

Workshop	
Name	Synergetics - Standard - Spring MVC 3.2 Level 1
Duration	2 days
Objective	Some of the key skills you will gain upon completion of this program include: <ul style="list-style-type: none">• Use the Spring Framework to develop Java applications• Spring MVC architecture• Use Spring MVC for web development.• Managing Layouts and different views• Using Spring IOC and Spring MVC to go hand in hand.
Participants' Entry Profile	Students must have strong Java programming skills and exposure to Java EE technology, Spring IOC and DI, Servlet & JSP is Mandatory.
Training Methodology	The workshop will follow Synergetics methodology of Concept Visualization Active Experimentation Application Development. The workshop will be 100% Hands-On with each participant having access to system during the session

Setup Requirements	
Hardware and Software Requirements	<p>Participant's as well as Trainer's Machine are required to have :</p> <p>Hardware</p> <ul style="list-style-type: none"> Intel Core i3 2.2 GHz CD Rom Drive 80 GB HDD LCD Color Monitor 2 GB RAM LAN Connectivity <p>Software</p> <ul style="list-style-type: none"> Windows XP or 7 Internet Explorer 8 or above/Chrome/Firefox Java SDK 1.7.x Tomcat 7.0/GlassFish 3.2.x/JBoss 7+ JDBC Driver for Oracle (ojdbc6.jar) SQL Server (sqljdbc.jar) Derby (derbyclient.jar) Oracle 10g/Derby/MS SQL 2005 onwards Eclipse 4.0 onwards J2EE Documentation MS Office 2007 onwards Spring 3.2 and MVC API (All Jars)
Training Lab Requirements	<ul style="list-style-type: none"> Whiteboard 6 feet by 4 feet (minimum) Whiteboard markers – Red, Blue, Green, Black Video Projector (1024 X 768 resolutions)

Course Contents**Day 1**

- **Spring Overview**
 - Introduction to Spring configuration
 - Bean life cycle
 - Simplifying configuration
 - Working with multiple configuration files

- **Getting Started with Spring Web MVC**
 - Spring model-view-controller (MVC) overview
 - Understanding lifecycle of the request in Spring MVC
 - DispatcherServlet
 - Handlers
 - Controller programming model overview
 - View Resolvers
 - Spring MVC views
 - Simplifying configuration

- **Spring MVC Configuration Options**
 - Spring MVC infrastructure Beans
 - URL mappings
 - Handler interceptors and handler adapters
 - Abstract controller and designing custom controllers
 - Integrating Web context with Application context
 - JDBC integration in Abstract controller
 - Designing Model and View

- **Spring MVC Mapping Handlers**
 - SimpleUrlHandlerMapping
 - BeanNameUrlHandlerMapping
 - Exception Handlers and their mappings
 - Designing exception pages
 - Handler Configuration

Day 2

- **Using Views in Spring MVC**
 - Views and view resolvers
 - Setting up a view resolver chain
 - Alternating views

➤ **Form Controllers**

- Simple form controller
- Multi action controller
- Form wizard controller

➤ **Building Form Pages with Spring MVC**

- Form rendering
- Type conversion
- Data binding
- Form validation using Spring and Bean validation (JSR 303)
- Validation support: Programmatic and Declarative
- Form object management