

MEAN STACK DEVELOPMENT COURSE - 6 MONTHS

✓ **MODULE 1: INTRODUCTION TO MEAN STACK**

- ✓ Overview of MEAN architecture
- ✓ How MEAN stack works together
- ✓ Advantages of MEAN stack over other stacks
- ✓ Setting up the development environment

MODULE 2: HTML, CSS S JAVASCRIPT FUNDAMENTALS

- ✓ HTML5 structure C semantic tags
- ✓ CSS3 styling, layouts C responsiveness
- ✓ JavaScript basics: variables, data types, operators
- ✓ DOM manipulation C events
- ✓ ES6+ features (let/const, arrow functions, spread/rest, destructuring)

MODULE 3: NODE.JS FUNDAMENTALS

- ✓ Introduction to Node.js C event-driven architecture
- ✓ Installing C managing Node.js with npm
- ✓ Creating a basic Node.js server
- ✓ File system C path modules
- ✓ Handling asynchronous operations with callbacks, promises, async/await

MODULE 4: EXPRESS.JS FOR BACKEND DEVELOPMENT

- ✓ Introduction to Express.js framework
- ✓ Setting up routes (GET, POST, PUT, DELETE)
- ✓ Middleware functions
- ✓ Handling forms C JSON data
- ✓ Error handling in Express
- ✓ RESTful API development

MODULE 5: MONGODB S MONGOOSE

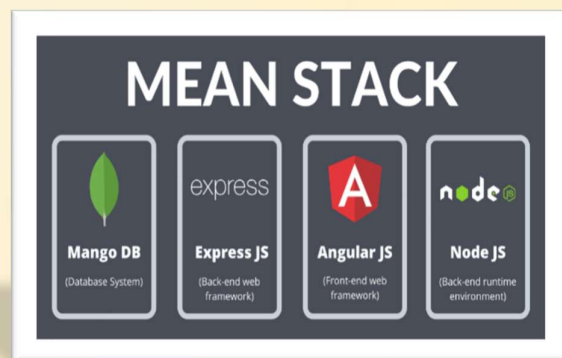
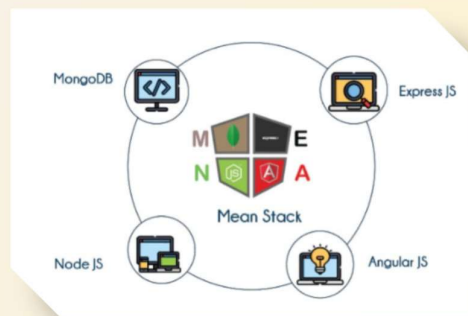
- ✓ Introduction to NoSQL databases
- ✓ MongoDB CRUD operations
- ✓ Data modeling C schema design
- ✓ Using Mongoose for schema validation
- ✓ Aggregation framework basics
- ✓ Indexing C performance optimization

MODULE 6: ANGULAR FUNDAMENTALS

- ✓ Angular architecture C CLI setup
- ✓ Components, templates, and data binding
- ✓ Directives C pipes
- ✓ Services C dependency injection
- ✓ Forms (template-driven C reactive)
- ✓ HTTP Client for API integration
- ✓ Routing C navigation in Angular

MODULE 7: CONNECTING FRONTEND S BACKEND

- ✓ Consuming REST APIs in Angular
- ✓ JWT authentication C authorization
- ✓ Protecting routes in Angular
- ✓ CORS and security best practices
- ✓ File upload C download functionality



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GUARNTTEE**

**EXPERIENCED
FACULTY**

WEEKLY TEST

**PROJECT &
ASSIGNMENT
WORK**

MODULE 8: AUTHENTICATION & SECURITY

- ✓ User registration & login system
- ✓ Password hashing with bcrypt
- ✓ JSON Web Tokens (JWT) authentication
- ✓ Role-based access control
- ✓ Securing APIs with middleware

MODULE 9: REAL-TIME COMMUNICATION

- ✓ Introduction to WebSockets & Socket.io
- ✓ Implementing real-time chat application
- ✓ Notifications & live updates

MODULE 10: DEPLOYMENT & DEVOPS BASICS

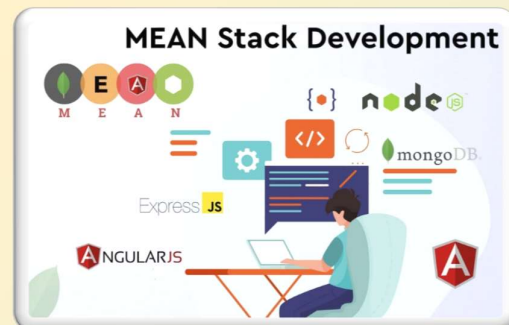
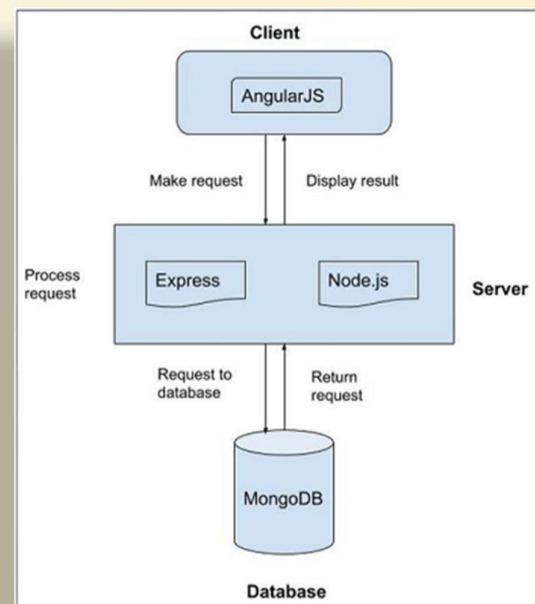
- ✓ Deploying MEAN applications on Heroku / Render / AWS
- ✓ Using environment variables
- ✓ MongoDB Atlas for cloud database
- ✓ Version control with Git & GitHub

MODULE 11: CAPSTONE PROJECTS

- ✓ E-commerce platform with user authentication
- ✓ Blog CMS with CRUD & image upload
- ✓ Real-time chat/messaging app
- ✓ Task management dashboard

MODULE 12: CAREER PREPARATION

- ✓ Resume building for full-stack roles
- ✓ GitHub portfolio setup
- ✓ Mock technical interviews
- ✓ Freelancing & remote work strategies



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