



Web Development Program

About Jaytech

JayTech is a top e-learning platform offering live, instructor-led interactive online training. We serve professionals and students worldwide in areas such as Big Data & Hadoop, Business Analytics, NoSQL Databases, Java & Mobile Technologies, System Engineering, Project Management, and Programming. Our easy and affordable learning solutions are accessible to millions of learners. With students from countries like the US, India, the UK, Canada, Singapore, Australia, the Middle East, Brazil, and many more, we've built a global community of over 1 million learners.

About Course

Launch your tech career with JayTech's Web Development Program, designed for aspiring developers who want to build modern, responsive, and dynamic websites from scratch. In this course, you'll gain hands-on experience in front-end and back-end development using industry-standard tools and programming languages like HTML, CSS, JavaScript, PHP, and frameworks such as Bootstrap, Laravel, or React. You'll also learn about databases, version control, and how to deploy websites professionally. Through project-based learning and expert mentorship, you'll develop a portfolio of real-world applications that demonstrate your skills and creativity. Whether you want to become a freelancer, join a tech company, or build your own digital products, this program will equip you to succeed in today's fast-moving tech industry.

Web Development Program Course Curriculum

Learning Objective: This module introduces you to the core concepts and foundational skills of web development. You'll gain an understanding of how websites function, the roles of front-end and back-end development, and the tools used by modern web developers. You'll also explore the basics of setting up your development environment, writing your first lines of code, and understanding how your work fits into the larger digital ecosystem.

Module 1: Introduction to Web Development

- **What is web development:** Understand the difference between front-end, back-end, and full-stack development.
- **How websites work (client-server model):** Learn the fundamentals of how browsers and servers communicate.
- **Tools of the trade:** Introduction to code editors, browsers, version control (Git), and developer tools.
- **Setting up your development environment:** Install and configure everything you need to start coding.

Module 2: HTML – Building the Structure

- **HTML basics and syntax:** Learn how to structure content with semantic HTML tags.
- **Forms and inputs:** Create user-friendly forms and understand input types.
- **Media elements (images, video, audio):** Embed media and make your pages more engaging.
- **Best practices in writing clean, accessible HTML**

Module 3: CSS – Styling the Web

- **CSS fundamentals:** Style your pages with color, typography, spacing, and layout.
- **Box model, positioning, and display types:** Understand how elements behave visually.
- **Responsive design and media queries:** Make your website mobile-friendly and adaptive to screen sizes.
- **Introduction to Flexbox and Grid**

Module 4: JavaScript Basics

- **JavaScript syntax and data types:** Learn how to make your pages interactive with JS.
- **Functions, events, and DOM manipulation:** Respond to user actions and dynamically update content.
- **Loops, conditions, and arrays:** Work with logic and repetitive tasks.
- **Basic form validation and simple animations**

Module 5: Working with Git and GitHub

- **Version control basics:** Track changes and collaborate using Git.
- **Creating and managing repositories:** Push your code to GitHub and manage branches.
- **Using Git for teamwork and project collaboration**

Module 6: Introduction to Front-End Frameworks

- **Bootstrap basics:** Use Bootstrap to build fast and responsive designs.
- **Reusable components and grid system:** Build layout structures with ease.
- **Customization and theming:** Modify Bootstrap styles to match branding needs.

Module 7: Introduction to Back-End Development (PHP or Node.js)

- **Understanding server-side programming:** Learn how websites process and store data behind the scenes.
- **Writing basic scripts with PHP / Node.js:** Create dynamic content and handle form submissions.
- **Database connectivity (MySQL or MongoDB):** Store and retrieve data from a database.
- **Basic CRUD operations**

Module 8: Web Hosting & Deployment

- **How web hosting works:** Explore domain names, hosting types, and SSL.
- **Deploying your website using FTP or GitHub Pages:** Take your project live and accessible to the world.
- **Introduction to cPanel and basic server management**

Module 9: Final Project & Portfolio Building

- **Build a fully functional website or app:** Apply all your learning to a real-world web project.
- **Showcase your code and design on GitHub:** Prepare your codebase and documentation professionally.
- **Create a personal portfolio website:** Build your online presence and display your work for potential employers.

Assessment & Certification

- Quizzes and practical assignments for each module
- Final project presentation and code review by instructors
- Certificate of Completion from JayTech Institute