Software Requirement Specification

Valuation Automation

Roll.no	7376221SE143
Name	Samrin S
Seat.no	183
Project ID	32
Project statement	Valuation Automation

Technical Components:

Front End	React
Back End	Node.js with express.js
Database	MongoDB
API	OpenAPI

Problem Statement:

- **Accuracy and Consistency:** Manual evaluation increases the likelihood of human errors and inconsistencies in scoring and tabulating results. This can result in inaccurate grades, affecting students' academic records and fairness in the evaluation process.

- **Record Keeping and Documentation:** Maintaining and retrieving physical records of evaluations can be cumbersome and prone to loss or damage. This complicates administrative tasks such as re-evaluation requests, historical data analysis, and compliance with academic regulations.

- **Distribution of funds:** The manual compensation system can lead to administrative inefficiencies, potential inaccuracies in payments, and challenges in ensuring fair and transparent distribution of funds.

Project-Flow:

Purpose: The purpose of this technology is to improve the accuracy and consistency of academic evaluations by automating the scoring and tabulation process. It aims to reduce human

errors, ensuring fair and reliable grading. Additionally, it digitizes record-keeping, simplifying tasks like re-evaluation requests and compliance with academic regulations, thus enhancing overall efficiency. This technology will address these issues by automating and streamlining the compensation process.

Scope:

- To facilitate the efficient and accurate distribution of funds to evaluators.
- To minimize manual errors in the evaluation process through automation.
- To provide management with a comprehensive view of the faculties involved in paper evaluation.

System Overview:

Users:

- **Faculties:**
  - They have the ability to evaluate student papers, input grades and remarks, and upload evaluation reports.
  - Faculties can also view their evaluation assignments, monitor the status of evaluations, and track their payment status for each evaluation session.

- **Administrators:**
  - Review and approve or reject evaluation submissions (with remarks), manage and distribute evaluation assignments, and handle compensation distribution.
  - They can also generate reports on evaluation activities, faculty involvement, and overall evaluation quality and efficiency.

Functional requirements:

1. **User Authentication and Authorization:** The system shall restrict access to certain functionalities based on user roles (faculty or administrator).

2. **Monitor Evaluation Status:** Faculties shall be able to monitor the status of their evaluations, including pending and completed tasks.

