

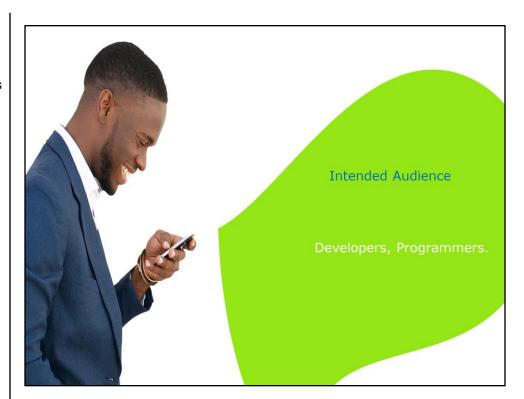
©2016 Capgemini. All rights reserved.

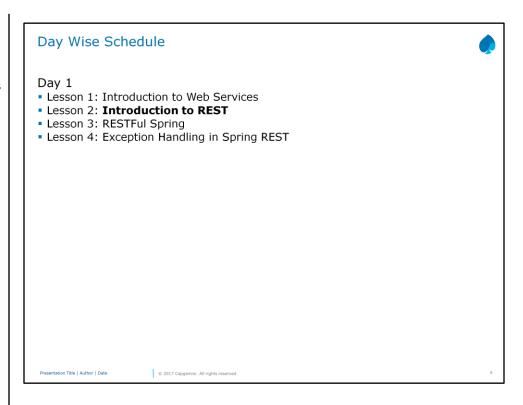
The information contained in this document is proprietary and confidential. For Capgemini only.

Add instructor notes here.

# Course Goals Learning core concepts of Java Web Services version 2.0 Developing applications using JWS2.0 API stack Developing REST WebService with Spring Framework Course Non Goals Developing Enterprise applications Output Developing Enterprise applications







Add instructor notes here.

### **Table of Contents**

Lesson 1: Introduction to Web Services

- 1.1. What are Web Services?
- 1.2. HTTP and SOAP Messages
- 1.3: Overview of JAX-WS and JAX-RS

Add instructor notes here.

### **Table of Contents**

### Lesson 2: Introduction to REST

- 2.1 REST fundamentals
- 2.2 Principle of REST
- 2.3 REST resources and their representations
- 2.4 HTTP methods
- 2.5 List of REST Frameworks
- 2.6 Benefits of RESTful Design

Add instructor notes here.

### **Table of Contents**

### Lesson 3:RESTFul Spring

- 3.1 Spring MVC traditional workflow vs Spring MVC REST Workflow
- 3.2 Using the @ResponseBody Annotation
- 3.3 Life cycle of a Request in Spring MVC Restful
- 3.4 Why REST Controller?
- 3.5 Spring 4.x MVC RESTful Web Services Workflow
- 3.6 REST Controller
- 3.7 RESTful URLs HTTP methods
- 3.7 Cross-Origin Resource Sharing (CORS)
- 3.9 @RequestBody annotation

### Lesson 4: Exception Handling in Spring REST

- 4.1 Exception handling at controller level
- 4.2 Exception handling at application level

Add instructor notes here.

### References

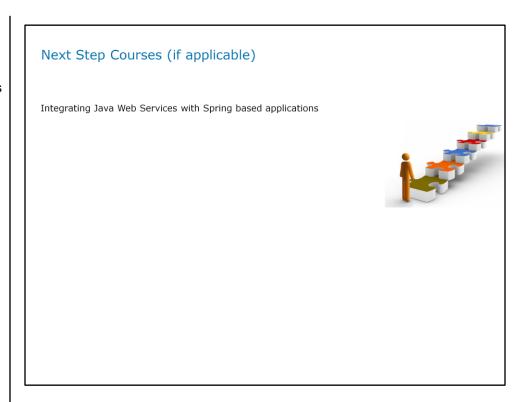
### WebLinks:

RESTful Java Web Services by Jose Sandoval https://docs.oracle.com/javaee/6/tutorial/doc/giepu.html https://docs.oracle.com/javaee/6/tutorial/doc/bnayl.html http://www.service-architecture.com/articles/webservices/web services explained.html



### Books

RESTful Web Services (O'Reilly) By Richardson & Ruby Spring REST by Sudha Belida, Balaji Varanasi



Add instructor notes here.

## Other Parallel Technology Areas

Web services are often compared to remote procedure call Web services can also be mapped to CORBA

Capgemini Internal