# **Software Requirement Specification for Task Portal**

Name	MEGAVARNAN GS
Roll no	7376222CB131
Seat no	-
Project ID	08
Problem Statement	Template Task

# **Technical Components**

Component	Tech Stack
Backend	Spring Boot
Frontend	Angular
Database	MySQL
API	RESTful services

## 1. Introduction

# 1.1. Purpose

This document aims to provide a comprehensive overview of the Task Portal. It will outline the system's objectives, features, interfaces, functionalities, operational constraints, and responses to external inputs.

# 1.2. Scope of Project

- Using this software system, administrators will be able to give projects to faculty members and track their progress, acting as a portal for task management within the organization. From an administrative standpoint, this system will offer a feature-rich dashboard for faculty management and task supervision.
- A Tasks can be created and assigned to faculties by administrators. Teachers have access to their assigned tasks, task status updates, and feedback forms.

# 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:

- o 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:

- o Admins can log in.
- $\circ$  Admins have access to an analytical dashboard and dedicated features.

## • Faculty Login/Register:

- o Faculties can log in.
- o 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.
- $\circ\;$  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:

- o 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:

- o Admins can view the number of tasks by their status.
- Admins can view the number of tasks assigned to each faculty.
- $\circ\;\;$  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

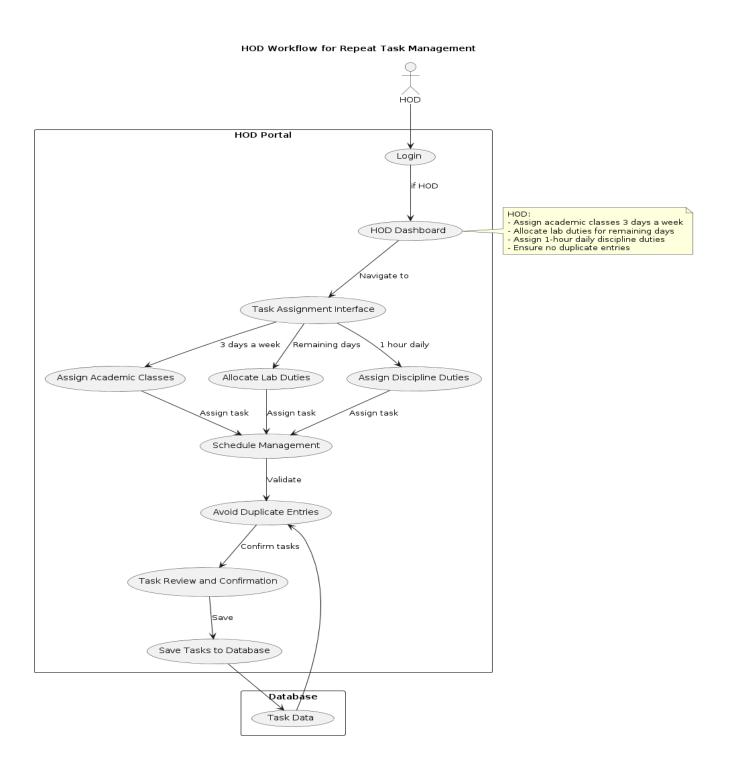
- The system should be available 24/7 with minimal downtime.
- A backup and recovery mechanism should be in place to prevent data loss in case of system failures or crashes.

## **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.

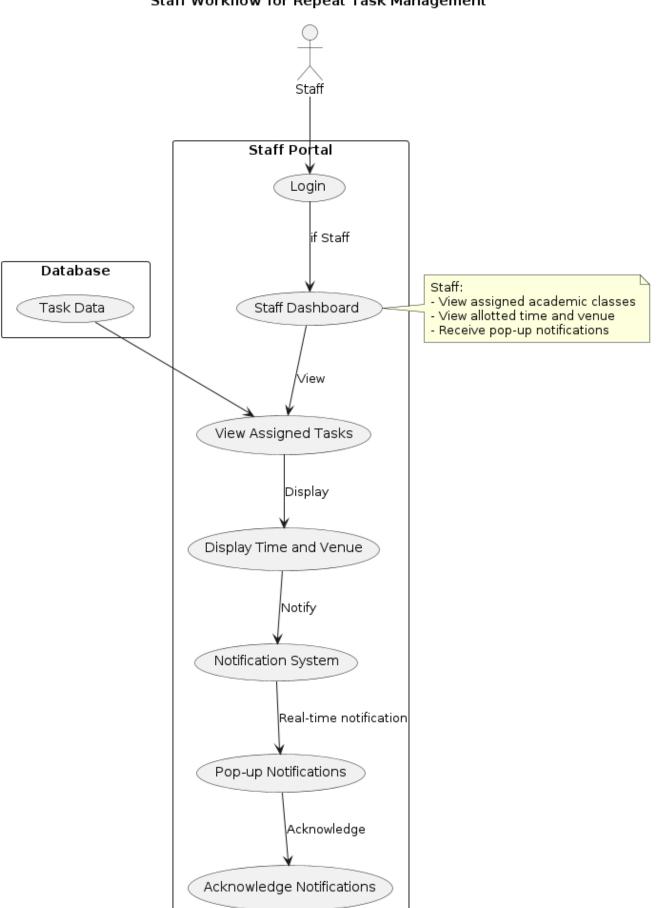
## 5. FLOWCHART:

# 5.1 Admin's Analytical Dashboard:

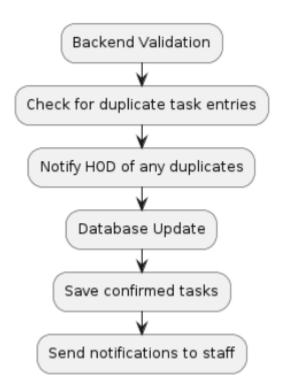


# **5.2 Staff Analytical Dashboard:**

#### Staff Workflow for Repeat Task Management



#### 5.3 workflow:



### 5.4 ER Diagram:

