BLACKBIRD FOR TRAINING

# Web Development and Best Practices

18 – 22 January 2027
Paris (France)



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**Ref:** 321770_144826 **Date:** 18 – 22 January 2027 **Location:** Paris (France) **Fees:** 5900 GBP

## Introduction

The world of web design and development is a dynamic and ever-evolving field that demands constant learning and adaptation. This 1-week course is designed to provide participants with a complete introduction to web development and empower them with the skills required to create modern, responsive, and interactive websites. Whether you're an aspiring web technologist or an experienced developer looking to refine your skills, this course covers all the essentials—from basic website design to advanced web development processes.

By combining theoretical knowledge with hands-on practice, participants will gain expertise in frontend development, backend development, and web development best practices. Additionally, the course emphasizes web developer skills, including security, performance optimization, and collaboration tools like Git.

## Course Objectives

At the end of this course, participants will be able to:

- Understand the fundamentals of web development, including the web development life cycle and web developer duties.
- Gain practical experience in HTML, CSS, and JavaScript to create interactive web development projects.
- Learn about frontend frameworks e.g., React, Angular to build creative web development solutions.
- Explore backend development with Node.js, Express.js, and databases like MongoDB.
- Understand the importance of web development services such as web accessibility, SEO, and security.
- Learn the step-by-step web development process for deploying live projects.
- Prepare for industry-recognized certifications such as web developer certifications or web programming certifications.



# Course Outlines

## Day 1: Introduction to Web Development

- The importance of web development skills in today's digital world.
- Overview of client-server architecture and the HTTP protocol.
- Fundamentals of basic website design using HTML and CSS.
- Introduction to JavaScript for building interactive components.
- Understanding the web development life cycle and tools.

## Day 2: Frontend Development

- Principles of responsive web design and CSS frameworks.
- Advanced CSS techniques: animations, transitions, and layouts.
- Introduction to frontend frameworks like React or Angular.
- State management in interactive web development.
- API integration using AJAX for dynamic data handling.

## Day 3: Backend Development

- Basics of backend development and server-side programming.
- Hands-on with Node.js and Express.js.
- Introduction to databases: MongoDB and connecting it with backend applications.
- Building RESTful APIs for seamless frontend-backend integration.
- Implementing user authentication and managing sessions securely.

## Day 4: Web Development Best Practices

- Understanding web accessibility for an inclusive user experience.
- Security best practices: encryption, input validation, and data protection.
- Techniques for performance optimization, including caching and minification.
- Essentials of search engine optimization SEO for better visibility.
- Testing and debugging methods for robust web applications.

## Day 5: Project and Deployment

- Building a real-world project to demonstrate web developer skills.
- Collaborative development with Git and version control systems.
- Exploring deployment options: hosting and cloud platforms.
- Setting up CI/CD pipelines for automated testing and deployment.
- Presenting final projects and reviewing feedback.



## Why Attend this Course: Wins & Losses!

- Skill Enhancement: Develop a comprehensive understanding of web development skills, from frontend to backend.
- Practical Knowledge: Gain hands-on experience in real-world projects, ensuring you understand the web development process.
- Industry Certifications: Prepare for top web development certifications, boosting your career prospects.
- Future-Ready: Stay ahead in the competitive market by mastering best web development practices and technologies.
- Collaboration: Learn to work with version control systems like Git for effective team collaboration.

## Conclusion

This course on web development offers a holistic approach to mastering the art and science of creating robust, modern, and responsive websites. By the end of the training, you will have gained the necessary skills to excel in the field, ready to tackle challenges and deliver outstanding results in web development services.

**Join us to unlock your potential as a professional web developer and build a strong foundation for a successful career in the world of technology!**

