

LAB 14 – Client Application

1. Launch Eclipse

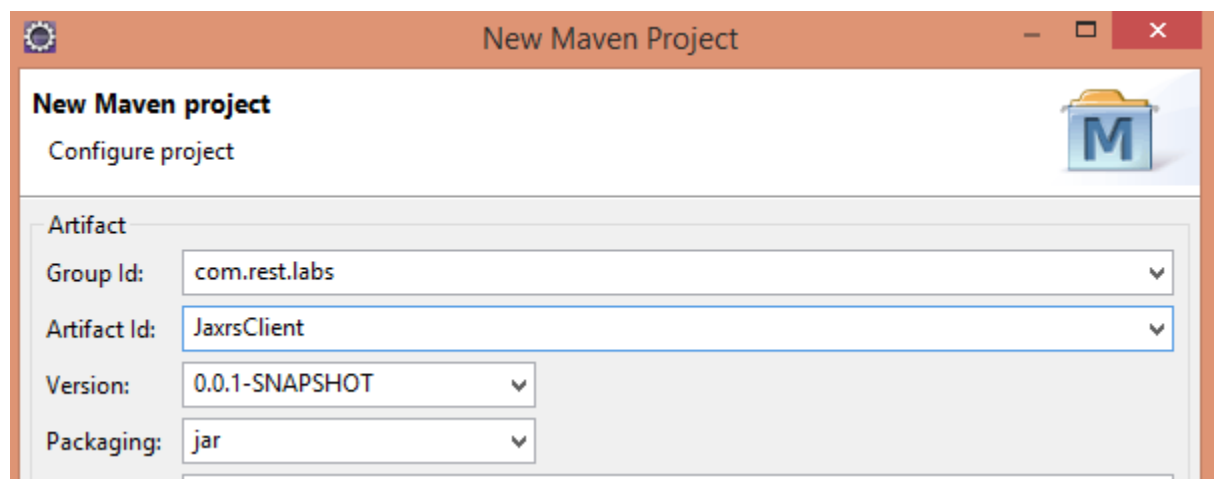
- a. Accept the default workspace

2. Create a Project

- a. *File > New > Maven Project*
- b. **Project Name:** Calculator
- c. Click **Finish**.

3. Convert project into a Maven project

- a. Right-click on the project. *Configure > Convert to Maven Project*
- b. Check the first two checkboxes.
- c. Click **Next**.
- d. **Group Id:** `com.rest.labs`
- e. **Artifact Id:** `JaxrsClient`



- f. Click **Finish**.

4. Set Maven dependency to include required library

- a. Expand project in the Project Explorer view
- b. Double-click `pom.xml` (this is the Maven config file)
- c. Click on the "Dependencies" tab
- d. Add dependency by clicking the "Add" button on the left.
- e. Add one dependency:

Group Id	Artifact Id	Version
com.sun.jersey	jersey-client	1.19

- f. Save `pom.xml` (*File > Save* or *Ctrl + S*).

5. Create a service client class

- Right-click on the project. *New > Class*
- Package:** `com.labs.rest`
- Name:** `RestClient`
- Click **Finish**.

6. Complete the source code for the client

```
package com.rest.labs;

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

public class RestClient {

    static Client client = Client.create();
    static String getUrl = ""; //TODO: Set URL

    public static void main(String[] args){
        getRequest();
    }

    public static void getRequest(){
        WebResource webResource = client.resource(getUrl);

        //TODO: Set MIME type inside the accept() method call
        ClientResponse response =
            webResource.accept("").get(ClientResponse.class);

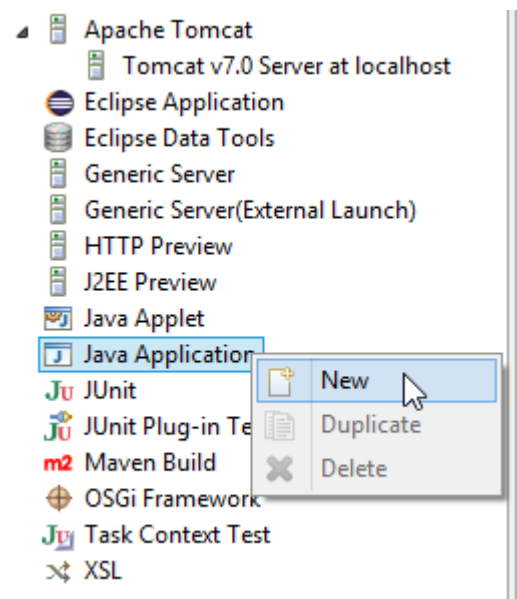
        if( response.getStatus() != 200 ) {
            throw new RuntimeException("HTTP Error: "+ response.getStatus());
        }

        //TODO: Display response data
    }
}
```

- Update the class by following the instructions in the `TODO` comments.
- Save `RestClient.java` (*File > Save* or *Ctrl + S*).

7. Setup the Run Configuration to launch the client application

- Right-click the project. *Run As > Run Configurations...*
- Right-click *Java Application* on the left and select *New*.



- c. Complete the fields in this window
 - i. **Name:** *Java Run Config*
 - ii. **Project:** *JaxrsClient*
 - iii. **Main class:** *com.rest.labs.RestClient*
- d. Click **Apply**.
- e. Click **Close**.

8. Test the client app

- a. If you are accessing a local service, be sure the server is running.
- b. Right-click the project. *Run As > Java Application*
- c. Check the *Console* view for output from the service call.