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PROJECT ID:4

PROJECT TITLE:Students Ranking Dashboard

Technical Components

Components	Tech Stack
Front End	HTML CSS JS
Back End	Python
Database	MySQL
API	REST Ful API

Implemetation Timeline

Stage 1 – Planning and Requirement gathering

Stage 2 – Design and Prototyping

Stage 3 – DB Designing

Stage 4 – Backend Implementation

Stage 5 – Testing & Implementation

PROJECTSTATEMENT

Lack of actionable insights for students in a ranking system which includes,

Current Situation: Many educational institutions utilize student ranking systems to compare academic performance.

Negative Impacts: Limited understanding of strengths and weaknesses can hinder targeted improvement efforts.

Desired Outcome: Developing a student ranking dashboard that provides actionable insights to empower student success.

PROJECT FLOW

Purpose:

The purpose of this project is to develop a student ranking dashboard that goes beyond simply presenting rankings. It aims to transform a potentially competitive ranking system into a tool for student development and academic success.

Scope:

This project focuses on creating a student ranking dashboard that empowers student growth, but it's important to define its boundaries.

Business context:

This project offers several benefits within the educational institution, going beyond just improving the student experience.

Considerations:

The project relies on accurate and up-to-date student performance data across various metrics

Ensure data is readily available from existing student information systems and that data quality control measures are in place.

Dependencies:

The project likely depends on data extraction capabilities from the existing SIS to populate the dashboard.

Collaboration with the IT team is crucial to ensure smooth data integration.

Users Personas:

Student: Needs an up-to-date schedule to effectively plan activities.

Faculty: Requires the ability to send out schedule updates and notices efficiently.

Admin Staff: Manages system operations, resolves conflicts.

User Stories:

Student: I want to see my overall ranking in the class for each subject to understand my relative position.

Faculty: I want to quickly identify students who are consistently performing above or below the class average.

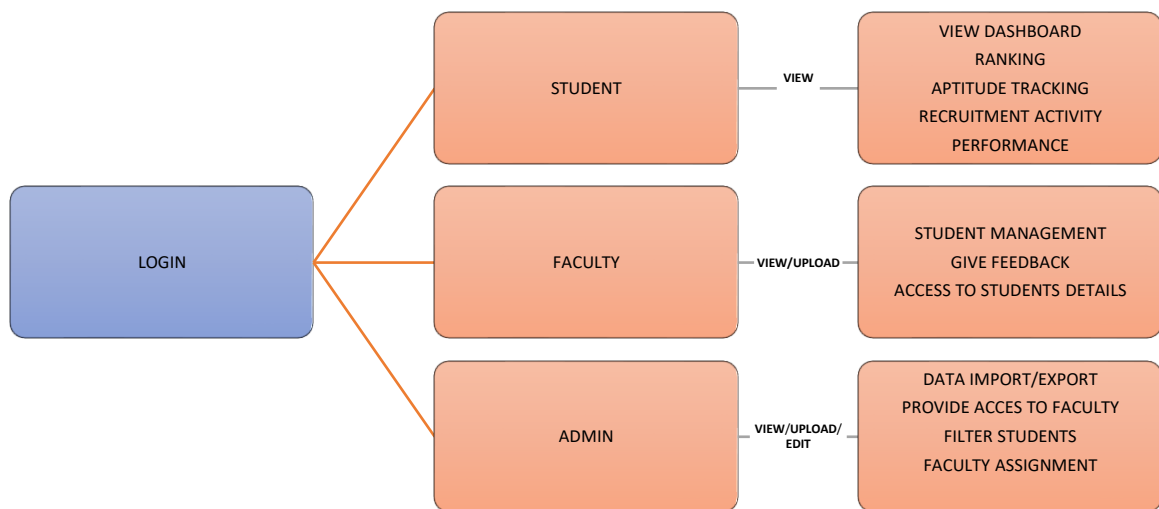## Functional Requirements:

Data Visualization: Visualizations should be interactive, allowing users to filter data by subject, time period, or specific assignment type

User Management: User roles and permissions shall be defined to control access to specific functionalities (e.g., students cannot edit data).

Student Ranking and Performance: The dashboard shall display student rankings within each subject, considering configurable options (overall rank, percentile rank).

Reporting and Export: The system shall allow students to export their performance data in a downloadable format (e.g., CSV, PDF) for personal use.

SYSTEM FLOWCHART:

	STUDENT	VIEW → VIEW DASHBOARD / RANKING / APTITUDE TRACKING / RECRUITMENT ACTIVITY / PERFORMANCE
LOGIN	FACULTY	VIEW/UPLOAD → STUDENT MANAGEMENT / GIVE FEEDBACK / ACCESS TO STUDENTS DETAILS
	ADMIN	VIEW/UPLOAD/EDIT → DATA IMPORT/EXPORT / PROVIDE ACCES TO FACULTY / FILTER STUDENTS / FACULTY ASSIGNMENT

USER INTERFACE:

DATABASE:

STUDENT

- Student_id
- Batch
- Name
- students_email_id
- Department
- Attendance
- Fa percentage
- Recruitment activity

FACULTY

- Faculty_id
- Faculty_email_id
- Student_id
- Group of Students Details

USER

- Username
- Email_id
- Password
- Role (Faculty/student/admin)

DATABASE