# LAB 12 – Hello Cliche

# 1. Launch Eclipse

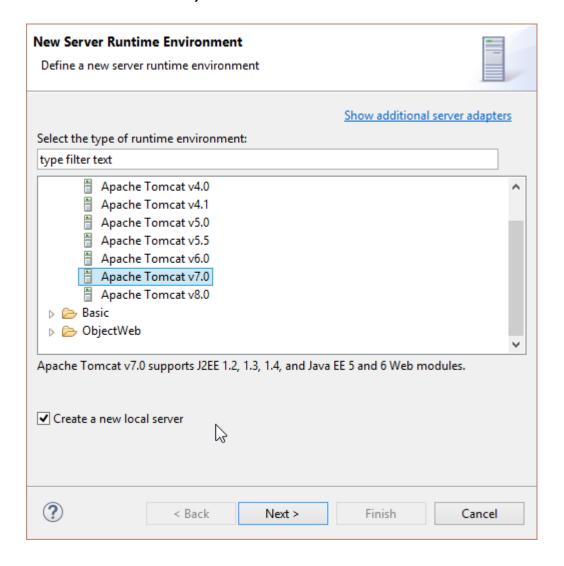
- a. Run eclipse.exe from the eclipse directory.
- b. Accept the default workspace location (or specify an alternate location) and click OK.

Workbench

c. Click the Workbench icon to close out the welcome screen.

## 2. Create a Project

- a. File > New > Dynamic Web Project
- b. Project Name: ClicheMessage
- c. Click "New Runtime"
- d. Select "Apache Tomcat v7.0" (make sure "Create new local server" is checked) and click **Finish.**



e. Click Next.

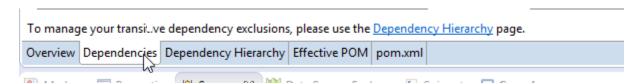
f. Point to the location of the Tomcat directory.



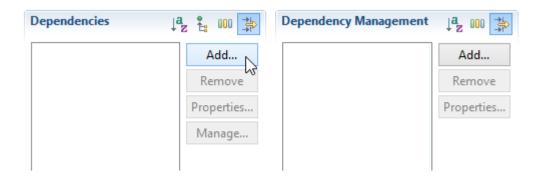
- g. Click Finish
- 3. Convert project into a Maven project
  - a. Right-click on the project. Configure > Convert to Maven Project
  - b. Accept defaults and click Finish.

## 4. Set Maven dependencies to include required libraries

- 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 each dependency by clicking the "Add" button on the left.



e. Add the following dependencies:

Group Id	Artifact Id	Version
asm	asm	3.3.1
org.json	json	20140107
com.sun.jersey	jersey-bundle	1.19
com.sun.jersey	jersey-core	1.19
com.sun.jersey	Jersey-server	1.19

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

## 5. Create a service implementation class

- a. Right-click on the project. New > Class
- b. Package: com.labs.rest
- c. Name: HelloCliche
- d. Click Finish.

#### 6. Complete the source code for the service

```
package com.labs.rest;
import javax.ws.rs.GET;
import javax.ws.rs.POST;
import javax.ws.rs.Path;

@Path("/hello")
public class HelloCliche {

    @GET
    public String getSomething() {
        return "Hello GET!";
    }

    @POST
    public String postSomething() {
        return "Hello POST!";
    }
}
```

a. Save HelloCliche.java (File > Save or Ctrl + S).

## 7. Configure the service container

- a. Right-click the project. *Java EE Tools > Generate Deployment Descriptor Stub*
- b. Open the project's Deployment Descriptor.

```
✓ ClicheMessage

DAX-WS Web Services

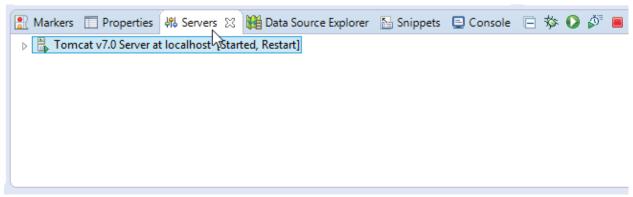
Deployment Descriptor: ClicheMessage

Java Resources
```

c. Add a Servlet and ServletMapping definitions below the welcome-file-list element.

#### 8. Deploy project to server

a. Click the Servers tab directly below the editor.



- b. Right-click on the Tomcat server. Select "Add and Remove..."
- c. Click the project name on the left, click the "Add" button, and click **Finish**.

#### 9. Test the service

- a. Click the green play button on the right side of the Servers tab.
- b. Test the service using your browser.
  - i. Launch browser of your choice.
  - ii. Navigate to:
     http://localhost:8080/ClicheMessage/cliche/hello/
  - iii. Result should be: Hello GET!
- c. Test the service using a simple form.
  - i. Right-click on WebContent folder and select "Import..."
  - ii. General > File System
  - iii. Click "Browse" and select the Lab12 folder.
  - iv. Select the RestTester.html file.
  - v. Click Finish.
  - vi. Navigate your browser to:
     http://localhost:8080/ClicheMessage/RestTester.html
  - vii. Experiment with GET and POST requests