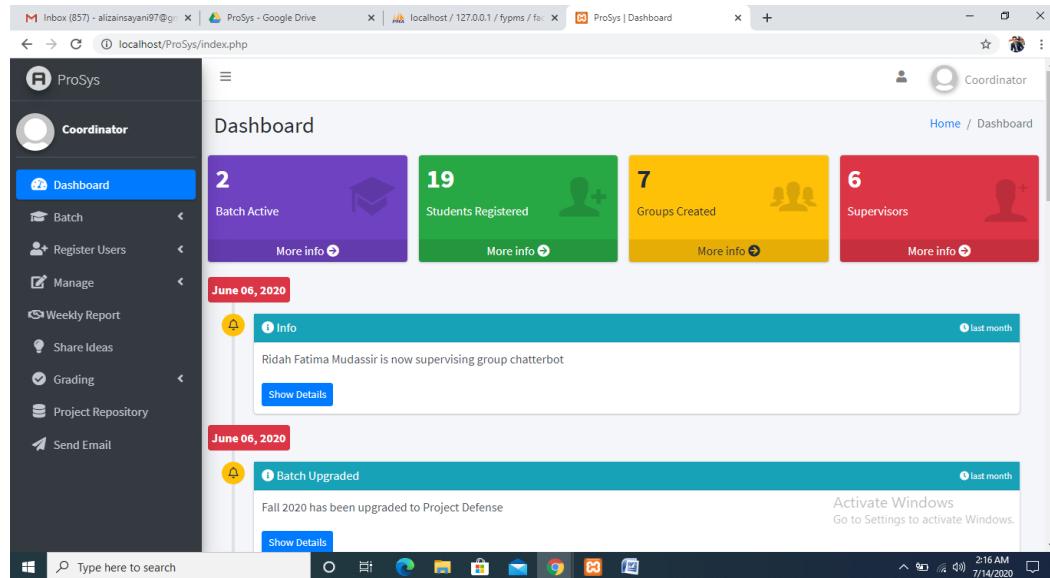
Description:

Every student can send email who have a group and who don't have any group.

Coordinator:

Figure 15:

Dashboard:

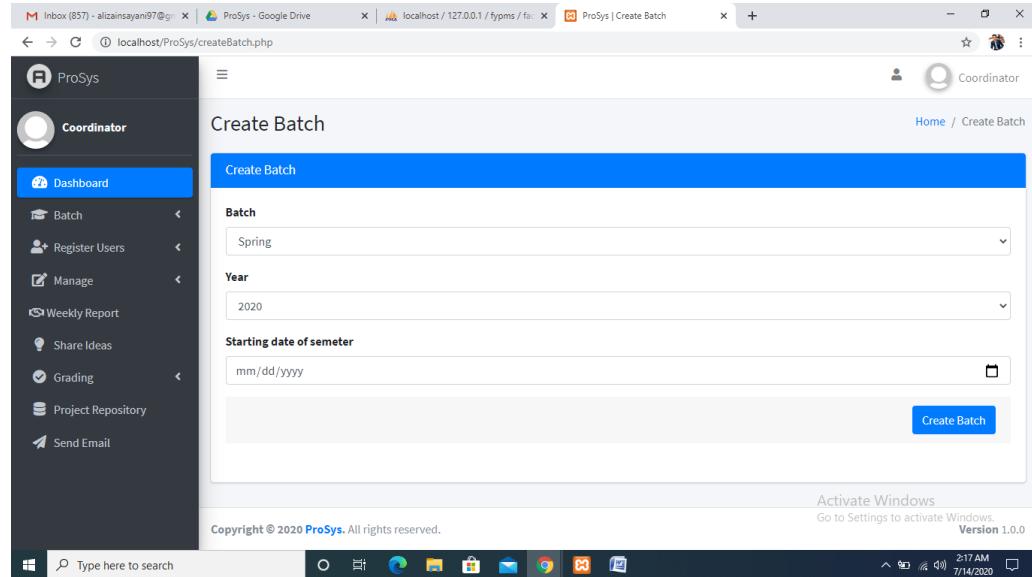


Description:

It's a dashboard of coordinator panel.

Figure 15:

Create Batch:



Description:

In this figure, coordinator can create batch according to the semester.

Figure 16:

Batch Templates:

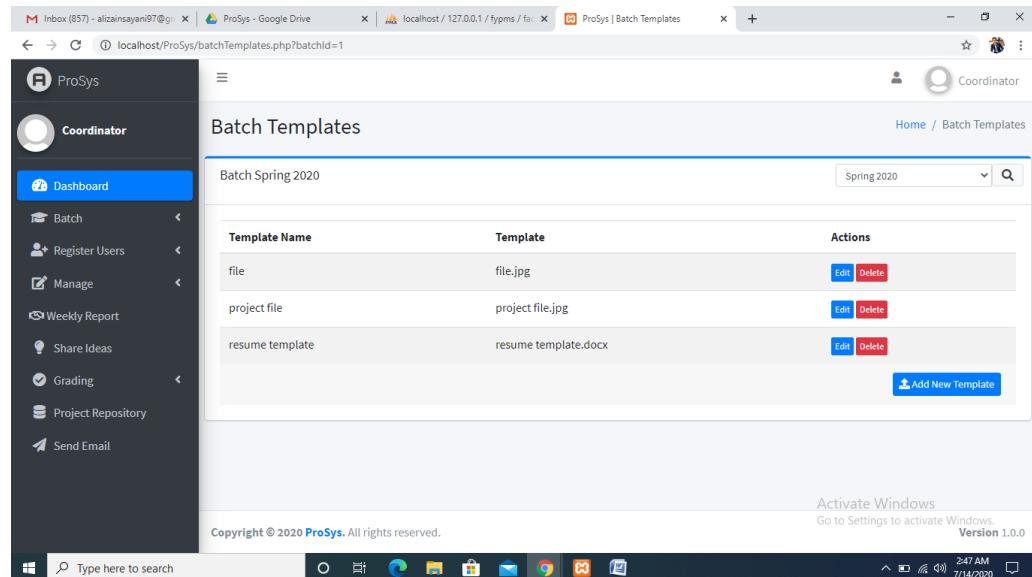
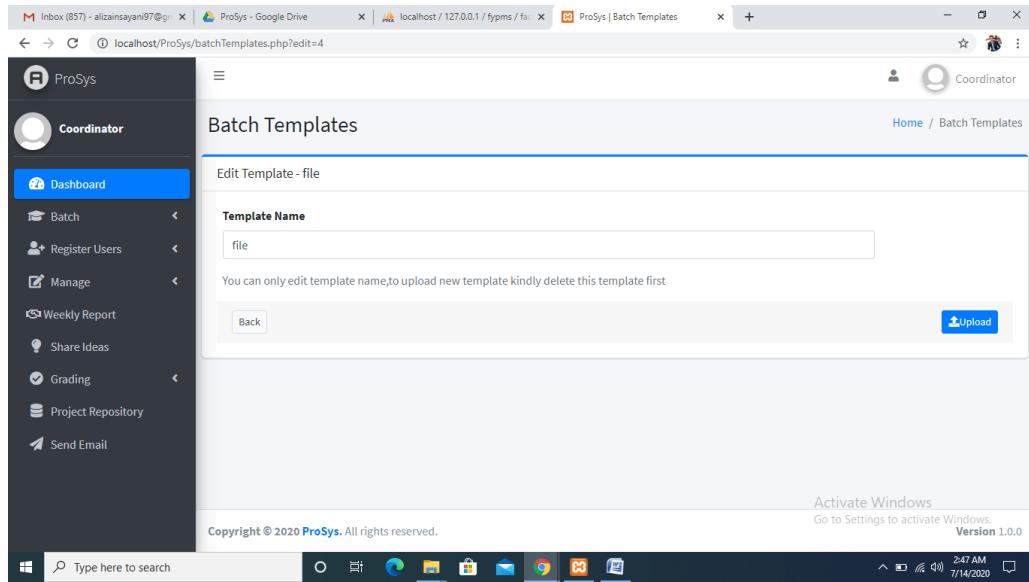


Figure 17:



Description:

In figure 16 and 17, Coordinator can add new templates for the students and they can also edit the template.

Figure 18:

Batch Task:

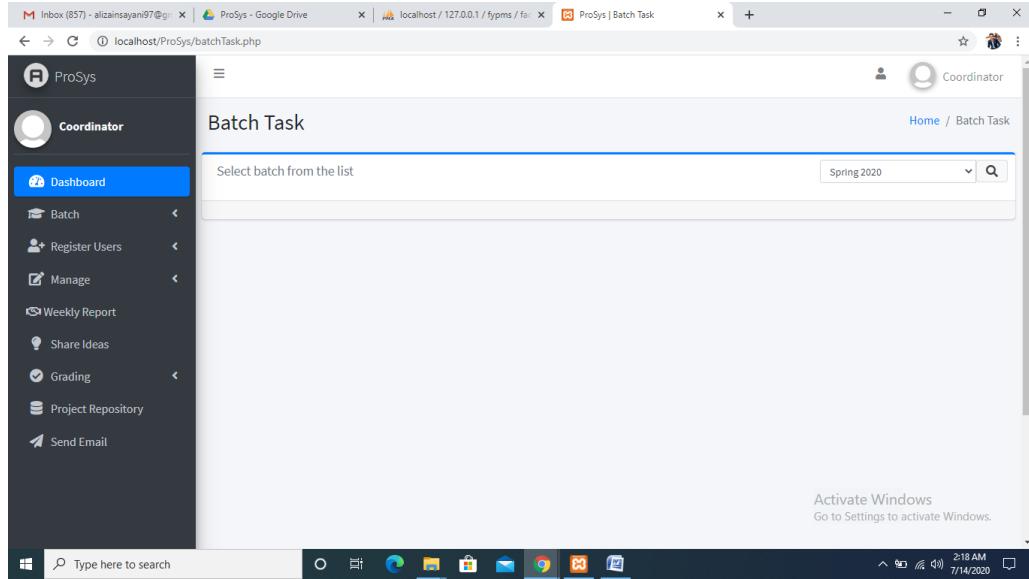


Figure 19:

The screenshot shows a web-based application interface for 'ProSys'. The left sidebar contains navigation links: Dashboard, Batch, Register Users, Manage, Weekly Report, Share Ideas, Grading, Project Repository, and Send Email. The main content area is titled 'Batch Task' and displays a table of tasks for 'Batch Spring 2020'. The table columns are Week, Task Name, Task Details, Deadline, Template, and Actions. The tasks listed are: '1 idea selection' (Deadline: 2020-04-06 12:34:00), '1 ERD' (Deadline: 2020-04-14 12:00:00), and '3 idea selection 2' (Deadline: 2020-04-23 13:59:00). Each task has a 'file' link under 'Template' and a 'Delete' button under 'Actions'. Below the table, it says 'Showing 1 to 3 of 3 entries'. At the bottom right, there are 'Previous', '1', and 'Next' buttons, along with a 'Back' link. A blue 'Add New Task' button is located at the bottom right of the table area. The status bar at the bottom shows '2:53 AM 7/14/2020'.

Description:

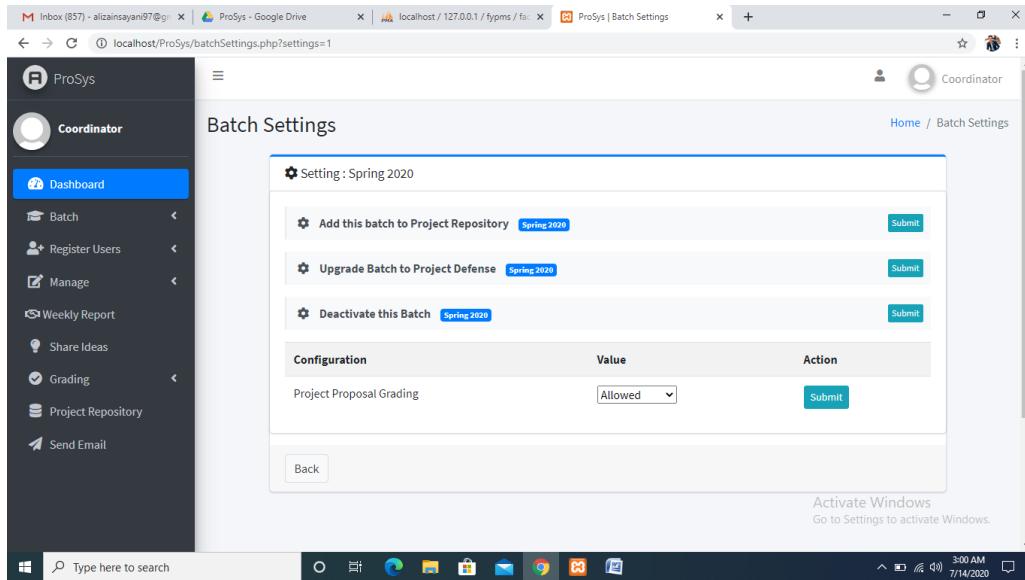
In figure 18 and 19, we can select and edit batch task from the list.

Figure 20:

Batch Settings:

The screenshot shows a web-based application interface for 'ProSys'. The left sidebar contains navigation links: Dashboard, Batch, Register Users, Manage, Weekly Report, Share Ideas, Grading, Project Repository, and Send Email. The main content area is titled 'Batch Settings' and displays a table titled 'List of Batch'. The table columns are Batch Name, fyp Part, Start Date, Status, and Actions. The batches listed are: 'Spring 2020' (fyp Part: 1, Start Date: 2020-01-01, Status: Active), 'Fall 2020' (fyp Part: 1, Start Date: 2020-03-30, Status: Active), and 'Spring 2019' (fyp Part: 1, Start Date: 2020-04-05, Status: Inactive). Each row has a 'Settings' button under 'Actions'. Below the table, it says 'Activate Windows Go to Settings to activate Windows.' The status bar at the bottom shows '2:25 AM 7/14/2020'.

Figure 21:

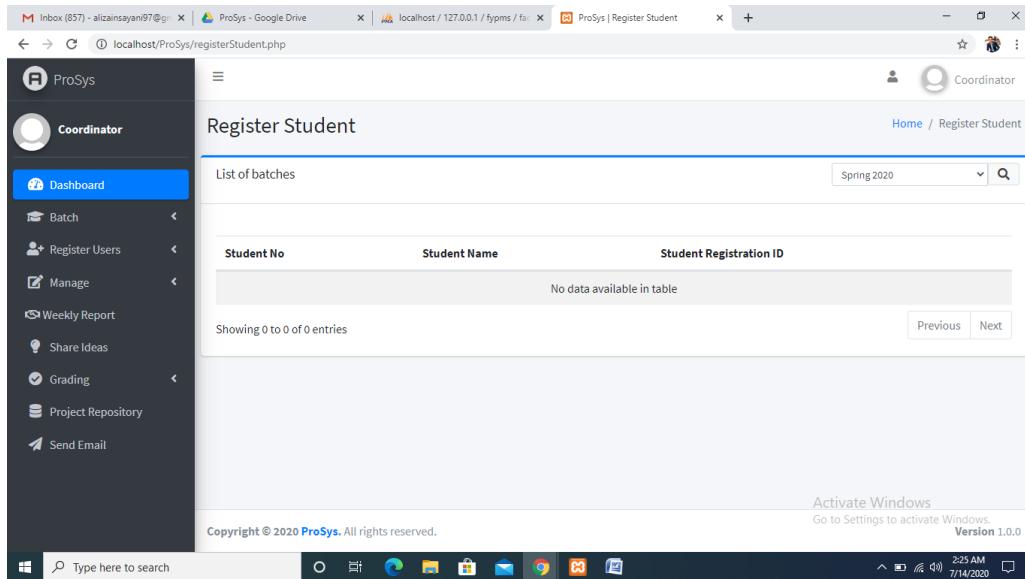


Description:

There is a batch setting where they can change the settings and also edit it.

Figure 22:

Register Student:



Description:

Students who are registered, their list will save in register student.

Figure 23:

Register Faculty:

The screenshot shows a web browser window with the URL `localhost/ProSys/registerFaculty.php`. The page is titled "Register Faculty". On the left, there is a dark sidebar menu with items like "Dashboard", "Batch", "Register Users", "Manage", "Weekly Report", "Share Ideas", "Grading", "Project Repository", and "Send Email". The main content area has a form with fields for "Enter Registration ID", "Enter Full name", "Student Quota", and "Supervisor". Below the form is a table listing faculty details:

Faculty No	Faculty Name	Faculty Registration ID	Designation
1	Coordinator	00-11-123	Coordinator
2	Ridah Fatima Mudassir	00-11-124	Supervisor
3	Noman Islam	00-11-125	Supervisor
4	S.jamal haider zaidi	00-11-126	Supervisor
5	Walid ahmed	00-11-127	Supervisor
6	alizain Aziz	00-11-128	Coordinator

At the bottom right of the table, there are buttons for "Previous" and "Next". The status bar at the bottom of the browser window shows "2:26 AM 7/14/2020".

Description:

In this figure, coordinator can register the faculty by their details.

Figure 24:

Manage Batch:

The screenshot shows a web browser window with the URL `localhost/ProSys/manageBatch.php`. The page is titled "Manage Batch". The left sidebar is identical to Figure 23. The main content area shows a table titled "List of Batch":

Batch Name	FYP Part	Registered Students	Start Date	Status
Spring 2020	Project Proposal	15	2020-01-01	Active
Fall 2020	Project Proposal	4	2020-03-30	Active
Spring 2019	Project Proposal	0	2020-04-05	Inactive

At the bottom right of the table, there are buttons for "Previous" and "Next". The status bar at the bottom of the browser window shows "2:29 AM 7/14/2020".

Description:

Coordinator can manage batch according to the semester.

Figure 25:

Manage Students:

The screenshot shows a web browser window for the ProSys application. The title bar includes tabs for 'Inbox (857) - alizainsayani97@gmail.com', 'ProSys - Google Drive', 'localhost/127.0.0.1/fyppms/fyppms...', and 'ProSys | Manage Students'. The main content area is titled 'Manage Students' and displays a list of students under 'List of students'. A dropdown menu shows 'Spring 2020' and a search icon. On the left, a sidebar menu for 'Coordinator' includes 'Dashboard', 'Batch', 'Register Users', 'Manage', 'Weekly Report', 'Share Ideas', 'Grading', 'Project Repository', and 'Send Email'. The bottom right corner shows 'Activate Windows', 'Version 1.0.0', and system status icons.

Description:

Coordinator also manages students according to the semester.

Figure 26:

Manage Student Group:

The screenshot shows a web browser window for the ProSys application. The title bar includes tabs for 'Inbox (857) - alizainsayani97@gmail.com', 'ProSys - Google Drive', 'localhost/127.0.0.1/fyppms/fyppms...', and 'ProSys | Manage Student Groups'. The main content area is titled 'Manage Student Groups' and displays a table titled 'List of Groups'. The table has columns for 'Batch', 'Project Name', 'Group Members', and 'Actions'. It lists groups like 'IU Chat Bot', 'proSys', 'smart robot', 'yycvg', 'Smart Card', and 'chatterbot' from Spring 2020 and Fall 2020 respectively, along with their members. A dropdown menu shows 'Show 10 entries' and a search bar. On the left, a sidebar menu for 'Coordinator' includes 'Dashboard', 'Batch', 'Register Users', 'Manage', 'Weekly Report', 'Share Ideas', 'Grading', 'Project Repository', and 'Send Email'. The bottom right corner shows 'Activate Windows', 'Version 1.0.0', and system status icons.

Figure 27:

The screenshot shows a web browser window titled "ProSys | Manage Student Groups". The left sidebar is titled "Coordinator" and includes links for Dashboard, Batch, Register Users, Manage, Weekly Report, Share Ideas, Grading, Project Repository, and Send Email. The main content area is titled "Manage Student Groups" and displays a project named "IU Chat Bot" supervised by "Noman Islam". It shows two group members: Khalid Ahmed (Leader) and sohaib bilal zafar. A "Remove Group" button is visible. The status bar at the bottom indicates "Activate Windows" and the date "7/14/2020".

Description:

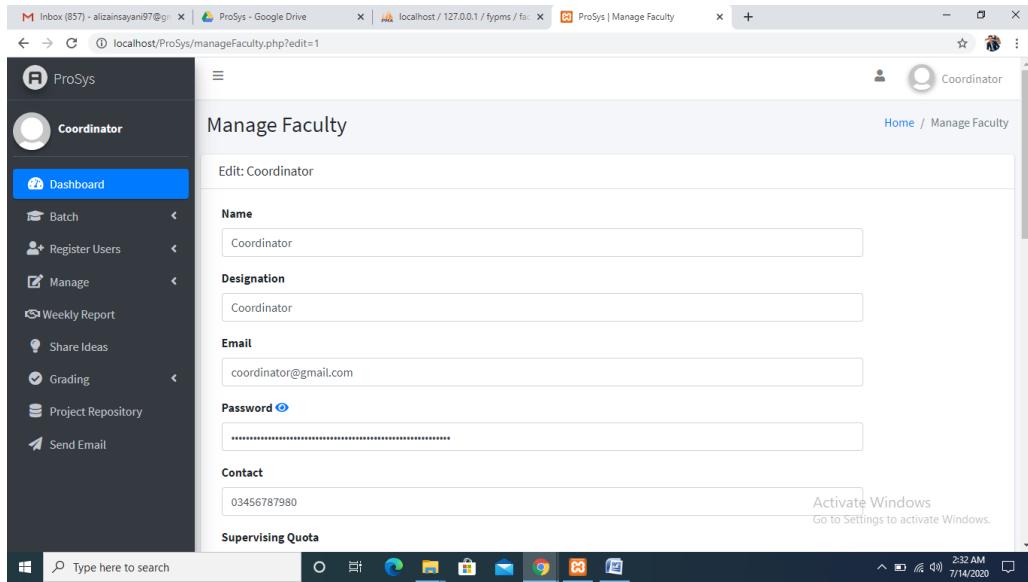
Coordinator can manage students' group according to batch and project. In figure 27, there are also the details of the group.

