

■ MERN Stack Beginner Roadmap

Step 1: Setup

- Install Node.js & npm
- npm init → create package.json
- Install dependencies (express, mongoose, cors, nodemon)



Step 2: Backend (Express + MongoDB)

- Create server.js
- Connect MongoDB (mongoose.connect)
- Define Note model (title, content, date)
- Setup routes (GET, POST, PUT, DELETE)
- Test routes with Thunder Client (revise async/await, promises)



Step 3: Frontend (React + Vite)

- Create React app with Vite
- Build components: NoteForm, NoteList, NoteItem
- useState → manage inputs & notes
- useEffect → fetch notes from backend
- Axios → connect frontend & backend



Step 4: Full CRUD App

- Add notes → POST
- Display notes → GET
- Edit notes → PUT
- Delete notes → DELETE
- Update UI in real-time



Step 5: Wrap Up

- Show folder structure best practices
- Add .env file for Mongo URI & PORT
- Optional: push project to GitHub