

Web Development and Best Practices

Berlin (Germany)

29 July - 2 August 2024

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PARTNER



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Code: IT28 From: 29 July - 2 August 2024 City: Berlin (Germany) Fees: 4700 Pound

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



- 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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International House 185 Tower Bridge
Road London SE1 2UF United Kingdom



+44 7401 1773 35
+44 7480 775526



training@blackbird-training.com



www.blackbird-training.com

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