

Web Service Architecture

Web Services VS other Technologies

Web Services Benefits

Introduction to XML

- DTD VS XSD
- What is XML Parsing?
- Various other XML Binding API's
- JAX-P API based XML parsing using (SAX, DOM)
- Validating XML Documents using JAX-vP
- XML Binding using JAX-B (Marshalling, Un-Marshalling and In-Memory Validation)

What is JAX-RPC API

- Different Implementations of JAX-RPC API
- Typical request processing in JAX-RPC
- Building Web Service using JAX –RPC SUN RI Implementation (Contract Last approach)
- Building Web Service clients using JAX – RPC API (Stub based client, DP and DII based clients)
- Building Web Service using JAX-RPC API Apache Axis implementation (Contract First approach)

Purpose of WSDL

- Types of WSDL
- Message Exchange Patterns
- Message Exchange Formats
- Various elements of a WSDL document
- Writing a WSDL document

- Various elements of SOAP and its significance

What is JAX-WS API

- JAX RPC VS JAX-WS
- Building Web Service using JAX – WS SUN RI implementation (Contract Last approach)
- Building Web Service using JAX – WS Apache Axis 2 implementation (Contract First approach)
- Building Asynchronous Web Service using JAX – WS dynamic API

What is JAX – RS?

- Need for JAX – RS
- Web Services VS Web Resource
- Building Web Resource using JAX – RS SUN Jersey implementation
- Building a Web Resource client using Apache Commons HTTP Client API