



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution Affiliated to Anna University - Chennai, Accredited by NAAC with A+ Grade
Sathyamangalam - 638401 Erode District, Tamil Nadu, India

Software Requirement Specification

Name : KAVIN KISHORE S G
Roll No : 7376221CS191
Seat No : 243
Project Id : 03
Project title : Internship and Job offer letter Repository

Technology Stack:

Frontend	HTML, CSS, Javascript
Backend	Python Django
Database	PostgreSQL
API	OpenAPI, REST Ful API

Stages:

Stage 1	Planning and Requirement Gathering
Stage 2	Design and UI/UX Prototyping
Stage 3	Database design and implementation
Stage 4	Backend development
Stage 5	Integration and Testing



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Student Name: PRAJAN S

Seat No:

Project ID: 14

Project title: Mark Entry

PROBLEM STATEMENT:

The manual process of managing marks entry, CO-wise periodical test marks, CO-PO calculation, and result analysis within educational institutions poses significant challenges, including:

- **Inaccuracies in mark entry:** Manual entry of marks leads to errors and inconsistencies in academic assessment data.
- **Time-consuming CO-wise mark calculation:** manually Calculating Course Outcome (CO) wise marks is labor-intensive and prone to errors.
- **Lack of alignment between COs and POs:** Mapping Course Outcomes (COs) to Program Outcomes (POs) for assessment purposes is not streamlined, affecting assessment alignment.
- **Limited insights from result analysis:** Manual result analysis hampers the ability to derive actionable insights from assessment data, hindering academic improvement efforts.

PROJECT FLOW:

Purpose: To develop a centralized system for managing mark entry processes, CO-wise periodical test marks, CO-PO calculation, and result analysis, addressing existing challenges and enhancing efficiency in academic assessment management.

Scope: This system encompasses user authentication, mark entry forms, CO-wise mark calculation, PO mapping, result analysis tools, and real-time dashboards for monitoring academic performance. It integrates with existing academic management systems to streamline assessment processes.

Business Context: The mark entry system aims to improve accuracy and transparency in academic assessment, facilitating better decision-making for faculty and administrators. Primary stakeholders include faculty members, educational coordinators, administrative staff, and the IT department.

Consideration:

- All users must have authenticated access to the academic management system.
- Users should have access to internet-enabled devices for system usage.

Dependencies:

- Integration with the existing academic management system for data synchronization.
- Consistent performance and availability of the IT infrastructure supporting the academic management system.

User Personas:

- **Faculty Member:** A user-friendly interface for entering and managing students' marks is needed.
- **Academic Coordinator:** Requires tools for CO-wise mark calculation, PO mapping, and result analysis.
- **Administrator:** Manages system operations, resolves technical issues, and ensures data integrity.

User Stories:

- As a faculty member, I want to efficiently enter and manage students' marks for periodical tests.
- As an academic coordinator, I need tools to calculate CO-wise marks, map them to POs, and analyze the results.
- As an administrator, I want to ensure the system operates smoothly and resolves any technical issues promptly.

FUNCTIONAL REQUIREMENTS:

- **User Authentication:** Secure login using existing credentials from the academic management system.
- **Mark Entry Forms:** User-friendly forms for entering periodical test marks.
- **CO-wise Mark Calculation:** Automated calculation of CO-wise marks based on entered data.
- **PO Mapping:** Mapping of COs to POs for assessment alignment.
- **Result Analysis Tools:** Tools for analyzing assessment results, including graphical representations.
- **Real-time Dashboards:** Dashboards for monitoring assessment progress and performance.

