

# Rest Webservice using Jersey (Provider and Consumer)

**JDK 8:** <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

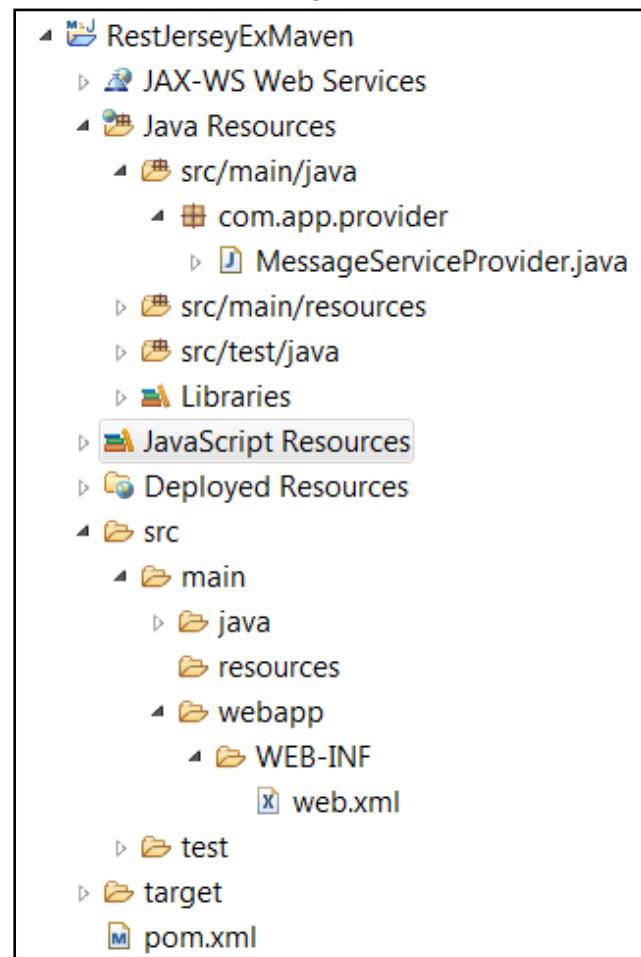
**Eclipse IDE (With STS): (32 bit os) :**

<http://download.springsource.com/release/STS/3.9.4.RELEASE/dist/e4.7/spring-tool-suite-3.9.4.RELEASE-e4.7.3a-win32.zip>

**(64 bit os):** [http://download.springsource.com/release/STS/3.9.4.RELEASE/dist/e4.7/spring-tool-suite-3.9.4.RELEASE-e4.7.3a-win32-x86\\_64.zip](http://download.springsource.com/release/STS/3.9.4.RELEASE/dist/e4.7/spring-tool-suite-3.9.4.RELEASE-e4.7.3a-win32-x86_64.zip)

**Apache Tomcat :** <http://redrockdigimark.com/apachemirror/tomcat/tomcat-8/v8.5.31/bin/apache-tomcat-8.5.31.exe>

## Provider Folder System:



## 1. pom.xml

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>org.sathaytech</groupId>
  <artifactId>RestJerseyExMaven</artifactId>
  <packaging>war</packaging>
  <version>1.0</version>
  <name>RestJerseyExMaven Maven Webapp</name>
  <url>http://maven.apache.org</url>
  <dependencies>
    <dependency>
      <groupId>com.sun.jersey</groupId>
      <artifactId>jersey-bundle</artifactId>
      <version>1.19</version>
    </dependency>
    <dependency>
      <groupId>com.sun.jersey</groupId>
      <artifactId>jersey-json</artifactId>
      <version>1.19</version>
    </dependency>
  </dependencies>
  <build>
    <finalName>RestJerseyExMaven</finalName>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.7.0</version>
        <configuration>
          <source>1.8</source>
          <target>1.8</target>
        </configuration>
      </plugin>
    </plugins>
  </build>
</project>
```

## 2. web.xml

```
<!DOCTYPE web-app PUBLIC
"-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
"http://java.sun.com/dtd/web-app_2_5.dtd" >
```

```
<web-app>
  <servlet>
    <servlet-name>sample</servlet-name>
    <servlet-
class>com.sun.jersey.spi.container.servlet.ServletContainer</servlet
-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>sample</servlet-name>
    <url-pattern>/rest/*</url-pattern>
  </servlet-mapping>
</web-app>
```

### 3. Service Provider class code

