Online Web Applications Developer Course

404 hours / 12 months

Course Description

Whether you're new to web development or want to enhance your skills, this self-paced course will teach you how to create dynamic, database-driven websites using the latest technologies. By course completion, you'll build and develop a web application from the ground up.

You will master basic HTML, the core technology behind almost all websites. From there, you will go on to learn Cascading Style Sheets (CSS) for styling pages and JavaScript for adding interactivity to your pages. You will then learn how to interact with a database, auto-generate emails, and create registration and login pages using HTML forms, PHP, and SQL. Let's not forget XML: this course will also teach you the basics of the fundamental markup language.

Prerequisites

There are no prerequisites to take this course.

Hardware Requirements

• This course can be completed on either a PC (Windows 10 or later) or a Mac (MacOS 11.0 or later).

Software Requirements

- Browser: The latest version of Google Chrome or Mozilla Firefox are preferred. Microsoft Edge is also compatible.
- Visual Studio Code (not included in enrollment).
- One of the following databases (not included in enrollment):
 - Microsoft Access
 - o Microsoft SQL
 - Server Express
 - o MySQL Oracle
- MAMP (Instructions for installing MAMP will be included with the course).
- MySQL Workbench (Instructions for installing MySQL Workbench will be included with the course).
- Adobe Acrobat Reader.
- You will need to have administrative access to your computer so you can properly download and configure the software required for the course.
- Software must be installed and fully operational before the course begins.

Other Requirements



Email capabilities and access to a personal email account.

Course Outline

MODULE	TOPICS COVERED
1: Introduction to HTML	 A Quick Overview of Web Development Introduction to HTML Paragraphs, Headings, and Text HTML Links HTML Images HTML Lists HTML Tables Sectioning a Web Page Audio and Video
2: Introduction to CSS	 A Crash Course in CSS CSS Fonts Color and Opacity CSS Text Borders, Margins, and Padding Backgrounds Display and Visiblity Pseudo-classes and Pseudo-elements Styling Tables with CSS Positioning Transforms and Transitions Layouts CSS Lists as Hierarchical Navigation Media Queries
3: Introduction to JavaScript	 JavaScript Basics Variables, Arrays, and Operators JavaScript Functions Built-In JavaScript Objects Conditionals and Loops Event Handlers and Listeners The HTML Document Object Model CSS Object Model Errors and Exceptions
4: Creating, Styling, and Validating Forms	 HTML Forms JavaScript Form Validation Styling Forms with CSS Regular Expressions Node.js and Server-side Form Validation JSON
5: Advanced JavaScript Concepts	Node.jsScope, var, let, and constArrow Functions



	 Rest Parameters Spread Operator Array Destructuring Template Literals Objects The this Object Array map() Method Array filter() Method Array find() Method JavaScript Modules npm
6: Vue.js 3	 Getting Started with Vue.js Basic Vue Features Directives Implementing Game Logic Transitions and Animations Vue Routing
7: Bootstrap Training	 Getting Started with Bootstrap Basics Bootstrap Layout Creating Responsive Navigation Bootstrap Typography Tables Bootstrap Forms Images Bootstrap Components Bootstrap Utilities Bootstrap Flex
8: Introduction to SQL Training	 Relational Database Basics Simple SELECTs Advanced SELECTs Subqueries, Joins, and Unions
9: Introduction to PHP Training	 PHP Basics Flow control Arrays PHP and HTML Forms String Manipulation Reusing Code and Writing Functions Managing Data Authentication with PHP and SQL Regular Expressions Session Control and Cookies Sending Email with PHP File System Management
10: Introduction to XML Training	 XML Basics DTDs XML Schema Basics XSLT Basics
11: WordPress Training	Introduction and Setup Options



