Software Requirement Specification for *Course Registration portal*

Name	GOKUL KRISHNAN B
Roll no	7376222AD134
Seat no	273
Project ID	18
Problem Statement	Course Registration Portal

Stack:

Front End	HTML,CSS,JS
Backend	PYTHON,DJANGO
Data Base	MYSQL

Phase Notes

Stage 1 Planning and Requirement gathering

Stage 2 Design and Prototyping

Stage 3 DB Designing

Stage 4 Backend Implementation

Stage 5 Testing & Implementation

Course Registration Project Documentation (PYTHON Stack)

1. Introduction

This report's purpose is to present a clear picture of the course enrollment entry. It will explain the rationale behind the framework's components, their interactions, what the framework will accomplish, the conditions under which it should operate, and how the framework will adapt to outside enhancements.

1.1 Problem Statement

Our college currently relies on a decentralized system for course registration, primarily through email communication and Google Forms. This approach leads to several challenges:

- **User Authentication:** Students and administrators should be able to log in securely with their credentials.

- **Course Browsing:** Students should be able to view a list of available courses, including course details such as name, description, instructor, schedule, and availability.

- **Course Registration:** Students should be able to select courses they wish to enroll in and register for them. The system should handle prerequisites, maximum enrollment limits, and course conflicts.

- **Waitlisting:** If a course is full, students should be able to join a waitlist. As spots become available, students on the waitlist should be automatically enrolled.

- **Administrative Tools:** Administrators should have access to tools for managing course offerings, including adding, removing, or modifying courses. They should also be able to monitor enrollment, manage waitlists, and generate reports on course popularity, enrollment trends, etc.

- **Notifications:** The system should send notifications to students confirming their course registrations, notifying them of waitlist changes, or informing them of important deadlines.

1.2 SCOPE OF THE PROJECT:

To create and maintain a system that enables students to enroll in their specialty course, as well as additional courses and individual electives.

To provide understudies with an intuitive interface for selecting and enrolling in courses.

To ensure that the framework is adaptable and capable of handling an infinite number of users.

1.2.1 USERS:

Student: Students will have access to the portal and they may register their choice of courses under their department

Admin:Admins can view the course a student has registered.

1.2.2 USER STORIES:

As a student I would like to browse and select the elective courses and add on courses I need to study.

As an administrator I want to keep track of the courses and add ons students have selected so I can keep the course catalog up to date.

1.2.3 FEATURES:

Student Profile: Stores student information, including their department, major, and academic   advisor.

Course Catalog: A database of all available courses, including department courses, electives, and add-on courses.

Registration System: Allows students to register for courses online during their scheduled access times through form.

1.3 FUNCTIONAL REQUIREMENTS:

User authentication:students and faculty can login using their mail id and password.

Security:Use the authentication process to maintain the security of data the user provides.

Adding course:Students can select their willing courses through the google form provided.

Scalability:Design the system so that it can handle a large number of users and their data.

VISUAL DIAGRAM:

DATABASE

STUDENT → **LOGIN** ← **FACULITY**

STUDENT LOGIN   **FACULITY LOGIN**

ALLOW STUDENT TO VIEW AND REGISTER COURSE ONE'S

ALLOW TO READ THE COURSE

ALLOW THE FACULITY TO VIEW THE NO.OF STUDENT REGISTERED

ALLOW TO ADD OR DELETE THE SPECIFIC COURSE

ALLOW FACULITY CHANGE THE MATERIALS

LOGOUT

END