Genie logiciel

Deployment

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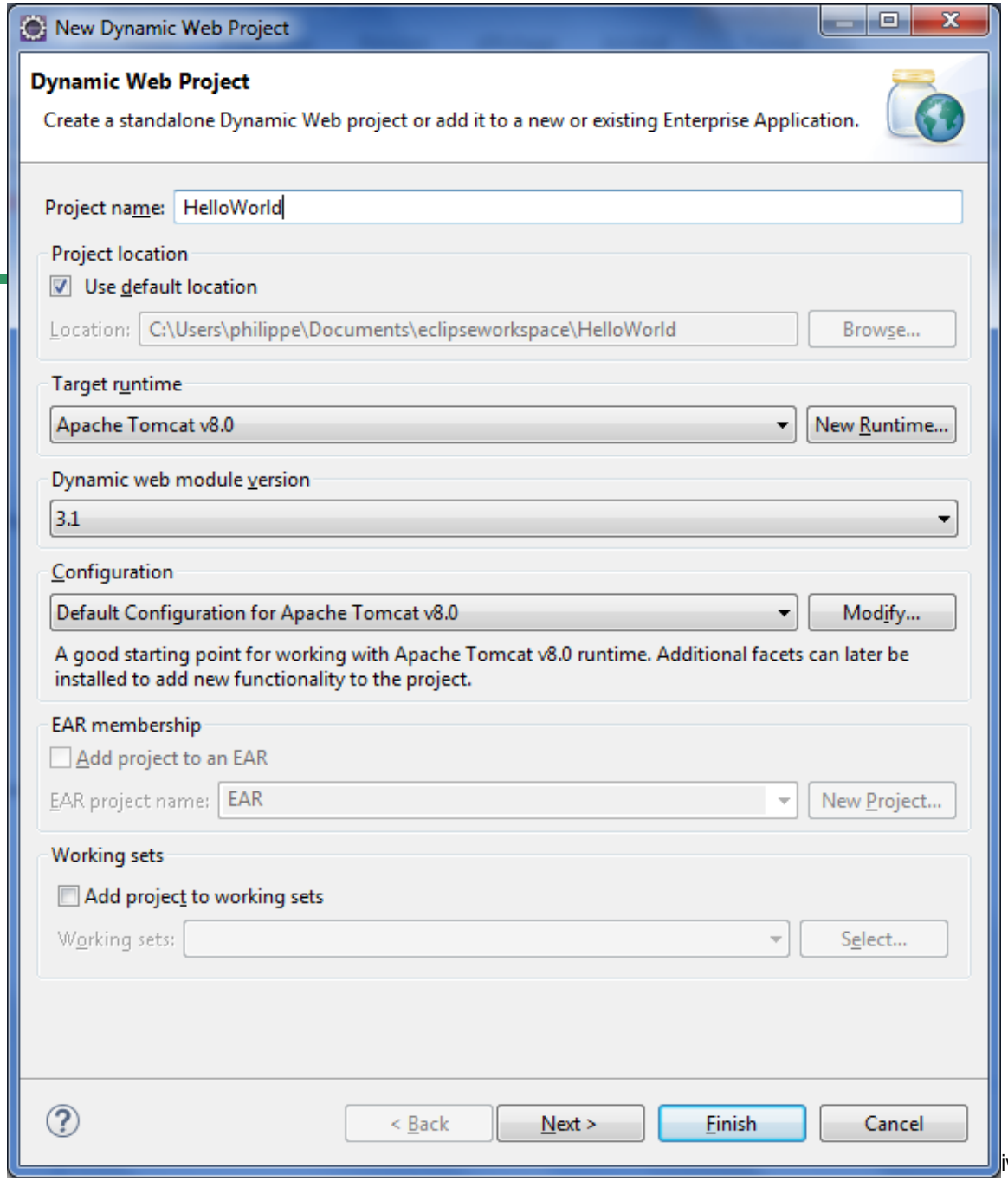
Steps to create the “hello world” service

