

SOFTWARE REQUIREMENT SPECIFICATION FOR APEX AUTOMATION

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PROJECT ID	33
PROBLEM STATEMENT	APEX AUTOMATION

1. INTRODUCTION

1.1. Purpose

The goal of this project aims to streamline and expedite the financial approval processes by leveraging automation. It reduces manual intervention, enhances accuracy, ensures compliance, and improves overall efficiency, resulting in faster decision-making and optimized resource allocation within the financial workflow.

1.2. Scope of the Project

Task Creation: The scope of the project involves developing a system to automate the generation and assignment of tasks within the financial approval process. This includes defining task parameters, setting deadlines, assigning responsibilities, and integrating with existing financial systems. The system will ensure accurate tracking, monitoring, and completion of tasks, enhancing efficiency, accountability, and compliance. It will also provide real-time updates and notifications to all relevant stakeholders.

2. SYSTEM OVERVIEW

The system automates financial approval workflows, integrates with existing financial systems, assigns tasks, tracks progress, and provides real-time updates. It ensures efficiency, accuracy, and compliance, facilitating faster decision-making and optimized resource management.

2.1. Users

1.FACULTY

The system provides faculty with an automated financial approval workflow, integrating task assignment, progress tracking, and real-time updates. Faculty can submit, review, and approve financial requests efficiently, ensuring compliance and transparency while reducing administrative workload.

2.ADMIN

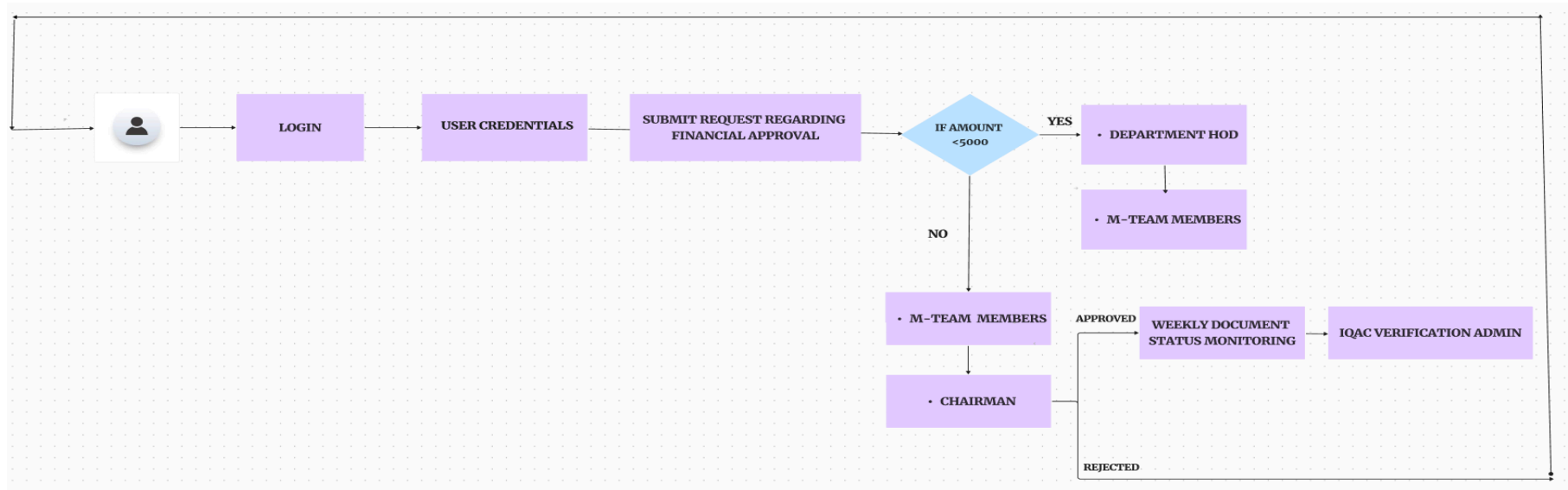
The system provides a comprehensive platform for financial approval workflows, with an admin interface to manage user roles, configure approval processes, monitor task progress, and generate reports. It ensures efficient task assignment, real-time updates, and streamlined approvals, enhancing overall operational efficiency and compliance.

2.2. Features

1. Automated Workflow Management: Streamlines financial approval processes with predefined workflows, reducing manual effort and improving efficiency.
2. Task Assignment and Tracking: Automatically assigns tasks to relevant stakeholders, tracks progress, and ensures timely completion with real-time updates and notifications.
3. Integration with Financial Systems: Seamlessly integrates with existing financial systems to fetch and update data, ensuring accuracy and consistency.

4. Compliance and Audit Trails: Maintains detailed records of all approval actions, providing a transparent and auditable trail to ensure compliance with financial regulations.
5. Customizable Approval Hierarchies: Allows customization of approval hierarchies to match the organizational structure and specific approval requirements.
6. Real-Time Reporting and Analytics: Provides comprehensive reports and analytics on approval processes, helping in decision-making and identifying bottlenecks.
7. User-Friendly Interface: Features an intuitive and easy-to-use interface for all users, including faculty, making the approval process straightforward and efficient.

USER INTERFACE [FACULTY]



FUNCTIONAL REQUIREMENTS

- **Automated Approval Workflow:**

Implement an automated workflow to handle financial approval processes, ensuring requests are routed to the appropriate approvers based on predefined rules and criteria

- **Real-Time Status Tracking:**

Provide real-time tracking of the approval status for each financial request, allowing users to monitor progress and receive notifications at key stages of the process.

- **Role-Based Access Control:**

Enforce role-based access control to ensure that only authorized users can view, submit, or approve financial requests, maintaining confidentiality and security of financial data.

- **Comprehensive Audit Trail:**

Maintain a comprehensive audit trail of all financial approval activities, including submission, approval, rejection, and comments, to ensure transparency and accountability.

- **Integration with Financial Systems:**

Enable seamless integration with existing financial systems and databases to automatically fetch relevant data for approval requests and update financial records upon approval completion.

NON-FUNCTIONAL REQUIREMENTS

- **Scalability:**

Ensure the system can handle an increasing number of financial approval requests without performance degradation, accommodating growth in users and transaction volume.

- **Performance:**

The system should process financial approval requests and deliver responses within a specified time frame, ensuring quick turn around times for users.

- **Security:**

Implement robust security measures to protect sensitive financial data, including encryption, secure user authentication, and regular security audits.

- **Reliability:**

Ensure the system is highly reliable with minimal downtime. Implement redundancy and failover mechanisms to maintain continuous operation.

- **Usability:**

Design the system with a user-friendly interface that is intuitive and easy to navigate, reducing the learning curve for users and improving overall user satisfaction.

STACK:

FRONT END	Angular(Js Framework)
BACK END	Express.js(Web framework for Node.js) Node.js(Javascript runtime environment)
DATABASE	MongoDB(NOSQL Database)
API	REST Ful API / GraphQL APIs