Figure 28:

Manage Faculty:

The screenshot shows a web browser window titled "ProSys | Manage Faculty". The left sidebar is titled "Coordinator" and includes links for Dashboard, Batch, Register Users, Manage, Weekly Report, Share Ideas, Grading, Project Repository, and Send Email. The main content area is titled "Manage Faculty" and displays a "Faculty List" with four entries: Coordinator (Coordinator), Ridah Fatima Mudassir (Supervisor), Noman Islam (Supervisor), and S.jamal haider zaidi (Supervisor). Each entry shows their name, email, status (Active), and actions (Edit and Delete). A "Search:" input field is present above the list. The status bar at the bottom indicates "Activate Windows" and the date "7/14/2020".

Figure 29:

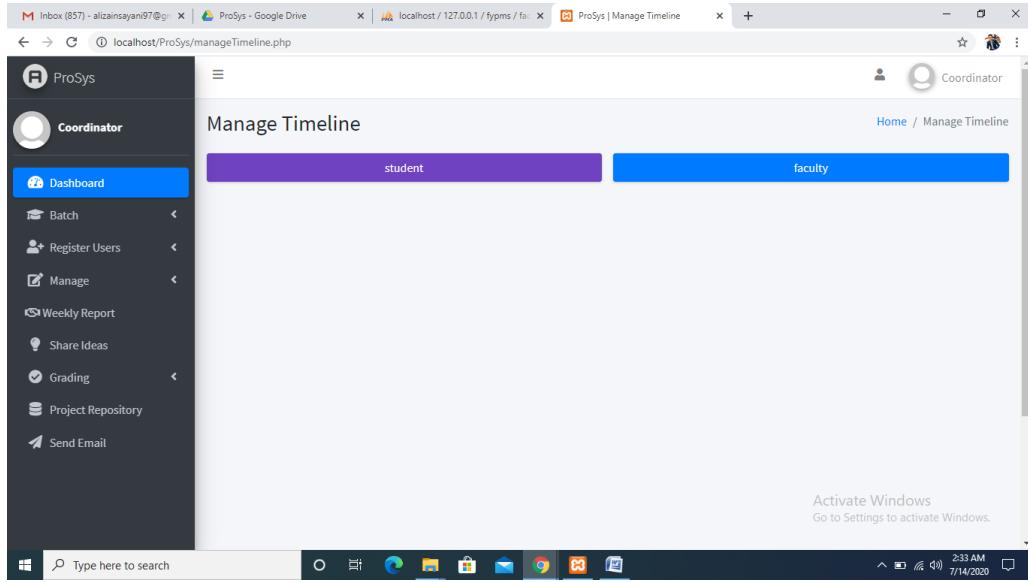


Description:

Coordinator also manage faculty list and edit their details.

Figure 30:

Manage Timeline:



Description:

Coordinator can manage timeline of both students and faculty.

Figure 31:

Student Timeline:

The screenshot shows the ProSys application interface. On the left is a dark sidebar with a navigation menu: Dashboard (selected), Batch, Register Users, Manage, Weekly Report, Share Ideas, Grading, Project Repository, and Send Email. The main area has a header "Manage Timeline" with tabs for "student" (selected) and "faculty". Below is a table titled "Student Timeline" with columns: Title, Details, Type, Batch, Created, and Actions. Two entries are listed:

Title	Details	Type	Batch	Created	Actions
Info	Ridah Fatima Mudassir is now supervising group chatterbot	info	Fall 2020	last month	Edit Delete
Batch Upgraded	Fall 2020 has been upgraded to Project Defense	info	Fall 2020	last month	Edit Delete

Figure 32:

The screenshot shows the ProSys application interface. The sidebar and header are identical to Figure 31. The main area shows a modal dialog titled "Edit: Info" with fields for Title (set to "Info"), Details (set to "Ridah Fatima Mudassir is now supervising group chatterbot"), and Type (set to "info"). At the bottom right of the dialog is a "Submit" button.

Description:

In figure 31 and 32, coordinator can manage student timeline and also edit their information.

Figure 33:

Faculty Timeline:

The screenshot shows the ProSys application interface. On the left is a dark sidebar with a navigation menu. The main area is titled "Manage Timeline" and has tabs for "student" and "faculty". The "faculty" tab is selected. Below the tabs is a table titled "Faculty Timeline" with columns: Title, Details, Type, Batch, Created, and Actions. There are three entries in the table:

Title	Details	Type	Batch	Created	Actions
Info	Ridah Fatima Mudassir is now supervising group chatterbot	info	Fall 2020	2020-06-06 23:10:06	<input checked="" type="button"/> Edit <input type="button"/> Delete
Batch Upgraded	Fall 2020 has been upgraded to Project Defense	info	Fall 2020	2020-06-06 23:07:36	<input checked="" type="button"/> Edit <input type="button"/> Delete
Batch Upgraded	Fall 2020 has been upgraded to Project Defense	info	Fall 2020	2020-06-06 22:42:05	<input checked="" type="button"/> Edit <input type="button"/> Delete

At the bottom right of the table, there is a message: "Activate Windows Go to Settings to activate Windows." The status bar at the bottom of the screen shows the date and time as 7/14/2020 2:34 AM.

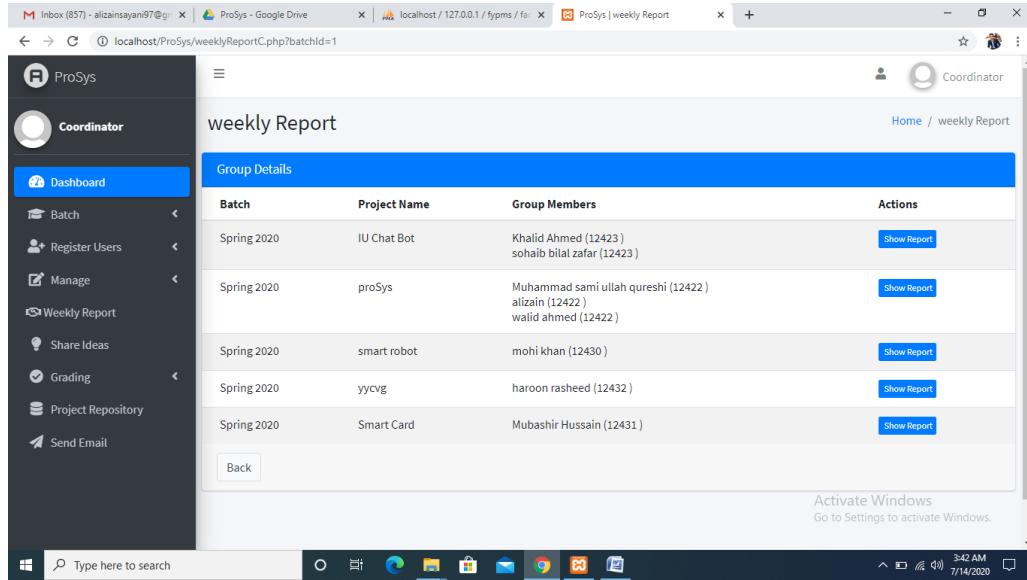
Figure 34:

The screenshot shows the ProSys application interface. On the left is a dark sidebar with a navigation menu. The main area is titled "Manage Timeline" and has tabs for "student" and "faculty". The "faculty" tab is selected. A modal window titled "Edit: Info" is open. It contains fields for "Title" (set to "Info") and "Details" (containing the text "Ridah Fatima Mudassir is now supervising group chatterbot"). Below these is a "Type" field set to "info". At the bottom of the modal are "Cancel" and "Submit" buttons. The status bar at the bottom of the screen shows the date and time as 7/14/2020 2:34 AM.

Description:

In figure 33 and 34, coordinator can manage faculty timeline and also edit their information.

Figure 35:



Description:

In this figure, coordinator can make weekly report of the groups.

Figure 36:

Share Idea:

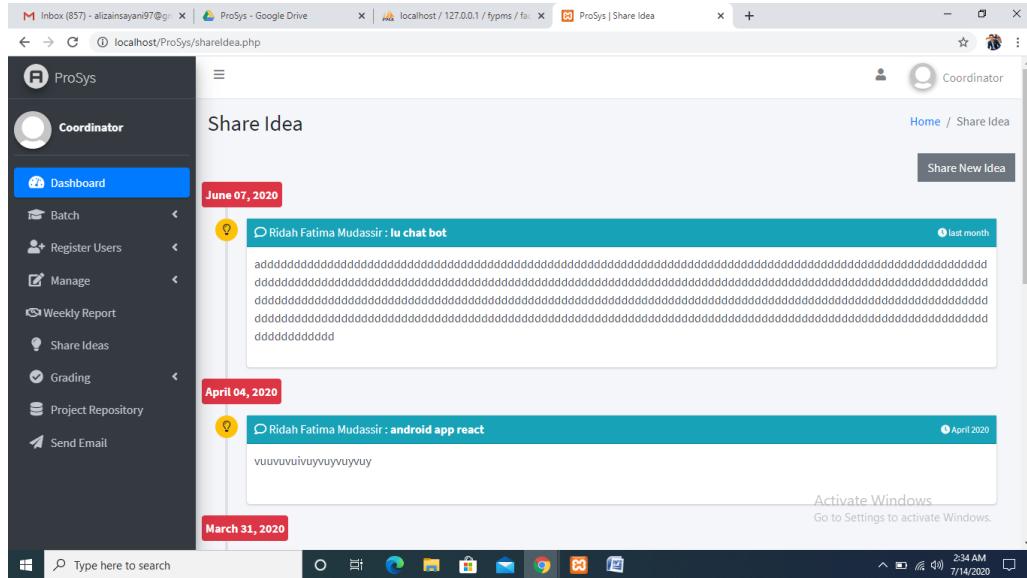
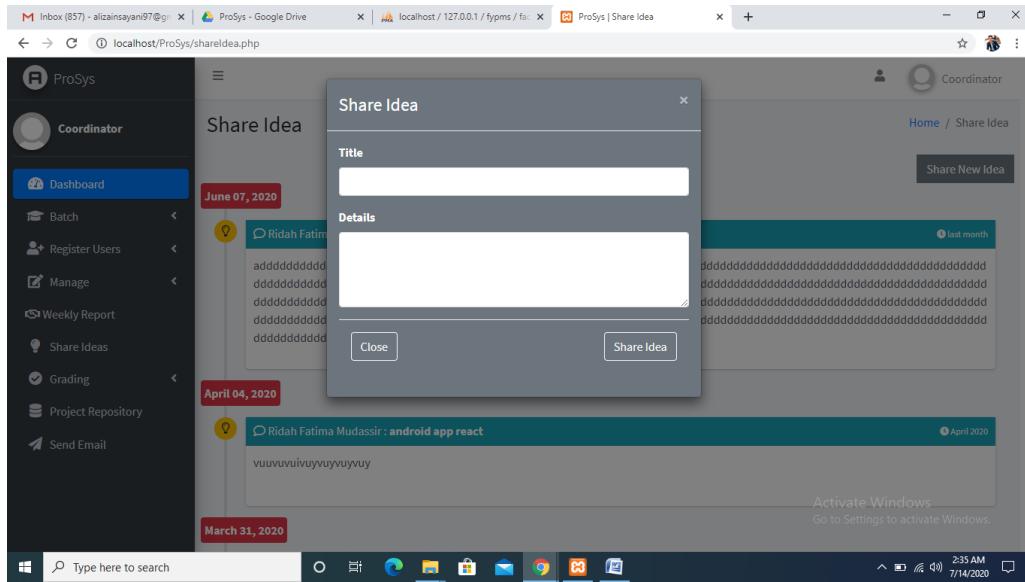


Figure 37:

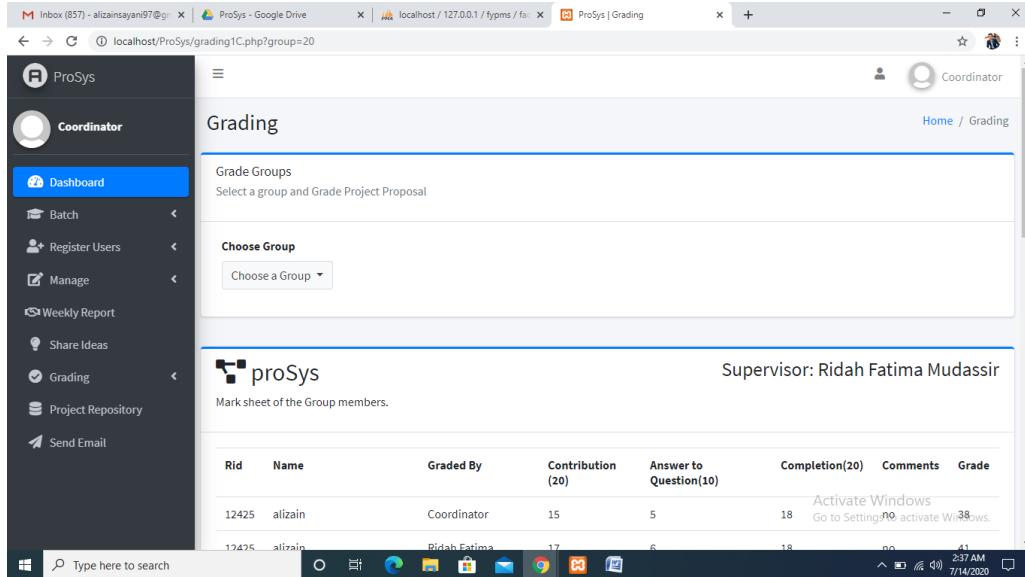


Description:

In figure 36 and 37, everyone can share their new ideas.

Figure 38:

Grading:



Description:

In this figure, coordinator and supervisor choose groups and assign grades.

Figure 39:

Project Repository:

The screenshot shows a web-based project management system. The left sidebar has a 'Coordinator' profile and a navigation menu with 'Dashboard' (selected), 'Batch', 'Register Users', 'Manage', 'Weekly Report', 'Share Ideas', 'Grading', 'Project Repository' (selected), and 'Send Email'. The main content area is titled 'Project Repository' and shows a table titled 'List of Projects'. The table columns are 'Batch', 'Group', 'Project Name', 'Supervisor', and 'Actions'. The data rows are:

Batch	Group	Project Name	Supervisor	Actions
Spring 2020	Group # 20	proSys	Ridah Fatima Mudassir	Details
Spring 2020	Group # 16	IU Chat Bot	Noman Islam	Details
Spring 2020	Group # 22	yycvg	Noman Islam	Details
Spring 2020	Group # 21	smart robot	Ridah Fatima Mudassir	Details

Below the table, it says 'Showing 1 to 4 of 4 entries'. A Windows activation watermark is visible in the center.

Figure 40:

The screenshot shows the same project management system. The main content area is titled 'Project Repository' and shows two sections: 'proSys' and 'Members'. The 'Members' section lists:

Rid	Name	Email	Contact
12520	Muhammad sami ullah qureshi		
12425	alizain		
12422	walid ahmed	walidkhan@gmail.com	03122990486

Below this is a 'Group Uploads' section with:

Deliverable	Uploaded by	Uploaded	Actions
idea selection	walid ahmed	2020-04-05 09:35:10	Download

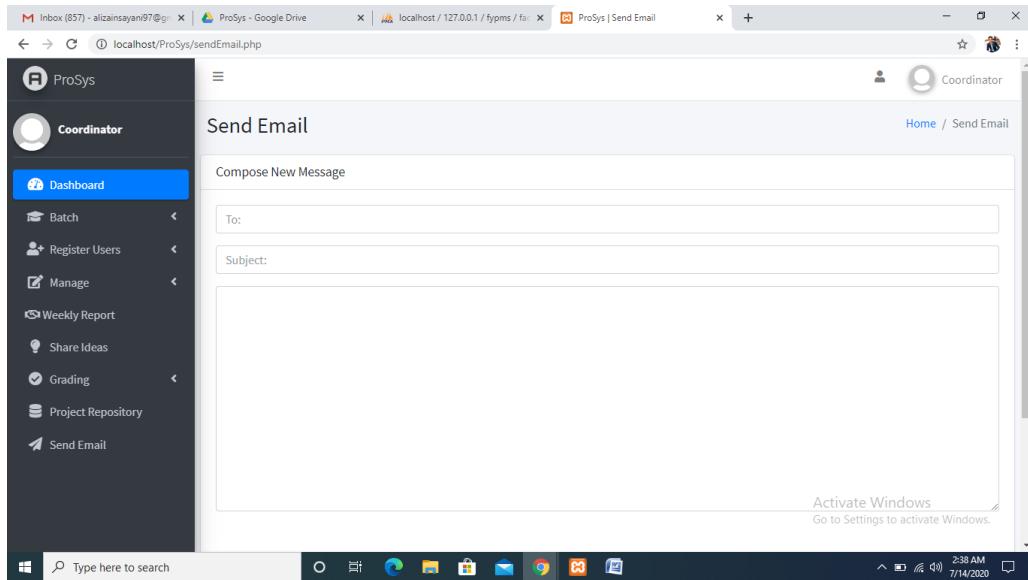
A Windows activation watermark is visible in the center.

Description:

In this figure, there is a list of projects with their details.

Figure 41:

Send Email:



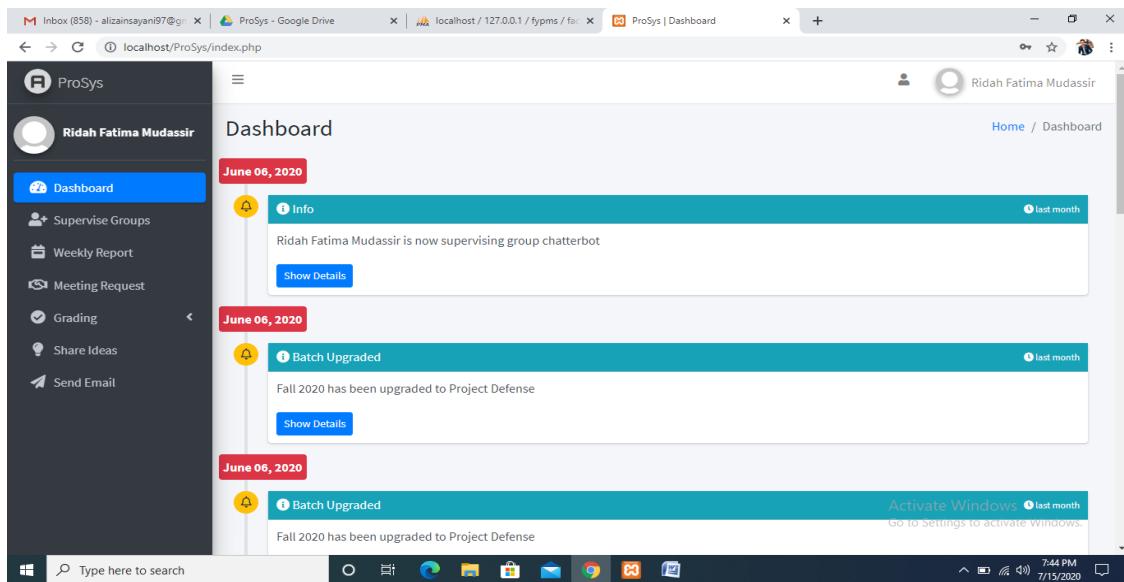
Description:

Everyone can send email to anyone.

Supervisor:

Figure 42:

Dashboard:



Description:

It is a dashboard of supervisor panel.

Figure 43:

The screenshot shows the ProSys application interface. On the left is a dark sidebar with a user profile picture and the name 'Ridah Fatima Mudassir'. Below the profile are several menu items: Dashboard (highlighted in blue), Supervise Groups, Weekly Report, Meeting Request, Grading, Share Ideas, and Send Email. The main content area has a title 'Supervise Group' and a sub-header 'list of Groups'. A table displays three groups: proSys (Group 20, Spring 2020), smart robot (Group 21, Spring 2020), and chatterbot (Group 24, Fall 2020). Each group row has 'Details' and 'Deliverables' buttons. At the bottom of the main content area, there is a copyright notice 'Copyright © 2020 ProSys. All rights reserved.' and a message 'Activate Windows' with a link to settings. The bottom of the screen shows a Windows taskbar with various icons and the system clock showing 7:44 PM on 7/15/2020.

Figure 44:

This screenshot is similar to Figure 43 but focuses on a specific group. The sidebar and main content area are identical. In the main content area, the 'Details' button for the 'proSys' group (Group 20) is highlighted. Below the table, a new section titled 'Group Members Details' is visible. It contains a table with three rows of member information: Rid 12520, Name Muhammad sami ullah qureshi; Rid 12425, Name alizain; and Rid 12422, Name walid ahmed, Email walidkhan@gmail.com. The 'Contact' column for the last member contains the text 'Activate 03122990486' and a link to 'Go to Settings to activate Windows'. The bottom of the screen shows a Windows taskbar with various icons and the system clock showing 7:45 PM on 7/15/2020.

Figure 45:

The screenshot shows the 'Supervise Group' page of the ProSys application. On the left, there is a sidebar with a user profile for 'Ridah Fatima Mudassir' and a navigation menu with options like Dashboard, Supervise Groups, Weekly Report, Meeting Request, Grading, Share Ideas, and Send Email. The main content area has a title 'Supervise Group' and a sub-section 'list of Groups'. A table displays three groups: proSys (Group 20, Spring 2020), smart robot (Group 21, Spring 2020), and chatterbot (Group 24, Fall 2020). Each group row has 'Details' and 'Deliverables' buttons. Below this, a section titled 'Group Deliverables' shows a table with columns Title, Deliverable, Uploaded, and Uploaded by. The table currently has one entry: 'Activate Windows' uploaded by 'Activate Windows' on 7/15/2020 at 7:45 PM. A message at the bottom right says 'Go to Settings to activate Windows.'

