

INTRODUCTION

- Web Services vs Old Technologies
- Architecture

XSD [XML Schema Definition]

- XML Schema features
- XSD vs DTD
- XML Schema (.xsd)
- XML Message (.xml)
- Simple Types
- Complex Types
- Indicators

SOAP

- Introduction
- SOAP Namespace
- Basic Structure of SOAP
- SOAP Header
- SOAP Body
- Document/Literal
- RPC/Literal
- SOAP Faults
- SOAP over HTTP
- SOAP Data Model

WSDL

- Introduction
- Basic Structure of WSDL
- WSDL Template file
- <wsdl:definitions>
- <wsdl:types>
- <wsdl:message>
- <wsdl:portType>
- <wsdl:operation>
- <wsdl:binding>
- <wsdl:service>
- IN, OUT, INOUT parameters
- Sample WSDL files
- Document vs RPC Style Messaging

AXIS2

- Introduction
- Installing AXIS2
- Guide to AXIS2

REST

- REST style vs SOAP style
- HTTP Protocol
- HTTP Methods
- HTTP Status Codes
- Architectural Principles



JAX-RS API

- JAX-RS Annotations
- JAXRS-JAXB
- JSON
- JAX-RS Injection
- Response Codes
- Exceptions
- RESTEasy, Jersey, Apache CXF



SPRING with REST API

JAXB

- JAXB Tools
- JAXB Architecture
- JAXB Annotations
- Standard JAXB Binding
- Customize JAXB Binding



JAX-WS 2.0

- Diff between JAX-RPC1.x vs JAX-WS2.0
- Dynamic Proxy
- wsimport tool
- JAX-WS Annotations
- WS-Metadata
- Guide to JAX-WS



APACHE CXF FRAMEWORK

WS-SECURITY

- Encryption and Decryption
- Digital Signature
- Transport Layer Security
- Message Layer Security
- KERBEROS
- X.509 PKI
- Security Token Service (STS)

