

MERN Stack Web Development - BST

Instructor: Sanjay Sharma

Welcome to the Full Stack Web Development with MERN Stack course, where we'll take you through an exciting journey of modern web development. This course covers the full spectrum of skills you need to create powerful and dynamic web applications using MongoDB, Express.js, React.js, and Node.js.

Whether you are a beginner looking to start your career in tech or an experienced developer wanting to upgrade your skills, this course offers hands-on projects, real-world examples, and mentor guidance to ensure your success.

Course Modules

Module 1 - Introduction to Web Development & MERN

HTML, CSS, JavaScript fundamentals, MERN overview, environment setup. Topics include:

- Key concepts
- Best practices
- Hands-on project

Module 2 - Frontend: HTML, CSS, JS

Semantic HTML, Flexbox & Grid, responsive design, DOM & events, mini project. Topics include:

- Key concepts
- Best practices
- Hands-on project

Module 3 - React.js

JSX, components, props, state, hooks, React Router, building SPA projects. Topics include:

- Key concepts
- Best practices
- Hands-on project

Module 4 - Node.js & Express

Server fundamentals, REST APIs, middleware, authentication, error handling. Topics include:

- Key concepts
- Best practices
- Hands-on project

Module 5 - MongoDB

NoSQL concepts, Mongoose, CRUD, indexing, data modeling and deployment tips. Topics include:

- Key concepts
- Best practices
- Hands-on project

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Module 6 - Frontend & Backend Integration

Connecting React with Express APIs, auth flows, async handling, optional realtime. Topics include:

- Key concepts
- Best practices
- Hands-on project

Module 7 - State Management (Redux)

Redux core concepts, store, reducers, async actions with Thunk, integrating with React. Topics include:

- Key concepts
- Best practices
- Hands-on project

Module 8 - Final Project & Portfolio

Build a full MERN app, testing, deployment (Vercel/Netlify/Render), portfolio prep. Topics include:

- Key concepts
- Best practices
- Hands-on project

By the end of this course, you will have built multiple projects, mastered the MERN stack, and be ready to take on real-world web development challenges with confidence.