Web Development and Best Practices

London (UK)

30 June - 4 July 2025

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Web Development and Best Practices

Introduction

The field of web development is constantly evolving, and it is crucial for developers to stay up to date with the latest technologies and best practices. This 5-day course aims to provide participants with a comprehensive introduction to web development and equip them with the necessary skills to build modern, high-quality websites. From frontend to backend development, this course covers essential concepts, tools, and techniques used in the industry.

Course Objectives

- Understand the fundamentals of web development, including the client-server architecture and HTTP protocol.
- Gain knowledge of HTML, CSS, and JavaScript to create responsive and interactive web pages.
- Explore frontend frameworks and libraries, such as React or Angular, to build dynamic user interfaces.
- Learn about backend development using server-side technologies like Node.js and databases such as MongoDB.
- Understand the importance of web accessibility, security, and performance optimization.
- Familiarize yourself with version control systems, like Git, for collaborative web development.
- Gain practical experience through hands-on projects and exercises.

Course Outline

Day 1

Introduction to Web Development

- Overview of web development and its importance
- Client-server architecture and HTTP protocol
- Introduction to HTML and creating web pages
- Basics of CSS for styling and layout
- Introduction to JavaScript for Interactivity

Day 2

Frontend Development

- Responsive web design and CSS frameworks

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- Advanced CSS techniques for layouts and animations
- Introduction to frontend frameworks e.g., React, Angular
- Managing state in frontend applications
- Introduction to API integration and AJAX

Day 3

Backend Development

- Introduction to backend development and server-side technologies
- Basics of Node.js and Express.js framework
- Working with databases e.g., MongoDB
- Introduction to RESTful APIs
- User authentication and session management

Day 4

Web Development Best Practices

- Web accessibility and inclusive design
- Security best practices e.g., input validation, encryption
- Performance optimization techniques e.g., caching, minification
- Search engine optimization SEO basics
- Introduction to testing and debugging

Day 5

Project and Deployment

- Working on a real-world web development project
- Collaborative development using Git and GitHub
- Deployment options for web applications e.g., hosting, cloud platforms
- Continuous integration and deployment CI/CD pipelines
- Final project presentation and wrap-up

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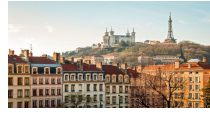
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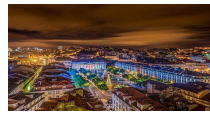
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