MEAN Full Stack Development

12 Weeks • Beginner to Advanced

Course Overview

A practical MEAN Full Stack Development program covering MongoDB, Express.js, Angular, Node.js, frontend development, backend APIs, databases, authentication, and real-world full stack web development.

Course Module Structure

Web Development Fundamentals

HTML5 • Semantic elements • Forms • Tables • CSS fundamentals • Selectors • Box model • Flexbox • Grid • Responsive design

JavaScript Programming

JavaScript fundamentals • Variables • Data types • Functions • Arrays • Objects • DOM manipulation • Events • ES6 concepts • Async programming

TypeScript & Angular Fundamentals

TypeScript basics • Types • Interfaces • Classes • Modules • Angular introduction • Components • Templates • Data binding • Directives

Angular Application Development

Services • Dependency injection • Routing • Forms • Reactive forms • Pipes • Guards • HTTP client • Component communication • API integration

Node.js & Express.js

Node.js introduction • npm • Modules • File system • Express.js • Routing • Middleware • Controllers • REST APIs • Error handling

MongoDB & Database

MongoDB fundamentals • Documents • Collections • CRUD operations • Queries • Filtering • Sorting • Aggregation • Indexing • Mongoose

Authentication & Full Stack Integration

JWT authentication • Registration • Login • Password handling • Authorization • Protected routes • Angular–Express integration • API security

Full Stack Project & Deployment

Project architecture • Frontend-backend integration • Environment variables • Git & GitHub • Production build • Deployment basics • Testing • Real-world project