Student Name: KABILESH R

Seat No: 127

Project ID: 7

Project title: Project Work Mark Consolidation System

TECHNICAL COMPONENTS:

COMPONENT	TECH STACK
Front End	• HTML • CSS • JS
Back End	• Python • Django(Python Web)
Database	• PostgreSQL • MySQL
API	• OpenAPI • SOAP APIs • RESTFul API

PROBLEM STATEMENT:

Develop a project review system to calculate individual marks according to admin-set constraints, displaying them in student logins. Enable analytics and reporting for comprehensive data analysis.

1. **Flexible Evaluation Criteria:** Allow administrators to define and customize evaluation criteria to suit the unique requirements of each project or course, ensuring relevance and accuracy in assessment.
2. **Adaptive Scoring Mechanism:** Implement a dynamic scoring mechanism that adjusts weights and criteria based on feedback, ensuring fair and consistent evaluations while accommodating changes in project requirements.
3. **Real-time Feedback:** Enable instructors to provide timely feedback to students on their project evaluations, fostering continuous improvement and enhancing the learning experience.
4. **Comprehensive Reporting:** Provide administrators with detailed reports and analytics on project evaluations, including individual and aggregate performance metrics, facilitating informed decision-making and quality assurance efforts.

PROJECT FLOW:

PURPOSE:

The purpose is to automate the process of evaluating project reviews, ensuring adherence to administrative constraints. By displaying calculated marks in individual student logins, transparency and accountability are enhanced, while analytics and reporting capabilities enable data-driven insights for continuous improvement and decision-making.

SCOPE:

The scope includes developing a system to assess project reviews for individuals, considering constraints set by administrators. It involves creating a mechanism to calculate marks and display them within individual student logins. Additionally, the system should offer analytics and reporting features for administrators to analyze evaluation data, facilitating insights for performance enhancement and decision-making.

BUSINESS CONTEXT:

In educational institutions or professional training programs, there's a need for an automated system to assess individual project performances while adhering to specific administrative constraints. This system aims to enhance transparency and accountability by providing students with immediate access to their project marks via their login portals, while also empowering administrators with analytics tools to derive insights for curriculum improvement and performance tracking.

CONSIDERATION:

- Develop a customizable project review scoring system, allowing administrators to set constraints .
- Implement an intuitive dashboard within individual student logins, showcasing calculated project review marks alongside detailed analytics and reporting features .

DEPENDENCIES:

- Develop a system that takes admin-defined criteria (constraints) and calculates individual student project marks based on those criteria.
- Design a student login portal that displays their calculated project review mark.

USER PERSONAS:

STUDENT: View their individual project review marks and understand how they performed.

FACULTY GUIDE: User-friendly interface to upload project submissions and assign reviews.

ADMIN: Administrative dashboard to define review criteria (rubrics) with weighting for different aspects.