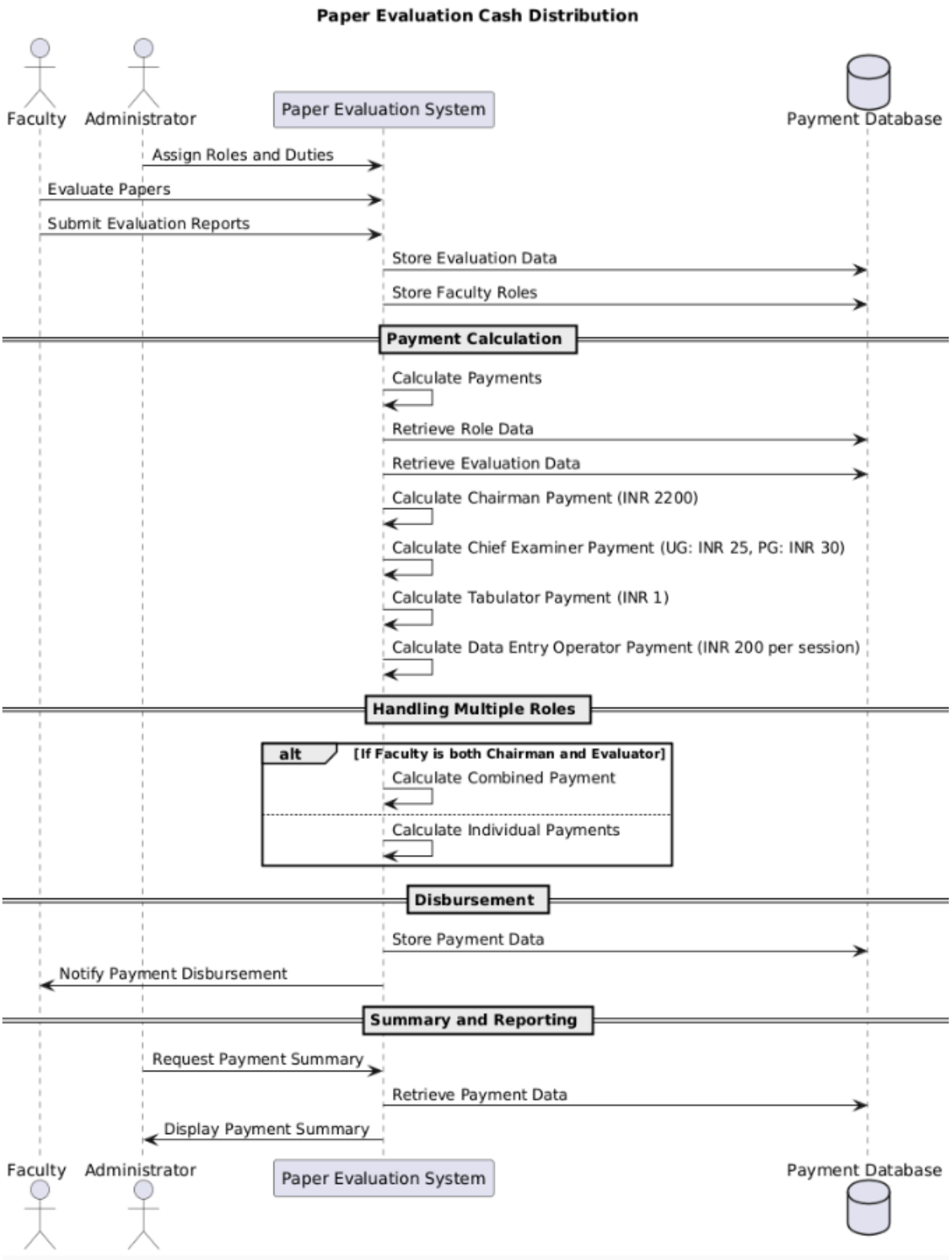
3. **Track Payments:** Faculties shall be able to view their payment status for each evaluation session, including breakdowns for different roles (e.g., Chairman and Evaluator).

4. **Role Assignment:** Administrators shall be able to assign roles and duties to faculties (e.g., Board Chairman, Chief Examiner, Tabulator, Data Entry Operator).

5. **Compensation Management:** Administrators shall be able to manage and distribute payments to faculties based on their roles and completed evaluations.