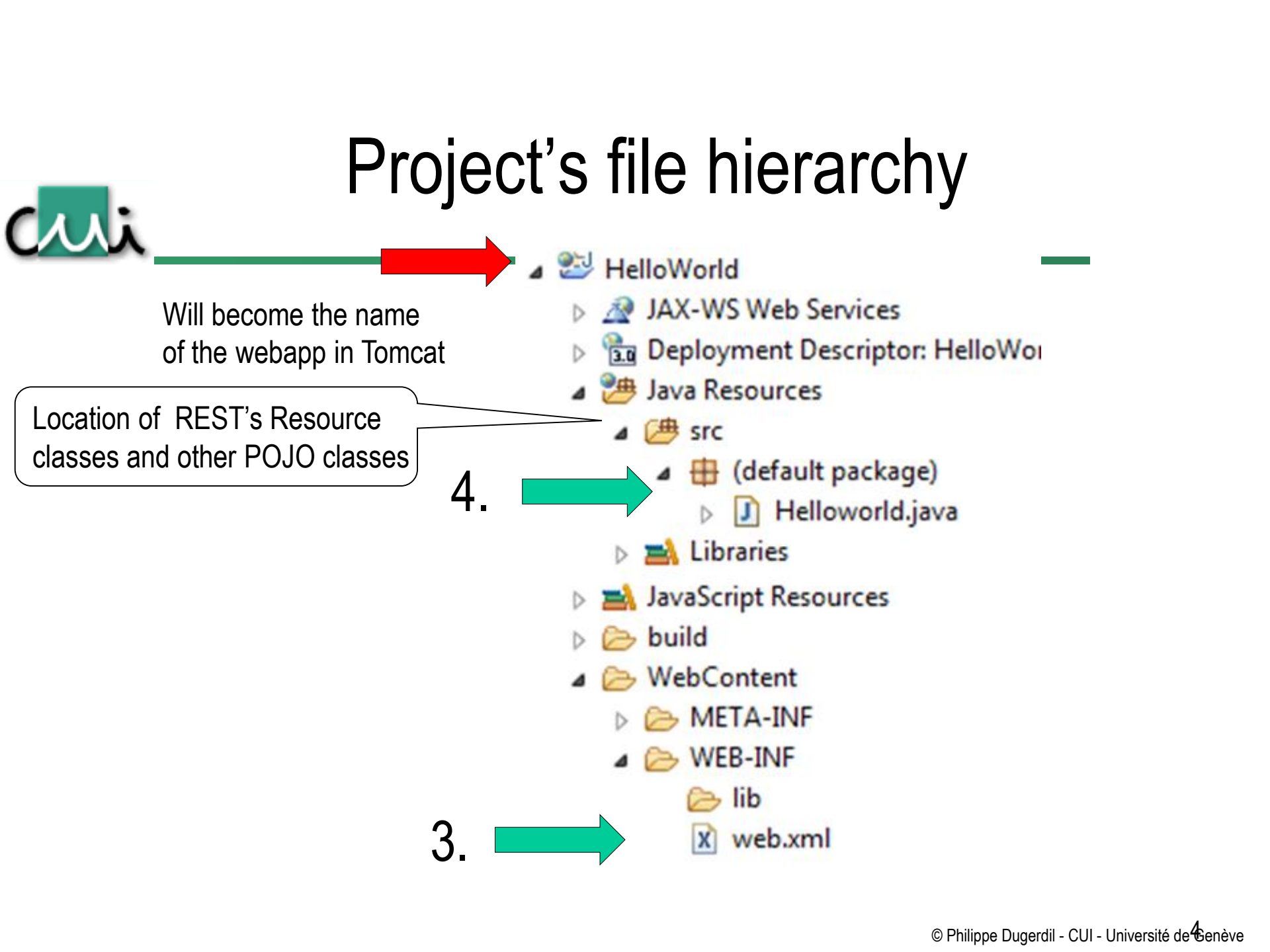
1. Launch Eclipse for JavaEE
2. Create a **Dynamic Web Project**
3. Copy or DragDrop the common web.xml file into
   `projectName/WebContents/WEB-INF/`
4. Populate the project with the application classes into
   `projectName/JavaResources/src/`
5. Export the project in `*.war` format
6. Deploy it on the server
7. Test it

2.

Specify the target system
to get the required runtime libraries (javax.ws.rs.*)



Project's file hierarchy



Will become the name of the webapp in Tomcat

Location of REST's Resource classes and other POJO classes

4.

3.

