

MASTER

# React

In Just 4 Weeks





## **\*Disclaimer\***

Everyone learns uniquely.

What matters is developing the  
problem solving ability to solve new  
problems.

This Doc will help you with the same.



Week 1

# Fundamentals and Components

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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.



Week 2

# Advanced Concepts

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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.



Week 3

# State Management and APIs

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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.



Week 4

# Real-world Applications

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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.



Final Stretch

# Capstone Project

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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:

[!\[\]\(642aa997563f9a325b310230bb5078b7\_img.jpg\) Introduction to React Js + Installation | Complete React Course in Hindi #1](#)

[!\[\]\(2b376d1a92330ab09dad2665d2f89bf5\_img.jpg\) Full React Course 2020 - Learn Fundamentals, Hooks, Context API, React Router, Custom Hooks](#)

[!\[\]\(3cb60d42b10e53f9522bb0b392c1c4cd\_img.jpg\) https://react.dev/learn](https://react.dev/learn)





## 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***





## 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  




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