

Software Requirement Specification for Task Portal

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Problem Statement : Template Task

1. Introduction

1.1. Purpose

The purpose of this document is to present a detailed description of the Task Portal. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate, and how the system will react to external stimuli.

1.2. Scope of Project

- This software system will serve as a portal for managing tasks within an organization, enabling admins to assign tasks to faculties and monitor their progress. From an administrative perspective, this system will provide a comprehensive dashboard for task oversight and faculty management.
- Administrators have the ability to create and assign tasks to faculties. Faculties can view their assigned tasks, update task status, and provide feedback.

2. System Overview

2.1. Users

1. Admins:

- Review and manage task assignments.
- Create and assign tasks to faculties.
- Access a comprehensive dashboard for task and faculty management.

2. Faculties:

- View assigned tasks.
- Update task proof and provide feedback.

2.2. Features

1. Login and Registration:

- Admins and faculties can log in with their existing account.

2. Task Management:

- **Admin Dashboard:**

- Admins can view a summary of all tasks and faculty details.
- Admins can open a form to add tasks, entering required fields such as faculty name,dept, task title, description, due date, and assign tasks to specific faculties.
- Admins can view and manage faculty details, including contact information and task assignments.

- **Task Creation:**

- Admins can create tasks by filling out a form with necessary details (task id, task description,email, due date, assigned faculty).
- Tasks are assigned to faculties can view through the portal.

3.Faculty Details:

Admins can view the faculty details through the faculty portal for the detail information about the faculty for creating a task.

4. Faculty Dashboard:

- Faculties can log in to view their assigned tasks.
- Faculties can see detailed descriptions of each task, including title, description, due date, and status.
- Faculties can update the proof of their tasks and provide feedback or comments.

3. System Requirements Specification

3.1. Functional Requirements

User Management

- **Admin Login:**
 - Admins can log in.
 - Admins have access to an analytical dashboard and dedicated features.
- **Faculty Login/Register:**
 - Faculties can log in.
 - Faculties have access to view and manage their assigned tasks.

Task Management

- **Task Creation and Assignment:**
 - Admins can create tasks by filling out a form with appropriate details:
 - Id
 - Faculty name
 - Department
 - Task title
 - Task description
 - Duration
 - Category
 - Create task
 - Tasks are assigned to their id through the portal.
- **Task View and Update:**

- Faculties can view their assigned tasks.
- Faculties can update the status of their tasks and provide feedback.

Task Details

- **Task Form Fields:**

- Task Title
- Task Description
- Duration
- Assigned Faculty

- **Task Status:**

- Faculties can update the current status of their tasks.
- Faculties can provide comments or feedback on their tasks.

Admin Dashboard

- **View Task Summary:**

- Admins can view a list of all tasks.
- Tasks can be filtered by status (verified).

- **View Faculty Details:**

- Admins can view details of each faculty member, including contact information and assigned tasks.

- **Manage Tasks:**

- Admins can approve or reject task updates with suitable remarks.
- Admins can schedule meetings for tasks if needed.

Analytics Dashboard

- **Task Analytics:**

- Admins can view the number of tasks by their status.
- Admins can view the number of tasks assigned to each faculty.
- Admins can view the overall progress of tasks.

3.2. Non-Functional Requirements

Performance

- The system must respond to user actions within 2 seconds to ensure efficient usability.
- The system must handle a concurrent user load of at least 100 users without significant performance degradation.

Security

- User data must be encrypted during transmission and storage.
- Access to sensitive functionalities should be restricted to authorized admin users through secure authentication mechanisms.