```
package com.app.provider;

import javax.ws.rs.DELETE;
import javax.ws.rs.GET;
import javax.ws.rs.HEAD;
import javax.ws.rs.OPTIONS;
import javax.ws.rs.POST;
import javax.ws.rs.PUT;
import javax.ws.rs.Path;

@Path("/message")
public class MessageServiceProvider {

    @Path("/show")
    @GET
    public String showGetMsg() {
        return "Hello:GET";
    }

    @Path("/show")
    @POST
    public String showPostMsg() {
        return "Hello:POST";
    }

    @Path("/show")
    @PUT
    public String showPutMsg() {
        return "Hello:Put";
    }
}
```

```

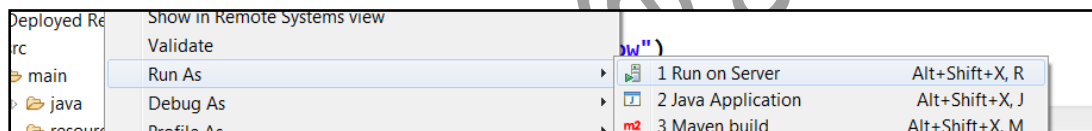
@Path("/show")
@DELETE
public String showDeleteMsg() {
    return "Hello:DELETE";
}

@Path("/show")
@HEAD
public String showHeadMsg() {
    return "Hello:NO-BODY";
}

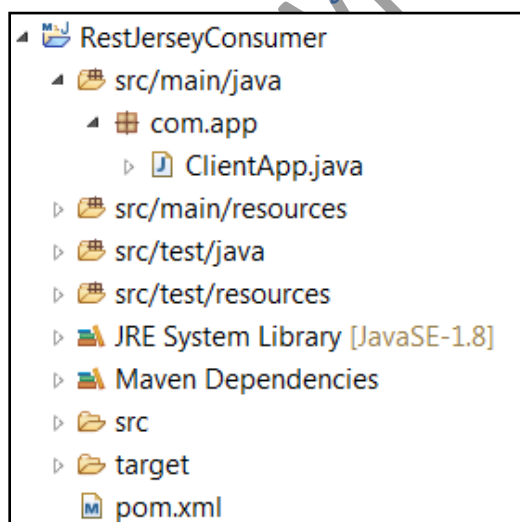
@Path("/show")
@OPTIONS
public String showOptionsMsg() {
    return "Hello:OPTIONS";
}
}

```

\* After coding provider project Run in Server (Right click on Project > Run As > Run on Server)



## Consumer Folder System:



### 1. pom.xml

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>org.sathyatech</groupId>
  <artifactId>RestJerseyConsumer</artifactId>
  <version>1.0</version>
  <dependencies>
    <dependency>
      <groupId>com.sun.jersey</groupId>
      <artifactId>jersey-client</artifactId>
      <version>1.19</version>
    </dependency>
  </dependencies>
  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.7.0</version>
        <configuration>
          <source>1.8</source>
          <target>1.8</target>
        </configuration>
      </plugin>
    </plugins>
  </build>
</project>
```

## 2. Client Application Code

```
package com.app;

import com.sun.jersey.api.client.Client;
import com.sun.jersey.api.client.ClientResponse;
import com.sun.jersey.api.client.WebResource;

public class ClientApp {

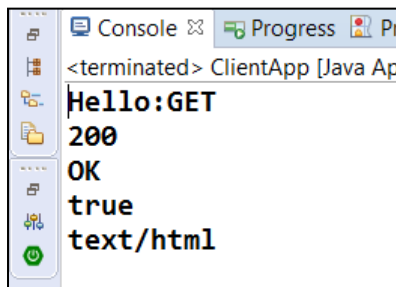
    public static void main(String[] args) {
        Client c=new Client();
        WebResource
r=c.resource("http://localhost:2018/RestJerseyExMaven/rest/message/s
how");

        ClientResponse cr=r.get(ClientResponse.class);
        String res=cr.getEntity(String.class);
    }
}
```

```
        System.out.println(res);  
        System.out.println(cr.getStatus());  
        System.out.println(cr.getStatusInfo());  
        System.out.println(cr.hasEntity());  
        System.out.println(cr.getType());  
    }  
}
```

\*\* Run Menu> Run option (or ctrl+F11)

Output:



FB Group: <https://www.facebook.com/groups/thejavatemple/>

email : [javabyraghu@gmail.com](mailto:javabyraghu@gmail.com)