**FYP Progress Recorder**

B.S. (CS/SE) Final Year Project Proposal

Name: Aimun Akbar   
Enrollment No: 2021/Comp/BS(SE)/27012

Name: Irza Hasan  
Enrollment No: 2021/Comp/BS(SE)/27037

Name: Rida Shaikh  
Enrollment No: 2021/Comp/BS(SE)/27067

Name: Zareen Khan  
Enrollment No: 2021/Comp/BS(SE)/27091

Batch: BSSE 2021

Date: April-04- 2024

Department of Computer Science and Software Engineering

Jinnah University for Women

**JINNAH UNIVERSITY FOR WOMEN**

**Department Of Computer Science & Software Engineering**

**FINAL YEAR PROJECT APPROVAL FORM**

The Chairperson Date: 04-04-2024

Computer Science & SE Department, Batch: BSSE 2021

Jinnah University for Women,

Karachi.

Subject:  **Bachelor of Science in Computer Science Final Year Project**

Madam,

We, the below listed students of Final Year BS 2021 class, desire to undertake work on the following project “FYP Progress Recorder” under the supervision of Ms. Soomaiya Hamid.

We request you to kindly grant approval for undertaking the work on the above-cited project. I abide by all terms and conditions mentioned below.

1. I have selected this project on my own.
2. I am sure I can complete this project till December 2024.
3. I am eager to work under the supervision of advisor assigned to this project.
4. I understand that FYP committee can modify the scope of the project as and when required.
5. I know that if do not appear in regular project progress presentations my project will be disqualified.
6. I know that if I do not appear in mid project presentation, whenever it is scheduled, I will not be eligible for final project viva.
7. I fully understand that “***cheating***”**\*** may lead to cancelation of my project.
8. I understand that the decision of the FYP evaluation committee, for all issues, would be final, and no objections will be accepted.
9. I have no objection presenting my project to external or internal examiner assigned by the Head of the Department.
10. I understand that it is my responsibility to update my advisor and FYP committee members with the status of my project and submit reports on time.
11. I am choosing supervisor and group members on my own and that change request will not be allowed.
12. After the approval of the project proposal, if any FYP group decides to change the group members or split the group:

(a) They have to resubmit the proposal and go through the project defense cycle again

(b) Any marks given on the basis of previous project will be considered void.

(c) No special viva would be conducted

1. In case of dispute among students (group members), the project will be cancelled and all students will be marked “**fail**”.

**\*-**Copying code from any resources

-Using off the shelf components without prior permission

-Outsourcing your project

Yours sincerely,

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Name | Roll No. | Signature |
| 01 | Aimun Akbar | 2021/Comp/BS(SE)/27012 |  |
| 02 | Irza Hasan | 2021/Comp/BS(SE)/27037 |  |
| 03 | Rida Shaikh | 2021/Comp/BS(SE)/27067 |  |
| 04 | Zareen Khan | 2021/Comp/BS(SE)/27067 |  |

**TABLE OF CONTENTS**

Project Summary 1

Overview 1

Scope 1

In scope: 1

Out of scope: 2

Deliverables produced: 2

Objectives 2

SDG Goal 2

(SDG 4 goal: Quality Education): 2

Enhance Learning Opportunity 2

Efficient Resource Allocation 2

Project Approach 2

Tools and Technologies 3

Estimated Duration 4

Market and Competition 4

# Project Summary

The current process of final year progress recording is time-consuming and tedious. The project aims is to address specific hectic points within the CSSE department by applying technology to create a robust and adaptable solution. For a FYP Coordinator it’s a hectic job to maintain all the FYP records manually. There are many tasks and documentations have to be managed and schedule presentations and FYP meetings. Supervisor and students collaboration has to be recorded to maintain project progress. In addition to this, it’s also difficult to notify students related to submission deadlines and give warnings to students after the deadline. Therefore, there is a need to maintain these tasks by an automated system. Our proposed solution is to develop an automated system to efficiently manage and document the final year project process within CSSE department. From keeping records of all the presentations and meetings, providing collaborative environment for Supervisors and students for easy discussions, generate notifications and give warnings to students. Our project will have an AI feature of Automated Result Prediction that will predict the grade on the basis of project progress.

The proposed automated system for managing final year projects within the CSSE department aims to facilitate impeccable collaboration between supervisors and students, enhance efficiency through automated notification and AI result prediction and time-saving record-keeping. Eventually improving the overall FYP process.

## Overview

To maintain the manual records of Final Year Projects (FYP) is a hectic job for a FYP Coordinator. There are many tasks and documentations have to be managed and schedule presentations and FYP meetings.

One of the existing solution which had been done 2 years back. There is no feature to maintain and calculate results. It only showed student's data. No feature to give warnings to students.

## Scope

The scope of FYP Progress Recorder encompasses the development and implementation of an automated system for managing and documenting Final Year Projects within the CSSE department at Jinnah University for Women. This includes the following:

* Automating record-keeping, progress tracking, meeting scheduling, supervisor and evaluator feedback for Final Year Projects
* Implementing features such as deadline reminders, pre-designed templates, collaborative environments and AI-based result prediction.
* Enhancing the academic experience within the CSSE department at Jinnah University for Women.

