

MERN Stack Web Development Course Syllabus

Introduction to Web Development and MERN Stack

- Overview of web development
- Introduction to the MERN stack
- Setting up the development environment (Node.js, npm, MongoDB)
- Basics of Git and version control

MongoDB - NoSQL Database

- Introduction to MongoDB
- CRUD operations (Create, Read, Update, Delete)
- Data modeling and schema design
- Indexing and querying in MongoDB

Express.js - Backend Framework

- Introduction to Express.js
- · Routing and middleware
- RESTful API design principles
- Express is and MongoDB integration

React - Frontend Library

- Introduction to React.js
- Components, props, and state
- React Router for navigation
- State management and hooks in React

Node.js - Server-side JavaScript

- Introduction to Node.js
- Asynchronous programming with callbacks and Promises
- Building RESTful APIs with Node.js and Express.js
- Connecting React with Node.js backend

Full-Stack Application Development

- Integrating MongoDB, Express.js, Node.js, and React
- User authentication and authorization
- Error handling and debugging in a full-stack environment
- Deploying a MERN stack application to a cloud platform

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