

## Task Management API

### Requirements :-

#### Authentication

- **POST /users/register** → Register a new user
- **POST /users/login** → Login with email and password
  - Use **JWT-based authentication**
  - Protect all /tasks routes with JWT

#### Tasks

- **POST /tasks** → Create a new task (title, description, dueDate, status)
- **GET /tasks** → List all tasks for the **logged-in user**
  - Support **pagination and filtering**
    - /tasks?page=2&limit=10&status=done
- **PATCH /tasks/:id** → Update a task
- **DELETE /tasks/:id** → Delete a task

#### Relationships & Roles

- Each task belongs to one user (1:N)
- Add **role-based access control**:
  - **Admin** can view all users' tasks
  - **Normal users** can see only their own

#### Configuration & Logging

- Use **dotenv** for environment configuration (.env)
- Use **winston** (or similar) for logging actions (user login, task creation, errors)

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#### Bonus

- Include **Swagger / OpenAPI** documentation
- Add a **Dockerfile** to run the app easily
- Write **one unit or integration test** for any route (login or task creation)
- Implement **input validation**

## Expected Deliverables

- A public **GitHub repository** containing:
  - Source code
  - README.md explaining how to run the app
  - .env.example with required environment variables
  - Postman collection or Swagger docs (if included)