4. Application class

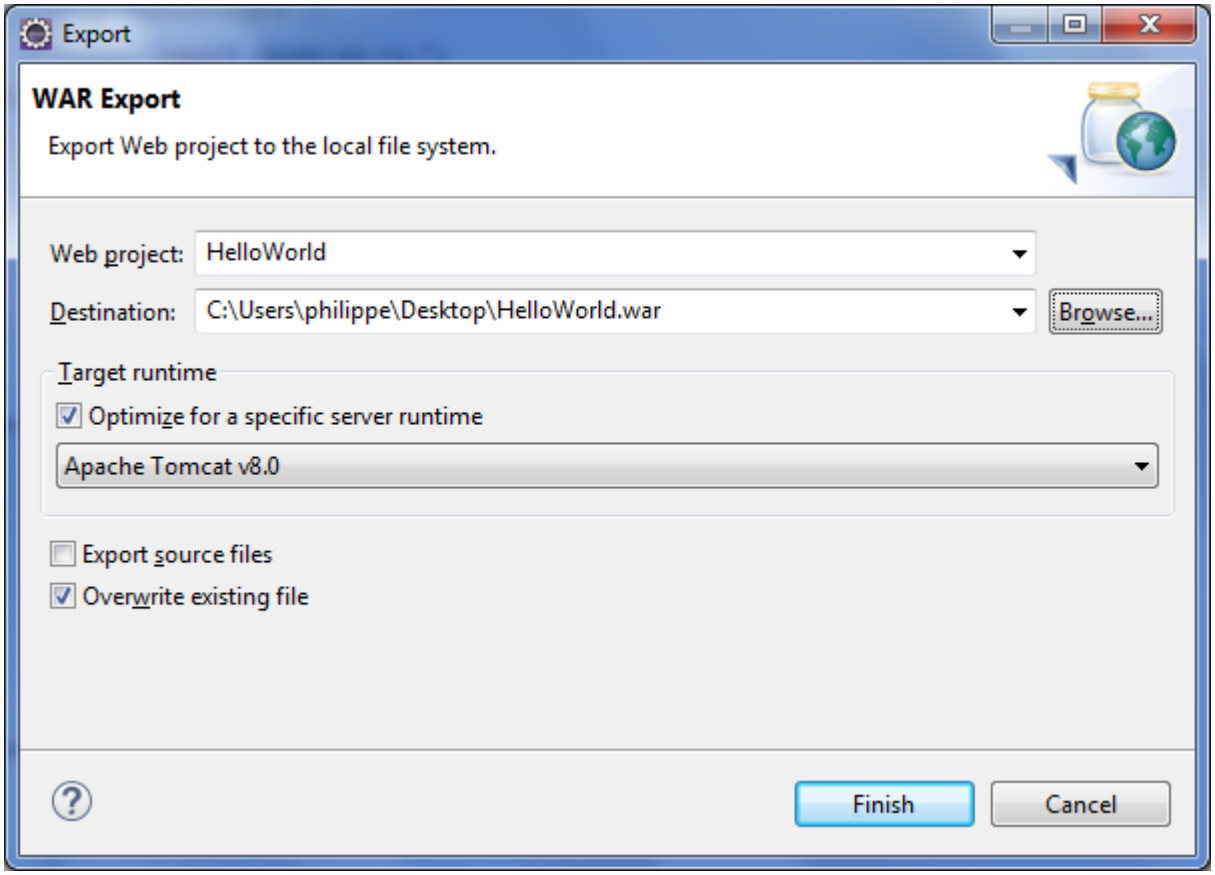
```
import javax.ws.rs.*;

@Path("/")
public class Hello {

@GET
@Path("helloworld")
public String getHelloTXT() {
        return "Hello World";
    }
}
```

Located in the TOMCAT server. This is why we must specify the target system at the web project creation

