Task Management System – Backend Documentation

Title

Project Overview

This project is a backend Task Management System that allows users to securely manage their tasks using JWT authentication. EJS templates are used to test and interact with APIs during development.

Core Features

- User registration and login using JWT
- Create, update, delete, and view tasks
- Task status, priority, and due-date management
- User-specific task access

Authentication

JWT-based authentication is used to secure APIs. Tokens are generated on login and required for all protected routes.

Entities

User: id, name, email, password, createdAt
Task: id, title, description, status, priority, dueDate, userId

API Endpoints

Auth:
POST /api/auth/register
POST /api/auth/login
GET /api/auth/profile

Tasks:
POST /api/tasks
GET /api/tasks
GET /api/tasks/:id
PUT /api/tasks/:id
DELETE /api/tasks/:id

Security & Validation

Passwords are hashed, JWT tokens expire, and all inputs are validated.

Conclusion

This project demonstrates RESTful API design, authentication, authorization, and CRUD operations in a beginner-friendly and professional manner.