Student Name: SANDHIYA E

Seat No: 177

Project ID: 32

Project title: VALUATION AUTOMATION

Technical Components

Component	Tech Stack
Backend	Express js, node js.
Frontend	Angular.
Database	MangoDB.
API	RESTful services.

PROBLEM STATEMENT:

The current manual management of faculty payment calculations for script evaluations in educational institutions is fraught with several challenges, including:

- **Manual Payment Calculation:** Tedious and error-prone manual calculations.
- **Tracking Evaluation Sessions:** Difficulty in accurately recording each faculty member's role and session details.
- **Script Count Management:** Inaccurate tracking of scripts evaluated leads to discrepancies.
- **Department-Specific Requirements:** Customized solutions needed for variations in payment structures.

PROJECT-FLOW:

PURPOSE:

Develop a centralized valuation automation system to accurately calculate and manage faculty payments based on their roles and the number of scripts evaluated, thereby eliminating manual errors and inefficiencies.

SCOPE:

- **User Authentication:** Integration with institutional accounts.
- **Script Evaluation Form:** Capture details of script evaluations.
- **Payment Calculation Algorithms:** Automated and accurate payment processing.
- **Real-Time Dashboard:** For viewing and managing payment details.
- **Integration:** Seamless integration with existing databases for accurate payment processing.

BUSINESS CONTEXT:

The system aims to enhance the accuracy and efficiency of payment calculations, reduce administrative burden, and improve organizational efficiency. Stakeholders include faculty members, administrative staff, and the financial department.

KEY CONSIDERATIONS:

- All users must have active institutional accounts.
- Regular access to internet-enabled devices is required.

DEPENDENCIES:

- **Institutional Authentication System:** For secure user login.
- **Database and Email Server:** Must be consistently available and perform reliably.

USER PERSONAS:

- **Faculty:** Enter script evaluation details and view payment summaries.
- **Admin Staff:** Manage system operations and resolve discrepancies.
- **Financial Department:** Review and process payments based on automated calculations.

USER STORIES:

- **Faculty Member:** Enter the number of scripts evaluated for accurate recording.
- **Admin Staff Member:** Manage user accounts and system settings.
- **Financial Department Staff Member:** Review automated payment calculations for efficient processing.

FUNCTIONAL REQUIREMENTS:

- **User Authentication:** Secure login using the institutional authentication system.
- **Script Evaluation Form:** Input details for scripts, roles, sessions, and departments.
- **Conflict Resolution:** Detect and adjust discrepancies in evaluations and role assignments.

- **Payment Calculation:** Automated calculations based on predefined rates.
- **Dynamic Dashboard:** Real-time interaction with evaluation details and payment summaries.
- **Data Privacy and Security:** Ensure confidentiality and security of all data.

FLOW CHART