Task Manager – API Design

Authentication

Login

POST /api/auth/login

- **Body:**
    - email
    - password
- **Response:**
    - JWT token
    - basic user info

Register

POST /api/auth/register

- **Body:**
    - name
    - email
    - password
- **Response:**
    - created user

Users

GET /api/users/{id}

Get user profile.

- **Auth Required:** Yes
- **Response:** user info

Tasks

1. Get All Tasks

GET /api/tasks
Returns all tasks for the authenticated user.

Query Params (Optional):

- `status` (pending, in-progress, done)
- `priority` (low, medium, high)
- `sortBy` (date, priority)

Response:
List of tasks.

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2. Get Single Task

GET /api/tasks/{taskId}
Returns a specific task owned by the user.

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3. Create Task

POST /api/tasks

Body:

- title (required)
- description
- priority (low/medium/high)
- dueDate

Response:

- created task

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4. Update Task

PUT /api/tasks/{taskId}

Body:

- title
- description
- status
- priority
- dueDate

Response:

- updated task

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5. Delete Task

DELETE /api/tasks/{taskId}
Deletes the task if it belongs to the authenticated user.

Error Handling

Common Status Codes:

- `200 OK`
- `201 Created`
- `400 Bad Request`
- `401 Unauthorized`
- `403 Forbidden`
- `404 Not Found`
- `500 Internal Server Error`

Data Models

User

Field	Type
id	int
name	string
email	string

Field	Type
password	string

Task

Field	Type
id	int
userId	int
title	string
description	string
status	enum
priority	enum
dueDate	datetime
createdAt	datetime