Description:

In figure 43, there is a list of groups and in figure 44, there is a list of details of group members and in figure 45, group deliverables are given.

Figure 46:

The screenshot shows the 'Weekly Report' page of the ProSys application. The sidebar is identical to Figure 45. The main content area has a title 'Weekly Report' and a sub-section 'Weekly Reports'. A message 'NO groups availables' is displayed. There is a blue button labeled '+ Weekly Report'. A message at the bottom right says 'Activate Windows' and 'Go to Settings to activate Windows.'

Description:

In this figure, supervisor adds weekly report of particular groups.

Figure 47:

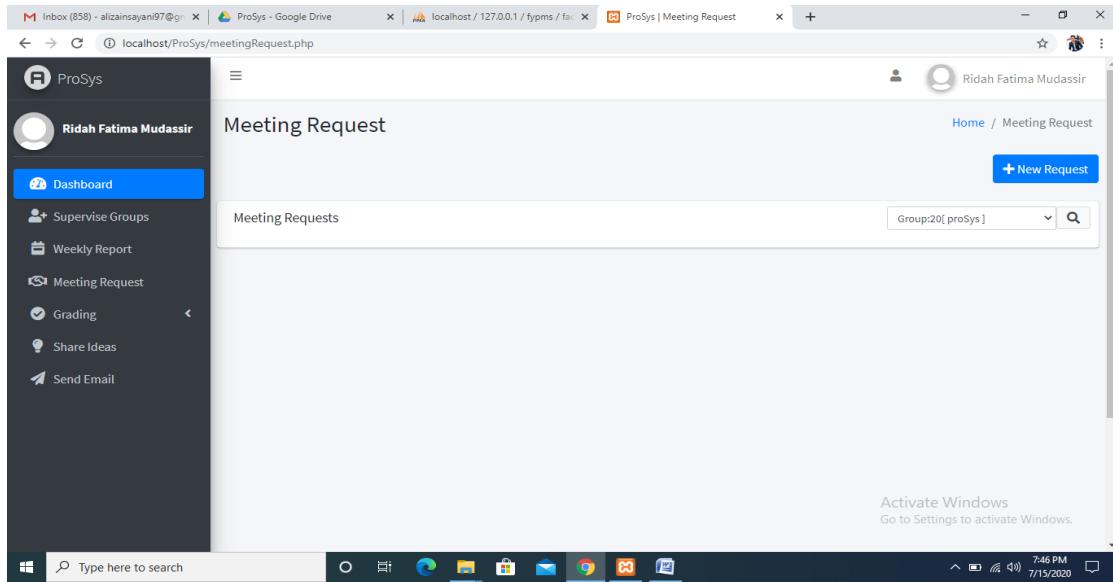
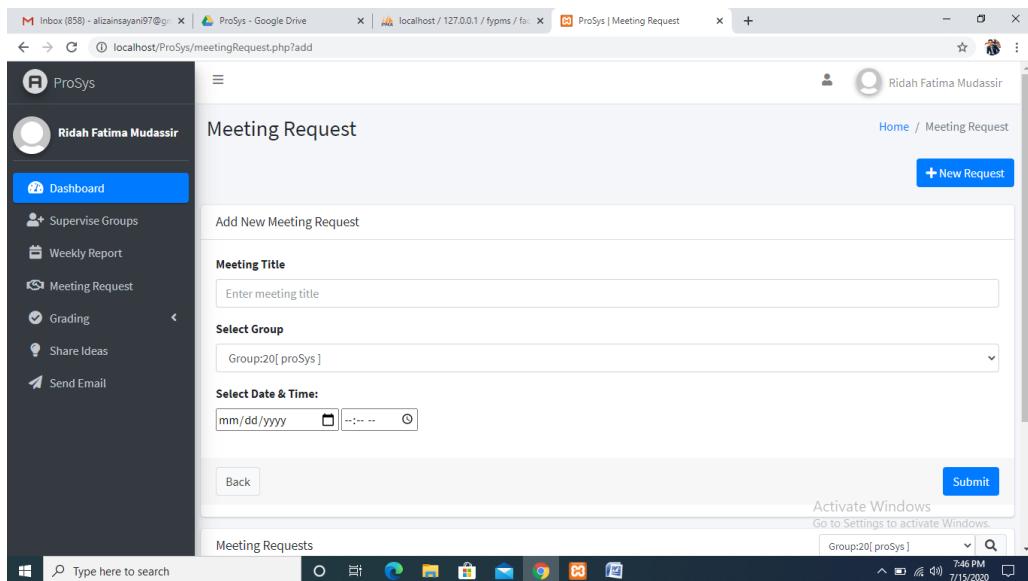


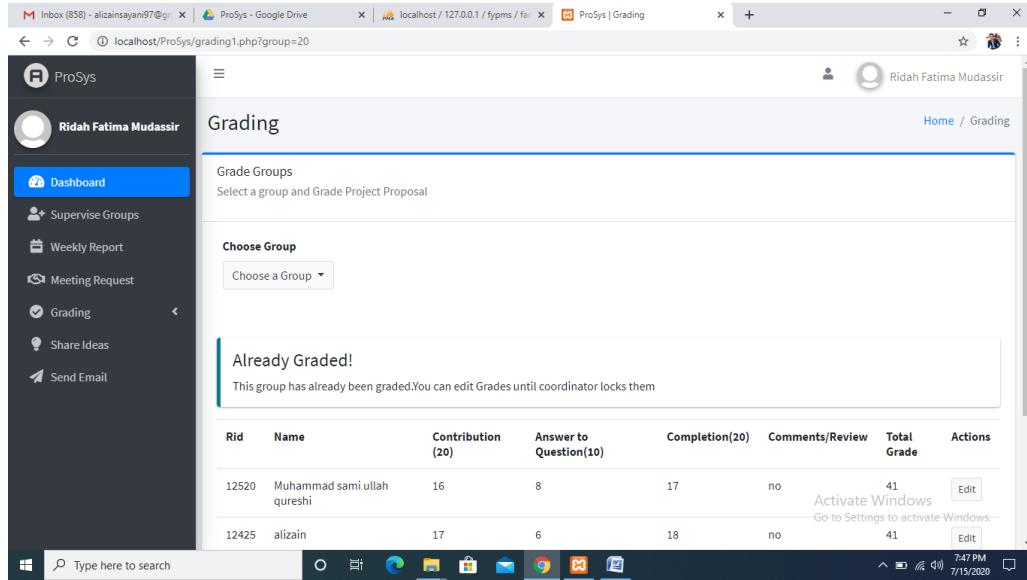
Figure 48:



Description:

In meeting request, supervisor gives meeting request to every group with date and time.

Figure 49:



Description:

In this figure, supervisor choose group and give grades to every particular group member.

Figure 50:

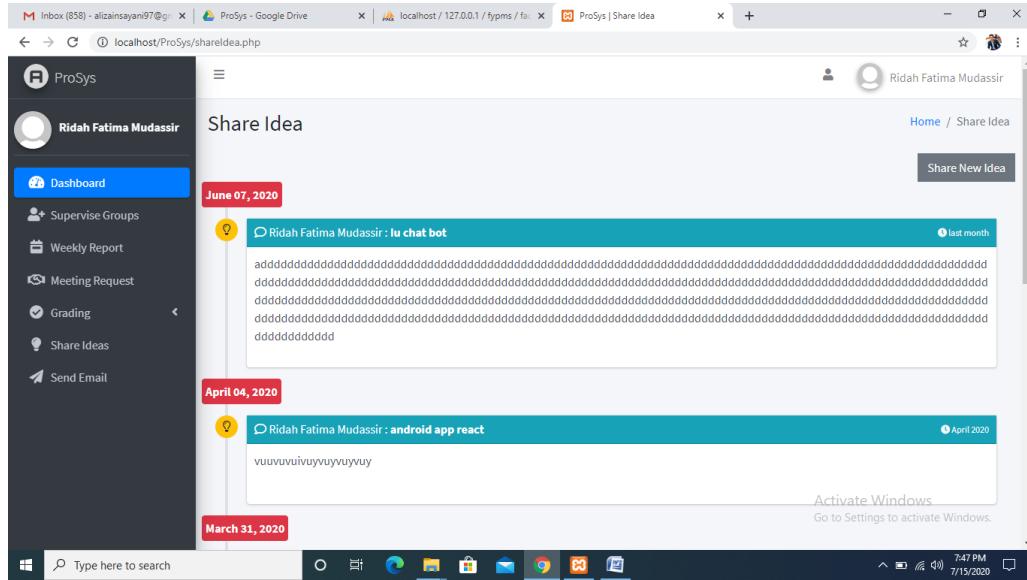
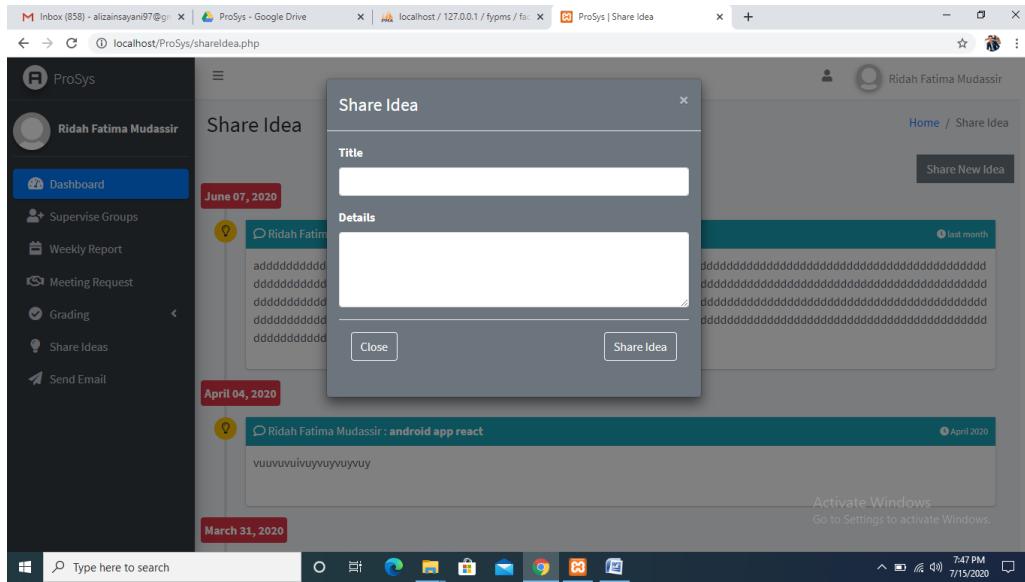


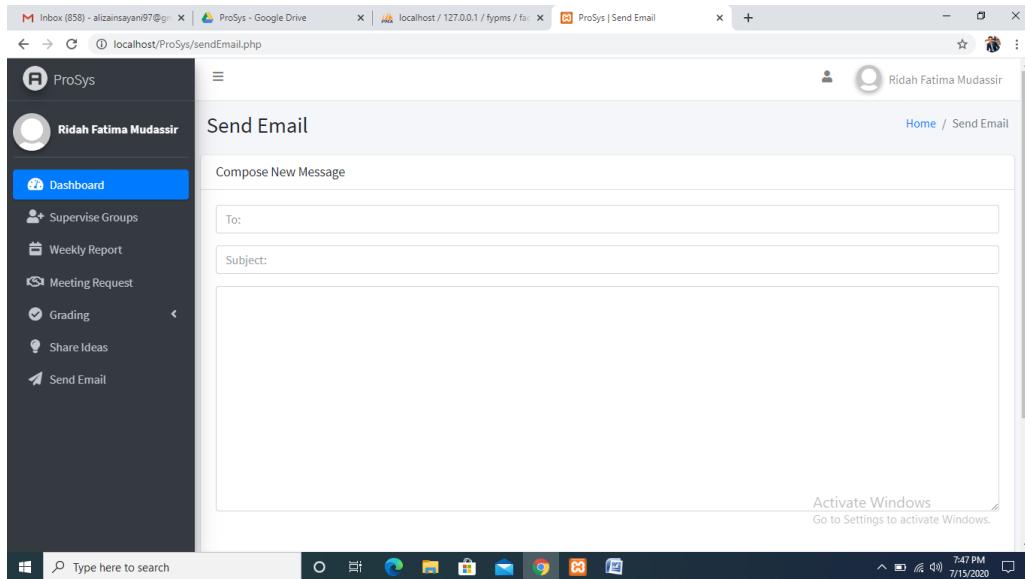
Figure 51:



Description:

In figure 50 and 51, supervisor shares new ideas to groups.

Figure 52:



Description:

In this figure, supervisor sends email to which he or she wants to send.

5.2 Physical ERD of the database design

batch

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
batchId	int(255)		No		auto_increment			
batchName	varchar(255)		No					
startingDate	date		Yes	NULL				
isActive	tinyint(4)		Yes	0			0= inactive , 1= active	
fypPart	tinyint(1)		Yes	1			0 or 1	
createdDtm	datetime		Yes	current_timestamp()				

batch_settings

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
settingId	int(11)		No		auto_increment			
batchId	int(255)		No			-> batch.batchId ON UPDATE RESTRICT ON DELETE RESTRICT		
fyp1_grading	tinyint(1)		No					
fyp2_grading	tinyint(1)		No					

batch_tasks

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
taskId	int(11)		No		auto_increment			
batchId	int(11)		Yes	NULL		-> batch.batchId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
fypPart	tinyint(1)		Yes	1				
taskName	text		Yes	NULL				
taskDetail	text		Yes	NULL				
taskWeek	int(11)		Yes	NULL				
taskDeadline	datetime		Yes	NULL				
templateId	int(11)		Yes	NULL				
hasDeliverable	tinyint(4)		No	0			1=has deliverable	
createdDtm	datetime		Yes	current_timestamp()				

batch_templates

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
templateId	int(11)		No		auto_increment			
batchId	int(11)		Yes	NULL		-> batch.batchId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
templateName	varchar(100)		Yes	NULL				
templateLocation	varchar(150)		Yes	NULL				
uploadedDt	datetime		Yes	current_timestamp()				

faculty

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
facultyId	int(255)		No		auto_increment			
facultyRid	varchar(50)		No					
facultyName	varchar(255)		No					
facultyPhoneNo	varchar(50)		No					
facultyEmail	varchar(255)		No					
designation	varchar(255)		No					
facultyImage	varchar(255)		Yes	NULL				
facultyPassword	varchar(255)		No					
isCoordinator	tinyint(1)		Yes	NULL				
createdDtm	datetime		No	current_timestamp()				
isActive	tinyint(1)		No					

faculty_student_group

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
facultyStudentId	int(255)		No		auto_increment			
groupId	int(255)		No			-> student_group.groupId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
facultyId	int(255)		No			-> faculty.facultyId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
remove_group	int(11)		No					

faculty_student_request

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
requestId	int(11)		No		auto_increment			
facultyId	int(11)		Yes	NULL		-> faculty.facultyId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
groupId	int(11)		Yes	NULL		-> student_group.groupId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
requestDtm	datetime		No	current_timestamp()				

grades

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(11)		No		auto_increment			
studentId	int(11)		Yes	NULL		-> student.studentId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
groupId	int(11)		Yes	NULL		-> student_group.groupId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
fypPart	int(11)		Yes	NULL				
contribution	int(255)		No					
anstoques	int(255)		No					
completion	int(255)		No					

presentation	int(255)		No					
novelty	int(255)		No					
comments	text		Yes	NULL				
grade	int(50)		Yes	NULL				
gradedBy	int(11)		Yes	NULL			User id of user	
iscord	int(255)		No					
gradeDtm	datetime		Yes	current_timestamp()				

group_requests

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
requestId	int(255)		No		auto_increment			
studentId	int(255)		No			-> student.studentId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
groupId	int(255)		No			-> student_group.groupId ON UPDATE NO_ACTION ON DELETE NO_ACTION		

group_uploads

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(11)		No		auto_increment			
groupId	int(11)		No			-> faculty_student_group.groupId ON UPDATE NO_ACTION ON DELETE NO_ACTION		

taskId	int(11)		No			-> batch_tasks.taskId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
uploadFile	varchar(50)		No					
uploadedBy	int(11)		No			-> student.studentId ON UPDATE NO_ACTION ON DELETE NO_ACTION	userId of uploader	
uploadedDt m	datetime		No	current_t imestamp()				

meeting_requests

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(11)		No		auto_incr eament			
supervisor_i d	int(11)		No			-> faculty.facultyId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
group_id	int(11)		No			-> faculty_student_ group.groupId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
meeting_title	varchar(50)		No					
meeting_dt m	datetime		No					
comments	text		Yes	NULL				
meeting_st atus	enum('Pending', 'Done', 'Cancelled', 'Postponed')		No	Pending				
created_dtm	datetime		No	current_t imestamp()				

notification

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
notificationId	int(11)		No		auto_increment			
studentId	int(255)		Yes	NULL		-> student.studentId ON UPDATE SET_NULL ON DELETE NO_ACTION		
batchId	int(255)		Yes	NULL		-> batch.batchId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
taskId	int(255)		Yes	NULL		-> batch_tasks.taskId ON UPDATE NO_ACTION ON DELETE NO_ACTION		

project_repository

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(11)		No		auto_increment			
batchId	int(11)		No	0		-> batch.batchId ON UPDATE RESTRICT ON DELETE RESTRICT		

share_idea

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
shareId	int(255)		No		auto_increment			
title	text		Yes	NULL				
details	text		Yes	NULL				
facultyName	text		No					
facultyId	int(255)		No			-> faculty.facultyId ON UPDATE RESTRICT ON DELETE RESTRICT		
fypPart	int(11)		Yes	NULL				
createdDtm	datetime		No	current_timestamp()				

student

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
studentId	int(255)		No		auto_increment			
studentName	varchar(255)		No					
studentRid	varchar(50)		No					
studentEmail	varchar(255)		No					
studentPhoneNo	varchar(50)		No					
studentGender	varchar(10)		No					
studentPassword	varchar(255)		No					
studentImage	varchar(45)		Yes	NULL				
groupId	int(255)		Yes	NULL				
isLeader	int(1)		Yes	NULL				
batchId	int(4)		Yes	NULL		-> batch.batchId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
isActive	tinyint(1)		No	1				
isVerify	int(11)		No					

createdDtm	datetime		No	current_timestamp()				
------------	----------	--	----	---------------------	--	--	--	--

student_group

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
groupId	int(255)		No		auto_increment			
projectName	varchar(255)		Yes	NULL				
categories	varchar(255)		No					
description	text		No					
batchId	int(11)		Yes	NULL				
fypPart	int(1)		No	1			Here to check before deleting group	
groupLimit	int(1)		No	3				
inGroup	int(255)		No	1				
leaderId	int(255)		No			-> student.studentId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
createdDtm	datetime		No	current_timestamp()				

student_group_request

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
requestId	int(11)		No		auto_increment			
studentId	int(11)		No			-> student.studentId ON UPDATE NO_ACTION ON DELETE NO_ACTION	Request sent by	

groupId	int(11)		No			-> student_group.g roupId ON UPDATE NO_ACTION ON DELETE NO_ACTION	Request sent to group	
requestDtm	datetime		Yes	current_t imestam p()				

timeline_faculty

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(11)		No		auto_incr ement			
title	text		Yes	NULL				
details	text		Yes	NULL				
type	varchar(50)		Yes	NULL				
batchId	int(11)		Yes	NULL		-> batch.batchId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
fypPart	int(11)		Yes	NULL				
createdDtm	datetime		Yes	current_t imestam p()	on update c urrent_t imestam p()			

timeline_student

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(11)		No		auto_incr ement			
title	text		Yes	NULL				
details	text		Yes	NULL				
type	varchar(50)		Yes	NULL				
taskId	int(11)		Yes	NULL		-> batch_tasks.taskId ON UPDATE NO_ACTION ON DELETE NO_ACTION		

