

Project Description:

Create a simple **Task Management System** where users can:

1. View a list of tasks.
2. Add a new task.
3. Mark a task as completed.
4. Delete a task.

Requirements:

1. Backend:

- Use **Node.js** with **Express**.
- Use a database (SQLite, MongoDB, or any other) to store tasks.
- Implement the following API endpoints:
 - GET /tasks: Retrieve all tasks.
 - POST /tasks: Add a new task.
 - PUT /tasks/:id: Update a task (e.g., mark it as completed).
 - DELETE /tasks/:id: Delete a task.
- Tasks should have the following fields:
 - id (unique identifier)
 - title (string)
 - description (string, optional)
 - completed (boolean, default: false)
 - created_at (timestamp)

2. Frontend:

- Use **React**.
- Create a user-friendly interface to interact with the backend API.
- Implement the following features:
 - Display a list of tasks.
 - A form to add a new task.
 - Buttons to mark tasks as completed and delete tasks.
- Use any CSS framework (e.g., Bootstrap, Material-UI) or plain CSS for styling.

3. Bonus Points:

- Use **TypeScript**.
 - Add validation (e.g., ensure the title is not empty when adding a task).
 - Implement sorting or filtering options (e.g., show completed tasks separately).
 - Deploy the project on a platform like Vercel, Netlify, or Heroku.
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Submission Guidelines:

1. Push your code to a **public GitHub repository**.
 2. Include a README.md file with the following:
 - Project description.
 - Steps to run the project locally.
 - Any assumptions or decisions made during development.
 3. Share the GitHub repository link with us.
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Evaluation Criteria:

1. **Functionality:**
 - Does the project meet the requirements?
 - Are all endpoints working correctly?
 2. **Code Quality:**
 - Is the code well-organized and readable?
 - Are best practices followed?
 3. **UI/UX:**
 - Is the frontend intuitive and visually appealing?
 4. **Extra Features:**
 - Bonus points for any additional features implemented.
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Timeframe:

You have **2-3 days** to complete this task. Please plan your time accordingly.

We look forward to seeing your work. Good luck!