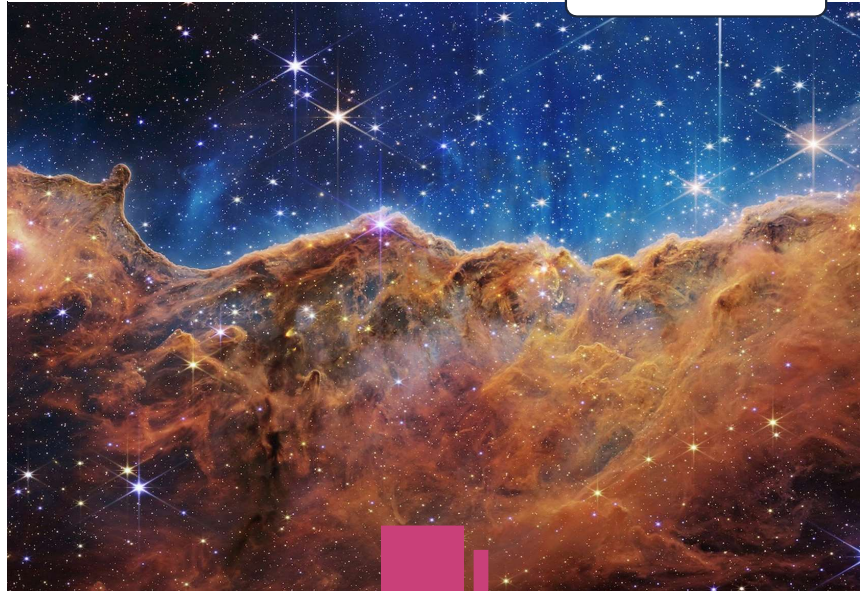


[100xdevs](#) > [0-100](#) > [Week 5 - React](#) >[5.4 | Notes for 5.2](#)[Cohort 2.0 FullStack Open Source](#) /[Download](#)

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Week 5.2

React Project —Todo Application

Up until now, our discussions have primarily revolved around theoretical concepts. In this lecture, Harkirat takes a **practical approach** by guiding us through the hands-on process of **building a to-do application**. We'll be applying the knowledge we've gained so far, specifically focusing on implementing the frontend using **React** and the backend using **Node.js** , **MongoDB** , and **Express** — creating a classic **MERN** stack application.

[Week 3](#)[Week 4](#)[Week 5 - React](#)[5.1 | React Foundations](#)[5.2 | React Project \(Todo app\)
\(Deprecated\)](#)[5.2 | React Project \(Todo app\)
\(Reupload\)](#)[5.3 | Notes for 5.1](#)[5.4 | Notes for 5.2](#)[Week 6](#)[Week 7](#)[Week 8 | Tailwind](#)[Week 9 | TS and hooks](#)[Week 10 - Postgres, Prisma](#)[Week 11](#)[Week 12 | Offline videos](#)[Week 13](#)[Week 14](#)

While there are **no specific notes** provided for this section, a mini guide is outlined below to assist you in navigating through the process of building the application. Therefore, it is strongly **advised to actively follow along** during the lecture for a hands-on learning experience.

React Project —Todo Application

Building a MERN Stack Todo Application with Zod

- 1] Environment Setup
- 2] Frontend Development (React)
- 3] Backend Development (Node.js, Express, MongoDB, Zod)
- 4] Zod Integration
- 5] Connect Frontend to Backend
- 6] Run the Application

Building a MERN Stack Todo Application with Zod

1] Environment Setup

- Install Node.js and npm on your machine.
- Set up a new React project using Vite: **npm create vite@latest** .
- Create a new Node.js project for the backend.

2] Frontend Development (React)

- Design the UI structure for your to-do app.
- Create React components for adding, displaying, and deleting todos.
- Utilize React Hooks (useState, useEffect) for managing the frontend state.
- Set up a clean and user-friendly interface for a seamless user experience.

3] Backend Development (Node.js, Express, MongoDB, Zod)

- Configure a Node.js and Express backend server.
- Integrate MongoDB for data storage.
- Implement Zod for backend data validation to ensure secure and valid inputs.
- Create API endpoints for handling todo operations like add, fetch, and delete.

4] Zod Integration

- Install Zod in your Node.js backend project using npm: `npm install zod`.
- Define schemas using Zod to validate incoming data.
- Integrate Zod validation within your API routes for robust data validation.

5] Connect Frontend to Backend

- Establish a connection between your React frontend and Node.js backend.

- Make API calls from the frontend to interact with the backend endpoints.

6] Run the Application

- Start both the React and Node.js servers.
- Open your to-do app in a browser and verify its functionality.

By following these steps, you'll gain practical insights into building a MERN stack application with Zod integration, ensuring both frontend and backend components work seamlessly.

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@Akshat Kharbanda 2 months ago

thank you for the notes!

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