# Final Year Project Management System

Members:

Muhammad Hussain (21i-0501)

Zalan Wiqar Shah (21i-0672)

Abdullah Latif (21i-2506)

Section: A

### Problem Statement

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| The problem of | inefficient management and communication in final year projects (FYP) |
| affects | faculty members, project supervisors, and students involved in the FYP process. |
| the impact of which is | prolonged project timelines, increased administrative burden, potential errors in project allocation, and higher costs associated with manual processes and paperwork. |
| a successful solution would be | a comprehensive web-based FYP management system that streamlines project allocation, enhances communication between stakeholders, and reduces administrative overhead. This system should feature user management functionalities catering to different roles such as FYP Committee members, Project Supervisors, Panel Members, and Students. It should facilitate easy registration of students into FYP 1, ensuring finalized group compositions and project details. Additionally, the system should offer distinct user interfaces tailored to the specific needs of each stakeholder group to fasten the work processes of the projects, enabling efficient interaction and collaboration throughout the FYP life cycle. |

**User Stories**

1.

As a member of the FYP Committee

I want to be able to create new users and assign their roles

so that I can manage access to the FYP system effectively.

**Acceptance Criteria:**

Given that I am logged in as a committee member

When I create a new user and specify their roles (e.g student, faculty)

Then their login credentials should be generated and be accessible to them.

2.

As a member of the FYP Committee

I want to be able to view all students registered in FYP I along with their group members, supervisors, and

project details

so that I can oversee the progress of the projects.

**Acceptance Criteria:**

Given that I am logged in as a committee member

When I access the FYP I section

Then I should see a list of all registered students along with their relevant project information.

And I should be able to filter and search for specific student projects or details.

3.

As a member of the FYP Committee

I want to distribute FYP groups to supervisors and monitor their workload

so that each supervisor has a manageable workload.

**Acceptance Criteria:**

Given that I am logged in as a committee member

When I access the Supervisor Allocation section

And I review the workload of supervisors

Then I should see the number of FYPs each supervisor is currently overseeing.

Given that Iam reviewing the workload of supervisors

When a supervisor exceeds 6 FYPs

Then I should be able to reassign some groups to other supervisors to balance the workload.

4.

As a member of the FYP Committee

I want to send notifications to supervisors regarding their assigned FYP groups

so that they can confirm their supervision roles.

**Acceptance Criteria:**

Given that I am logged in as a committee member

When I access the Supervisor Allocation section

And I assign the FYP groups to a supervisor  
Then I should be able to send notifications to them regarding their supervision roles.

And I should receive confirmation from supervisors.

5.

As a member of the FYP Committee

I want to be able to create panels and assign FYP groups to them

so that the panel members know which FYP projects they have to evaluate.

**Acceptance criteria:**

Given that I am logged in as a committee member

When I access the panel allocation section

And create the panel

And assign FYP groups to them

Then the panel information including panel members and the projects assigned to them should be displayed.

Given that Iam creating the panel

When I include faculty member

Then one faculty member should only be in one panel.

As a member of the FYP Committee

I want to assign deadlines of submissions and evaluations

so that work processes of the project are completed efficiently and in time.

**Acceptance criteria:**

Given that I am logged in as a committee member

When I assign deadlines for submissions or evaluations

Then other roles should view them.

7.

As a member of the FYP Committee

I want to generate a Missing Evaluation Report, listing all evaluations that are yet to be completed by faculty members or students

so that I can ensure all assessments are completed.

**Acceptance criteria:**

Given that I am logged in as a committee member

When I access the Missing Evaluation Report Section

And I generate the Report

Then list of all pending evaluations with their type and the individuals involved should be displayed.

8.

As a member of the FYP Committee

I want to generate a report showing which faculty members are supervising which FYPs and their workload count

so that I can manage supervision assignments efficiently.

**Acceptance criteria:**

Given that I am logged in as a committee member

When I access the Supervised FYPs Report Section

And I generate the Report

Then I should see a list of faculty members along with the FYPs they are supervising and the workload count for each faculty member.

9.

As a member of the FYP Committee

I want to generate a Grades Report, showing statistics of student grades and faculty grading patterns

so that I can assess the performance of students and faculty.

