BOSSCODER ACADEMY

React

Noob to Pro

📅 in just 31 Days

#Dec'23 Challenge

With just 1 month remaining in 2023 & 31 days in our hands let's transform you into a React JS expert.

Each day brings new topics, practice questions, and project ideas to solidify your skills.

Let's dive in!

Fundamentals and Components

Day 1-7 React Basics

TOPICS:

JSX, Components, Props, State, Lifecycle Methods, Handling Events

PRACTICE QUESTIONS

1. Explain the difference between a class component and a functional component.

2. How does React's state differ from props?

3. Describe the lifecycle of a React component.

PROJECT IDEAS

1. **To-Do App:** Create a simple to-do application to practice state management.

2. **Weather Widget:** Fetch weather data from an API and display it.

Advanced Concepts

Day 8-14   Diving Deeper

TOPICS:

Hooks, Context API, Higher Order Components, Routing with React Router

PRACTICE QUESTIONS

1. What are React Hooks, and how do they work?

2. Describe the purpose and use of the Context API.

PROJECT IDEAS

1. **Blog Platform:** Implement a simple blog with React Router for navigation.

2. **Shopping Cart:** Utilize Context API for managing a shopping cart.

State Management and APIs

Day 15-21 State Management & APIs

TOPICS:

Redux, Axios for API Calls, Thunk/Saga Middleware

PRACTICE QUESTIONS

1. Explain the flow of data in a Redux application.

2. How do you handle asynchronous actions in Redux?

PROJECT IDEAS

1. **E-commerce Site:** Build a small e-commerce platform with Redux.

2. **Stock Tracker:** Create an app to track stock prices using external APIs.

Real-world Applications

Day 22-28   Practical Applications

TOPICS:

Performance Optimization, Testing with Jest & React Testing Library

PRACTICE QUESTIONS

1. How do you optimize a React application for performance?

2. Describe how to test a React component.

PROJECT IDEAS

1. **Social Media Dashboard:** Incorporate advanced features and optimize performance.

2. **Appointment Scheduler:** Implement a full-fledged scheduling application.

Capstone Project

Day 29-31   Capstone Project

PROJECT

Develop a comprehensive project that incorporates everything learned in the past 28 days. Suggestions include a Personal Portfolio, a Small Business Website, or a Custom Content Management System.

RESOURCES TO LEARN FROM:

🔗 Introduction to React Js + Installation | Complete React Course in Hindi #1

🔗 Full React Course 2020 - Learn Fundamentals, Hooks, Context API, React Router, Custom Hooks

🔗 https://react.dev/learn

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Celebrate your progress

and share your projects with the community. By the end of this challenge, you will have a solid understanding of React JS, practical experience, and a portfolio to show for it.

Happy Coding

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WHY BOSSCODER?

- 👥 **1000+** Alumni placed at Top Product-based companies.

- 📈 More than **136% hike** for every **2 out of 3** working professional.

- 💲 Average package of **24LPA.**

The syllabus is most **up-to-date** and the list of problems provided covers **all important topics.**

Lavanya
∞ Meta

Course is very well **structured** and **streamlined** to crack any MAANG company

Rahul
Google

EXPLORE MORE