

Lab 10

In this lab you will

- learn how to use Maven for a web application
- refactor your code to use the 'full' Front Controller pattern.

This will be a first step to building your own framework.

Create new Maven project

Create a new Maven project:

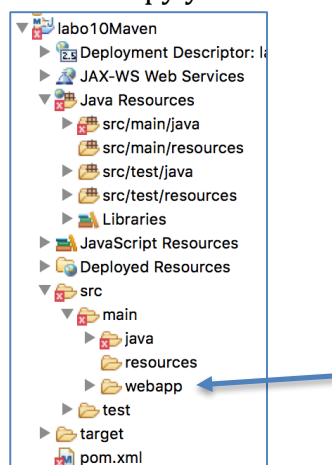
1. *File > New > Other...*
2. *Maven > Maven Project > Next*
3. Make sure the option Create a simple project (skip archetype selection) is checked and choose *Next*
4. Fill in the fields
 - a. *Group Id* (i.e. org.web3)
 - b. *Artifact Id* the name of your project, i.e. WebShopWeb3
 - c. *Packaging*: war
5. Click *Finish*.

The project is created.

6. In the root of your project, you will find the file *pom.xml*. Open this file. Add the content of *mavenAddons.txt* below the `<packaging>war</packaging>` tags. Ignore the error.

Copy your previous project to this new Maven project:

1. Copy the content of the folder *Java Resources/src* of your Dynamic Web project to the folder *Java Resources/src/main/java* of the Maven project
2. Copy the content of the folder *WebContent* project to the folder *src/main/webapp* of the Maven project
3. Create a folder "WEB-INF" and copy your *web.xml* to this folder



4. Right mouse click on the *pom.xml* file and choose *Run As > Maven install* to check if you can build the application.

5. Right mouse click on the name of the project and choose *Maven > Update Project*.
6. Try to run the application, and check if everything still works.

Implement the front controller class

Refactor your controller class:

- Replace all the private methods with handler classes.
- Isolate the creation of these classes in a factory-class.

Test your application

- Right mouse click on the *pom.xml* file and choose *Run As > Maven install* to check if you can build the application.
- Try to run the application, and check if everything still works.