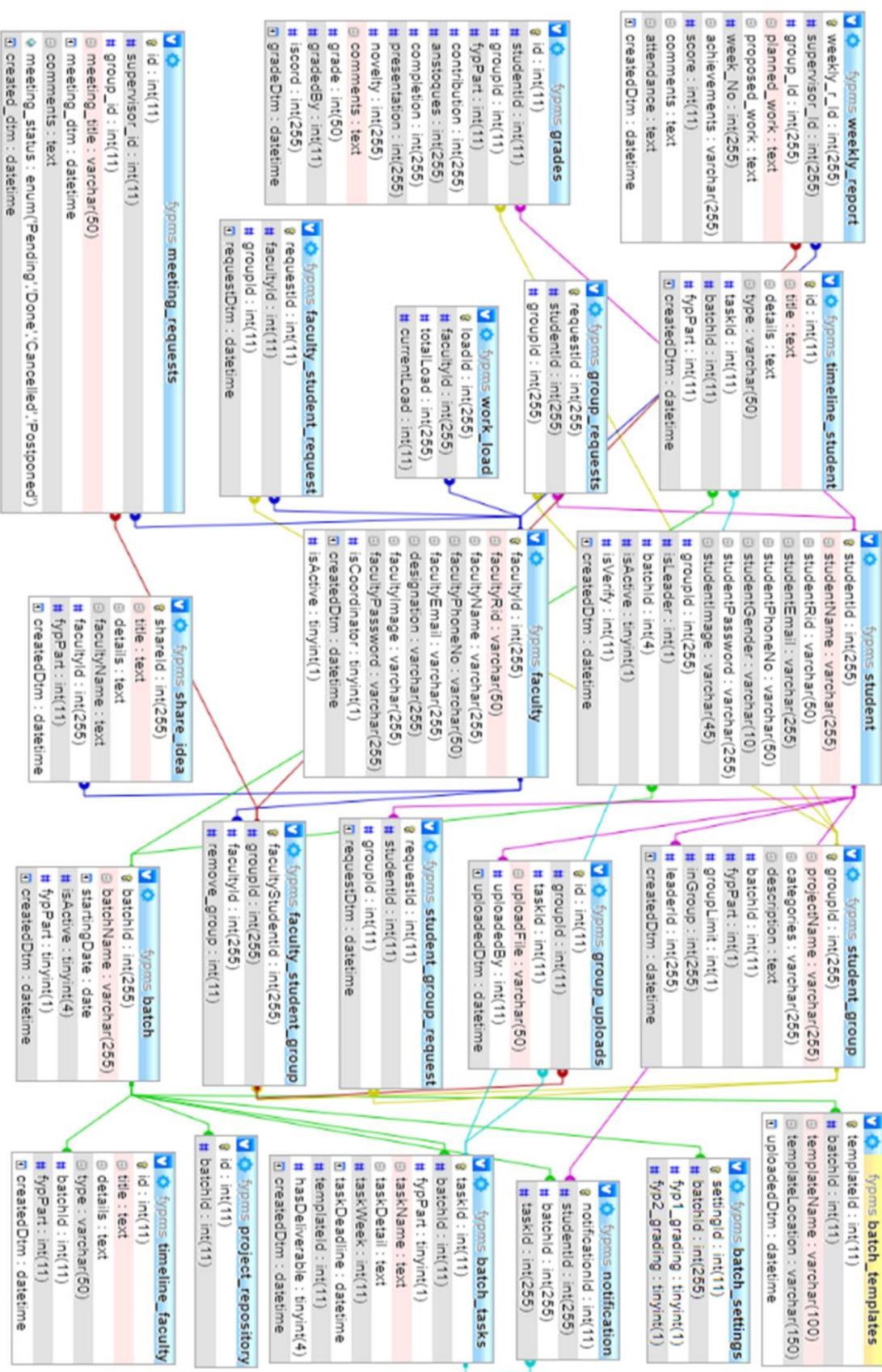
batchId	int(11)		Yes	NULL		-> batch.batchId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
fypPart	int(11)		Yes	NULL				
createdDtm	datetime		Yes	current_timestamp()	on update current_timestamp()			

weekly_report

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
weekly_r_Id	int(255)		No		auto_increment			
supervisor_Id	int(255)		No			-> faculty.facultyId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
group_Id	int(255)		No			-> faculty_student_group.groupId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
planned_work	text		Yes	NULL				
proposed_work	text		Yes	NULL				
week_No	int(255)		Yes	NULL				
achievements	varchar(255)		Yes	NULL				
score	int(11)		Yes	NULL				
comments	text		Yes	NULL				
attendance	text		Yes	NULL				
createdDtm	datetime		No	current_timestamp()				

work_load

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
loadId	int(255)		No		auto_increment			
facultyId	int(255)		No			-> faculty.facultyId ON UPDATE NO_ACTION ON DELETE NO_ACTION		
totalLoad	int(255)		No					
currentLoad	int(11)		Yes	0				



5.3 Different stages of development, add code or any logic

```
<?php  
$link = mysqli_connect("localhost","root","","fypms");  
date_default_timezone_set('Asia/Karachi');
```

- Database connection and Setting Time zone code:
- All Stylesheet link in the head File:

```
<meta charset="utf-8">  
<meta http-equiv="X-UA-Compatible" content="IE=edge">  
<title><?php if(isset($title) || isset($subtitle) ){  
| echo $title." | ".$subtitle;  
} else {  
| echo "ProSys";  
} ?></title>  
<!-- Tell the browser to be responsive to screen width -->  
<meta name="viewport" content="width=device-width, initial-scale=1">  
<!-- Font Awesome -->  
<link rel="stylesheet" href="plugins/fontawesome-free/css/all.min.css">  
<!-- Ionicons -->  
<link rel="stylesheet" href="https://code.ionicframework.com/ionicons/2.0.1/css/ionicons.min.css">  
<!-- SweetAlert2 -->  
<link rel="stylesheet" href="plugins/sweetalert2-theme-bootstrap-4/bootstrap-4.min.css">  
<!-- Tempusdominus Bootstrap 4 -->  
<link rel="stylesheet" href="plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css">  
<!-- iCheck -->  
<link rel="stylesheet" href="plugins/icheck-bootstrap/icheck-bootstrap.min.css">  
<!-- JQVMap -->  
<link rel="stylesheet" href="plugins/jqvmap/jqvmap.min.css">  
<!-- Theme style -->  
<link rel="stylesheet" href="dist/css/adminlte.min.css">  
<link rel="stylesheet" href="plugins/overlayScrollbars/css/OverlayScrollbars.min.css">  
<!-- Daterangepicker -->  
<link rel="stylesheet" href="plugins/daterangepicker/daterangepicker.css">  
<!-- summernote -->  
<link rel="stylesheet" href="plugins/summernote/summernote-bs4.css">  
<!-- Google Font: Source Sans Pro -->  
<link href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700" rel="stylesheet">  
<!-- Select2 -->  
<link rel="stylesheet" href="plugins/select2/css/select2.min.css">  
<link rel="stylesheet" href="plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css">  
<!-- daterangepicker -->  
<link rel="stylesheet" href="plugins/daterangepicker/daterangepicker.css">  
<!-- Bootstrap Color Picker -->  
<link rel="stylesheet" href="plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css">  
<!-- Bootstrap4 Duallistbox -->  
<link rel="stylesheet" href="plugins/bootstrap4-duallistbox/bootstrap-duallistbox.min.css">  
  
<script src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"></script>  
<script src="https://code.jquery.com/jquery-1.12.4.js"></script>  
  
<link rel="stylesheet" href="plugins/jquery-ui/jquery-ui.css">  
<script src="plugins/jquery-ui/jquery-ui.min.css"></script>  
<script src="plugins/jquery-ui/jquery-ui.structure.css"></script>  
<script src="plugins/jquery-ui/jquery-ui.structure.min.css"></script>  
<script src="plugins/jquery-ui/jquery-ui.theme.css"></script>  
<script src="plugins/jquery-ui/jquery-ui.theme.min.css"></script>  
<!-- DataTables -->  
<link rel="stylesheet" href="plugins/datatables-bs4/css/dataTables.bootstrap4.css">
```

- All JavaScript Files:

```
<script src="plugins/jquery/jquery.min.js"></script>
<!-- jQuery UI 1.11.4 -->
<script src="plugins/jquery-ui/jquery-ui.min.js"></script>
<!-- Resolve conflict in jQuery UI tooltip with Bootstrap tooltip -->
<script>
  $.widget.bridge('uibutton', $.ui.button)
</script>
<!-- popper -->
<script src="plugins/popper/popper.min.js"></script>
<!-- Bootstrap 4 -->
<script src="plugins/bootstrap/js/bootstrap.bundle.js"></script>
<!-- ChartJS -->
<script src="plugins/chart.js/Chart.min.js"></script>
<!-- Sparkline -->
<script src="plugins/sparklines/sparkline.js"></script>
<!-- JQVMap -->
<script src="plugins/jqvmap/jquery.vmap.min.js"></script>
<script src="plugins/jqvmap/maps/jquery.vmap.usa.js"></script>
<!-- jQuery Knob Chart -->
<script src="plugins/jquery-knob/jquery.knob.min.js"></script>
<!-- daterangepicker -->
<script src="plugins/moment/moment.min.js"></script>
<script src="plugins/daterangepicker/daterangepicker.js"></script>
<!-- Tempusdominus Bootstrap 4 -->
<script src="plugins/tempusdominus-bootstrap-4/js/tempusdominus-bootstrap-4.min.js"></script>
<!-- Summernote -->
<script src="plugins/summernote/summernote-bs4.min.js"></script>
<!-- overlayScrollbars -->
<script src="plugins/overlayScrollbars/js/jquery.overlayScrollbars.min.js"></script>
<!-- AdminLTE App -->
<script src="dist/js/adminlte.js"></script>
<!-- AdminLTE dashboard demo (This is only for demo purposes) -->
<script src="dist/js/pages/dashboard.js"></script>
<!-- AdminLTE for demo purposes -->
<script src="dist/js/demo.js"></script>
<!-- Select2 -->
<script src="plugins/select2/js/select2.full.min.js"></script>
<!-- DataTables -->
<script src="plugins/datatables/jquery.dataTables.js"></script>
<script src="plugins/datatables-bs4/js/dataTables.bootstrap4.js"></script>
<!-- SweetAlert2 -->
<script src="plugins/sweetalert2/sweetalert2.min.js"></script>
<!-- TimeAgo -->
<script src="plugins/jquery-timeago/jquery.timeago.js"></script>
```

- Code for footer:

```
<footer class="main-footer">
  <div class="float-right d-none d-sm-block">
    <b>Version</b> 1.0.0
  </div>
  <strong>Copyright © 2020 <a href="#">ProSys</a>. All rights reserved.</strong>
</footer>
```

- Code for Navbar:

```
<nav class="main-header navbar navbar-expand navbar-white navbar-light">
    <!-- Left navbar links -->
    <ul class="navbar-nav">
        <li class="nav-item">
            <a class="nav-link" data-widget="pushmenu" href="#">
                <i class="fas fa-bars"></i>
            </a>
        </li>
    </ul>
    <!-- Right navbar links -->
    <ul class="navbar-nav ml-auto">

        <?php
        //Student
        if($_SESSION['type'] == "Student"){
            include('requests-student.php');
            include('dropdownStudentTasks.php');
        }
        //Supervisor
        if ($_SESSION['type'] == "Faculty"){
            include('requests-faculty.php');
        }
        //Coordinator
        ?>
        <li class="nav-item dropdown user-menu">
            <a href="#" class="nav-link dropdown-toggle" data-toggle="dropdown">
                <img src=<?php if (isset($_SESSION['image'])){echo 'public/profile_images/'.$_SESSION['image'];}else {echo 'public/profile_images/dummy.png';}?>" class="user-image img-circle elevation-2" alt="User Image">
                <span class="d-none d-md-inline"><?php echo $_SESSION["usrnm"]; ?></span>
            </a>
            <ul class="dropdown-menu dropdown-menu-lg dropdown-menu-right">
                <!-- User image -->
                <li class="user-header bg-primary">
                    <img src=<?php if (isset($_SESSION['image'])){echo 'public/profile_images/'.$_SESSION['image'];}else {echo 'public/profile_images/dummy.png';}?>" class="img-circle elevation-2" alt="User Image">
                    <p>
                        <?php echo $_SESSION["usrnm"]; ?>
                        <small>[
                            <?php
                            if(isset($_SESSION["user_id"])){
                                echo $_SESSION["user_id"];
                            }
                            else if(isset($_SESSION["designation"])){
                                echo $_SESSION["designation"];
                            }
                            else{
                                echo "";
                            }
                        >
                        ]</small>
                    </p>
                </li>
            </ul>
        </li>
    </ul>

```

```
<!-- Menu Footer-->
<li class="user-footer">
    <div class="float-left">
        <?php
        //Check type of user
        //student
        if($_SESSION['type'] == "Student") { ?>
            <a href="studentProfile.php" class="btn btn-default btn-flat">Profile</a>
            <?php
        }
        //Faculty
        else if($_SESSION['type'] == "Faculty"){ ?>
            <a href="facultyProfile.php" class="btn btn-default btn-flat">Profile</a>
            <?php
        }
        //Other users
        else { ?>
            <button class="btn btn-default btn-flat" disabled>Profile</button>
            <?php
        }
    ?>
    </div>
    <div class="float-right">
        <form id="signout" action="home.php" method="post">
            <a href="logout.php" class="btn btn-default btn-flat">Sign out</a>
            <input type="hidden" name="signout" value="signout"/>
        </form>
    </div>
</li>
</ul>
</li>
</ul>
</nav>
```

- Code for Sidebar:

```

<aside class="main-sidebar sidebar-dark-primary elevation-4">
    <!-- Brand Logo -->
    <a href="index.php" class="brand-link">
        
        <span class="brand-text font-weight-light">Prosys</span>
    </a>
    <!-- Sidebar -->
    <div class="sidebar">
        <!-- Sidebar user panel -->
        <div class="user-panel mt-3 mb-3 d-flex" >
            <div class="mb-2">
                <img src=<?php if (isset($_SESSION['image'])) {
                    echo 'public/profile_images/' . $_SESSION['image'];
                } else {
                    echo 'public/profile_images/dummy.png';
                } ?>" style="object-fit:cover; width:50px; height:50px;" class="img-circle elevation-2" alt="User Image"
            >
            </div>
            <div class="info d-flex justify-content-center mt-1">
                <a href="#"><p class="text-wrap text-left text-light text-bold"><?php
                    echo $_SESSION["usrnm"];
                ?></p></a>
            </div>
        </div>
        <!-- Sidebar Menu -->
        <nav class="mt-2">
            <ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">
                <!-- Add icons to the links using the .nav-icon class
                     with font-awesome or any other icon font library -->
                <li class="nav-item has-treeview menu-open">
                    <a href="index.php" class="nav-link active">
                        <i class="nav-icon fas fa-tachometer-alt"></i>
                        <p>
                            Dashboard
                        </p>
                    </a>
                </li>
            <!--
                ****Student*****
                ****
            -->
            <?php
                if ($_SESSION["type"] === "Student") {
                    $studId = $_SESSION["user_id"];
                    $sql = "SELECT * FROM student WHERE studentRid= '$studId' LIMIT 1";
                    $result = mysqli_query($link,$sql);
                    if (mysqli_num_rows($result)>0) {
                        // output data of each row
                        while($row = mysqli_fetch_array($result)) {
                            $isLeader = $row['isLeader'];
                            $groupId = $row['groupId'];
                        }
                    }
                }
            ?>
        </ul>
    </nav>
</div>

```

```
<li class="nav-item has-treeview">
<a href="#" class="nav-link">
  <i class="nav-icon fas fa-users"></i>
  <p>
    Group
    <i class="fas fa-angle-left right"></i>
  </p>
</a>
<ul class="nav nav-treeview">
<?php
  if ($isLeader != 1 && is_null($groupId)) {
    ?>
<li class="nav-item">
  <a href="CreateProject.php" class="nav-link">
    <i class="far fa-circle nav-icon"></i>
    <p>Create Project</p>
  </a>
</li>
<li class="nav-item">
  <a href="JoinGroup.php" class="nav-link">
    <i class="far fa-circle nav-icon"></i>
    <p>Join Group</p>
  </a>
</li>
<li class="nav-item">
  <a href="ViewIdea.php" class="nav-link">
    <i class="far fa-lightbulb"></i>
    <p>View Share Ideas</p>
  </a>
</li>
<?php
  } ?>
<?php
if ($isLeader == 1) {
?>
<li class="nav-item">
  <a href="ChooseSupervisor.php" class="nav-link">
    <i class="far fa-circle nav-icon"></i>
    <p>Choose Supervisor</p>
  </a>
</li>
<li class="nav-item">
  <a href="groupsettings.php" class="nav-link">
    <i class="fa ffa fa-cog nav-icon"></i>
    <p>Settings</p>
  </a>
</li>
<?php
  } ?>
</ul>
</li>
<?php
  if ( !is_null($groupId)) { ?>
```

```

<li class="nav-item has-treeview">
  <a href="#" class="nav-link">
    <i class="nav-icon fas fa-list-alt"></i>
  </a>
  <ul class="nav nav-treeview">
    <li class="nav-item">
      <a href="#" class="nav-link">
        <i class="far fa-edit nav-icon"></i>
      </a>
      <p>Create Batch</p>
    </li>
    <li class="nav-item">
      <a href="batchTemplates.php" class="nav-link">
        <i class="far fa-file nav-icon"></i>
      </a>
      <p>Batch Template</p>
    </li>
  </ul>
</li>
<li class="nav-item">
  <a href="studentTask.php" class="nav-link">
    <i class="far fa-tasks nav-icon"></i>
  </a>
  <p>Tasks</p>
</li>
<li class="nav-item">
  <a href="groupDetails.php" class="nav-link">
    <i class="far fa-users nav-icon"></i>
  </a>
  <p>Group Details</p>
</li>
<li class="nav-item">
  <a href="studentMeetingRequest.php" class="nav-link">
    <i class="far fa-handshake"></i>
  </a>
  <p>Meeting Request</p>
</li>
<li class="nav-item">
  <a href="#" class="nav-link">
    <i class="fas fa-angle-left right"></i>
  </a>
  <p>Logout</p>
</li>

```

```

<li class="nav-item">
    <a href="batchTask.php" class="nav-link">
        <i class="far fa fa-tasks nav-icon"></i><p>Batch Task</p>
    </a>
</li>
<li class="nav-item">
    <a href="batchSettings.php" class="nav-link">
        <i class="fa fa fa-cog nav-icon"></i><p>Settings</p>
    </a>
</li>
</ul>
</li>
<li class="nav-item has-treeview">
    <a href="#" class="nav-link">
        <i class="nav-icon fas fa-user-plus"></i><p>
            Register Users
            <i class="right fas fa-angle-left"></i>
        </p>
    </a>
    </ul class="nav nav-treeview">
        <li class="nav-item">
            <a href="registerStudent.php" class="nav-link">
                <i class="far fa fa-plus nav-icon"></i> <p>Student</p>
            </a>
        </li>
        <li class="nav-item">
            <a href="registerFaculty.php" class="nav-link">
                <i class="far fa fa-plus nav-icon"></i> <p>Faculty</p>
            </a>
        </li>
    </ul>
</li>
<li class="nav-item has-treeview">
    <a href="#" class="nav-link">
        <i class="nav-icon fas fa-edit"></i><p>
            Manage
            <i class="right fas fa-angle-left"></i>
        </p>
    </a>
    </ul class="nav nav-treeview">
        <li class="nav-item">
            <a href="manageBatch.php" class="nav-link">
                <i class="far fa-circle nav-icon"></i> <p>Batch</p>
            </a>
        </li>
        <li class="nav-item">
            <a href="manageStudents.php" class="nav-link">
                <i class="far fa-circle nav-icon"></i><p>Students</p>
            </a>
        </li>
        <li class="nav-item">
            <a href="manageStudentGroups.php" class="nav-link">
                <i class="far fa-circle nav-icon"></i><p>Student Group</p>
            </a>
        </li>
    </ul>
</li>
<li class="nav-item">
    <a href="manageFaculty.php" class="nav-link">
        <i class="far fa-circle nav-icon"></i><p>Faculty</p>
    </a>
</li>
<li class="nav-item">
    <a href="manageTimeline.php" class="nav-link">
        <i class="far fa-circle nav-icon"></i><p>Timeline</p>
    </a>
</li>
</ul>
</li>
<li class="nav-item">
    <a href="weeklyReportC.php" class="nav-link">
        <i class="far fa-handshake"></i><p>Weekly Report</p>
    </a>
</li>
<li class="nav-item">
    <a href="shareIdea.php" class="nav-link">
        <i class="far fa fa-lightbulb nav-icon"></i><p>Share Ideas</p>
    </a>
</li>
</ul>
<?php
$sql = "SELECT * FROM batch JOIN batch_settings ON batch_settings.batchId = batch.batchId WHERE isActive =
1 AND fypPart =1 LIMIT 1";
$result = $link->query($sql);
if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        $fyp1_grading = $row['fyp1_grading'];
    }
} else{
    $fyp1_grading = 0; } ?>
<?php
$sql = "SELECT * FROM batch JOIN batch_settings ON batch_settings.batchId = batch.batchId WHERE isActive =
1 AND fypPart =2 LIMIT 1";
$result = $link->query($sql);
if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        $fyp2_grading = $row['fyp2_grading'];
    }
} else{
    $fyp2_grading = 0;
}
?>
<li class="nav-item has-treeview">
    <a href="#" class="nav-link">
        <i class="far fa fa-check-circle nav-icon"></i><p>
Grading
<i class="right fas fa-angle-left"></i>
</p>
    </a>
    <ul class="nav nav-treeview">
        <?php if ($fyp1_grading == 1){ ?>
<li class="nav-item">

```

```

        <a href="gradingIC.php" class="nav-link">
            <i class="fas fa-award nav-icon"></i><p>Project Proposal</p>
        </a>
    </li>
    <php }else{} ?>
    <php if ($fyp2_grading == 1){ ?>
        <li class="nav-item">
            <a href="grading2C.php" class="nav-link">
                <i class="fas fa-award nav-icon"></i><p>Project Defense</p>
            </a>
        </li>
        <?php }else{} ?>
    </ul>
</li>
<li class="nav-item">
    <a href="projectRepository.php" class="nav-link">
        <i class="far fa fa-database nav-icon"></i> <p>Project Repository</p>
    </a>
</li>
<li class="nav-item">
    <a href="sendEmailC.php" class="nav-link">
        <i class="fa fa-paper-plane nav-icon"></i><p> Send Email</p>
    </a>
</li>
<?php } else{ ?>
<!-- Supervisor -->
<li class="nav-item">
    <a href="superviseGroup.php" class="nav-link">
        <i class="far fa fa-user-plus nav-icon"></i><p>Supervise Groups</p>
    </a>
</li>
<li class="nav-item">
    <a href="weeklyReportF.php" class="nav-link">
        <i class="far fa fa-calendar-week nav-icon"></i> <p>Weekly Report</p>
    </a>
</li>
<?php
$sql = "SELECT * FROM batch JOIN batch_settings ON batch_settings.batchId = batch.batchId WHERE isActive =
1 LIMIT 1";
$result = $link->query($sql);

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        $fyp1_grading = $row['fyp1_grading'];
        $fyp2_grading = $row['fyp2_grading'];
    }
}
?>
```

```

<li class="nav-item has-treeview">
    <a href="#" class="nav-link">
        <i class="far fa fa-check-circle nav-icon"></i>
        <p>
Grading
<i class="right fas fa-angle-left"></i>
</p>
</a>
        <ul class="nav nav-treeview">
        <?php if ($fyp1_grading == 1){ ?>
            <li class="nav-item">
                <a href="grading1.php" class="nav-link">
                    <i class="fas fa-award nav-icon"></i>
                    <p>Project Proposal</p>
                </a>
            </li>
            <?php }else{} ?>
        <?php if ($fyp2_grading == 1){ ?>
            <li class="nav-item">
                <a href="grading2.php" class="nav-link">
                    <i class="fas fa-award nav-icon"></i>
                    <p>Project Defense</p>
                </a>
            </li>
            <?php }else{} ?>
        </ul>
    </li>
    <li class="nav-item">
        <a href="shareIdea.php" class="nav-link">
            <i class="far fa fa-lightbulb nav-icon"></i>
            <p>Share Ideas</p>
        </a>
    </li>
    <li class="nav-item">
        <a href="sendEmail.php" class="nav-link">
            <i class="fa fa-paper-plane nav-icon"></i>
            <p> Send Email</p>
        </a>
    </li>
    <?php } ?>
    <!-- Send Email -->
</ul>
<!-- /.sidebar-menu -->
</div>
<!-- /.sidebar -->
</aside>
```

