



SPYPRO SECURITY SOLUTIONS Pvt. Ltd.,

C Y B E R S E C U R I T Y

3-Day Web Development Workshop Overview:

The 3-day Web Development workshop is designed to provide participants with a comprehensive understanding of web development technologies, tools, and best practices. The workshop covers essential topics, hands-on exercises, and real-world applications, equipping participants with the knowledge and skills necessary to design, build, and deploy dynamic web applications.

Day 1:

Session 1: Introduction to Web Development

Overview of web development concepts and technologies

Client-side vs. server-side development

Understanding HTML, CSS, and JavaScript

Session 2: Front-End Development

HTML essentials: structure, tags, and elements

CSS fundamentals: styling, layout, and responsiveness

Introduction to JavaScript and its role in creating interactive web experiences

Session 3: Front-End Frameworks and Libraries

Introduction to popular front-end frameworks like React, Angular, or Vue.js

Working with CSS frameworks like Bootstrap or Foundation

Hands-on exercises: building a responsive web page using front-end frameworks

Day 2:

Session 1: Back-End Development

Overview of server-side programming languages (such as Python, Node.js, or PHP)

Introduction to databases and working with SQL or NoSQL databases

Server-side frameworks like Express.js or Django

Session 2: Building Dynamic Web Applications

Interacting with databases using CRUD operations

Implementing user authentication and authorization

Creating APIs for data exchange between front-end and back-end

Session 3: Web Application Security

Common web application vulnerabilities and security best practices

Implementing input validation, authentication mechanisms, and secure communication

Protecting against common attacks like Cross-Site Scripting (XSS) and Cross-Site Request Forgery (CSRF)

Day 3:

Session 1: Deployment and DevOps

Overview of deployment options, including shared hosting, virtual private servers, and cloud platforms

Version control using Git and GitHub/GitLab

Introduction to Continuous Integration and Continuous Deployment (CI/CD)

workflows

Session 2: Web Performance Optimization

Techniques for optimizing web page loading speed and performance

Caching strategies, image optimization, and minification

Monitoring and analyzing web application performance

Session 3: Practical Project and Q&A

Participants will work on a hands-on project, applying the concepts and techniques learned throughout the workshop

Project presentations and discussions

Open Q&A session and wrap-up

Workshop Benefits:

Comprehensive Learning: Participants gain a thorough understanding of web development concepts, technologies, and best practices.

Hands-on Experience: The workshop includes practical exercises and a project, allowing participants to apply their knowledge and gain practical experience.

Expert Guidance: Experienced instructors provide guidance, share insights, and answer questions throughout the workshop.

Networking Opportunities: Participants can connect and collaborate with other professionals interested in web development.

Certificate of Completion: Attendees receive a certificate of completion, recognizing their successful participation in the workshop.

Conclusion:

The 3-day Web Development workshop offers a structured and immersive learning experience, equipping participants with the knowledge and practical skills necessary to design, build, and deploy dynamic web applications. By

attending this workshop, participants enhance their understanding of web development concepts, gain hands-on experience through practical exercises and projects, and acquire valuable insights into best practices and emerging trends in web development. This workshop is suitable for beginners or individuals with some programming experience looking to expand their knowledge in the field of web development.



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