

## INTRODUCTION

- SPRING vs EJB
- Java Beans
- Features of Spring Framework
  1. DI / IOC
  2. AOP
  3. Light Weight Container
- Spring Framework Architecture
- Spring Framework Modules
- Spring 2.5 New Features
- Spring 3.0 New Features
- Spring 4.0 New Features
- Installation
- Directory Structure Explanation
- Spring Namespaces
- First Application using DI

## ASPECT ORIENTED PROGRAMMING

- Definition
- Advantages of AOP
- AOP Terminology
- Advice Types
  1. Before Advice
  2. After Advice
  3. After-Returning
  4. Around Advice
  5. Throws Advice
- Static and Dynamic Pointcuts
- Proxy based AOP
- Declarative based AOP (Spring2.5)
- Annotation based AOP (Spring2.5)

## MINIMIZING SPRING CONFIGURATION

- Autowiring (Spring2.0)
- Annotation based wiring (Spring2.5)
- Autodiscovery (Spring2.5)

## DIFFERENT TYPES OF CONFIGURATIONS

- *Xml Based Configuration*
- *Java Based Configuration*
- *Annotation Based Configuration*

## MODEL LAYER

- Spring DAO
- Template-Callback Design Pattern
- Spring JDBC
- SPRING with HIBERNATE
- Profiling And Environments
- Embedded Databases

## SERVICE LAYER

- Programmatic Transactions
- Declarative Transactions (Annotations – Spring2.5)
- Diff between Programmatic & Declarative transactions
- Propagation Behavior (attributes)

## CONTROLLER LAYER

- Introduction
- Spring MVC Architecture
- Handler Mapping
- ViewResolver
- Controller classes
- Spring MVC Flow
- Annotation driven Controller (Spring2.5)
- Spring's Form binding library
- Form Processing
- Validations (JSR-303)

## DESIGN PATTERNS IN SPRING

## N-TIER ARCHITECTURE

