



FULL STACK WEB DEVELOPMENT COURSE

Prepared By (CTO) SYNTHOQUEST

45 Days Duration

Duration: 45 days × 2 hrs/day = 90 hrs

Goal: Equip learners with the skills to develop front-end, back-end, and database-driven web applications using modern technologies.

Core Domains

1. Introduction & Web Basics (5%)

- Internet, web protocols (HTTP/HTTPS)
- Client-server architecture
- Overview of full stack development

2. HTML5 & CSS3 (10%)

- Semantic HTML, forms, tables, multimedia
- CSS styling, Flexbox, Grid, responsive design
- CSS frameworks: Bootstrap, Tailwind CSS

3. JavaScript & DOM Manipulation (15%)

- JavaScript basics: variables, loops, functions, events
- DOM manipulation and event handling
- ES6 features and JSON

4. Front-End Framework (15%)

- Introduction to React.js / Angular / Vue.js
- Components, state, props, routing
- Fetching data via APIs (REST/GraphQL)

5. Back-End Development (20%)

- Node.js + Express.js or Python Django/Flask
- RESTful API creation, routing, middleware
- Authentication & Authorization (JWT, OAuth)

6. Database Management (10%)

- Relational DB: MySQL/PostgreSQL basics, queries
- NoSQL DB: MongoDB, document modeling
- Connecting DB with back-end APIs

7. Version Control & Deployment (5%)

- Git & GitHub basics: commits, branches, pull requests
- Deployment on Netlify, Vercel, Heroku, or AWS

8. Project Development & Full Stack Integration (15%)

- Integrating front-end, back-end, and database
- CRUD operations, RESTful API consumption
- Form validation, error handling, security basics

9. Testing, Debugging & Best Practices (5%)

- Front-end & back-end testing basics
- Debugging tools: browser dev tools, VS Code debugger
- Code organization, clean coding, and security best practices

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