**RESTful webservice example:**

<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://java.sun.com/xml/ns/javaee" xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_3\_0.xsd" id="WebApp\_ID" version="3.0">

<display-name>com.vogella.jersey.first</display-name>

<servlet>

<servlet-name>Jersey REST Service</servlet-name>

<servlet-class>org.glassfish.jersey.servlet.ServletContainer</servlet-class>

*<!-- Register resources and providers under com.vogella.jersey.first package. -->*

<init-param>

<param-name>jersey.config.server.provider.packages</param-name>

<param-value>com.vogella.jersey.first</param-value>

</init-param>

<load-on-startup>1</load-on-startup>

</servlet>

<servlet-mapping>

<servlet-name>Jersey REST Service</servlet-name>

<url-pattern>/rest/\*</url-pattern>

</servlet-mapping>

</web-app>

**HelloWebservice Program**

**import** javax.ws.rs.GET;

**import** javax.ws.rs.Path;

**import** javax.ws.rs.Produces;

**import** javax.ws.rs.core.MediaType;

*// Plain old Java Object it does not extend as class or implements*

*// an interface*

*// The class registers its methods for the HTTP GET request using the @GET annotation.*

*// Using the @Produces annotation, it defines that it can deliver several MIME types,*

*// text, XML and HTML.*

*// The browser requests per default the HTML MIME type.*

*//Sets the path to base URL + /hello*

@Path("/hello")

**public** **class** **Hello** {

*// This method is called if TEXT\_PLAIN is request*

@GET

@Produces(MediaType.TEXT\_PLAIN)

**public** String sayPlainTextHello() {

**return** "Hello Jersey";

}

*// This method is called if XML is request*

@GET

@Produces(MediaType.TEXT\_XML)

**public** String sayXMLHello() {

**return** "<?xml version=\"1.0\"?>" + "<hello> Hello Jersey" + "</hello>";

}

*// This method is called if HTML is request*

@GET

@Produces(MediaType.TEXT\_HTML)

**public** String sayHtmlHello() {

**return** "<html> " + "<title>" + "Hello Jersey" + "</title>"

+ "<body><h1>" + "Hello Jersey" + "</body></h1>" + "</html> ";

}

}

Client program

**import** java.net.URI;

**import** javax.ws.rs.client.Client;

**import** javax.ws.rs.client.ClientBuilder;

**import** javax.ws.rs.client.WebTarget;

**import** javax.ws.rs.core.MediaType;

**import** javax.ws.rs.core.Response;

**import** javax.ws.rs.core.UriBuilder;

**import** org.glassfish.jersey.client.ClientConfig;

**public** **class** **Test** {

**public** **static** **void** main(String**[]** args) {

ClientConfig config = **new** ClientConfig();

Client client = ClientBuilder.newClient(config);

WebTarget target = client.target(getBaseURI());

String response = target.path("rest").

path("hello").

request().

accept(MediaType.TEXT\_PLAIN).

get(Response.class)

.toString();

String plainAnswer =

target.path("rest").path("hello").request().accept(MediaType.TEXT\_PLAIN).get(String.class);

String xmlAnswer =

target.path("rest").path("hello").request().accept(MediaType.TEXT\_XML).get(String.class);

String htmlAnswer=

target.path("rest").path("hello").request().accept(MediaType.TEXT\_HTML).get(String.class);

System.out.println(response);

System.out.println(plainAnswer);

System.out.println(xmlAnswer);

System.out.println(htmlAnswer);

}

**private** **static** URI getBaseURI() {

**return** UriBuilder.fromUri("http://localhost:8080/com.vogella.jersey.first").build();

}

}