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J2EE Web Services Training Course

1. An Overview of J2EE 1.4 Web Services

- ✓ The J2EE Platform.
- ✓ The Technologies of Web Services.
- ✓ The J2EE Web Service APIs.

2. XML

- ✓ Basics.
- ✓ XML Primer.
- ✓ XML Namespaces.

3. The W3C XML schema language.

- ✓ XML Schema Basics.
- ✓ Advanced XML Schema.

4. SOAP.

- ✓ The Basic Structure of SOAP.
- ✓ SOAP Namespaces.
- ✓ SOAP Headers.
- ✓ The SOAP Body.
- ✓ SOAP Messaging Modes.
- ✓ SOAP Faults.
- ✓ SOAP over HTTP.



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5. WSDL.

- ✓ The Basic Structure of WSDL.
- ✓ WSDL Declarations: The definitions, types, and import Elements.
- ✓ The WSDL Abstract Interface: The message, portType, and operation Elements.
- ✓ WSDL Messaging Exchange Patterns.
- ✓ WSDL Implementation: The binding Element.
- ✓ WSDL Implementation: The service and port Elements.
- ✓ WS-I Conformance Claims.

6. The UDDI Data Structures

- ✓ The businessEntity Structure.
- ✓ The businessService and bindingTemplate Structures.
- ✓ The tModel Structure.
- ✓ The publisherAssertion Structure.
- ✓ UUID Keys.
- ✓ WS-I Conformance Claims.

7. The UDDI Inquiry API

- ✓ General Information about UDDI SOAP Messaging.
- ✓ The Inquiry Operations.

8. The UDDI Publishing API

- ✓ Operation Definitions and Payloads.
- ✓ Fault Messages.
- ✓ IV. JAX
- ✓ RPC.

9. JAX-RPC Overview

- ✓ The Server-Side Programming Models.
- ✓ The Client-Side Programming Models.
- ✓ Other JAX-RPC Topics Covered.
- ✓ SAAJ



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10. JAX-RPC Service Endpoints.

- ✓ A Simple JSE Example.
- ✓ The JSE Runtime Environment.
- ✓ Multi-threading and JSEs.

11. JAX-RPC EJB Endpoints.

- ✓ An Enterprise JavaBeans Primer.
- ✓ Enterprise
- ✓ JavaBeans Web Services.

12. JAX-RPC Client APIs.

- ✓ Generated Stubs.
- ✓ Dynamic Proxies.
- ✓ DII.

13. SAAJ.

- ✓ A Simple SAAJ Example.
- ✓ Creating a SOAP Message.
- ✓ Working with SOAP Documents.
- ✓ Working with SOAP Faults.
- ✓ Sending SOAP Messages with SAAJ.
- ✓ SAAJ 1.2 and DOM 2.

14. Message Handlers.

- ✓ A Simple Example.
- ✓ Handler Chains and Order of Processing.
- ✓ The Handler Runtime Environment.
- ✓ 15. Mapping Java to WSDL and XML.
- ✓ Mapping WSDL to Java.
- ✓ Mapping XML Schema to Java.



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- ✓ Holders.
- ✓ Faults and Java Exceptions.
- ✓ V. JAXR.

15. Getting Started with JAXR.

- ✓ Using a UDDI Test Registry.
- ✓ Connecting to a UDDI Registry.
- ✓ Using the RegistryService and BusinessLifeCycleManager.
- ✓ The BulkResponse Type.
- ✓ Exceptions.

16. The JAXR Business Objects.

- ✓ The RegistryObject Interface.
- ✓ The Organization Information Object.

17. The JAXR Technical Objects.

- ✓ The Service and ServiceBinding Information Objects.
- ✓ The Concept Information Object.
- ✓ The SpecificationLink Information Object.
- ✓ The Association Information Object.
- ✓ Predefined Enumerations.

18. The JAXR Inquiry and Publishing APIs.

- ✓ Mapping JAXR to the UDDI Inquiry API.
- ✓ Mapping JAXR to the UDDI Publishing API.



19. SAX2.

- ✓ Parsing with SAX: XMLReaderFactory and XMLReader.
- ✓ The ContentHandler and DefaultHandler Interfaces.
- ✓ Validating with W3C XML Schema.

20. DOM 2.

- ✓ Parsing with DOM: DocumentBuilderFactory and DocumentBuilder.
- ✓ Nodes.
- ✓ Building a DOM Document.
- ✓ Copying Nodes.

21. J2EE Deployment.

- ✓ Overview of the J2EE Deployment Process.
- ✓ J2EE Web Services Deployment.
- ✓ Deploying JSEs.
- ✓ Deploying EJB Endpoints.
- ✓ Service References.

22. Web Service Descriptors.

- ✓ The wsdl-file and wsdl-port Elements.
- ✓ The port-component-name Element.
- ✓ The service-endpoint-interface Element.
- ✓ The service-impl-bean Element.
- ✓ The jaxrpc-mapping-file Element.
- ✓ The handler Element.

23. JAX-RPC Mapping Files.

- ✓ Conditions for a Lightweight JAX-RPC Mapping File.
- ✓ A Lightweight Example.
- ✓ A Heavyweight Example.
- ✓ Anatomy of a Mapping File.
- ✓ Wrapping Up.



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