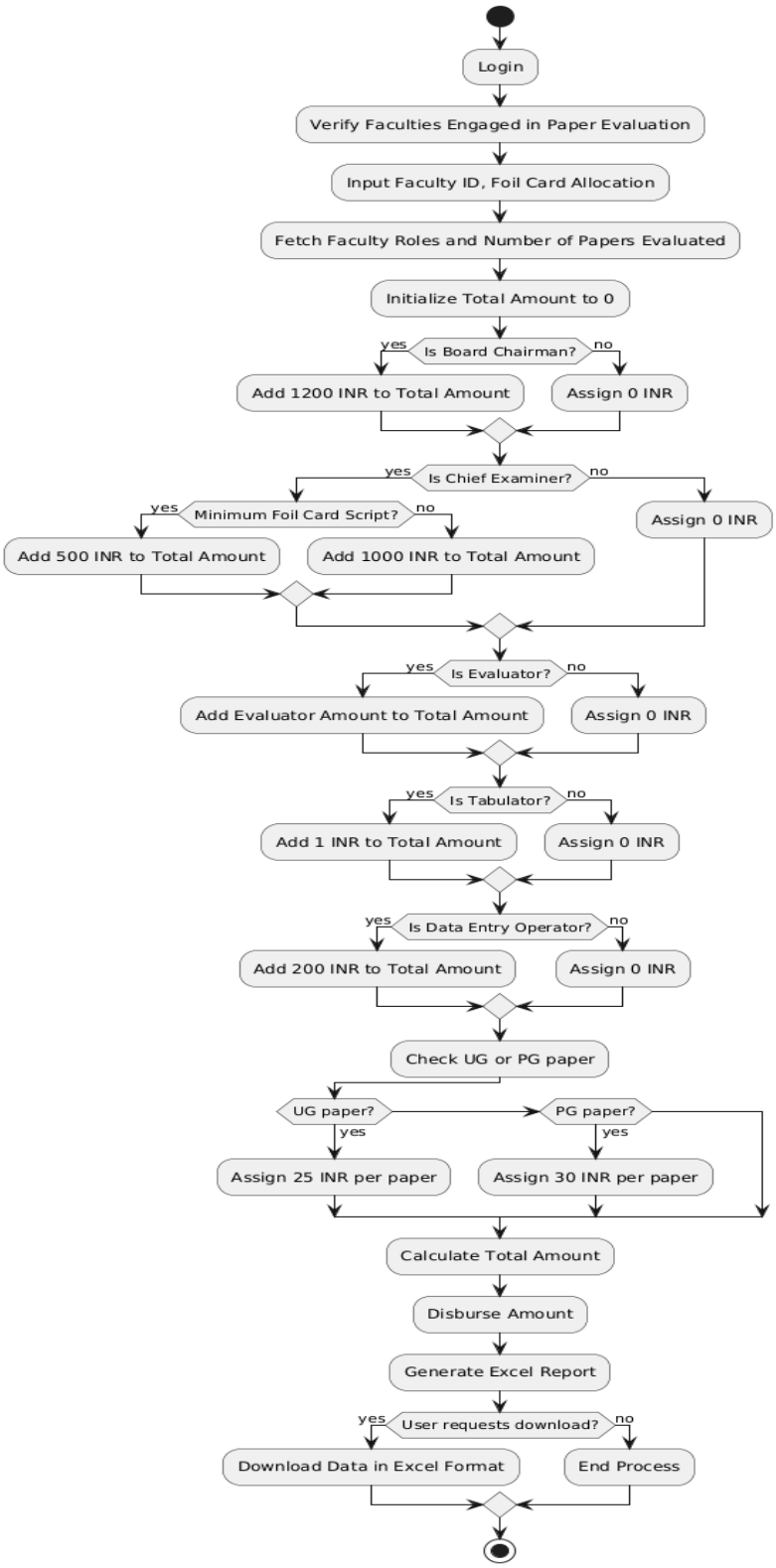
6. **Handling Multiple Roles:** The system shall handle scenarios where a faculty member holds multiple roles and calculate combined payments accordingly.

Features:


Paper Evaluation Cash Distribution
Faculty
Administrator
Paper Evaluation System
Payment Database
Assign Roles and Duties
Evaluate Papers
Submit Evaluation Reports
Store Evaluation Data
Store Faculty Roles
Payment Calculation
Calculate Payments
Retrieve Role Data
Retrieve Evaluation Data
Calculate Chairman Payment (INR 2200)
Calculate Chief Examiner Payment (UG: INR 25, PG: INR 30)
Calculate Tabulator Payment (INR 1)
Calculate Data Entry Operator Payment (INR 200 per session)
Handling Multiple Roles
alt
[If Faculty is both Chairman and Evaluator]
Calculate Combined Payment
Calculate Individual Payments
Disbursement
Store Payment Data
Notify Payment Disbursement
Summary and Reporting
Request Payment Summary
Retrieve Payment Data
Display Payment Summary
Faculty
Administrator
Paper Evaluation System
Payment Database

Flow Chart:

Admin:



Users (Faculties):