

National University of Computer & Emerging Sciences
Karachi Campus



STUDENT MANAGEMENT SYSTEM

(FAST FLYERS)

Project Proposal

Software Design and Architecture

Instructor: Ms. Rubab Jaffar

Section: BSE-4B

Group Members:

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Contents

1. Overview..... 3

2. Project Detail..... 3

 2.1 Project Goals..... 3

 2.2 Project Scope.....3

 2.3 Project Team..... 3

 2.4 Existing Work.....4

1. Overview

The aim for developing a student management system is to bring the administrative staff, teachers and students on the same platform. It will provide an efficient and comprehensive platform where administrative staff can offer courses and manually assign courses to teachers and students and do various other tasks. Teachers can register their courses that they want to teach in the following semester, upload and edit student's attendance and marks. Whereas, a student can view their attendance, marks and their grade. They can also register for the courses. The customer for the student management system is **FAST NUCES**. This project is a new product. It will be delivered in 9 weeks.

2. Project Detail

2.1 Project Goals

This project implements modules for course registration, attendance tracking, grade management, fee generation, feedback collection, and transcript generation to meet the functional requirements. Our project provides a user interface for all users to ensure easy to use and efficient navigation. It also enables teachers to update attendance and marks, administrations to manage courses, and teachers. and students. Students can manage their information seamlessly.

The Student Management System will be developed using JAVA programming language and relevant GUI framework such as JAVASwing. Object-Oriented Features of java will be used to develop the modular approach.

Rigorous testing will be conducted to ensure that the system is free of any errors or inconsistencies. High performance of the system will be ensured to provide a smooth user experience.

The project offers chances for team members to learn new skills and techniques and encourage teamwork. Documentation would be created to adhere to guidelines and instructions for maintaining and updating the system.

Usability will be prioritized to ensure that the system is user-friendly for all stakeholders including administrators, teachers, and students. Potability of the system will be considered to enable seamless deployment across different environments.

This project will adhere to educational institution-specific standards and regulations. It will be compatible with existing institutional infrastructure and systems.

2.2 Project Scope

The project will deliver a fully functional student management system encompassing modules for course registration, attendance tracking, grade management, fee generation, feedback collection, and transcript generation. It will not include integration with external systems or advanced analytics features beyond the scope defined in the Software Requirements Specification.

2.3 Project Team

Name	Availability	Comment
Amna Mansoor	4 hours per week.	hours may change in accordance to workload.
Alizah Basit	4 hours per week.	hours may change in accordance to workload.
Hafsa Salman	4 hours per week.	hours may change in accordance to

		workload.
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2.4 Existing Work

Existing student management systems offer similar functionalities such as: course registration, attendance tracking, grade management, fee generation, etc .Our goal is to make the Student Management System more efficient, readable and user friendly through intuitive design and clear presentation of data etc to optimizing the user experience for the administrators, faculty and students.