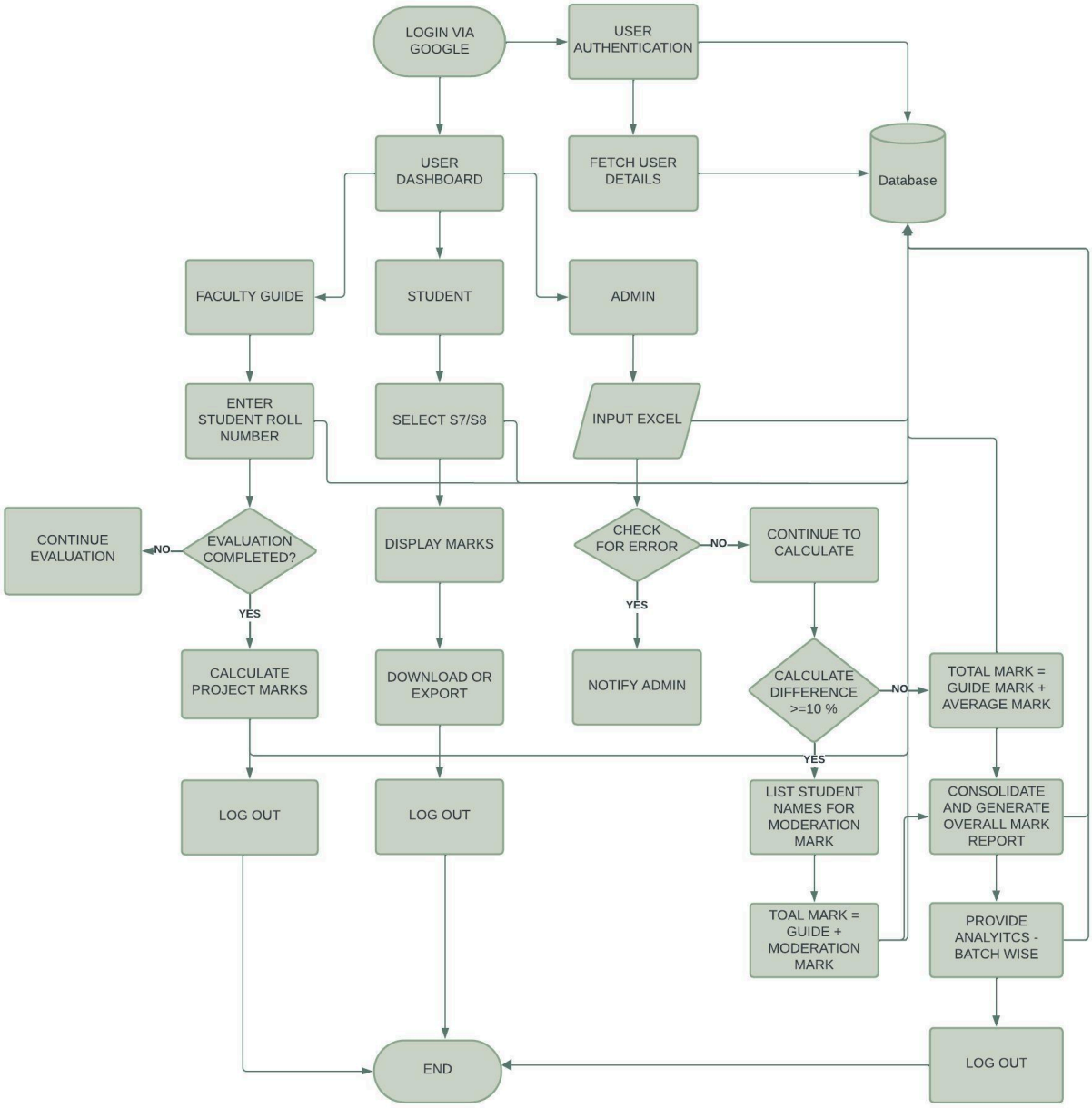
USER STORIES:

- As a student, I want to see my calculated project review mark and detailed feedback within a secure login portal.
- As a faculty member, I want to use a user-friendly system to assign and manage project reviews with pre-defined rubrics.

FUNCTIONAL REQUIREMENTS:

1. **Admin Constraint Configuration:** Enable administrators to define evaluation criteria, weighting, and scoring rubrics tailored to project requirements, ensuring flexibility and alignment with learning objectives.
2. **Individual Student Logins:** Implement secure login functionality for students to access personalized dashboards displaying their project review marks, fostering transparency and accountability in their academic progress.
3. **Automated Calculation Engine:** Develop a robust algorithm to automatically calculate project review marks based on predefined criteria and constraints set by administrators, ensuring accuracy and consistency in evaluation processes.
4. **Analytics and Reporting Module:** Integrate comprehensive analytics and reporting capabilities, including visualizations such as charts and graphs, to enable administrators and students to analyze project review data, identify trends, and make data-driven decisions for continuous improvement.

FLOWCHART:


LOGIN VIA GOOGLE
USER AUTHENTICATION
USER DASHBOARD
FETCH USER DETAILS
Database
FACULTY GUIDE
STUDENT
ADMIN
ENTER STUDENT ROLL NUMBER
SELECT S7/S8
INPUT EXCEL
CONTINUE EVALUATION
NO
EVALUATION COMPLETED?
YES
DISPLAY MARKS
CHECK FOR ERROR
NO
CONTINUE TO CALCULATE
YES
CALCULATE PROJECT MARKS
DOWNLOAD OR EXPORT
NOTIFY ADMIN
CALCULATE DIFFERENCE >=10 %
NO
TOTAL MARK = GUIDE MARK + AVERAGE MARK
YES
LOG OUT
LOG OUT
LIST STUDENT NAMES FOR MODERATION MARK
CONSOLIDATE AND GENERATE OVERALL MARK REPORT
TOAL MARK = GUIDE + MODERATION MARK
PROVIDE ANALYITCS - BATCH WISE
END
LOG OUT