

MEAN stack development

Modules

Module 1: Introduction to MEAN-Stack Web Development

Get introduced to the world of MEAN-stack development and set up your development environment. Learn about RESTful APIs, client-server architecture, and the basics of MEAN-stack development.

Module 2: MongoDB - NoSQL Database

Explore the power of MongoDB and NoSQL databases. Set up MongoDB, perform basic CRUD operations, and understand data modeling and relationship creation between collections.

Module 3: Express.js - Server-Side Framework

Dive into Express.js, a popular server-side framework built with JavaScript. Build RESTful APIs, handle routes, requests, and responses, and gain proficiency in server-side JavaScript.

Module 4: Angular - Front-End Framework

Discover Angular, a powerful front-end framework based on TypeScript. Learn to create components, templates, and data binding in Angular. Implement forms, validation, and routing for interactive web applications.

Module 5: Node.js - Server-Side JavaScript

Understand the role of Node.js in full-stack development. Manage packages and dependencies using npm and build server-side applications using JavaScript with Node.js.

Module 6: Integrating the MEAN Stack

Bring together MongoDB, Express.js, Angular, and Node.js to build a complete web application. Develop a project with CRUD functionality and learn to handle authentication and authorization in the MEAN stack.

Module 7: Advanced MEAN Stack Concepts

Master advanced concepts of the MEAN stack. Explore data relationships and querying in MongoDB, implement real-time features using WebSockets and Socket.io, and optimize performance and security in your MEAN stack applications.

Module 8: Error Handling

Learn effective techniques for testing, debugging, and finding errors in your MEAN stack applications. Enhance the quality and reliability of your code.

Module 9: Final Project: Web Application

Apply your knowledge and skills to develop an individual full-stack web development project. Showcase your creativity and technical implementation in your final project.

Module 10: Final Presentation and Documentation

Present your project to demonstrate your understanding and expertise. Submit comprehensive documentation about your final project, including technical details and project insights.