

# **Week 4: Building Projects with React and Final Review**

## **Day 22-26: Building a React Project**

- **Project:** I worked on building a simple React project (a task tracker or a weather app). I integrated state, props, form handling, and API calls.
- **Challenges:** I ran into challenges with structuring my app, managing state across different components, and handling API responses.

## **Day 27-28: Styling and Final Touches**

- **What I Learned:** I used CSS and styled-components to give my project a polished look. I also added responsive designs for mobile compatibility.
- **Challenges:** Making the UI responsive and ensuring that the layout looked good on all screen sizes was tricky. I used media queries to handle responsiveness.

## **Day 29: Debugging and Optimization**

- **What I Learned:** I focused on debugging my app, checking for errors, and improving performance by memoizing components and using React.memo.
- **Challenges:** Debugging React apps was challenging, but I learned how to use the React Developer Tools to inspect components and their state.

## **Day 30: Final Review and Reflection**

- **What I Learned:** I reviewed everything I learned over the 4 weeks and reflected on how much I've improved. I feel confident in HTML, CSS, JavaScript, and React.
- **Challenges:** The biggest challenge was keeping up with React, but building projects helped me solidify my understanding. I plan to continue practicing and building more apps in the future.