Software Requirement Specification for Task Creation and Approval between assigner and assignee

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Problem Statement	Task creation and approval between assigner and assignee

1. Introduction

1.1. Purpose:

This document aims to provide a comprehensive overview of the Task Creation and Approval process between the assigner and assignee. It will detail the purpose and features of the system, describe its interfaces, outline the system's functionalities, identify operational constraints, and explain how the system will respond to external inputs.

1.2. Scope of Project:

- **Task Submission and Approval Process:** Users can submit tasks for review and approval by administrators. Administrators have the ability to approve or reject tasks based on predefined criteria.
- **Reward Calculation and Claiming:** Upon approval, assignees can schedule

task completion activities using their assigned Task ID. The system will calculate the elapsed time since approval and determine the reward amount claimable by assignees, with a 30% reward available if the task is completed within 30 days of approval.

2. System Overview:

2.1. Users:

1. Faculty:

- Receive task assignments from admins.
- Submit project documents related to assigned tasks.
- Monitor task status and progress.
- Schedule meetings or appointments related to task completion.
- Review history of interactions related to assigned tasks.

2. Admins:

- Create and assign tasks to faculty.
- Review submitted project documents and provide feedback.
- Monitor task statuses and provide approvals as necessary.
- Schedule meetings or appointments related to task progress.
- Access analytical dashboards for oversight of project tasks.

2.2. Features:

1. Login and registration:

- Students can register or log in to their accounts to access the task management system.

2. Task Assignment and Submission:

- Admins can assign tasks to faculty, specifying project details like title, description, objectives, and necessary attachments.
- Faculty receive assigned tasks and submit project-related

documents upon completion.

3. Task Status and Activity Log:

- Faculty can view the current status of their assigned tasks.
- Activity logs allow faculty to review the history and progress of their tasks.

4. Appointment Scheduling:

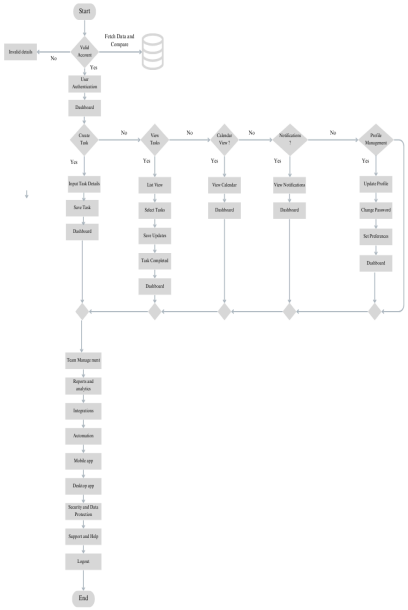
- Faculty with approved tasks can request project reviews after completing 30 days.
- Admins schedule meetings or appointments related to task progress and reviews

5.Admin Dashboard:

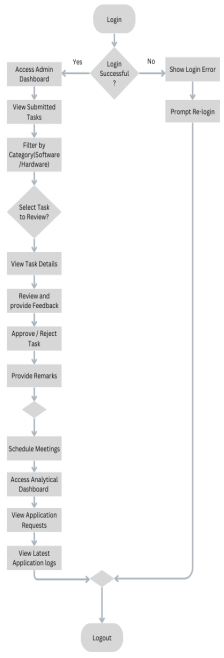
Admins can:

- View all assigned tasks categorized by type (software or hardware).
- Access detailed task information and review submissions.
- Approve or reject task submissions with appropriate feedback.
- Monitor and manage appointment requests.
- Access analytics on task distribution, appointment requests, and recent task activity logs.

