

## Frameworks (Adv JAVA)

### ➤ STRUTS-2

- What is Architecture?
- What is Framework?
- About MVC Architecture
- Introduction to Struts
- Difference between Struts-1 & Struts -2
- Struts-2 Basics
- Struts-2 Architecture
- Struts-2 Configuration Files
- Struts-2 Actions
- Basic MVC Application
- Simple application development using MVC
- Validations in Struts
- Struts-2 & View technologies
- Struts-2 Tag Libraries
- Struts-2 with Tiles

### ➤ SPRINGS

- Overview of springs
- Architecture
- Inversion Of Control(IOC) & Dependency Injection(DI)
- Springs Simple applications using Injection
- Springs annotations
- Effective Data Access With Springs
- Spring JDBC Framework
- Spring web MVC Framework
- Springs Validations
- Introduction to Aspect Oriented Programming(AOP)

### ➤ Hibernate

- About Object Relational Mapping(ORM)
- Hibernate overview
- Advantages & Disadvantages of Hibernate
- Hibernate Configurations
- Hibernate Architecture
- Hibernate Sessions
- Hibernate mappings
- Persisting objects with Hibernate

- Hibernate O/R Mappings
- O Collections Mapping
- O Association Mapping
- Hibernate Annotations
- Hibernate Query Language(HQL)
- Integrating Hibernate with Springs

➤ **Java Script & AJAX Concepts**