**Acceptance criteria:**

Given that I am logged in as a committee member

When I access the Grades Report Section

And I generate the Report

Then I should see statistics for each grade category (e.g., A's, B's, etc.) awarded to students and a list of faculty members who have given the most A's grades.

10.

As a panel member

I want to view the FYPs assigned to my panel, including group members, project descriptions, and other relevant details

so that I can prepare for evaluations.

**Acceptance criteria:**

Given that I am logged in as a panel member

When I access my panel section

Then a list of FYPs assigned to my panel along with the project details and group member information should be displayed.

11.

As a panel member

I want to fill evaluation forms for FYPs of students assigned

so that we can accurately assess the project and provide constructive feedback.

**Acceptance criteria:**

Given that I am logged in as a panel member

When I access the Evaluation Form Section

Then I should be displayed all the FYPs assigned

And fill the evaluation form of the selected FYP.

12.

As a panel member

I want to be able to add reviews and suggestions to the supervisor of the selected project evaluation

so that I can provide additional feedback and insights to enhance the supervision process and support the project's success.

**Acceptance criteria:**

Given that I am logged in as a panel member

When I access the Suggest Supervisor Section

Then I should have the option to provide reviews and suggestions directly to the supervisor of the selected FYP.

13.

As a panel member

I want to be alerted about any missing evaluation forms for projects assigned to my panel

so that I can promptly fill them.

**Acceptance criteria:**

Given that I am logged in as a panel member

When I access the Missing Evaluations Section

Then I should be able to easily identify which evaluation forms are missing and fill them accordingly.

14.

As a project supervisor

I want to view the active FYPs assigned to me, along with their details including group and panel information and grades

so that I can monitor their progress and provide necessary guidance.

**Acceptance criteria:**

Given that I am logged in as a project supervisor

When I access the active FYPs section

Then I should see a list of FYPs assigned to me

And each FYP entry should include relevant project details and current grades.

15.

As a project supervisor

I want to be able to view the comments made by the panel for the FYPs under my supervision

so that I can provide guidance and support to the students accordingly

**Acceptance criteria:**

Given that I am logged in as a project supervisor

When I access the View Comments Section

Then I should be able to view the information regarding the specific FYP

And comments made by the panel.

16.

As a project supervisor

I want to be able to view the deadlines of the FYP related assessments

so that I can provide necessary support and guidance to students as needed to meet the deadlines and maintain the progress of the projects.

**Acceptance criteria:**

Given that I am logged in as a project supervisor

When I access the View Deadlines Section

Then I should be able to view all the deadlines of FYP assessments under my supervision.

17.

As a project supervisor

I want to be notified about any missing reviews for the FYPs I am supervising

so that I can ensure all evaluations are completed.

**Acceptance criteria:**

Given that I am logged in as a project supervisor

When I access the Missing Reviews Section

Then I should be able to easily identify which FYPs require reviews and provide them accordingly.

18.

As a student

I want to be able to view information about my FYP group members, project description, supervisor details, and assigned panels

so that I can collaborate effectively and track my progress.

**Acceptance criteria:**

Given that I am logged in as a student

When I access the View Project Details Section

Then I should be able to view project details including group members, project title/description, supervisor information, and assigned panels.

19.

As a student

I want to access comments and suggestions provided by panel members on my FYP

so that I can improve my work based on feedback.

**Acceptance criteria:**

Given that I am logged in as a student

When I access the View Feedback Section

Then I should be able to see comments and suggestions provided by panel members.

And the feedback should be accessible without revealing the identities of panel members.

20.

As a student

I want to view deadlines for presentations, document submissions, and other FYP-related assessments

so that I can manage my time effectively.

**Acceptance criteria:**

Given that I am logged in as a student

When I access the View Deadlines Section

Then I should be able to view a list of upcoming deadlines for FYP-related assessments.

21.

As a student

I want to view my grades for FYPs once they are finalized so that I can track my performance and progress.

**Acceptance criteria:**

Given that I am logged in as a student

When I access the View Grades Section

Then I should be able to see my grades for FYPs once they are finalized

**Non-functional user stories:**

22.

