Task Management

Introduction

Drowning in to-dos? Task management is your lifeline! It's the art of planning, organising, and tracking your tasks to boost productivity, reduce stress, and achieve your goals. From students to professionals, anyone can benefit by prioritising tasks, setting deadlines, and utilising various tools to finally conquer that never-ending list.

Description Of Application

The Task Management application has the following components.

- **Entities**
    - Users
    - Tasks

- **Features**
    - Registration of users
    - Create new tasks
    - Update tasks
    - Delete tasks

Design and Architecture, system operations, and services identified

The Design and Architecture of Idea Log is as follows:

Frontend:

The frontend of the application will be responsible for providing a user-friendly interface to users to log their ideas.

The frontend will communicate with the backend server through RESTful APIs to perform actions like adding notes,updating notes and deleting notes.

The UI is responsive, allowing users to access the application from both desktop and mobile devices.

Backend:

The backend will handle all the business logic, process requests from the frontend and interact with the database.

The backend exposes RESTful APIs to be consumed by the frontend and any other potential clients.

Database:

The application's data is stored in the MongoDB database.

It is used to store the user's details and tasks.

Authentication:

JWT (JSON Web Token) authentication is used for user's authentication. It is a secure and efficient method implemented in my project to verify user identity. It enables users to access resources with a token that contains their identity information, enhancing data protection and authorization while simplifying user management. JWT's self-contained structure and digital signatures make it a trusted choice for securing access to the project's features and data.

Tasks Management:

Implemented a search functionality that allows users to search their tasks.

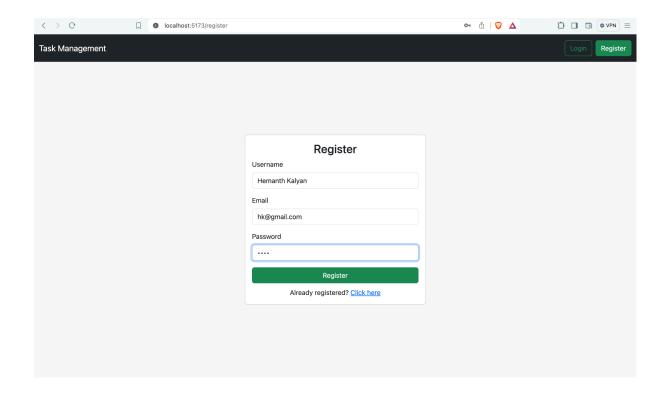Provided an user friendly interface for users to create,update or delete their tasks.

REST API endpoints with URI and HTTP methods

Serial No	Entity	Http Method	URI
1	User	POST	**/api/users/register**
		POST	**/api/users/login**

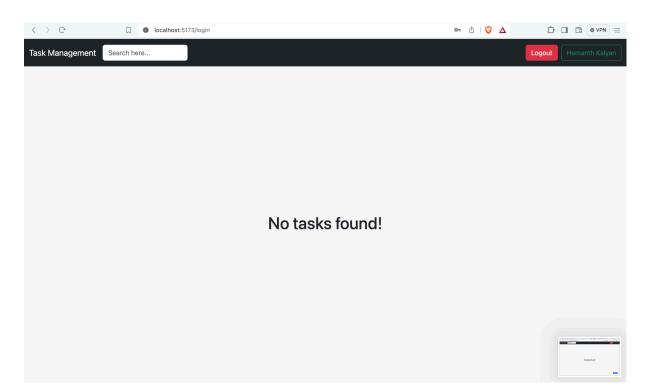| 2	Tasks	POST	/api/tasks
		GET	/api/tasks
		PUT	/api/tasks/update
		DELETE	/api/tasks/delete:id

Task Management Frontend Screenshots
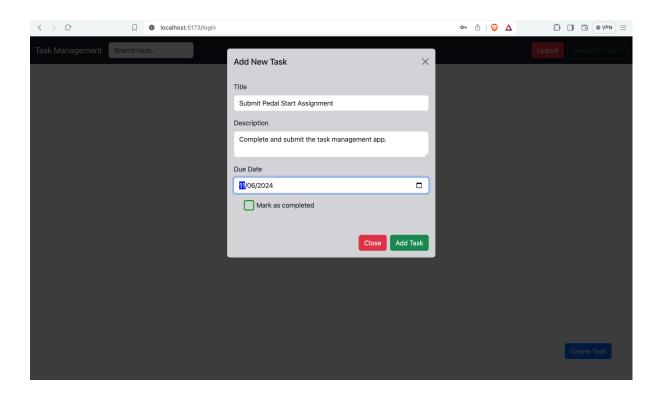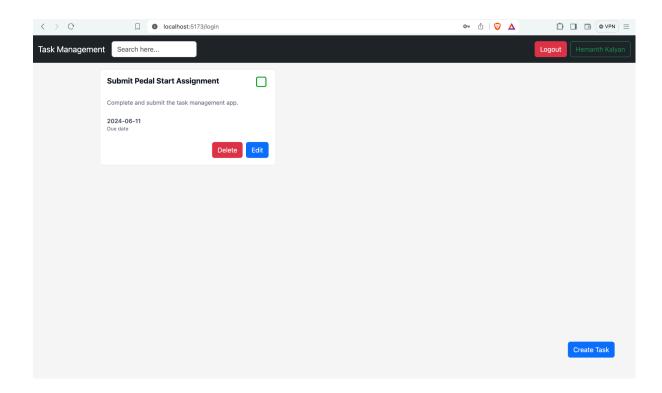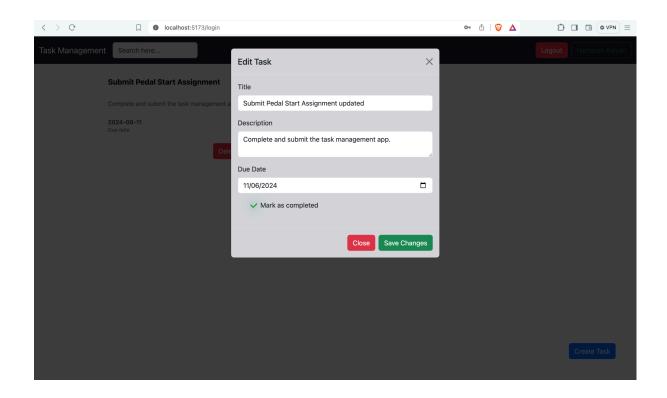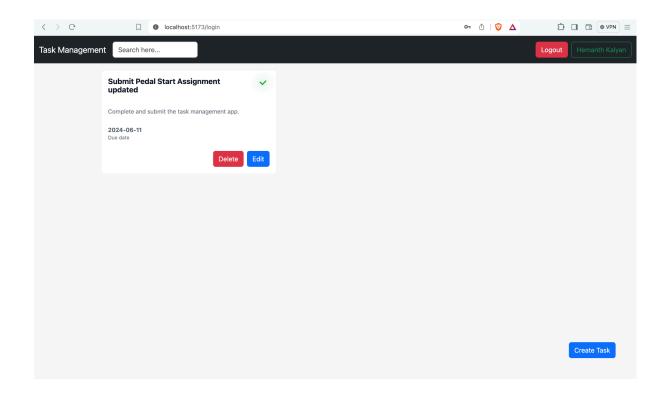
1. **User Registration**

2. User Login

3. Creating Tasks

4. Updating Tasks

5. Deleting the Task