

ONE MONTH TRAINING AT HB INFOTECH WEEK3

Day 11 — React State Management (useState)

- Learned how to manage dynamic data inside components using the useState hook.
- Created simple projects like a counter, toggle button, and input text preview using state updates.
- Understood how React re-renders components whenever state changes.
- Explored rules of hooks and learned why hooks must be used inside functional components only.

Day 12 — React Events, React useEffect & Basic API Fetching

- Practiced attaching event handlers like onClick, onChange, onSubmit, and onKeyUp.
- Built interactive UI features such as form validation, dynamic button actions, and live input display.
- Learned the purpose of the useEffect hook and how it handles side effects like API calls.
- Fetched sample data from a public API using fetch() and displayed it in components.
- Created loading, error, and success UI states for better user feedback.

Day 13 — React Router & Navigation

- Installed and explored react-router-dom to create multi-page navigation within a single-page app.
- Implemented routes using <BrowserRouter>, <Routes>, and <Route> components.
- Created pages like Home, About, Contact, and built links using the <Link> component.
- Practiced navigating between pages without refreshing the browser.

Day 14 — Node.js Introduction & Backend Environment Setup

- Installed Node.js and understood the difference between browser JavaScript and Node runtime.
- Explored the purpose of the package.json file and learned how to create it using npm init.
- Practiced installing packages like nodemon, express, and using npm install
- Learned about CommonJS (require) vs. ES Modules (import) and when each one is used.

Day 15 — Express.js Basics & Server Creation

- Installed Express and created a basic HTTP server with app.get() and app.listen().
- Built simple routes like /, /home, and /about to return JSON or text responses.
- Used middleware such as express.json() to parse incoming JSON request bodies.
- Learned how routing works in Express and created a separate routes folder for cleaner code.
- Understood how to organize backend files and why Express is useful for building REST APIs.