

SPRING Curriculum

DURATION 1 MONTH



Development | Training | Consultancy

SPRING

Introduction to Spring

- Basic environment.
- Spring modules.

Spring Architecture

- Why use Generic.
- Spring Framework definition.
- Spring Framework design principals.
- Sprint interfaces.

Spring setup

- Setting classpath and jar files.
- Setting configuration.

Design Patterns

- Inversion of Control.
- Dependency Injection.
- Spring & MVC.

Spring Core

- Dependency injection feature.
- Factory Pattern.
- BeanFactory.
- Spring Context definition.

Inversion of Control (IoC)

- Injecting dependencies.
- IoC in enterprise application.

Aspect Oriented Programming

- Spring AOP.
- AOP in enterprise application.
- AOP to provide enterprise services.
- AOP to provide customer implementation

→ **Jbean Factories**

- Application Context and BeanFactory.
- Attaching and Populating beans.
- Injecting data through setters.
- Injecting data through constructors.
- Spring special beans.
- Post processing beans.
- Listening on events.
- Publishing events.

→ **JDBC Data Access**

- JDBC Abstraction layer.
- Data Access exception hierarchy.
- Error handling Strategy.

→ **Spring ORM**

- Database access layer for object, relational databases.
- Mapping API for JDO, Hibernate.

→ **DAO Persistence ORM**

- Hibernate Mapping.
- JDO Mapping.
- iBATIS.

→ **Spring Abstract Transaction layer**

- Employing Spring transaction.
- Using EJB declarative transactions.

→ **Integration process**

- Spring Web.
- Spring Web application.
- Integrating Spring MVC in web application.

→ **MVC Framework**

- Build on core spring functionality.
- Configuring using Strategy Pattern.
- Accommodating different views like Tiles, JSP, Velocity.
- Using other frameworks like struts.



Spring Remote Objects

- Spring Web Services.
- Spring RMI.



Unit testing of components

- Integrated Testing for Beans.



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