



WEB DEVELOPMENT SYLLABUS

Web Development Syllabus

COURSE OVERVIEW

This comprehensive course is designed to equip you with the skills and knowledge needed to craft dynamic and interactive web applications. Throughout the 6-month program, you'll build a strong foundation in HTML, CSS, JavaScript, and explore frameworks like React.js. You'll also venture into backend development using Node.js and MongoDB, bringing your creations to life. The course culminates in a full-stack project, showcasing your proficiency in web development.

REQUIREMENTS

- No prior mobile development experience is required.
- A fully functional laptop that is able to access the internet.
- Minimal hardware requirements for laptop: [core i5, 256 SSD, and 16Gb of RAM]

RESOURCES

Visual Studio Code, Git, GitHub, etc.

WEEK	CONTENT
Week 1-2	Fundamentals of Web Development 1 <ul style="list-style-type: none">• Introduction to HTML• HTML Advanced
Week 3-4	Fundamentals of Web Development 2 <ul style="list-style-type: none">• Introduction to CSS• Understanding the structure of a webpage <i>Hands-on: Building a basic static webpage</i>
Week 5-6	Responsive Web Design <ul style="list-style-type: none">• Responsive design principles• Introduction to CSS frameworks (e.g., Bootstrap)
Week 7-8	CSS Frameworks <ul style="list-style-type: none">• Advance use of CSS frameworks• Building responsive and mobile-friendly webpages <i>Hands-on: Creating a responsive portfolio webpage</i>
Week 9-10	JavaScript Basics <ul style="list-style-type: none">• Introduction to JavaScript• Variables, data types, and operators
Week 11-12	JavaScript Advanced <ul style="list-style-type: none">• Control flow• Loop statement <i>Hands-on: Writing simple JavaScript programs</i>
Week 13-14	DOM Manipulation and Events <ul style="list-style-type: none">• Understanding the Document Object Model (DOM)• Manipulating DOM elements with JavaScript• Handling user events <i>Hands-on: Creating interactive elements on a webpage</i>

Week 15-16	Introduction to Frontend Frameworks (React) <ul style="list-style-type: none">• Basics of React.js• Components and props
Week 17-18	Introduction to Frontend Frameworks (React) <ul style="list-style-type: none">• State and lifecycle <i>Hands-on: Building a simple React application</i>
Week 19-20	Introduction to Backend Development (Node.js) <ul style="list-style-type: none">• Setting up a basic Node.js server• Handling HTTP requests and responses• Introduction to Express.js <i>Hands-on: Building a simple backend API</i>
Week 21-22	Database Basics and Integration (MongoDB) <ul style="list-style-type: none">• Introduction to databases• Basics of MongoDB• Connecting a Node.js application to MongoDB <i>Hands-on: Integrating MongoDB into the backend</i>
Week 23-24	Full Stack Development and Deployment <ul style="list-style-type: none">• Integrating frontend with backend• Deployment basics (e.g., Heroku, Netlify)• Continuous integration and deployment (CI/CD) concepts <i>Final Project: Building a full-stack web application</i>

ADDITIONAL INFORMATION

Our Full-Stack Web Development course not only provides a robust curriculum but also emphasizes mentorship and community collaboration. With dedicated instructors and a vibrant learner community, you'll benefit from personalized guidance and industry insights. Enjoy lifetime access to resources, exclusive webinars, and continuous support for a successful learning journey. Receive a completion certificate and join a dynamic web development community that values your success.