### In scope:

* Designing and implementing software to automate record-keeping, progress tracking, meeting scheduling and supervisors and evaluators feedback for FYPs.
* Create user-friendly interfaces for users (admin, coordinators, supervisors and students) to interact with the system.
* Incorporating features such as deadline reminders, pre-designed templates for presentations, srs and project reports, collaborative environments for discussions and AI based result prediction.
* Achieving improvements in efficiency and error reduction through the automation of FYP process.
* Streamlining administrative tasks, improving accuracy in record-keeping and progress tracking. Enhance communication among students and supervisors.

### Out of scope:

* + - This project does not allow integration with the external systems outside the CSSE department.
    - Providing support for non-project related task are out of scope in this project.
    - Providing training sessions for external users to the usage of the automated system is not within the scope of this project.

### Deliverables produced:

* Automated system for managing and documenting Final Year Projects.
* Deadline reminders, pre-designed templates, virtual collaborative environment and AI-based result prediction features implemented within the system.
* Enhanced academic experience within the CSSE department at Jinnah University for Women.
* This system will deliver a website and mobile application.

## Objectives

The objective of our project is to develop an automated system to efficiently manage and document the final year project process within CSSE department. By addressing specific challenges such as record-keeping, meeting schedule, progress tracking, and result calculation all of this work is done manually. This system aims to enhance the academic experience of students and reduce the workload of FYP Coordinators. Key features include deadline-reminders, providing pre-define templates for presentations and project reports, facilitating virtual collaborative environment for discussions. Additionally, the system will include AI-based automated results prediction based on project progress.

The FYP Progress Recorder project will meet the following objectives:

* Collaborative Environment
* Deadline- reminders
* Automated result prediction

## SDG Goal

# (SDG 4 goal: Quality Education):

# Enhance Learning Opportunity

# By offering a streamlined process for project management, the system contributes to an enriched learning environment.

# Efficient Resource Allocation

# The system ensuring that supervisors can effectively mentor students, and students can access the necessary support and guidance.

# Project Approach

Analysis and Requirements Gathering

* Conducted surveys with FYP coordinators, supervisors, students and evaluators to understand current pain points and requirements.
* Document all requirements. Including record-keeping, progress tracking, scheduling, warnings and results prediction.

System Design

* Design user interfaces for admin, coordinators, supervisors, students and evaluators ensuring intuitive navigation and usability.
* Define database structure for storing student information, project details, supervisors and evaluators feedback and progress tracking data.
* Define algorithms and methodologies for AI-based result prediction.

Development

* Implement the system using define technologies.
* Develop features for automated record-keeping, progress tracking, meeting scheduling, warnings and result prediction.
* Implement virtual collaborative environments for discussions and status board for tracking project progress.

Testing

* Conduct thorough testing of each module and feature to ensure functionality, reliability and security.
* Perform unit testing, integration testing and system testing to identify and address any bugs or issues.

By following this structured approach, we aim to develop a comprehensive and user-friendly automatd system that streamlines the FP process and improve efficiency ithin CSSE department at Jinnah University for Women.

## Tools and Technologies

**Technologies**

For WebApp

* Front-End: Html, CSS, JavaScript
* Backend: Python, PHP

For MobileApp

* Flutter

For Database

* MySQL

**Tools**

* Figma
* VS Code
* Python IDE
* Xampp Server
* Android Studio
* Github

## Estimated Duration

|  |  |  |
| --- | --- | --- |
| **Milestone** | **Tentative Date** | **Deliverable(s) completed** |
| Detailed Proposal & SRS | 1 Month | Document |
| Prototype and Database | 1 Month | Database |
| Web Module:1 (Admin) | 1 Month | Admin Panel |
| Web Module:2 (Coordinator) | 1 Month | Coordinator Panel |
| Web Module:3 (Supervisor) | 1 Month | Supervisor Panel |
| Web Module:4 (Student) | 1 Month | Student Panel |
| Web Module:5 (Evaluator) | 1 Month | Evaluator Panel |
| Mob Feature:1 (Admin) | 1 Month | Admin Panel |
| Mob Feature:2 (Coordinator) | 1 Month | Coordinator Panel |
| Mob Feature:3 (Supervisor) | 1 Month | Supervisor Panel |
| Mob Feature:4 (Students) | 1 Month | Student Panel |
| Mob Feature:5 (Evaluator) | 1 Month | Evaluator Panel |

# Market and Competition

1. What research have you conducted to understand your market, including your industry, regions, customers, competitors?

Research for this project included studying existing FYP management solutions globally, understanding the specific needs of Jinnah University's CSSE department, interviewing students for insights in Jtech. This comprehensive approach ensures the proposed solution is tailored to address market demands and surpass competitors' offerings.

1. Similar Products Available

Competitor 1:

Name, location, website: Schoology

Strengths: Comprehensive Learning Management System

Weaknesses: Limited Customization Features

Competitor 2:

Name, location, website: Moodle

Strengths: Open Source

Weaknesses: Technically Complex

1. What sets your product/project apart from your competitors?

Strengths: We have new features related to the need of user

Weaknesses: No weakness up till now

Current or future opportunities: Anybody can use this system to management their

projects with extra features.

1. How do you or will you promote your business?
   1. Social media
   2. Hard copy Posters and brochures
   3. Events and exhibitions