- Code for creating a batch:

```

<?php
$title = "ProSys";
$subtitle = "create Batch";
include("db/db_connect.php");
session_start();
if($_SESSION['isCord'] != 1){
    header("location: login.php");
}

if (isset($_POST['btnCreateBatch'])){

    if($_POST['batch']!='' && $_POST['year']!='' && $_POST['startingDate']!=''){

        $batch = $_POST['batch'];
        $batchYear = $_POST['year'];

        $batchName = $batch . "_" . $batchYear;
        $startingDate = $_POST['startingDate'];
        $isActive = 1;
        $fypPart = 1;
        //Check if BATCH already exists
        $sql = "SELECT batchId FROM batch WHERE batchName ='$batchName' LIMIT 1";

        $result = mysqli_query($link,$sql);

        if (mysqli_num_rows($result) > 0) {

            //Batch Already Exist
            header('Location:' . $_SERVER['PHP_SELF'] . '?status=a');

        }else{
            $stmt = mysqli_prepare($link,"INSERT INTO batch (batchName, startingDate, isActive, fypPart) VALUES (?, ?, ?, ?)");
            mysqli_stmt_bind_param($stmt,"ssii", $batchName, $startingDate, $isActive, $fypPart);
            mysqli_stmt_execute($stmt);

            if (mysqli_affected_rows($link) > 0) {

                $last_id = mysqli_insert_id($link);
                $sql = "INSERT INTO batch_settings (batchId) VALUES ('$last_id')";

                if (mysqli_query($link,$sql) === TRUE) {

                    if (!file_exists('uploads/' . $batchName)) {
                        mkdir('uploads/' . $batchName, 0777, true);

                        mysqli_close($stmt);
                        mysqli_close($link);
                        header('Location:' . $_SERVER['PHP_SELF'] . '?status=t');die;
                    }
                }
            }else{
                header('Location:' . $_SERVER['PHP_SELF'] . '?status=f');die;
                printf("Error: %s.\n", mysqli_error($stmt));exit;
            }
        }
    }
}
>>
<head>
<?php include('include/head.php'); ?>
</head>
<body class="hold-transition sidebar-mini">
<div class="wrapper">
    <!-- Navbar -->
    <?php include('include/navbar.php'); ?>
    <!-- /.navbar -->

    <!-- Main Sidebar Container -->
    <?php include ('include/sidebar.php'); ?>

    <!-- Content Wrapper. Contains page content -->
    <div class="content-wrapper">
        <!-- Content Header (Page header) -->
        <?php include ('include/contentheader.php'); ?>
        <!-- Main content -->
        <section class="content">
            <div class="container-fluid">
                <div class="row">
                    <!-- left column -->
                    <div class="col-md-12">
                        <?php
                            if (isset($_GET['status'])){
                                if ($_GET['status'] == 't'){
                                    <div style="text-align:center;" class="alert alert-success" role="alert">
                                        <i class="fas fa-exclamation">/</i> Batch Created Successfully!
                                    <a href="registerStudent.php" <i class="fa fa-chevron-right" aria-hidden="true"></i> Register Students</a>
                                    <br/>
                                    <a href="#"><i class="fa fa-chevron-right" aria-hidden="true"></i> Add Batch Tasks</a>
                                    <button type="button" class="close" data-dismiss="alert">x</button>
                                </div>
                            }
                        <?php
                            else if ($_GET['status'] == 'f'){
                                <div style="text-align:center;" class="alert alert-danger" role="alert">
                                    <i class="fas fa-exclamation">/</i>
                                    Error! Something Went Wrong
                                    <button type="button" class="close" data-dismiss="alert">x</button>
                                </div>
                            }
                        <?php
                            else if ($_GET['status'] == 'a'){
                                <div style="text-align:center;" class="alert alert-danger" role="alert">
                                    <i class="fas fa-exclamation">/</i>
                                    Error! Batch Already Exist
                                    <button type="button" class="close" data-dismiss="alert">x</button>
                                </div>
                            }
                        <?php
                    }
                </div>
            </div>
        </section>
    </div>
</body>

```

```

        <?php
    }
    else if ($_GET['add'] == 'e'){
        <div style="text-align:center;" class="alert alert-danger" role="alert">
            <i class="fas fa-exclamation"></i>
            Error!
            <button type="button" class="close" data-dismiss="alert">x</button>
        </div>
        <?php
    }
}

<div class="card card-primary">
<div class="card-header">
<h3 class="card-title">Create Batch</h3>
</div>
<!-- /.card-header -->
<!-- form start -->
<form role="form" method="post" action="" id="CreateProject" data-toggle="validator">
<div class="card-body">
<!-- Batch Selection -->
<div class="row">
<div class="col-md-12">
<div class="form-group">
<label>Batch</label>
<select class="form-control" style="width: 100%;" required name="batch" id="batch">
<option selected="selected" value=""><?php echo(date('Y')-1); ?><?php echo(date('Y')-1); ?></option>
<option value=""><?php echo(date('Y')); ?><?php echo(date('Y')); ?></option>
</select>
</div>
</div>
</div>
<div class="form-group">
<label>Year</label>
<select name="year" id="year" type="text" class="form-control" required>
<option selected value=""><?php echo(date('Y')-1); ?><?php echo(date('Y')-1); ?></option>
<option selected value=""><?php echo(date('Y')); ?><?php echo(date('Y')); ?></option>
</select>
</div>
<!-- starting date -->
<div class="form-group">
<label>Starting date of semester</label>
<input class="form-control" type="date" name="startingDate" id="startingDate" required>
</div>
<!-- .starting date -->
<!-- .Project categories -->
<!-- /.card-body -->
<div class="card-footer form-group">
<button type="submit" name="btnCreateBatch" class="btn btn-primary float-right">Create Batch</button>
</div>
</div>
</form>
</div>
<!-- /.card -->

</div>
<!-- .col (left) -->
</div>
<!-- /.row -->
</div><!-- /.container-fluid -->
</section>
<!-- /.content -->
</div>
<!-- /.content-wrapper -->
<?php include('include/footer.php'); ?>
</div>
<!-- ./wrapper -->
<!-- jquery -->
<?php include ('include/jsFile.php'); ?>
<script>
$(function () {
    //Initialize Select2 Elements
    $('.select2').select2()

    //Initialize Select2 Elements
    $('.select2bs4').select2({
        theme: 'bootstrap4'
    });

});

</script>
</body>
</html>

```

- Code for creating a project:

```

<?php
$title = "Prosys";
$subtitle = "Create Project";
include('db/db_connect.php');
session_start();
if($_SESSION['type'] != 'Student'){
    header("location: login.php");
}
//Getting values from SESSION
$batchId = $_SESSION['batchId'];
$studentId = $_SESSION['usrId'];
$check = true;
/* Check if:
 * - User already initiated a group
 * - User is already in a group
 * - User sent request to group
 */
//Check for request sent already
$sql = "SELECT * FROM student_group_request WHERE studentId = '$studentId' LIMIT 1";
$result = $link->query($sql);
if ($result->num_rows > 0) {
    //User sent request to group already
    $check = false;
} else {
    //Check if group leader or in a group
    $sql = "SELECT * FROM student WHERE studentId = '$studentId' LIMIT 1";
    $result = $link->query($sql);
    if ($result->num_rows > 0) {
        // output data of each row
        while($row = $result->fetch_assoc()) {
            $isLeader = $row['isLeader'];
            $groupId = $row['groupId'];
        }
    }
    if ($isLeader == 1 OR !is_null($groupId)){
        $check = false;
    } else{
        // $check = true;
    }
}
if (isset($_POST['createProjectbtn'])){
    if (( $_POST['ProjectName']!='') && ( $_POST['categories']!='') && ( $_POST['description']!=''))
    {
        $projectName = $_POST['ProjectName'];
        $categories = $_POST['categories'];
        $description = $_POST['description'];
        $other_txt = $_POST['other_txt'];
        if ($categories == "Other")
        {
            $sql = "INSERT INTO student_group ( projectName, categories, description, batchId, leaderId )
VALUES ('$projectName', '$other_txt', '$description', '$batchId', '$studentId')";
            if ($link->query($sql) === TRUE) {
                //Get last insert_id = groupId
                $groupId = $link->insert_id;
                //Insert group in student table
                $sql = "UPDATE student SET groupId='$groupId' , isLeader = '1' WHERE studentId = '$studentId' ";
                if ($link->query($sql) === TRUE) {
                    // commit transaction
                    mysqli_commit($link);
                    //close linkection
                    $link->close();
                    //Redirect with success message
                    header('Location: ' . $_SERVER['PHP_SELF'] . '?status=t');
                } else {
                    //Redirect with error message
                    header('Location: ' . $_SERVER['PHP_SELF'] . '?status=f');
                }
            }
        } else
        {
            $sql = "INSERT INTO student_group ( projectName, categories, description, batchId, leaderId )
VALUES ('$projectName', '$categories', '$description', '$batchId', '$studentId')";
            if ($link->query($sql) === TRUE){
                //Get last insert_id = groupId
                $groupId = $link->insert_id;
                //Insert group and leader in student table
                $sql = "UPDATE student SET groupId='$groupId' , isLeader = '1' WHERE studentId = '$studentId' ";
                if ($link->query($sql) === TRUE) {
                    // commit transaction
                    mysqli_commit($link);
                    //close linkection
                    $link->close();
                    //Redirect with success message
                    header('Location: ' . $_SERVER['PHP_SELF'] . '?status=t');
                } else {
                    //Redirect with error message
                    header('Location: ' . $_SERVER['PHP_SELF'] . '?status=f');
                }
            }
        }
    },
    </head>
    <?php include('include/head.php'); ?>
</head>
<body class="hold-transition sidebar-mini">
<div class="wrapper">
<!-- Navbar -->
<?php include('include/navbar.php'); ?>
<!-- /.navbar -->
<!-- Main Sidebar Container -->
<?php include ('include/sidebar.php'); ?>

```

```

<div class="content-wrapper">
    <!-- Content Header (Page header) -->
    <?php include ('include/contentheader.php'); ?>
    <!-- Main content -->
    <section class="content">
        <div class="container-fluid">
            <div class="row">
                <!-- left column -->
                <div class="col-md-12">
                    <?php
                        if (isset($_GET['status'])){
                            if ($_GET['status'] == 't'){
                                <div style="text-align:center;" class="alert alert-success" role="alert">
                                    <span class="glyphicon glyphicon-exclamation-sign"></span>
                                    <p>Changes saved successfully!</p>
                                    <a href="/groupdetails.php"><i class="fa fa-chevron-right" aria-hidden="true"></i> Show Group Details</a>
                                </div>
                            }
                        } else if ($_GET['status'] == 'cp'){
                            <div style="text-align:center;" class="alert alert-success" role="alert">
                                <button type="button" class="close" data-dismiss="alert">x</button>
                                <span class="glyphicon glyphicon-exclamation-sign"></span>
                                <p>Project deleted successfully!</p>
                                <p>Create another one thank you.</p>
                            </div>
                        }
                        else if ($_GET['status'] == 'f'){
                            <div style="text-align:center;" class="alert alert-danger" role="alert">
                                <span class="glyphicon glyphicon-exclamation-sign"></span>
                                <p>Error! Something Went Wrong</p>
                            </div>
                        }
                        else if ($_GET['status'] == 'req'){
                            <div style="text-align:center;" class="alert alert-danger" role="alert">
                                <span class="glyphicon glyphicon-exclamation-sign"></span>
                                <p>Error! Please fill all required fields</p>
                            </div>
                        }
                        else if ($_GET['status'] == 'e'){
                            <div style="text-align:center;" class="alert alert-danger" role="alert">
                                <span class="glyphicon glyphicon-exclamation-sign"></span>
                                <p>Error!</p>
                            </div>
                        }
                    }
                }
            </div>
        </div>
    </section>
</div>

```

```

    <?php if(isset($check)){
        if ($check == true){ ?>
<div class="card card-primary">
    <div class="card-header">
        <h3 class="card-title">Create Project</h3>
    </div>
    <!-- Card Header -->
    <!-- Form Start -->
    <form id="initiateGroup" name="initiateGroup" method="post" data-toggle="validator">
        <div class="card-body">
            <div class="form-group">
                <label for="SetGroupName">Set Group Name</label>
                <input type="text" name="ProjectName" class="form-control" id="setprojectname" placeholder="Enter Project Name" required>
                <p>class="text-muted">you can change project name later.</p>
            </div>
        <!-- Project categories -->
        <div class="row">
            <div class="col-md-12">
                <div class="form-group">
                    <label>Please select from the following technology in which your project belongs.</label>
                    <select type="text" name="categories" class="form-control select2bs4" id="other" style="width: 100%;">
                        <option selected="selected">3D/4D Printing</option>
                        <option value="3D/4D Printing">3D/4D Printing</option>
                        <option value="Big Data">Big Data</option>
                        <option value="Artificial Intelligence">Artificial Intelligence</option>
                        <option value="Cloud">Cloud</option>
                        <option value="Robotics">Robotics</option>
                        <option value="The Internet Of Things">The Internet of Things</option>
                        <option value="Augmented Reality/Virtual Reality">Augmented Reality/Virtual Reality</option>
                        <option value="Blockchain">Blockchain</option>
                        <option value="Neurotech">Neurotech</option>
                        <option value="Shared Economy">Shared Economy</option>
                        <option value="Wearables">Wearables</option>
                        <option value="Implantable">Implantable</option>
                        <option value="Other">Other</option>
                    </select>
                </div>
            </div>
        </div>
    <!-- Other Option -->
    <div class="form-group" id="other_txt">
        <label>Other Categories.</label>
        <input name="other_txt" type="text" class="form-control" placeholder="Enter ...">
    </div>
<!-- Project categories -->
<!-- Project Description -->
    <div class="form-group">
        <label>Project Description.</label>
        <textarea type="text" name="description" class="form-control" rows="5" placeholder="Enter Project description here..."></textarea>
    </div>
<!-- Project Description -->
<!-- .card-body -->

```

```

        <div class="card-footer">
            <button type="submit" form="initiateGroup" name="createProjectbtn" class="btn btn-primary float-right form-group">Create Project</button>
        </div>
    </div>
</div>      <!-- /.card -->
<?php    }else if ($check == false){ ?>
        <div class="card no-border">
            <div class="card-header with-border">
                <h3 class="card-title">Initiate Group</h3>
            </div>
            <div class="card-body">
                <h3>You can not initiate a group</h3>
                <ul>
                    <li>You are either part of a Project group</li>
                    <li>You have sent request to a group</li>
                    <li>You initiated a group already</li>
                </ul>
            </div>
        </div>
    <?php }
}?
</div>
<!-- /.row -->
</div><!-- /.container-fluid -->
</section>  <!-- /.content -->
</div>  <!-- /.content-wrapper -->
<?php include('include/footer.php'); ?>
</div><!-- ./wrapper -->
<!-- jquery -->
<?php include ('include/jsFile.php'); ?>
<script>
    $(function () {
        $('.select2').select2() //Initialize Select2 Elements
        $('.select2bs4').select2({ theme: 'bootstrap4' });
    })
</script>
<script>
$(document).ready(function(){
    $("select").change(function(){
        $(this).find("option:selected").each(function(){
            var optionValue = $(this).attr("value");
            if(optionValue == "Other"){
                $("#other_txt").show();
            } else{
                $("#other_txt").hide();
            }
        });
    }).change();
});
</script>
</body>
</html>

```

- Code for supervisor grading:

```

<?php
$title = "ProSys";
$subtitle = "Grading";
session_start();
include ('db/di.connect.php');
if($_SESSION['isCoord'] == 1 OR $_SESSION['type'] == 'student'){
    header("location: login.php");
}
$facultyId = $_SESSION['usrId'];
/*********************************************
 * Check if Coordinator allowed grading
********************************************/
$sql = "SELECT * FROM batch JOIN batch_settings ON batch_settings.batchId = batch.batchId WHERE isActive = 1 AND fypPart=1 LIMIT 1";
$result = $link->query($sql);

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        $fyp1_grading = $row['fyp1_grading'];
        $fyp2_grading = $row['fyp2_grading'];
    }
}

//Check if form is submitted by GET
if ($_SERVER['REQUEST_METHOD'] == 'GET') {
    if (isset($_GET['group']) and is_numeric($_GET['group'])) {
        $groupId = filter_input(INPUT_GET, "group", FILTER_SANITIZE_SPECIAL_CHARS);
        //Check if group is already graded
        $sql = "SELECT id FROM grades WHERE groupId='$groupId' AND fypPart=1 AND gradedBy = '$facultyId' LIMIT 1 ";
        $result = $link->query($sql);
        if ($result->num_rows > 0) {
            $grade_check = TRUE;
        }else{
            $grade_check = FALSE;
            $projName= $link->query("SELECT projectName FROM student_group WHERE student_group.groupId = '$groupId' ")->fetch_object();
            //Supervisor Data
            $supervisorId = $link->query("SELECT facultyId FROM faculty_student_group WHERE faculty_student_group.
                groupId = '$groupId' ")->fetch_object()->facultyId;
            if($supervisorId){
                $supervisorName = $link->query("SELECT facultyName FROM faculty WHERE faculty.facultyId= '$supervisorId'
                    ")->fetch_object()->facultyName;
            }
        }
    }
}

//Check if form is submitted by POST
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    if (isset($_POST['btnGradeStudents'])){
        //VALIDATIONS
        if (isset($_POST['contribution']) && isset($_POST['answerToquestion']) && isset($_POST['completion'])){
            //HIDDEN INPUTS
            $studentId = $_POST['studentId'];
            $count = $_POST['count'];
            $groupId = $_POST['groupId'];
            $fypPart = '1';
            //FORM FORM
            $contribution = $_POST['contribution'];
            $answerToquestion = $_POST['answerToquestion'];
            $completion = $_POST['completion'];
            $comments = $_POST['comments'];
            for ($x = 0; $x < $count; $x++) {
                $grade[$x] = $contribution[$x] + $answerToquestion[$x] + $completion[$x];
                $sql = "INSERT INTO grades (studentId, groupId, fypPart, comments, contribution, anstoques, completion,
                    grade, gradedBy) VALUES ('$studentId[$x]', '$groupId', '$fypPart', '$comments[$x]', '$contribution[$x]',
                    '$answerToquestion[$x]', '$completion[$x]', '$grade[$x]', '$facultyId')";
                if ($link->query($sql) === TRUE) {
                    header('Location:' . $_SERVER['PHP_SELF'] . '?status=t');
                } else {
                    //SQL ERROR
                    header('Location:' . $_SERVER['PHP_SELF'] . '?status=f');
                }
            }
            else if ($_POST['contribution[]'] == "" && $_POST['answerToquestion[]'] == "" && $_POST['completion[]'] == ""){
                //GRADE NOT SELECTED
                header('Location:' . $_SERVER['PHP_SELF'] . '?status=f');
            }
        }
        //***** Edit Grade *****
        if (isset($_POST['btnEditGrade'])){
            $gradeId = filter_input(INPUT_POST, 'gradeId', FILTER_SANITIZE_NUMBER_INT);
            $groupId = filter_input(INPUT_POST, 'groupId', FILTER_SANITIZE_NUMBER_INT);
            $contribution = filter_input(INPUT_POST, 'contribution', FILTER_SANITIZE_NUMBER_INT);
            $answerToquestion = filter_input(INPUT_POST, 'answerToquestion', FILTER_SANITIZE_NUMBER_INT);
            $completion = filter_input(INPUT_POST, 'completion', FILTER_SANITIZE_NUMBER_INT);
            $comments = filter_input(INPUT_POST, 'comments', FILTER_SANITIZE_SPECIAL_CHARS);
            $grade = $contribution + $answerToquestion + $completion;
            $sql = "UPDATE grades SET contribution='$contribution', anstoques='$answerToquestion', completion ='$completion',
                comments ='$comments', grade='$grade' WHERE id='$gradeId' ";
            if ($link->query($sql) === TRUE) {
                header('Location:' . $_SERVER['PHP_SELF'] . '?group=' . $groupId . '&status=t');die;
            } else {
                header('Location:' . $_SERVER['PHP_SELF'] . '?group=' . $groupId . '&status=f');die;
            }
        }
    }
}

<head>
    <php include('include/head.php'); ?>
</head>
<body class="hold-transition sidebar-mini layout-fixed">
    <div class="wrapper">
        <!-- Navbar -->
        <php include('include/navbar.php'); ?>