As a user

I want the FYP Management System to prioritize security measures

So that my personal data and project information remain protected from unauthorized access, maintaining confidentiality and integrity.

**Acceptance Criteria:**

Given the FYP Management System contains sensitive user data and project information.

When users access the system or perform actions that involve data processing.

Then ensure that all data transmissions are encrypted using secure protocols (e.g., HTTPS).

And verify that user authentication mechanisms are implemented, requiring strong passwords and preventing unauthorized access.

And regularly audit and monitor system logs for any suspicious activities or security breaches.

23.

As a user

I want the FYP Management System to be user-friendly

So that I can easily navigate through the system, access resources, and collaborate effectively, enhancing productivity and project outcomes.

**Acceptance Criteria:**

Given the user needs to perform various tasks within the FYP Management System.

When the user interacts with the system interface.

Then ensure that the system interface is intuitive and easy to navigate, with clear labels and instructions.

And verify that essential functionalities such as project submission, communication, and resource access are easily accessible and straightforward to use.

24.

As a user

I want the FYP Management System to have reliable uptime

So that I can access project details and communicate effectively without interruptions, ensuring smooth progress monitoring and support.

**Acceptance Criteria:**

Given the user relies on the FYP Management System for ongoing project management activities.

When the user attempts to access the system.

Then ensure that the system is available and accessible at all times, with minimal downtime.

25.

As a user

I want the FYP Management System to be accessible across different devices and browsers

So that I can manage my FYP-related tasks from anywhere, using my preferred device, enhancing flexibility and convenience.

**Acceptance Criteria:**

Given the user needs to access the FYP Management System from various devices and browsers.

When the user attempts to access the system using different devices and browsers.

Then ensure that the system interface is responsive and compatible with a wide range of devices, including desktops, laptops, tablets, and smartphones.

And verify that all essential functionalities are accessible and perform smoothly across different browsers, including Chrome, Firefox, Safari, and Edge.

**Features List:**

**General Features**

* Separate Interfaces
* Unique Login
* User Friendly
* Data Security
* Responsive

**FYP Committee**

* Create users
* Specify roles
* View students registered, group members, supervisors, project details
* Distribute FYP groups
* Monitor Supervisor workload
* Send Assigned FYP groups notifications
* Create panels
* Assign FYP related assessments deadlines
* Generate Missing Evaluation Report
* Generate FYPs Supervised by Faculty Report
* Generate Grades Report

**Panel Members**

* View Assigned FYPs, group members, project descriptions
* Fill FYP evaluations forms
* Add reviews/suggestions
* Access Missing Evaluations

**Project Supervisor**

* View active assigned FYPs, group and panel information, grades
* View Panel comments
* View FYP related assessments deadlines
* Access Missing Reviews

**Student**

* View group members, project description, supervisor details, and assigned panels
* View Panel comments
* View FYP related assessments deadlines
* View Grades

**Sprint Backlog (for next iteration)**

* Create Users
* View students registered, group members, supervisors, project details
* Distribute FYP groups
* Send Assigned FYP groups notifications
* Monitor Supervisor workload
* Create Panels
* Generate FYPs Supervised by Faculty Report

**Roles:**

Muhammad Hussain: Product Owner

Responsible for creating, maintaining, and prioritizing the Product Backlog, ensuring that it reflects the vision and goals of the project. Defines project requirements, ensuring that they are clear, feasible, and aligned with the project objectives. Making informed decisions about what features to develop and when to release them.

Zalan Wiqar Shah: Scrum Master

Facilitates Scrum events such as Sprint Planning, Daily Stand-ups, Sprint Reviews, and Sprint Retrospectives, ensuring that they are conducted effectively and efficiently.

Fosters a culture of continuous improvement within the Scrum Team, encouraging them to reflect on their processes and practices and make necessary adjustments.

Abdullah Latif: Scrum Team

Responsible to to deliver increments of potentially shippable product at the end of each Sprint. Understands requirements, gathers feedback, and ensures that delivered increments meet expectations. Reflects on their performance during Sprint Retrospectives, identifying areas for improvement and making adjustments to their processes and practices accordingly.