Task Management API Project Documentation

Project Overview

This Task Management API is designed to allow users to manage their tasks effectively with features to create, retrieve, update, and delete tasks. It supports user authentication and provides admin users with extended privileges.

Technologies Used

- **Backend:** Java with Spring Boot
- **Database:** MySQL
- **API Testing:** Postman
- **Version Control:** Git

Features

- **User Authentication:** Secure user registration and login system.
- **CRUD Operations:** Users can create, read, update, and delete tasks.
- **Admin Functions:** Admin users have the ability to access and modify all tasks. (Note: This functionality is planned but not yet implemented.)

Endpoints

- **User Registration:** POST /api/users/register
- **User Login:** POST /api/users/login
- **Create Task:** POST /api/tasks
- **List Tasks:** GET /api/tasks
- **Get Task:** GET /api/tasks/{id}
- **Update Task:** PUT /api/tasks/{id}
- **Delete Task:** DELETE /api/tasks/{id}

Setup and Installation

- Install Java JDK 11 or higher.
- Install MySQL and set up the database using the provided schema.
- Build and run the application using Maven: mvn spring-boot:run.

Running the API

Start the application through your IDE or the command line.

The API is hosted at http://localhost:8080/.

Use Postman or any other API testing tool to interact with the API endpoints.

Submission

- The project is available at https://github.com/hemaannaluru
- All source code is included.

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