```

```

<!-- Main Sidebar Container -->
<?php include('include/sidebar.php'); ?>
<!-- Main Sidebar Container -->
<!-- Content Wrapper, contains page content -->
<div class="content-wrapper">
    <!-- Content Header (Page header) -->
    <?php include ('include/contentheader.php'); ?>
    <!-- Content Header (Page header) -->
    <section class="content" style="min-height: 700px">
        <div class="row">
            <div class="col-md-12">
                <?php if (isset($_GET['status'])) {
                    if ($_GET['status'] == 't') ?>
                        <div style="text-align:center;" class="alert alert-success" role="alert">
                            <span class="glyphicon glyphicon-exclamation-sign"></span>
                            Changes saved successfully!
                            <button type="button" class="close" data-dismiss="alert">x</button>
                        </div>
                    <?php }
                    else if ($_GET['status'] == 'f') ?>
                        <div style="text-align:center;" class="alert alert-danger" role="alert">
                            <span class="glyphicon glyphicon-exclamation-sign"></span>
                            Error! Something went wrong
                            <button type="button" class="close" data-dismiss="alert">x</button>
                        </div>
                    <?php }
                else{ ?>
                    <div style="text-align:center;" class="alert alert-danger" role="alert">
                        <span class="glyphicon glyphicon-exclamation-sign"></span>
                        Error! Something went wrong
                        <button type="button" class="close" data-dismiss="alert">x</button>
                    </div>
                <?php } ?>
            </div>
        <?php
if (isset($_GET['edit']) && is_numeric($_GET['edit']) && strlen($_GET['edit'])>0 ) {
    $gradeId = filter_input(INPUT_GET, 'edit', FILTER_SANITIZE_NUMBER_INT);
    $sql = "SELECT * FROM grades JOIN student ON student.studentId = grades.studentId WHERE grades.
        id = $gradeId LIMIT 1";
    $result = $link->query($sql);
    if ($result->num_rows > 0) {
        // output data of each row
        while($row = $result->fetch_assoc()) {
            $name = $row['studentName'];
            $rid = $row['studentRid'];
            $contribution = $row['contribution'];
            $answerToQuestion = $row['answersToQuestion'];
            $completion = $row['completion'];
            $grade = $row['grade'];
            $comments = $row['comments'];
            $groupId = $row['groupId'];
        }
    }
}
        >>
<div class="card card-primary card-outline no-border">
    <div class="card-header with-border">
        <h3 class="card-title">Edit Grade: <?php echo $name;?> </h3>
    </div>
    <!-- /.card-header -->
    <div class="card-body">
        <form id="editgrade" name="editgrade" method="post" class="form-horizontal" data-toggle="validator">
            <div class="form-group">
                <input type="hidden" name="gradeId" value="<?php echo $gradeId;?>"></div>
            <div class="form-group">
                <input type="hidden" name="groupId" value="<?php echo $groupId;?>"></div>
            <div class="form-group">
                <label for="contribution" class="mr-3">Contribution: </label>
                <input type="number" name="contribution" min="0" max="20" required value="<?php
                    echo $contribution;?>">
            </div>
            <div class="form-group">
                <label for="answerToQuestion" class="mr-3">Answer To Question: </label>
                <input type="number" name="answerToQuestion" min="0" max="10" required value="<?php
                    echo $answerToQuestion;?>">
            </div>
            <div class="form-group">
                <label for="completion" class="mr-3">Completion: </label>
                <input type="number" name="completion" min="0" max="20" required value="<?php
                    echo $completion;?>">
            </div>
            <div class="form-group">
                <label for="comments" class="mr-3">Comment/Review: </label>
                <input type="text" name="comments" value="<?php echo $comments;?>">
            </div>
            <div class="form-group">
                <label for="grade" class="mr-3">Grade : </label>
                <input type="text" name="grade" value="<?php echo $grade;?>" readonly>
            </div>
            <br>
        </form>
    <!-- /.card-body -->
    <div class="card-footer">
        <button type="submit" form="editgrade" name="btnEditGrade" class="btn btn-primary
            btn-sm float-right" form="">Submit</button>
        <button onclick="goBack()" class="btn btn-default">Back</button>
    </div>
</div>
<?php
}
*****>
/* If coordinator allowed SPD-1 grading
*/
if ($sfy01_grading == 1){ ?>

```

```

<div class="card card-primary card-outline">
    <div class="card-header">
        <h3 class="card-title">Grade Groups</h3><br>
        <p class="text-muted">>Select a group and Grade Project Proposal</p>
    </div>
    <!-- ./card-header -->
    <div class="card-body ">
        <div class="form-group">
            <label for="choosegroup" class="col-sm-2 control-label">Choose Group</label>
            <div class="col-sm-10">
                <div class="dropdown">
                    <button class="btn btn-default dropdown-toggle" type="button" id="dropdownMenu1" data-toggle="dropdown" aria-haspopup="true" aria-expanded="true">
                        Choose a Group
                        <span class="caret"></span>
                    </button>
                    <ul class="dropdown-menu" aria-labelledby="dropdownMenu1">
                        <li><a href=<?php echo $_SERVER['PHP_SELF'];?>> class="dropdown-item">
                            <--><a href=<?php echo $_SERVER['PHP_SELF'];?>>
                        </li>
                    </ul>
                    $sql = "SELECT * FROM faculty_student_group JOIN student_group ON
                            faculty_student_group.groupId = student_group.groupId WHERE fypart
                            = 1";
                    $result = $link->query($sql);

                    if ($result->num_rows > 0) {
                        // output data of each row
                        while($row = $result->fetch_assoc()) { ?>
                            <div class="dropdown-divider"></div>
                            <li class="nav-item dropdown"><a href=<?php echo $_SERVER['
                                PHP_SELF'];?>?group=$row['groupId'];?>> class="dropdown-item">
                                <?php
                                dropdown-item"><i class="fas fa-users mr-2"></i>
                                echo $row['projectName']; ?></a></li>
                            <?php
                        }
                    } else { ?>
                        <li><a href=<?php echo $_SERVER['PHP_SELF'];?>> No Groups Available
                            </a></li>
                        <?php
                    }
                </ul>
            </div>
        </div>
    <!-- Show Group Members-->
</php>
if (isset($_GET['group']) AND is_numeric($_GET['group']) AND $grade_check == FALSE ) { ?>

    <br/>
    <h2 class="page-header">
        <i class="fas fa-project-diagram"></i> <?php echo $projName;?>
        <small class="float-right">Supervisor: <?php if (isset($supervisorName)){echo $
            supervisorName;}?></small>
    </h2>
    <table class="table table-striped">
        <thead>

```

```

<tr>
    <th>Rid</th>
    <th>Name</th>
    <th>Contribution (20)</th>
    <th>Answer to Question(10)</th>
    <th>Completion(20)</th>
    <th>Comments/Review</th>
</tr>
</thead>
<tbody>
<form role="form" action="" id="gradestudents" name="gradestudents" method="POST"
      data-toggle="validator">
    <?php
    $sql = "SELECT * FROM student WHERE student.groupId ='$groupId' ";
    $result = $link->query($sql);
    if ($result->num_rows > 0) {
        // output data of each row
        while($row = $result->fetch_assoc()) { ?>
            <!--HIDDEN INPUTS-->
            <input type="hidden" name="studentId[]" id="studentId[]" value="<?php echo $row['studentId'];?>">
            <input type="hidden" name="count" id="count" value="<?php echo $result->num_rows; ?>">
            <input type="hidden" name="groupId" id="groupId" value="<?php echo $groupId; ?>">
        <br>
        <td><?php echo $row['studentId'];?></td>
        <td><?php echo $row['studentName'];?></td>
        <td><input type="number" name="contribution[]" min="0" max="20" required></td>
        <td><input type="number" name="answerToQuestion[]" min="0" max="10" required></td>
        <td><input type="number" name="completion[]" min="0" max="20" required></td>
        <td><input type="text" class="form-control" id="comments[]" name="comments[]"
                  placeholder="Comments/Reviews if any"></td>
    <?php } ?>
    </tr>
</form>
</tbody>
</table>
<div class="card-footer">
    <a href=<?php echo $_SERVER['PHP_SELF'];?>" class="btn btn-default" >Cancel</a>
    <button type="submit" name="btngradestudents" form="gradeStudents" class="btn btn-primary float-right">Grade Students</button>
</div>
</?php
} else if (isset($grade_check)) {
    if ($grade_check == TRUE){
        ?>
        <br><br>
        <div class="callout callout-info">
            <h4>Already Graded!</h4>
            <p>This group has already been graded.you can edit Grades until coordinator locks them</p>
        </div>
    }
}

```

```


| Rid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Name | Contribution (20) | Answer to Question(10) | Completion(20) | Comments/Review | Total Grade | Actions |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------|------------------------|----------------|-----------------|-------------|---------|
| </tr> <?php \$sql = "SELECT * FROM grades JOIN student ON student.studentId = grades. studentId WHERE grades.groupId = '\$groupId' AND fypPart = 1 AND gradedBy = '\$facultyId' "; \$result = \$link->query(\$sql); if (\$result->num_rows > 0) {     // output data of each row     while(\$row = \$result->fetch_assoc()) {         \$gradedBy = \$row['gradedBy'];         <tr>             <td><?php echo \$row['studentRid'];?></td>             <td><?php echo \$row['studentName'];?></td>             <td><?php echo \$row['contribution'];?></td>             <td><?php echo \$row['anstoques'];?></td>             <td><?php echo \$row['completion'];?></td>             <td><?php echo \$row['comments'];?></td>             <td><?php echo \$row['grade'];?></td>             <td><a href=<?php echo \$_SERVER['PHP_SELF']."?group=".\$row[' groupId']."'>Edit</a></td>         </tr>         <?php     } } </tbody> <?php } } </div> <!-- /.card-body --> </div> <!-- /.card --> <?php } } </div> </div> </div> <!-- .Content Wrapper. Contains page content --> <?php include('include/footer.php'); ?> |      |                   |                        |                |                 |             |         |


```

- Code for Coordinator grading:

```

<?php
$title = "Prosys";
$subtitle = "Grading";
session_start();
include ('db/db_connect.php');
if($_SESSION['isCoord'] != 1){
    header("location: login.php");
}
$facultyId = $_SESSION['userId'];
/* Check if Coordinator allowed grading
*****
*$sql = "SELECT * FROM batch JOIN batch_settings ON batch_settings.batchId = batch.batchId WHERE isActive = 1 AND fypPart =1 LIMIT 1";
$result = $link->query($sql);
if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        $fyp1_grading = $row['fyp1_grading'];
        $fyp2_grading = $row['fyp2_grading'];
    }
}
//Check if form is submitted by GET
if ($_SERVER['REQUEST_METHOD'] == 'GET') {
    if (isset($_GET['group'])) and is_numeric($_GET['group'])) ){

        $groupId = filter_input(INPUT_GET, "group", FILTER_SANITIZE_SPECIAL_CHARS);

        //Check if group is already graded
        $sql = "SELECT id FROM grades WHERE groupId='$groupId' AND fypPart=1 AND gradedBy = '$facultyId' LIMIT 1 ";
        $result = $link->query($sql);

        if ($result->num_rows > 0) {
            $grade_check = TRUE;

            $projName = $link->query("SELECT projectName FROM student_group WHERE student_group.groupId = '$groupId' ")->fetch_object()->
                projectName;

            //Supervisor Data
            $supervisorId = $link->query("SELECT facultyId FROM faculty_student_group WHERE faculty_student_group.groupId = '$groupId' ")->
                fetch_object()->facultyId;
            if($supervisorId){
                $supervisorName = $link->query("SELECT facultyName FROM faculty WHERE faculty.facultyId= '$supervisorId' ")->fetch_object()->
                    facultyName;
            }
            else{
                $grade_check = FALSE;
                $projName = $link->query("SELECT projectName FROM student_group WHERE student_group.groupId = '$groupId' ")->fetch_object()->
                    projectName;
            }
            //Supervisor Data
            $supervisorId = $link->query("SELECT facultyId FROM faculty_student_group WHERE faculty_student_group.groupId = '$groupId' ")->
                fetch_object()->facultyId;
            if($supervisorId){

                $supervisorName = $link->query("SELECT facultyName FROM faculty WHERE faculty.facultyId= '$supervisorId' ")->fetch_object()->
                    facultyName;
            }
        }
    }
}
//Check if form is submitted by POST
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    if (isset($_POST['btnGradeStudents'])){
        //REDIRECT INPUTS
        $studentId = $_POST['studentId'];
        $count = $_POST['count'];
        $groupId = $_POST['groupId'];
        $fypPart = '1';
        $iscord = '1';
        //FROM FORM
        $contribution = $_POST['contribution'];
        $answertoquestion = $_POST['answerToQuestion'];
        $completion = $_POST['completion'];
        $comments = $_POST['comments'];
        for ($x = 0; $x < $count; $x++) {
            $grade[$x] = $contribution[$x] + $answertoquestion[$x] + $completion[$x];
            $sql = "INSERT INTO grades (studentId, groupId, fypPart, comments, contribution, anstoques, completion, grade, gradedBy, iscord) VALUES
            ('$studentId[$x]', '$groupId', '$fypPart', '$comments[$x]', '$contribution[$x]', '$answertoquestion[$x]', '$completion[$x]', '$grade[$x]', '$facultyId', '$iscord')";
            if ($link->query($sql) == TRUE)
                header("Location: " . $_SERVER['PHP_SELF'] . '?status=t');
            else {
                //SQL ERROR
                header("Location: " . $_SERVER['PHP_SELF'] . '?status=f');
            }
        }
        else if ($_POST['contribution[]'] == "" && $_POST['answerToQuestion[]'] == "" && $_POST['completion[]'] == ""){
            //GRADE NOT SELECTED
            header("Location: " . $_SERVER['PHP_SELF'] . '?status=f');
        }
    }
}

```

```

/*
 * Edit Grade
 */
if (isset($_POST['btnEditGrade'])) {
    $gradeId = filter_input(INPUT_POST, 'gradeId', FILTER_SANITIZE_NUMBER_INT);
    $groupId = filter_input(INPUT_POST, 'groupId', FILTER_SANITIZE_NUMBER_INT);
    $contribution = filter_input(INPUT_POST, 'contribution', FILTER_SANITIZE_NUMBER_INT);
    $answertoQuestion = filter_input(INPUT_POST, 'answerToQuestion', FILTER_SANITIZE_NUMBER_INT);
    $completion = filter_input(INPUT_POST, 'completion', FILTER_SANITIZE_NUMBER_INT);
    $comments = filter_input(INPUT_POST, 'comments', FILTER_SANITIZE_SPECIAL_CHARS);
    $grade = $contribution + $answertoQuestion + $completion;
    $sql = "UPDATE grades SET contribution='$contribution', anstrokes='$answertoQuestion', completion ='$completion', comments ='$comments'
           ,grade='$grade' WHERE id='$gradeId' ";
    if ($link->query($sql) === TRUE) {
        header('Location: ' . $_SERVER['PHP_SELF'] . '?group=' . $groupId . '&status=t');die;
    } else {
        header('Location: ' . $_SERVER['PHP_SELF'] . '?group=' . $groupId . '&status=f');die;
    }
}

```

<head>

<?php include('include/head.php'); ?>

</head>

<body class="hold-transition sidebar-mini layout-fixed">

<div class="wrapper">

<!-- Navbar -->

<?php include('include/navbar.php'); ?>

<!-- .Navbar -->

<!-- Main Sidebar Container -->

<?php include('include/sidebar.php'); ?>

<!-- .Main Sidebar Container -->

<!-- Content Wrapper. Contains page content -->

<div class="content-wrapper">

<!-- Content Header (Page header) -->

<?php include ('include/contentheader.php'); ?>

<!-- .Content Header (Page header) -->

<section class="content" style="min-height: 700px">

<div class="row">

<div class="col-md-12">

<?php if (isset(\$_GET['status'])){

if (\$_GET['status'] == 't'){>

<div style="text-align:center;" class="alert alert-success" role="alert">

Changes saved successfully!

<button type="button" class="close" data-dismiss="alert">×</button>

```

<button type="button" class="close" data-dismiss="alert">×</button>
```

</div>

<?php }

else{ >

<div style="text-align:center;" class="alert alert-danger" role="alert">

Error! Something Went Wrong

<button type="button" class="close" data-dismiss="alert">×</button>

```

        <input type="number" name="completion" min="0" max="20" required value=<?php echo $completion;?>>
    </div>
    <div class="form-group">
        <label for="comments" class="mr-3">Comment/Review: </label>
        <input type="text" name="comments" value=<?php echo $comments;?>>
    </div>
    <div class="form-group">
        <label for="grade" class="mr-3">Grade : </label>
        <input type="text" name="grade" value=<?php echo $grade;?>> readonly>
    </div>
    <br>
</form>
<!-- /.card-body -->
<div class="card-footer">
    <button type="submit" form="editgrade" name="btnEditorade" class="btn btn-primary btn-sm float-right" form="">
        Submit</button>
    <button onclick="goBack()" class="btn btn-default">Back</button>
</div>
</div>
</div>
<?php
}
<?php
// If coordinator allowed Fyp-1 grading
/*
if ($typ1_grading == 1){ ?>
<div class="card card-primary card-outline">
    <div class="card-header">
        <h3 class="card-title">Grade Groups</h3><br>
        <p class="text-muted">Select a group and Grade Project Proposal</p>
    </div>
    <!-- /.card-header -->
    <div class="card-body" >
        <div class="form-group">
            <label for="chooseGroup" class="col-sm-2 control-label">Choose Group</label>
            <div class="col-sm-10">
                <div class="dropdown">
                    <button class="btn btn-default dropdown-toggle" type="button" id="dropdownMenu1" data-toggle="dropdown"
                        aria-haspopup="true" aria-expanded="true">
                        Choose a group
                    <span class="caret"></span>
                </div>
                <ul class="dropdown-menu " aria-labelledby="dropdownMenu1">
                    <li><a href=<?php echo $_SERVER['PHP_SELF'];?>> class="dropdown-item"---</a></li>
                    <?php
                    $sql = "SELECT * FROM faculty_student_group JOIN student_group ON Faculty_student_group.FacultyId =
                           student_group.groupId WHERE NOT facultyId = '$facultyId' AND fypPart = 1";
                    $result = $link->query($sql);
                    if ($result->num_rows > 0) {
                        // output data of each row
                        while($row = $result->fetch_assoc()) { ?>

```



```

<div class="dropdown-divider"></div>
<li class="nav-item dropdown"><a href=<?php echo $_SERVER['PHP_SELF'] . '?group=' . $row['groupId'] . '>' class="dropdown-item"><?php echo $row['groupName']; ?></a></li>
<?php
} else { ?>
<li><a href=<?php echo $_SERVER['PHP_SELF'];?>> NO Groups Available</a></li>
<?php
}
</ul>
</div>
</div>
</div>
</div>
<!-- Show Group Members-->
<?php
if (isset($_GET['group']) AND is_numeric($_GET['group']) AND $grade_check == FALSE ){ ?>
<br/>
<div class="card card-primary card-outline">
    <div class="card-header">
        <h2 class="page-header">
            <i class="fas fa-project-diagram ml-3"></i> <?php echo $projName;?>
            <small class="float-right mr-3">Supervisor: <?php if (isset($supervisorName)){echo $supervisorName;}?></small>
        </h2>
        <p>Mark sheet of the Group members.</p>
    </div>
    <div class="card-body table-responsive">
        <table class="table table-condensed">
            <thead>
                <tr>
                    <th style="width: 20px;">Rid</th>
                    <th>Name</th>
                    <th>Enrolled by</th>
                    <th>Contribution (20)</th>
                    <th>Answer to Question(10)</th>
                    <th>Completion(20)</th>
                    <th>Comments</th>
                    <th style="width: 10px;">Grade</th>
                </tr>
            </thead>
            <?php
            $sql = "SELECT facultyName, studentRid , studentName , `contribution`,'ansstoques','completion','comments','grade'
                   FROM `faculty` JOIN grades ON faculty.FacultyId = grades.gradedBy JOIN student ON grades.studentId =
                   student.studentId WHERE grades.groupId = '$groupId' AND fypPart = 1 order by studentName";
            $result = $link->query($sql);
            if ($result->num_rows > 0) {
                // output data of each row
                while($row = $result->fetch_assoc()) { ?>
                    <tr>
                        <td><?php echo $row['studentRid'];?></td>
                        <td><?php echo $row['studentName'];?></td>
                        <td><?php echo $row['FacultyName'];?></td>
                        <td><?php echo $row['contribution'];?></td>
                        <td><?php echo $row['ansstoques'];?></td>
                        <td><?php echo $row['completion'];?></td>

```

```

        <td><?php echo $row['comments'];?></td>
        <td><?php echo $row['grade'];?></td>
    </tr>
}else{?
    <td> -- </td>
    <td> -- </td>
<br>
<div class="callout callout-info">
    <?php echo NOT GRADED YET.</?php>
</div>
<?php } ?>
</table>
</div>
</div>
<div class="card card-primary card-outline">
    <div class="card-header">
        <h3 class="card-title font-weight-bold">Overall performance by Group Members</h3><br>
    </div>
    <div class="card-body table-responsive">
        <table class="table table-condensed">
            <tr>
                <th style="width: 20px;">Rid</th>
                <th>Name</th>
                <th>Contribution (20)</th>
                <th>Answer to Question(10)</th>
                <th>Completion(20)</th>
                <th style="width: 10px;">Overall Grade</th>
            </tr>
            <?php
$sql = "SELECT `studentRid` , `studentName` , AVG(`contribution`) as contribution , AVG(`ansstoques`) as AnswerstoQuestion , AVG(`completion`) as Completion , AVG(`grade`) as grade FROM grades JOIN student ON grades.studentId = student.studentId WHERE grades.groupId = '$groupId' AND fypart = 1 , GROUP BY grades.studentId ";
$result = $link->query($sql);
if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        <tr>
            <?php

```

```

<td><?php echo $row['studentRid'];?></td>
<td><?php echo $row['studentName'];?></td>
<td><?php echo number_format($row['contribution'],1);?></td>
<td><?php echo number_format($row['AnswerstoQuestion'],1);?></td>
<td><?php echo number_format($row['Completion'],1);?></td>
<td><?php echo number_format($row['grade'],1);?></td>
        </tr>
        <?php
    }
}else{?
    <td> -- </td>
    <td> -- </td>
<?php } ?>
</table>
</div>
</div>
<div class="card card-primary card-outline">
    <div class="card-header">
        <h3 class="card-title font-weight-bold">Grade Group : <?php echo $projName;?></h3><br>
    </div>
    <div class="card-body table-responsive">
        <table class="table table-striped">
            <thead>
                <tr>
                    <th>Rid</th>
                    <th>Name</th>
                    <th>Contribution (20)</th>
                    <th>Answer to Question(10)</th>
                    <th>Completion(20)</th>
                    <th>Comments/Review</th>
                </tr>
            </thead>
            <tbody>
                <?php
                $sql = "SELECT * FROM student WHERE student.groupId = '$groupId' ";
                $result = $link->query($sql);
                if ($result->num_rows > 0) {
                    // output data of each row
                    while($row = $result->fetch_assoc()) { ?
                        <!--HIDDEN INPUTS-->
                        <input type="hidden" name="studentId[]" id="studentId[]" value="<?php echo $row['studentId'];?>">
                        <input type="hidden" name="count" id="count" value="<?php echo $result->num_rows; ?>">
                        <input type="hidden" name="groupId" id="groupId" value="<?php echo $groupId; ?>">
                        <tr>
                            <td><?php echo $row['studentRid'];?></td>
                            <td><?php echo $row['studentName'];?></td>
                            <td><input type="number" name="contribution[] min="0" max="20" required></td>

```

```

        <td><input type="number" name="answerToquestion[]" min="0" max="10" required></td>
        <td><input type="number" name="completion[]" min="0" max="20" required>
        <td><input type="text" class="form-control" id="comments[]" name="comments[]" placeholder="Comments/Reviews if any"></td>
        <?php } ?>
    </tr>
</tbody>
</table>
<div class="card-footer">
    <a href=<?php echo $_SERVER['PHP_SELF'];?> class="btn btn-default" >Cancel</a>
    <button type="submit" name="btngradeStudents" form="gradeStudents" class="btn btn-primary float-right">
        Grade Students</button>
</div>
</div>
<?php
} else if (isset($grade_check)) {
    if ($grade_check == TRUE){
        <br/>
        <div class="card card-primary card-outline">
        <div class="card-header">
            <h2 class="page-header">
                <i class="fas fa-project-diagram"></i> <?php echo $projName;?>
                <small class="float-right">Supervisor: <?php if (isset($supervisorName)){echo $supervisorName;}?></small>
            </h2>
            <p>Mark sheet of the Group members.</p>
        </div>
        <div class="card-body table-responsive">
            <table class="table table-condensed">
                <tr>
                    <th style="width: 20px;">Rid</th>
                    <th>Name</th>
                    <th>Graded By</th>
                    <th>Contribution (20)</th>
                    <th>Answer to Question(10)</th>
                    <th>Completion(20)</th>
                    <th>Comments</th>
                    <th style="width: 10px;">Grade</th>
                </tr>
<?php
$sql = "SELECT facultyName, studentId, studentName , 'contribution', 'anstoques', 'completion', 'comments', `grade` FROM `faculty` JOIN grades ON faculty.facultyId = grades.gradeId JOIN student ON grades.studentId = student.studentId WHERE grades.groupId = '$groupId' AND fypPart = 1 ORDER BY studentName";
$result = $link->query($sql);
if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) { ?>
        <tr>
            <td><?php echo $row['studentId'];?></td>
            <td><?php echo $row['studentName'];?></td>
            <td><?php echo $row['facultyName'];?></td>
            <td><?php echo $row['contribution'];?></td>
            <td><?php echo $row['anstoques'];?></td>
            <td><?php echo $row['completion'];?></td>

```

```

            <td><?php echo $row['grade'];?></td>
        </tr>
    }
}
</table>
</div>
<div class="card card-primary card-outline">
    <div class="card-header">
        <h3 class="card-title font-weight-bold">Overall Performance By the Group Members.</h3><br>
    </div>
    <div class="card-body table-responsive">
        <table class="table table-condensed">
            <tr>
                <th style="width: 20px;">Rid</th>
                <th>Name</th>
                <th>Contribution (40)</th>
                <th>Answer to Question(20)</th>
                <th>Completion(40)</th>
                <th style="width: 10px;">Overall Grade(100)</th>
                <th>Grade</th>
            </tr>
<?php
$sql = "SELECT `contribution`, `anstoques`, `completion`, `grade` FROM `grades` WHERE grades.groupId = '$groupId' AND grades.iscord = 1 AND fypPart = 1 GROUP BY grades.studentId";
$contribution = array();
$completion = array();
$anstoques = array();
$grade = array();
$result = $link->query($sql);
if ($result->num_rows > 0) {
    while($row = $result->fetch_assoc()) {
        $contribution[] = $row['contribution'];
        $completion[] = $row['completion'];
        $anstoques[] = $row['anstoques'];
        $grade[] = $row['grade'];
    }
}
$sql = "SELECT `studentId`, `studentName`, AVG(`contribution`) AS contribution, AVG(`anstoques`) AS AnswerToQuestion, AVG(`completion`) AS Completion, AVG(`grade`) AS grade FROM grades JOIN student ON grades.studentId = student.studentId WHERE grades.groupId = '$groupId' AND grades.iscord = 1 AND fypPart = 1 GROUP BY grades.studentId";
$result = $link->query($sql);
if ($result->num_rows > 0) {
    // output data of each row
    $count = 0;
    while($row = $result->fetch_assoc()) {
        ?>
        <tr>
```

```

<td><?php echo $row['studentRid'];?></td>
<td><?php echo $row['studentName'];?></td>
<td><?php echo $row['contribution']+ $contribution[$count];?></td>
<td><?php echo $row['Answerstoquestion']+ $ansstoques[$count];?></td>
<td><?php echo $row['completion']+ $completion[$count];?></td>
<td><?php echo round($row['grade']) + $grade[$count];?></td>
<td><?php
    if ((round($row['grade']) + $grade[$count]) >= 60 && round($row['grade']) + $grade[$count]
        ) <= 64) {
        echo "E";
    }elseif (round($row['grade']) + $grade[$count]) >= 65 && round($row['grade']) + $grade[$
        count] <= 73) {
        echo "C+";
    }elseif (round($row['grade']) + $grade[$count]) >= 74 && round($row['grade']) + $grade[$
        count] <= 81) {
        echo "C";
    }elseif (round($row['grade']) + $grade[$count]) >= 82 && round($row['grade']) + $grade[$
        count] <= 87) {
        echo "B+";
    }elseif (round($row['grade']) + $grade[$count]) >= 88) {
        echo "A";
    }else{
        echo "F";
    }
}></td>
</tr>
<?php
$count++;
}
}
></table>
</div>
</div>
<div class="card card-primary card-outline">
<div class="card-header">
<h3 class="card-title">Edit Group</h3><br>
</div>
<div class="card-body table-responsive">
<table class="table table-condensed">
<tr>
<th style="width: 20px;">Rid</th>
<th>Name</th>
<th>Contribution (20)</th>
<th>Answer to Question(10) /><th>
<th>Completion(20)</th>
<th>Comments/Review</th>
<th style="width: 10px;">Total Grade</th>
<th style="width: 10px;">Actions</th>
</tr>
<?php
$sql = "SELECT * FROM grades JOIN student ON student.studentId = grades.studentId WHERE grades.groupId
      = '$groupId' AND fyOpPart = 1 AND gradedBy = '$facultyId' ";
$result = $link->query($sql);

```

```

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        $gradedBy = $row['gradedBy'];
        >
        <tr>
            <td><?php echo $row['studentRid'];?></td>
            <td><?php echo $row['studentName'];?></td>
            <td><?php echo $row['contribution'];?></td>
            <td><?php echo $row['ansstoques'];?></td>
            <td><?php echo $row['completion'];?></td>
            <td><?php echo $row['comments'];?></td>
            <td><?php echo $row['grade'];?></td>
            <td><a href=<?php echo $_SERVER['PHP_SELF']."?group=".$row['groupId']."&edit=".$row['id']
                ;?>" class="btn btn-default btn-sm">Edit</a></td>
        </tr>
        <?php
    }
}
></table>
</div>
<?php
}
}
></div>
<!-- ./card-body -->
</div>
<!-- ./card -->
<?php
}
>
</div>
</div>
</div>
<!-- .Content Wrapper. Contains page content -->
<?php include('include/footer.php'); ?>
</div>
<!-- jQuery -->
<?php include('include/jsFile.php'); ?>
<?php
jQuery
<script type="text/javascript">
    function goBack() {
        window.history.back();
    }
</script>
</body>
</html>

```

- Code for Project repository:

```

<?php
$title = "ProSys";
$subtitle = "Project Repository";
include('db_db_connect.php');
session_start();
if($_SESSION['isCord'] != 1){
    header("location: login.php");
}

//Check if form is submitted by POST
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    if (isset($_POST['btnDownload'])) {
        $downloadID = filter_input(INPUT_POST,'downloadID',FILTER_SANITIZE_NUMBER_INT);
        //uploads/batchName/group id/deliverable name
        $sql = "SELECT * FROM group_uploads WHERE id = '$downloadID' LIMIT 1";
        $result = $link->query($sql);
        if ($result->num_rows > 0) {
            // output data of each row
            while($row = $result->fetch_assoc()) {
                $deliverableName = $row['uploadfile'];
                $groupID = $row['groupid'];
            }
        }
        //Getting batchId,batch Name from groupid
        $batchID = $link->query("SELECT batchId FROM student_group WHERE groupId = '$groupID'")->fetch_object()->batchId;
        $batchName = $link->query("SELECT batchName FROM batch WHERE batchId = '$batchID'")->fetch_object()->batchName;
        $group = 'Group ' . $groupID;
        $location = siteroot."uploads/".$batchName."/". $group."/". $deliverableName;

        //Download file
        header('Pragma: public');
        header('Expires: 0');
        header('Cache-Control: must-revalidate, post-check=0, pre-check=0');
        header('Cache-Control: private, false'); // required for certain browsers
        header('Content-Type: application/pdf');
        header('Content-Disposition: attachment; filename="'. basename($location) .' "'");
        header('Content-Transfer-Encoding: binary');
        header('Content-Length: ' . filesize($location));
        readfile($location);
    }
}
</head>
<?php include('include/head.php'); ?>
</head>
<body class="hold-transition sidebar-mini layout-fixed">

```

```

<div class="wrapper">
<!-- Navbar -->
<?php include('include/navbar.php'); ?>
<!-- .Navbar -->
<!-- Main Sidebar Container -->
<?php include('include/sidebar.php'); ?>
<!-- Main Sidebar Container -->
<!-- Content Wrapper. Contains page content -->
<div class="content-wrapper">
    <!-- Content Header (Page header) -->
    <?php include ('include/contentheader.php'); ?>
    <!-- .Content Header (Page header) -->
    <section class="content" style="min-height: 700px">
        <div class="row">
            <div class="col-md-12">
                <?php if (isset($_GET['details']) && is_numeric($_GET['details']) && strlen($_GET['details'])>0){ 
                    $groupID = filter_input(INPUT_GET,'details',FILTER_SANITIZE_NUMBER_INT);
                    if (isset($groupID) && is_numeric($groupID) && strlen($groupID)>0){
                        $projectName = $link->query("SELECT projectName FROM student_group WHERE groupId = '$groupID' LIMIT 1")->fetch_object()->projectName;
                    }else{
                        $projectName = "--";
                    }
                }>
                <!--DETAILS-->
                <div class="card card-primary card-outline no-border">
                    <div class="card-header">
                        <h3><?php echo $projectName;?></h3>
                        <h3 class="card-title">Members</h3>
                        <div class="card-tools">
                            <div class="input-group input-group-sm" style="width: 150px;">
                                </div>
                        </div>
                    </div>
                    <!-- /.card-header -->
                    <div class="card-body">
                        <table id="" class="table table-striped">
                            <thead>
                                <tr>
                                    <th>Rid</th>
                                    <th>Name</th>
                                    <th>Email</th>
                                    <th>Contact</th>
                                </tr>
                            </thead>
                            <tbody>
                            </tbody>
                        </table>
                    </div>
                </div>
            </div>
        </div>
    </section>
</div>

```

```

<?php
$groupId = filter_input(INPUT_GET,'details',FILTER_SANITIZE_NUMBER_INT);
$sql = "SELECT * FROM student WHERE groupId = '$groupId'";
$result = $link->query($sql);
if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) { ?>
        <form name="detailForm" id="detailForm" method="post" data-toggle="validator">
            <input type="hidden" name="downloadId" value=<?php echo $row['id'];?>>
            <tr>
                <td><?php echo $row['studentRid']; ?></td>
                <td><?php echo $row['studentName']; ?></td>
                <td><?php echo $row['studentEmail']; ?></td>
                <td><?php echo $row['studentPhoneNo']; ?></td>
            </tr>
        </form>
    <?php
}
}
</tbody>
</div>
<div class="card card-primary card-outline no-border">
    <div class="card-header">
        <h3 class="card-title">Group Uploads</h3>
    </div>
    <!-- /.card-header -->
    <div class="card-body">
        <table id="" class="table table-striped">
            <thead>
                <tr>
                    <th>Deliverable</th>
                    <th>Uploaded by</th>
                    <th>Uploaded <i class="fa fa-clock-o"></i></th>
                    <th>Actions</th>
                </tr>
            </thead>
            <tbody>
                <?php
$groupId = filter_input(INPUT_GET,'details',FILTER_SANITIZE_NUMBER_INT);
$sql = "SELECT * FROM group_uploads JOIN student ON student.studentId = group_uploads.uploadedBy WHERE group_uploads.groupId = '$groupId' LIMIT 1";
$result = $link->query($sql);

```

```

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) { ?>
        <form name="detailForm" id="detailForm" method="post">
            <input type="hidden" name="downloadId" value=<?php echo $row['id'];?>>
            <tr>
                <td><?php $taskId = $row['taskId'];  

echo $link->query("SELECT taskName FROM batch_tasks WHERE taskId = '$taskId'")->fetch_object()->taskName;?>
                </td>
                <td><a href=<?php echo "studentProfile.php?id=".$row['studentId']; ?>" target="_blank"><?php echo $row['studentName'];
                ?>></a></td>
                <td><?php echo $row['uploadedDtm']; ?></td>
                <td>
                    <button type="submit" name="btnDownload" class="btn btn-default btn-sm"><i class="fa fa-download"></i> Download
                </button>
                </td>
            </tr>
        </form>
    <?php
}
}
</tbody>
</table>
</div>
<div class="card card-primary card-outline">
    <div class="card-header">
        <h3 class="card-title font-weight-bold">Project Proposal Grading.</h3><br>
    </div>
    <div class="card-body table-responsive">
        <table class="table table-condensed">
            <tr>
                <th style="width: 20px;">Rid</th>
                <th>Name</th>
                <th>Contribution (40)</th>
                <th>Answer to Question(20)</th>
                <th>Completion(40)</th>
                <th style="width: 10px;">Overall Grade(100)</th>
                <th>Grade</th>
            </tr>
        </table>
    <?php
$sql = "SELECT `contribution`, `anstoques`, `completion`, `grade` FROM `grades` WHERE grades.groupId = '$groupId' AND grades.iscord = 1 AND
fypPart = 1 GROUP BY grades.studentId";
$contribution = array();

```

```

        $completion = array();
        $anstoques = array();
        $grade = array();
        $result = $link->query($sql);
        if ($result->num_rows > 0) {
            while($row = $result->fetch_assoc()) {
                $contribution[] = $row['contribution'];
                $completion[] = $row['completion'];
                $anstoques[] = $row['anstoques'];
                $grade[] = $row['grade'];
            }
        }
        $sql = "SELECT `studentRid` , `studentName` , AVG(`contribution`) as contribution , AVG(`anstoques`) as AnswerToQuestion , AVG(`completion`) as Completion , AVG(`grade`) as grade FROM grades JOIN student ON grades.studentId = student.studentId WHERE grades.groupId = '$groupId' AND grades.iscord = 0 AND fypPart = 1 GROUP BY grades.studentId";
        $result = $link->query($sql);
        if ($result->num_rows > 0) {
            $count = 0;
            while($row = $result->fetch_assoc()) { ?>
                <tr>
                    <td></php echo $row['studentRid'];?></td>
                    <td></php echo $row['studentName'];?></td>
                    <td></php echo $row['contribution'] + $contribution[$count];?></td>
                    <td></php echo $row['AnswerToQuestion'] + $anstoques[$count];?></td>
                    <td></php echo $row['Completion'] + $completion[$count];?></td>
                    <td></php echo round($row['grade'] + $grade[$count]);?></td>
                    <td></php
                        if (round($row['grade'] + $grade[$count]) >= 60 && round($row['grade'] + $grade[$count]) <= 64) {
                            echo "C";
                        }elseif (round($row['grade'] + $grade[$count]) >= 65 && round($row['grade'] + $grade[$count]) <= 73) {
                            echo "C+";
                        }elseif (round($row['grade'] + $grade[$count]) >= 74 && round($row['grade'] + $grade[$count]) <= 81) {
                            echo "B";
                        }elseif (round($row['grade'] + $grade[$count]) >= 82 && round($row['grade'] + $grade[$count]) <= 87 ) {
                            echo "B+";
                        }elseif (round($row['grade'] + $grade[$count]) >= 88) {
                            echo "A";
                        }else{
                            echo "F";
                        }
                    ?></td>
                </tr>
            </php
            $count++;
        }
    
```

```

        }
    ?>
</table>
</div>
</div>
</div>
<div class="card card-primary card-outline">
    <div class="card-header">
        <h3 class="card-title font-weight-bold">Project Defense Grading.</h3><br>
    </div>
    <div class="card-body table-responsive">
        <table class="table table-condensed">
            <tr>
                <th style="width: 20px;">Rid</th>
                <th>Name</th>
                <th>Contribution (40)</th>
                <th>Presentation(40)</th>
                <th>Novelty(20)</th>
                <th style="width: 10px;">Overall Grade(100)</th>
                <th>Grade</th>
            </tr>
        </table>
    </div>
    <?php
    $sql = "SELECT `contribution` , `presentation` , `novelty` , `grade`FROM `grades` WHERE grades.groupId = '$groupId' AND grades.iscord = 1 AND fypPart = 2 GROUP BY grades.studentId";
    $contribution = array();
    $novelty = array();
    $presentation = array();
    $grade = array();
    $result = $link->query($sql);
    if ($result->num_rows > 0) {
        while($row = $result->fetch_assoc()) {
            $contribution[] = $row['contribution'];
            $novelty[] = $row['novelty'];
            $presentation[] = $row['presentation'];
            $grade[] = $row['grade'];
        }
    }
    $sql = "SELECT `studentRid` , `studentName` , AVG(`contribution`) as contribution , AVG(`presentation`) as presentation , AVG(`novelty`) as novelty , AVG(`grade`) as grade FROM grades JOIN student ON grades.studentId = student.studentId WHERE grades.groupId = '$groupId' AND grades.iscord = 0 AND fypPart = 2 GROUP BY grades.studentId";
    $result = $link->query($sql);
    if ($result->num_rows > 0) {
        $count = 0;
        while($row = $result->fetch_assoc()) { ?>
    
```

```

<tr>
    <td><?php echo $row['studentRid'];?></td>
    <td><?php echo $row['studentName'];?></td>
    <td><?php echo $row['contribution'] + $contribution[$count];?></td>
    <td><?php echo $row['presentation'] + $presentation[$count];?></td>
    <td><?php echo $row['novelty'] + $novelty[$count];?></td>
    <td><?php echo round($row['grade']) + $grade[$count];?></td>
    <td><?php
        if (round($row['grade']) + $grade[$count]) >= 60 && round($row['grade']) + $grade[$count] <= 64) {
            echo "C";
        }elseif (round($row['grade']) + $grade[$count]) >= 65 && round($row['grade']) + $grade[$count] <= 73) {
            echo "C+";
        }elseif (round($row['grade']) + $grade[$count]) >= 74 && round($row['grade']) + $grade[$count] <= 81) {
            echo "B";
        }elseif (round($row['grade']) + $grade[$count]) >= 82 && round($row['grade']) + $grade[$count] <= 87 ) {
            echo "B+";
        }elseif (round($row['grade']) + $grade[$count]) >= 88) {
            echo "A";
        }else{
            echo "F";
        }
    ?></td>
</tr>
<?php
$count++;
}
?
</table>
</div>
<div class="card card-primary card-outline no-border">
    <div class="card-header">
        <h3 class="card-title">Meeting Requests</h3>
    </div>
    <!-- /.card-header -->
    <div class="card-body">
        <table id="" class="table table-striped">
            <thead>
                <tr>
                    <th>Meeting Title</th>
                    <th><i class="fa fa-clock-o"></i> Date Time</th>
                    <th>Comments</th>
                    <th>Status</th>
                </tr>
            </thead>

```

```

</thead>
<tbody>
<?php
$groupId = filter_input(INPUT_GET,'details',FILTER_SANITIZE_NUMBER_INT);
$sql = "SELECT * FROM meeting_requests WHERE group_id = '$groupId' ";
$result = $link->query($sql);
if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) { >>
        <tr>
            <td><?php echo $row['meeting_title'];?></td>
            <td><?php echo $row['meeting_dtm'];?></td>
            <td><?php echo $row['comments'];?></td>
            <td><?php echo $row['meeting_status'];?></td>
        </tr>
    <?php
}
}
    </tbody>
</table>
</div>
<!-- /.card -->

<div class="card card-primary card-outline">
    <div class="card-header">
        <h3 class="card-title">Weekly Report</h3>
    </div>
    <!-- /.card-header -->
    <div class="card-body table-responsive">
        <table class="table table-head-fixed text-nowrap table-striped">
            <tr>
                <th>Planned Work</th>
                <th>Proposed Work</th>
                <th>Achievements</th>
                <th>Week</th>
                <th>Comments</th>
                <th>Score</th>
            </tr>
        <?php
$sql = "SELECT * FROM weekly_report WHERE group_Id ='$groupId' ";
$result = $link->query($sql);
if ($result->num_rows > 0) {
    // output data of each row
}
        </table>
    </div>