Usability

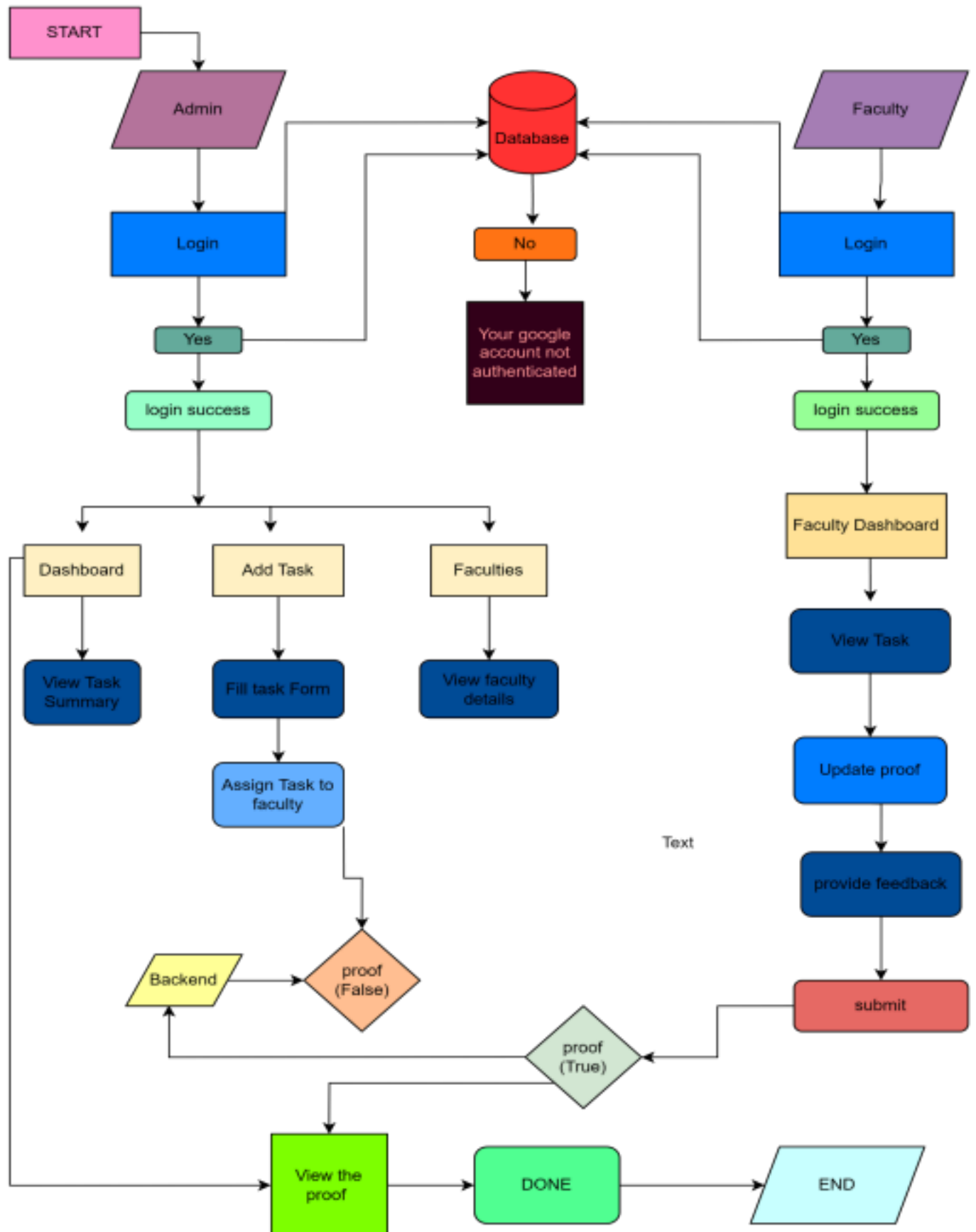
- The user interface should be intuitive and user-friendly.
- Clear and concise error messages should be provided to guide users in case of input errors or system failures.

Reliability

- The system should be available 24/7 with minimal downtime.
- A backup and recovery mechanism should be in place to prevent data loss in case of system failures or crashes.

Scalability

- The system should be designed to accommodate an increasing number of users and data volume over time.
- The system should be scalable to support additional features and functionalities as per future requirements.



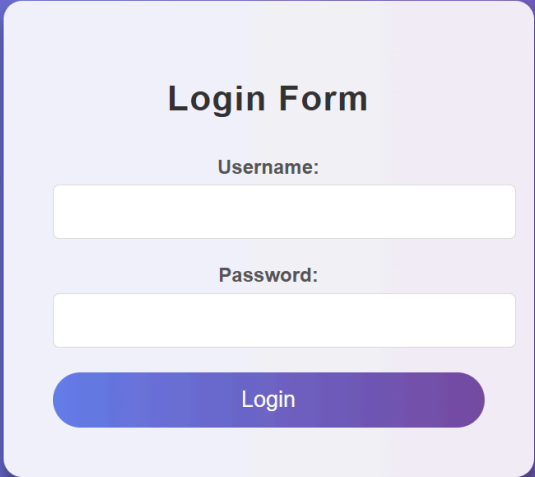
4. Admin's Analytical Dashboard

Stack:

Front End : Angular
Backend : Node.js, Express.js
Database : MongoDB
API : Restful API

Prototype of the Project:

1. Login form



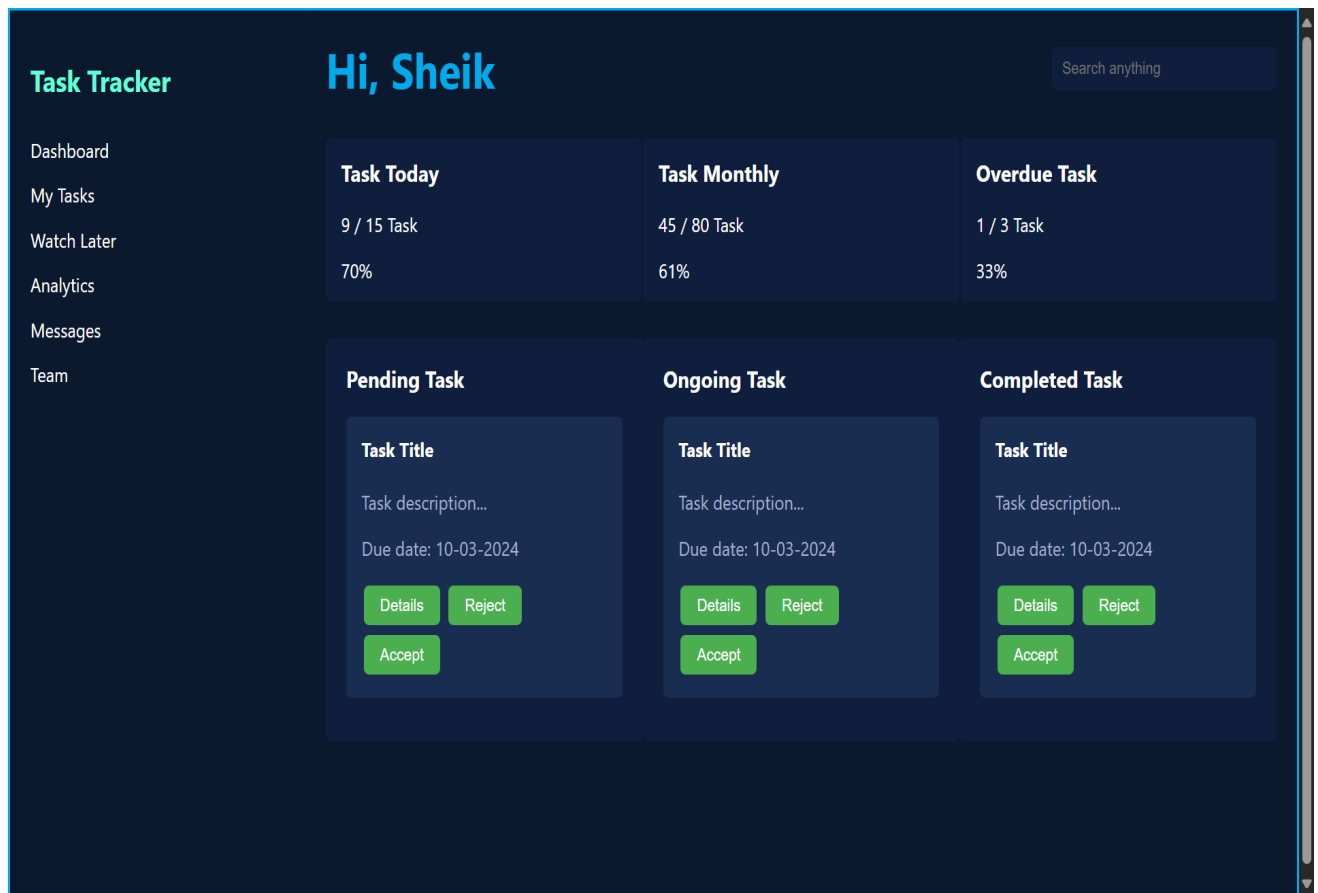
Login Form

Username:

Password:

Login

2.Home page



3.Admin Dashboard

