

Full Stack Web Development Course

(12 Months)

MODULE 1: INTRODUCTION TO WEB DEVELOPMENT

- ✓ Understanding web technologies (Frontend, Backend, Database)
- ✓ How the web works (Client, Server, HTTP, DNS)
- ✓ Development tools (VS Code, Git, Browser DevTools)
- ✓ Setting up your development environment

MODULE 2: HTML – STRUCTURE OF WEB PAGES

- ✓ HTML document structure C semantic tags
- ✓ Headings, paragraphs, lists, links, and images
- ✓ Forms C form validation
- ✓ Tables, iframes, audio, and video
- ✓ Best practices for accessibility C SEO-friendly HTML

MODULE 3: CSS – STYLING WEB PAGES

- ✓ Inline, internal, and external CSS
- ✓ Colors, backgrounds, borders, and shadows
- ✓ CSS box model, padding, margin
- ✓ Flexbox C Grid layouts
- ✓ CSS animations C transitions
- ✓ Responsive design with media queries
- ✓ Introduction to CSS frameworks (Bootstrap/Tailwind CSS)

MODULE 4: JAVASCRIPT – MAKING WEB PAGES INTERACTIVE

- ✓ Variables, data types, and operators
- ✓ Functions C scope
- ✓ Conditional statements C loops
- ✓ DOM manipulation C event handling
- ✓ ES6+ features (arrow functions, template literals, destructuring)
- ✓ Fetch API C AJAX basics
- ✓ JSON data handling

MODULE 5: VERSION CONTROL WITH GIT S GITHUB

- ✓ Installing Git C basic commands
- ✓ Creating C managing repositories
- ✓ Branching, merging, and pull requests
- ✓ Hosting static websites on GitHub Pages

MODULE 6: FRONTEND FRAMEWORK – REACT.JS

(OPTIONAL: ANGULAR OR VUE)

- ✓ React components C JSX
- ✓ Props C state management
- ✓ Event handling C forms in React
- ✓ Conditional rendering C lists
- ✓ React Router for navigation
- ✓ Fetching APIs in React
- ✓ Introduction to React Hooks

MODULE 7: BACKEND DEVELOPMENT WITH NODE.JS EXPRESS

- ✓ Introduction to Node.js C npm
- ✓ Creating a basic server with Express.js



- ✓ Routing (GET, POST, PUT, DELETE)
- ✓ Middleware functions
- ✓ Handling forms & JSON data
- ✓ RESTful API design

MODULE 8: DATABASES

- ✓ Introduction to databases & types (SQL vs NoSQL)
- ✓ MongoDB basics & CRUD operations
- ✓ Mongoose for schema modeling
- ✓ SQL basics (tables, queries, joins) – optional overview

MODULE 9: AUTHENTICATION & SECURITY

- ✓ User registration & login system
- ✓ Password hashing (bcrypt)
- ✓ JSON Web Token (JWT) authentication
- ✓ Securing API endpoints
- ✓ CORS & HTTPS basics

MODULE 10: DEPLOYMENT

- ✓ Deploying frontend on Netlify / Vercel
- ✓ Deploying backend on Render / Heroku
- ✓ Connecting to MongoDB Atlas
- ✓ Managing environment variables

MODULE 11: CAPSTONE PROJECTS

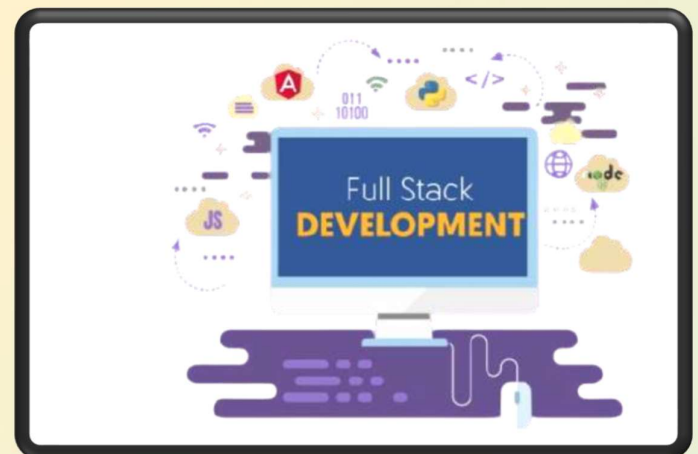
- ✓ Personal portfolio website
- ✓ Blog application with CRUD
- ✓ E-commerce product catalog
- ✓ Real-time chat application

MODULE 12: CAREER PREPARATION

- ✓ Resume building for developer jobs
- ✓ Creating a GitHub project portfolio
- ✓ Mock interviews & coding challenges
- ✓ Freelancing platforms overview



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JOB ORIENTED COURSES

**100% JOB
GUARANTEE**

**EXPERIENCED
FACULTY**

WEEKLY TEST

**PROJECT &
ASSIGNMENT
WORK**