```

```
while($row = $result->fetch_assoc()) { ?>
    <tr>
        <td><?php echo $row['planned_work'];?></td>
        <td><?php echo $row['proposed_work'] ;?></td>
        <td><?php echo $row['achievements'] ;?></td>
        <td><?php echo $row['week_No'];?></td>
        <td><?php echo $row['comments'] ;?></td>
        <td><?php if($row['score']== 1){echo "Very Poor";}
            elseif($row['score']== 2){echo "Poor";}
            elseif($row['score']== 3){echo "Average";}
            elseif($row['score']== 4){echo "Good";}
            elseif($row['score']== 5){echo "Very Good";}?></td>
    </tr>
</table>
}
?>
</div>
<!-- /.card-body -->


<a href="php echo $_SERVER['PHP_SELF'];?&gt;" class="btn btn-default"Back</a>


<!-- /.card-footer -->
</div>
<!-- /.card -->
<?php
}else{ ?>


<div class="card-header">
        <h3 class="card-title">List of Batch</h3>
        <div class="card-tools">
            <form name="selectBatch" id="selectBatch" method="get" data-toggle="validator">
                <div class="form-group input-group input-group-sm" style="width: 250px;">
                    <select name="batchId" id="batchId" class="form-control" required>
                        <?php
                            $sql = "SELECT * FROM batch JOIN project_repository ON batch.batchId = project_repository.batchId";
                            $resutl = mysqli_query($link,$sql);
                            if ($mysql_num_rows($result) > 0) {
                                while($row = mysqli_fetch_assoc($result)) { ?>
                                    <option value="php echo $row['batchId']; ?&gt;">
                                        <?php echo $row['batchName'];?>
                                    </option>
                                </?php
                            }
                        }
                    </select>
                </div>
            </form>
        </div>
    </div>


```

```
>        </td>
    </tr>
</tbody>
</table>
</div>
<div class="card card-primary no-border">
    <div class="card-header">
        <h3 class="card-title">List of Projects</h3>
    </div>
    <!-- /.card-header -->
    <div class="card-body table-responsive">
        <table id="projectRepository" class="table table-striped">
            <thead>
                <tr>
                    <th>Batch</th>
                    <th>Group</th>
                    <th>Project Name</th>
                    <th>Supervisor</th>
                    <th>Actions</th>
                </tr>
            </thead>
            <tbody>
                <?php
                    $sql = "SELECT * FROM project_repository JOIN batch ON batch.batchId = project_repository.batchId JOIN student_group ON student_group.batchId = project_repository.batchId JOIN faculty_student_group ON Faculty_student_group.groupId = student_group.groupId JOIN faculty ON faculty.facultyId = faculty_student_group.facultyId WHERE batch.batchId = '$batchId'";
                    $result = $link->query($sql);
                    if ($result->num_rows > 0) {
                        // output data of each row
                        while($row = $result->fetch_assoc()) { >>
                            <tr>
                                <td><?php echo $row['batchName'];?></td>
                                <td><?php echo "Group # ".$row['groupId'];?></td>
                                <td><?php echo $row[' projectName '];?></td>
                                <td><?php echo $row[' facultyName '];?></td>
                                <td>
```

```
</td>
</tr>
<?php
}
} ?>
</tbody>
</div><!-- /.card-body -->
</div> <!-- /.card -->
<?php
}
} ?>
</div>
</div>
</section>
<div><!-- .Content Wrapper. Contains page content -->
<?php include('include/footer.php'); ?>
</div><!-- jQuery -->
<?php include('include/jsFile.php'); ?><!-- .jQuery -->
<script>
$(function () {
    $('#projectRepository').DataTable({
        "columnDefs": [
            { "orderable": false, "targets": -1 }
        ],
        "paging": true, "lengthChange": false, "searching": true, "ordering": true, "info": true, "autoWidth": false
    });
    $('#projectDetails').DataTable({
        "columnDefs": [
            { "orderable": false, "targets": -1 }
        ],
        "paging": false, "lengthChange": false, "searching": true, "ordering": true, "info": false, "autoWidth": false
    });
});
</script>
</body>
</html>
```

5.4 Important database queries

- **This query is from the coordinator grading module**

```
SELECT facultyName, studentRid , studentName ,  
`contribution`, `anstoques`, `completion`, `comments`, `grade` FROM  
`faculty` JOIN grades ON faculty.facultyId = grades.gradedBy JOIN  
student ON grades.studentId = student.studentId WHERE grades.groupId  
= '$groupId' AND fypPart = 1 order by studentName
```

Description:

In this query we used JOIN on merge three different tables which are Faculty, Student, Grades to get the desire data fields according to the requirement.

- **This query is also from the coordinator grading module**

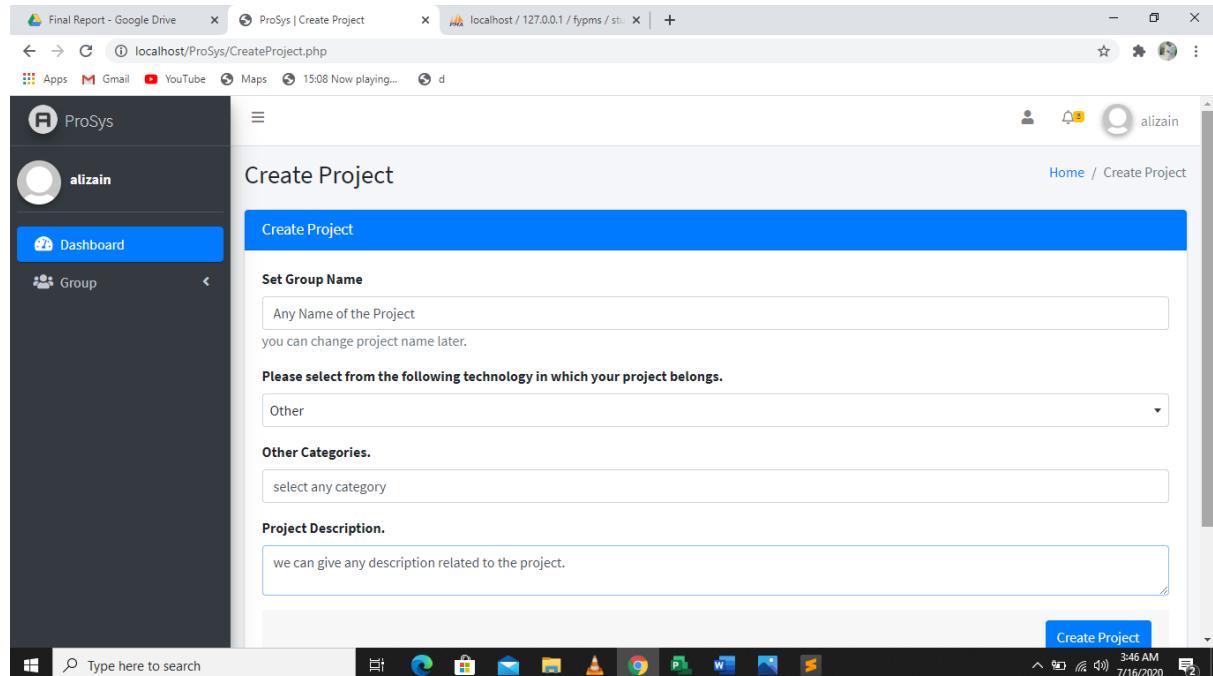
```
SELECT `studentRid`, `studentName` , AVG(`contribution`) as  
contribution , AVG(`anstoques`) as AnswerToQuestion ,  
AVG(`completion`) as Completion , AVG(`grade`) as grade FROM  
grades JOIN student ON grades.studentId = student.studentId WHERE  
grades.`groupId` = '$groupId' AND fypPart = 1 GROUP BY  
grades.`studentId`
```

Description:

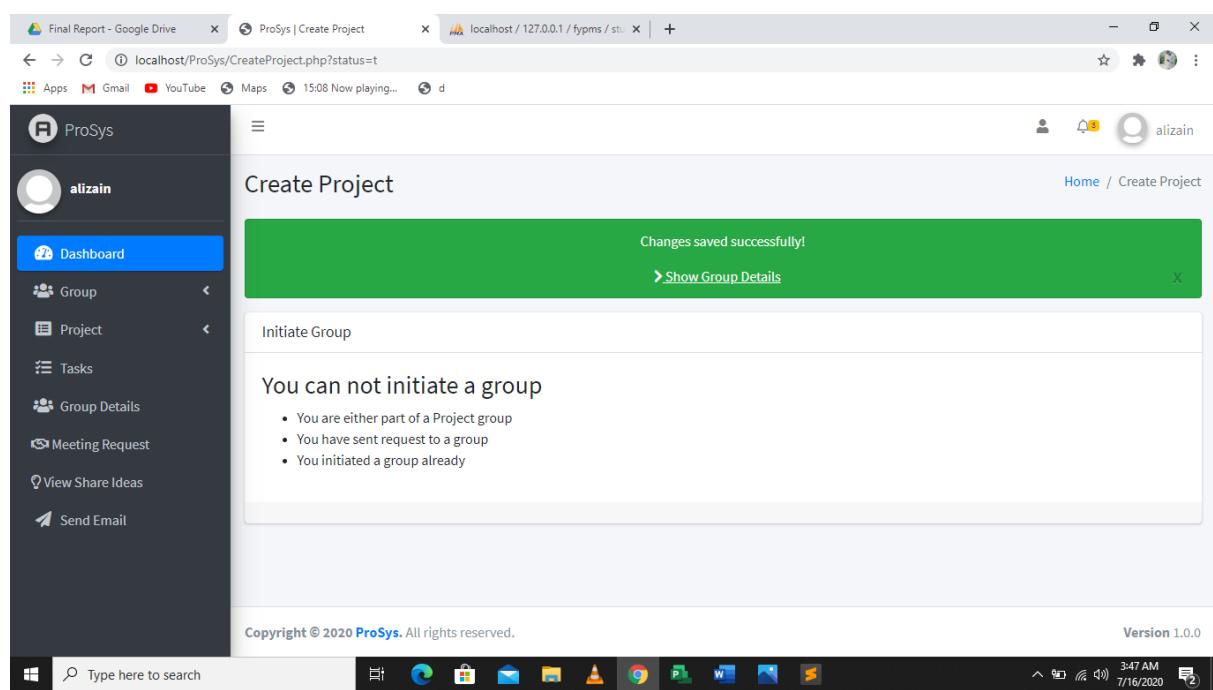
This query is similar to the above query but the difference is that we have to get the average of some fields and only two table is used.

5.5 Screenshots of a sample run of your project

- To create a project, we have to insert all the details.



Now insert the data we have to click the create project button.



After the click you can see the successful message in the section.

Let's check the new record in the database.

groupid	projectName	categories	description	batchId	fypPart	groupLimit	inGroup	leaderId	createdDtm
22	yycvg	3D/4D Printing	drdyhh	1	1	3	1	22	2020-03-27 21:19:46
16	IU Chat Bot	Artificial Intelligence	university chatbot..	1	1	3	2	12	2020-03-01 03:16:40
24	chatterbot	Artificial Intelligence	AI project	2	1	3	3	26	2020-06-06 23:02:07
23	Smart Card	Augmented Reality/Virtual Reality	based on augmented reality	1	1	3	1	21	2020-04-09 20:24:34
21	smart robot	Robotics	my first smart robot	1	1	3	1	19	2020-03-09 01:10:51
26	Any Name of the Project	select any category	we can give any description related to the project..	1	1	3	1	14	2020-07-16 03:47:25
20	proSys	web portal	jsvps.lv.s	1	1	3	2	20	2020-03-01 06:00:50
25	Work 4 Worker	werbportal	Web portal for workers to get job by home	2	1	3	1	29	2020-06-25 23:37:12

As you can see the check record is the one which we have added in the above screen shot.

- To join any group, you can send request to the group leaders.

Project Name	Created By	Group Created	Actions
IU Chat Bot	Khalid Ahmed [12423]	5 months ago	<button>Send Request</button>
proSys	walid ahmed [12422]	5 months ago	<button>Send Request</button>
smart robot	mohi khan [12430]	4 months ago	<button>Send Request</button>
yycvg	haroon rasheed [12432]	4 months ago	<button>Send Request</button>
Smart Card	Mubashir Hussain [12431]	3 months ago	<button>Send Request</button>

Now we can send request to any group in the list so we will send the request to which we have created in the above screen shot.

Let's click the send request button.

The screenshot shows a web browser window with multiple tabs open. The active tab is 'localhost/127.0.0.1/fypms/st...'. Below the tabs, there are several links: Apps, Gmail, YouTube, Maps, and a clock showing 15:08 Now playing... d. The main content area displays a list of group requests:

Requester	User ID	Time Ago	Action
IU Chat Bot	Khalid Ahmed [12423]	5 months ago	<button>Send Request</button>
proSys	walid ahmed [12422]	5 months ago	<button>Send Request</button>
smart robot	mohi khan [12430]	4 months ago	<button>Send Request</button>
yycvg	haroon rasheed [12432]	4 months ago	<button>Send Request</button>
Smart Card	Mubashir Hussain [12431]	3 months ago	<button>Send Request</button>
Work 4 Worker	Abdul sami [12347]	20 days ago	<button>Send Request</button>
Any Name of the Project	alizain [12425]	11 minutes ago	<button>Send Request</button>

At the bottom of the page, there is a copyright notice: 'Copyright © 2020 ProSys. All rights reserved.' and a version information: 'Version 1.0.0'. The browser taskbar at the bottom shows various pinned icons and the date/time: 3:59 AM 7/16/2020.

We have sent the request to the group and receive the successful message by the ProSys. As you can see, we can cancel the request by clicking the cancel request button it will undo the request.

The screenshot shows the 'Join Group' page of the ProSys application. The user 'waleed khan' is logged in, as indicated by the profile picture and name in the top right. The left sidebar has 'Dashboard' and 'Group' options. The main content area shows a green success message: 'Changes saved successfully!' followed by a note: 'I can not send request to group' and 'You have already sent request to a group'. A 'Cancel Request' button is present. At the bottom, there is a copyright notice: 'Copyright © 2020 ProSys. All rights reserved.' and a version information: 'Version 1.0.0'. The taskbar at the bottom shows the date/time: 4:00 AM 7/16/2020.

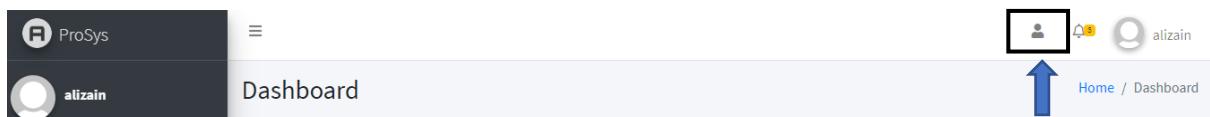
Now let's check the request receive to the group leader and accept the request.



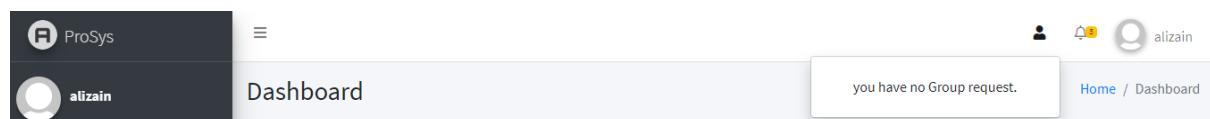
As you can see group leader has received the join request lets accept the request or you can delete the request.



The selected area display the request and we can accept and delete the request lets accept the request.



The arrow displays the decrement the request counter after accepting the request.



Now let's check the member details in the group leader account.

Group Details

Project Name: Any Name Of The Project

Supervisor: ---

Group Members

Registration ID	Name	Email	Contact	Action
12425	alizain	Leader	---	Remove Member
1426	waleed khan			Remove Member

As you can see Waleed khan added in the group of Alizain Aziz and Alizain Aziz can remove his team members if he accepts the request mistakenly.

Chapter 6:

Testing

Chapter 6:

Testing

6.1 Introduction

Software development is a complex task. It is not possible to use any pre-defined approach that shall result in good quality software product. Software developers always try to develop bug free software products. But due to the deviation and complexity of software requirements it is not possible to develop a bug free product.

We can only remove bugs from software by testing it. Testing is meant to break the system and find bugs in it.

6.2 Test Cases

6.2.1 Test Case 1: User Login

Requirement Description:

User will enter Registration ID(RID) and password to login. System should check the RID, if the RID is correct then the user will be login and if RID is incorrect than RID is invalid.

Input: password

Valid:

RID = '12422'

Invalid:

RID = 'walid'

RID = ' '

Test Case #	1	2	3
RID		walid	12422
P. Tested	RID = ' '	RID = 'walid'	RID = '12422 '
Exp Output	Error	Error	OK

Input: password

Partition Input Values

Valid:

Password = 123

Invalid:

Password ≠ 123

Test Case #	1	2	3
RID		walid	12422
P. Tested	RID = ‘ ’	RID = ‘walid’	RID = ‘12422‘
Exp Output	Error	Error	OK

6.2.2 Test Case 2: Create Batch

Requirement Description:

Coordinator will be created batch by selecting year and Batch (Fall or Spring) and start date of semester

Input: start date

Valid:

 start date = 07/16/2020

Invalid:

 start date = 123

 start date = July 16,2020

Test Case #	1	2	3
start date	123	July 16,2020	07/16/2020
P. Tested	start date = 123	start date = July 16,2020	start date = 07/16/2020
Exp Output	Error	Error	OK

6.2.3 Test Case 3: Register Student

Requirement Description:

Coordinator will register students by filling details of students

Input: RID

Valid:

$RID \geq 000001$ AND $RID \leq 99999$

Invalid:

Outside valid boundary class

Test Case #	1	2	3
RID	0	123456	10776
Boundary	$RID \geq 000001$	$RID \leq 99999$	$RID \geq 000001$ AND $RID \leq 99999$
Exp Output	Error	Error	OK

Input: RID

Valid:

$RID = [12422, 12520, 12423]$

Invalid:

$RID = [ABC, 123a, a123]$

Test Case #	1	2	3
RID	123a	abc	12422
P. tested	$RID = [123a]$	$RID = [abc]$	$RID = [12422]$
Exp Output	Error	Error	OK

Input: Name

Valid:

Name = [Walid, Sami, Ali]

Invalid:

Name = [Wal@id, sami123]

Test Case #	1	2	3
Name	sami123	Wal@id	Alizain
P. tested	Name = [sami123]	Name = [Wal@id]	Name = [Alizain]
Exp Output	Error	Error	OK

Input: Name

Valid:

Name Length ≥ 5 & Name Length ≤ 20

Invalid:

Name Length < 5

Name Length > 20

Test Case #	1	2	3	4
Name		abc	Walid Ahmed	abcdefghijklmnopqrstuvwxyz
P. tested	Name Length ≥ 5	Name Length ≥ 5	Name Length ≥ 5 & Name Length ≤ 20	Name Length ≤ 20
Exp Output	Error	Error	OK	Error

6.3 Tool to perform testing

- Selenium IDE

Selenium IDE (Integrated Development Environment) is primarily a record/run tool that a test case developer uses to develop Selenium Test cases. Selenium IDE is an easy to use tool from the Selenium Test Suite and can even be used by someone new to developing automated test cases for their web applications.

6.4. Summary

Testing is meant to break a system. We do test to gain confidence in the correctness of a part or a product or to check if there are any errors in a part or a product. We do test because we that we are going to make error.

Chapter 7: Evaluation & Conclusion

Chapter 7:

Evaluation & Conclusion

7.1 Introduction

This chapter is summary of overall project, our achievement in this project. What we have learnt as working in team to build a Software system. The difficulties we faced during the whole project lifecycle and how we faced and solved this problem as a team by doing extensive research on that problem and finding multiple solutions to it and using an optimal solution that fits our need. Furthermore, this chapter also discusses the future ideas that can be added to the project.

7.2 Achievements and Improvements

The major achievement in our eyes is the level of understanding that we as a team developed during the course of development. We as a team have learned many things related to the field of Web based systems and have gathered a lot of knowledge on it. As a team we have looked upon many problems and faced them together as a team and every problem taught us a new lesson academically and professionally. The project has helped us all develop individual skills in problem solving and researching. After the development this recommendation system we are able to understand how these systems work and how to develop such systems. Apart from academic perspective we all have developed skills to work as a team, to communicate and discuss problems and be responsible for what is we are saying.

We have learnt a lot about Web base technologies including PHP, JavaScript, jQuery Ajax, HTML 5, CSS 3, Bootstrap and different other tools and libraries

7.3 Critical Review

This project is a helping tool to students, supervisor and Coordinator that involve in Final Year Project Management System. This system is designed to make life easier for users that are related to Final Year Project

7.4 Future Recommendations

We have some future recommendations for the ProSys to make it more improve.

- Generating PDF file of the require list in the system
- It should have a built-in meeting module that helps students and supervisors to discuss project online via live meeting
- Discussion platform should be added so any student can get answers from any faculty member
- Students should have access to the Project repository because then students know about the past projects

7.5 Summary

ProSys helps students in their Final Year Project. There is no such system already available designed specifically for this purpose in IQRA University. This system can help users of system in many ways and make things easier for them.