



WebServices

Programming & development

Course Curriculum



WebServices Development using Java - JAX-RS

60 Hours

Contents-

REST

1. **What is REST and REST Architecture and REST Constraints**
2. **JAX-RS & Jersey Hello World Example**
3. **Overview of a JAX-RS Application**
4. **Using @Consumes and @Produces to Customize Request and Response**
5. **Annotations for Field and Bean Properties of Resource Classes**

Working with JSON

Create a RESTful Java client to perform “GET” and “POST” request to manipulate json data.

1. [RESTful Web Services with Jersey JAX-RS JSON on Tomcat](#)

RESTful Java clients

Create a RESTful Java client to perform “GET” and “POST” request to manipulate json data.

1. [Create RESTful Java Client With Jersey Client Example](#)

Working with XML

XML support in JAX-RS.

1. [Using JAX-RS With JAXB](#)
2. [RESTful Web Services with Jersey JAX-RS using XML on Tomcat](#)

Course Practicals.

1. [JAX-RS @Path URI matching example](#)
2. [JAX-RS @PathParam example](#)
Simple way to inject URI parameter that defined in @Path into Java method.
3. [JAX-RS @QueryParam example](#)
Example to get query parameter in URI path, and also how to define an optional parameter.
4. [JAX-RS @MatrixParam example](#)

Example to get matrix parameters in URI path.

5. [JAX-RS @FormParam example](#)
Example to get HTML post form parameter values.
6. [Get HTTP headers in JAX-RS](#)
Show the use of @HeaderParam and @Context to get HTTP headers.

7. [**Download text file from JAX-RS**](#)

Example to output a text file for user to download.

8. [**Download image file from JAX-RS**](#)

Example to output an image file for user to download.

9. [**Download pdf file from JAX-RS**](#)

Example to output pdf file for user to download.

10. [**Download excel file from JAX-RS**](#)

Example to output excel file for user to download.

