Project title: "Todo Summary Assistant"

Project Overview

Goal: Build a web application where users can:

- Manage a personal to-do list.
- Summarize all pending to-dos using a Large Language Model (LLM).
- Send the summary to a Slack channel with a click

Tech Stack Suggestion for the basic steps for project

- > Frontend:
- React.js (or Next.js for SSR)
- Tailwind CSS / Bootstrap for styling
- Axios for API calls
- **➤** Backend:
- Node.js + Express (or Flask / Django if you prefer Python)
- REST API (or GraphQL optionally)
- > Database:
- MongoDB (NoSQL) or PostgreSQL (SQL)
- > LLM API:
- OpenAI API (or Anthropic, Cohere, Mistral depending on access)
- > Slack Integration:
- Slack Webhook / Slack Bot API

Feature Breakdow there are 3 major steps in this

- A. To-Do Management:
- Create, Update, Delete, View to-do items.
- Fields: title, description, status (pending/completed), createdAt, dueDate.
- B. Summarize with LLM
- On a button click, gather all pending todos.
- Send them as input to LLM (e.g., OpenAI's gpt-4 or gpt-3.5-turbo) via API.
- Get a concise summary of tasks.

➤ "Summarize the following pending to-do items in a few sentences:\n\n1. Finish project report\n2. Buy groceries\n..."

C. Slack Integration

- Use Slack Incoming Webhooks or Slack Bot API.
- Send summary text to a specified Slack channel.

4. Suggested Folder Structures

- todo-summary-assistant/
- client/ React frontend
- src/
- components/
- pages/
- App.js
- server/ Node backend
- controllers/
- routes/
- models/
- app.js
- .env
- README.m

5. Key Packages for the project

- express, mongoose / pg
- axios
- dotenv
- openai (or respective LLM SDK)
- @slack/webhook or Slack Bolt

6. Extras (Optional but Good for Bonus Points)

- Authentication (JWT or OAuth)
- Filters & sorting for to-dos
- Due date reminders (via email or Slack)
- Save LLM summaries for history

7. Deployment Options

- Frontend: Vercel / Netlify
- Backend + DB: Render / Railway / Fly.io / Heroku