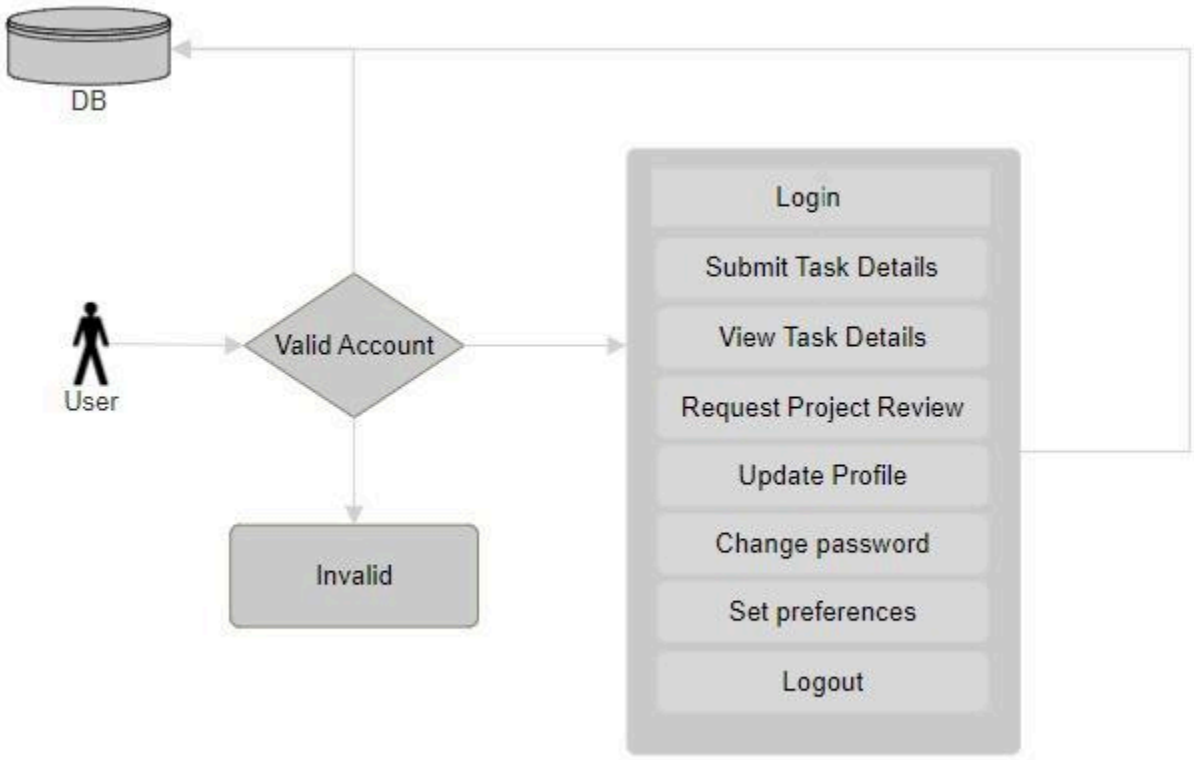
Overview of the application:



Admin Interface :



User Interface:



3. System Requirements Specification:

3.1 Functional Requirements:

User Management:

- **Faculty:**

  Can register and log in to their accounts.

- **Admins:**

  Have access control with an analytical dashboard and dedicated features.

Task Assignment and Submission:

- **Faculty:**
  - Can submit tasks with appropriate details.
  - Task form includes:

a. Title of the Task
b. Description of the Task
c. Number of team members involved (if any)
d. Provisional document attachment

- **Admins:**
  - Can assign tasks to faculty with specific requirements and deadlines

Task Status:

- **Faculty:**
  - Can view the current status of their tasks.
  - If a task is rejected, remarks are shown.
  - Can also see the logs of their tasks.

Appointment Scheduling (After Task Assignment):

- **Faculty:**
  - Can request appointments for task review after completion of specified milestones.

Admin Dashboard:

- **Admins:**
  - Can view a list of all submitted tasks.
  - Tasks can be filtered by category (e.g., software, hardware).
  - Can view details of each task.
  - Can approve or reject tasks with suitable remarks.
  - Can schedule meetings for accepted appointments.

Analytics Dashboard:

- **Admins:**
  - Can view the number of tasks by category.
  - Can view the number of appointment requests based on category.

3.2 Non-Functional Requirements:

Performance:

- The system must respond to user actions within 2 seconds to ensure

efficient usability and must handle a concurrent user load of at least 1000+ 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.
- Should have a backup and recovery mechanism 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.
- Should be scalable to support additional features and functionalities as per future requirements.

Stack:

Front End	• HTML • CSS • JS
Backend	• Python • Django(Python Web)
Data Base	• PostgreSQL • MySQL