

Create a To-Do List Application Using MERN Stack

Objective:

Build a simple To-Do List application that allows users to:

- Add tasks
- View tasks
- Update tasks
- Delete tasks
- Mark tasks as completed

Requirements:

1. **Frontend:** Use **React** to create a user-friendly interface for managing tasks.
2. **Backend:** Use **Node.js** and **Express** to build APIs for task operations.
3. **Database:** Use **MongoDB** to store tasks persistently.
4. **State Management:** Use React's **useState** or **Redux** to manage state in the frontend.

Features:

1. **Task Management:**
 - Add a new task with a title and description.
 - View all tasks in a list.
 - Edit task details.
 - Delete tasks.
 - Mark tasks as completed with a checkbox.
2. **API Endpoints:**
 - **POST /tasks:** Add a new task.
 - **GET /tasks:** Retrieve all tasks.
 - **PUT /tasks/:id:** Update a task by ID.
 - **DELETE /tasks/:id:** Delete a task by ID.
3. **Database Schema:** Define a **Task** model with the following fields:
 - **title:** String, required
 - **description:** String, optional
 - **isCompleted:** Boolean, default **false**
 - **createdAt:** Date, default to current date