



SPYPRO SECURITY SOLUTIONS Pvt. Ltd.,

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

3-Days Workshop On JAVA FULL STACK DEVELOPMENT

Workshop Overview:

In today's digital era, Java Full Stack Development is one of the most sought-after skills in the software industry. A Java Full Stack Developer can build complete web applications by working with frontend technologies, Java-based backend frameworks, and databases.

This three-day comprehensive workshop is designed to provide participants with a strong foundation in Java Full Stack Development. Through a combination of conceptual learning and hands-on practical sessions, participants will gain the skills required to develop, integrate, and deploy real-world web applications.

Day 1: Web Development Fundamentals

Session 1:

- Welcome and workshop introduction
- Overview of Full Stack Development
- Understanding frontend and backend technologies
- Introduction to web applications and workflows

Session 2:

- HTML fundamentals – structure of web pages
- CSS basics – styling, layouts, and responsiveness
- Introduction to Bootstrap
- Hands-on exercise: Designing responsive web pages

Session 3:

- JavaScript basics
- Variables, functions, and events
- DOM manipulation
- Hands-on exercise: Adding interactivity to web pages

Day 2: Java Backend Development

Session 1:

- Introduction to Java programming
- Core Java concepts (OOP, collections, exceptions)
- Java application structure

Session 2:

- Introduction to Spring and Spring Boot
- MVC architecture
- REST controllers and APIs
- Hands-on exercise: Developing backend services

Session 3:

- Working with templates and forms
- Connecting frontend with backend
- Introduction to RESTful services
- Hands-on exercise: Backend integration

Day 3: Database, Project & Career Guidance

Session 1:

- Introduction to databases
- SQL fundamentals and CRUD operations
- JDBC / Hibernate basics
- Hands-on exercise: Database integration

Session 2:

- User authentication and authorization
- Exception handling and debugging
- Introduction to deployment concepts

Session 3:

- Mini Java Full Stack project
- Project explanation and presentation
- Resume building and interview tips
- Q&A and workshop conclusion

Conclusion:

This **3-day Java Full Stack workshop** equips participants with essential skills in frontend development, Java backend technologies, and database integration. By the end of the workshop, participants will be able to build basic full stack applications and understand career opportunities in Java development.



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