ProjectName = webapp name

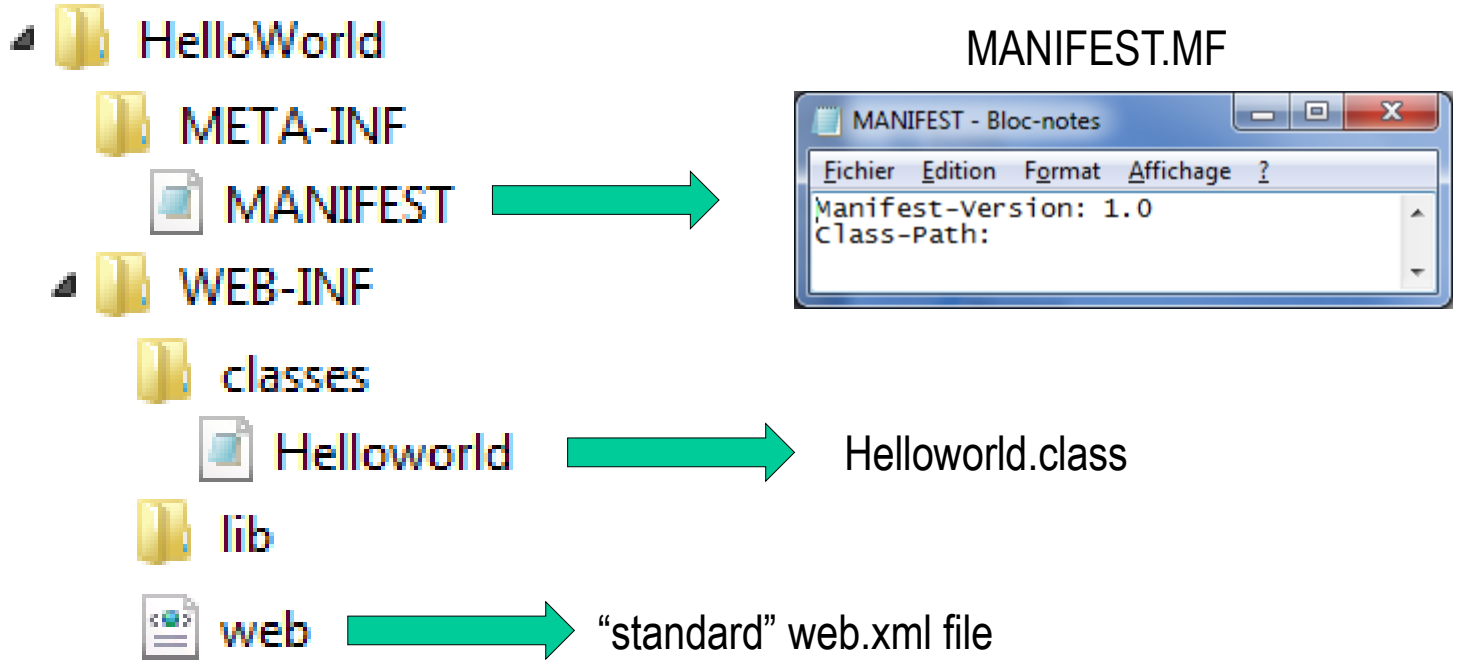
The URL will then be *domainName*/HelloWorld/helloworld

5. Exporting in *.war format

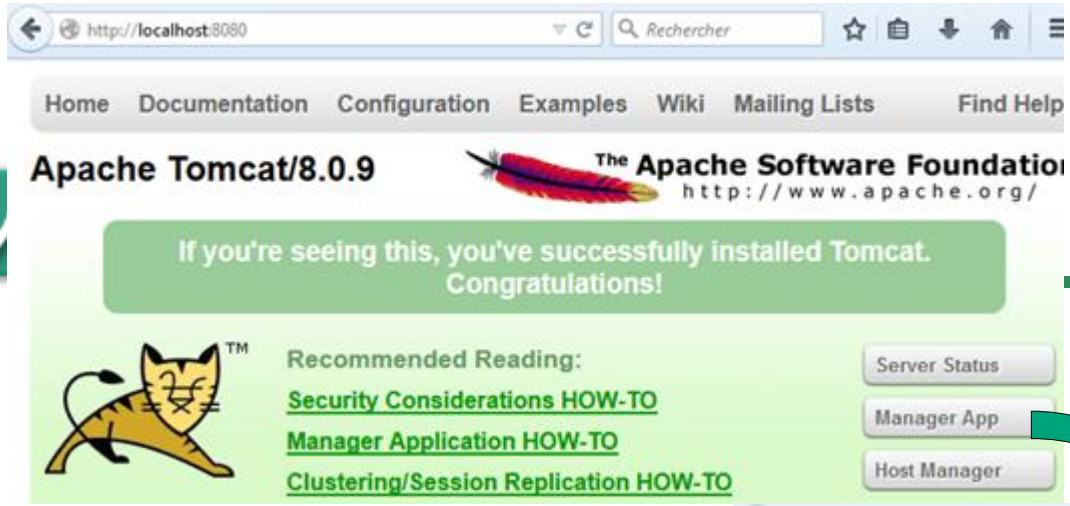


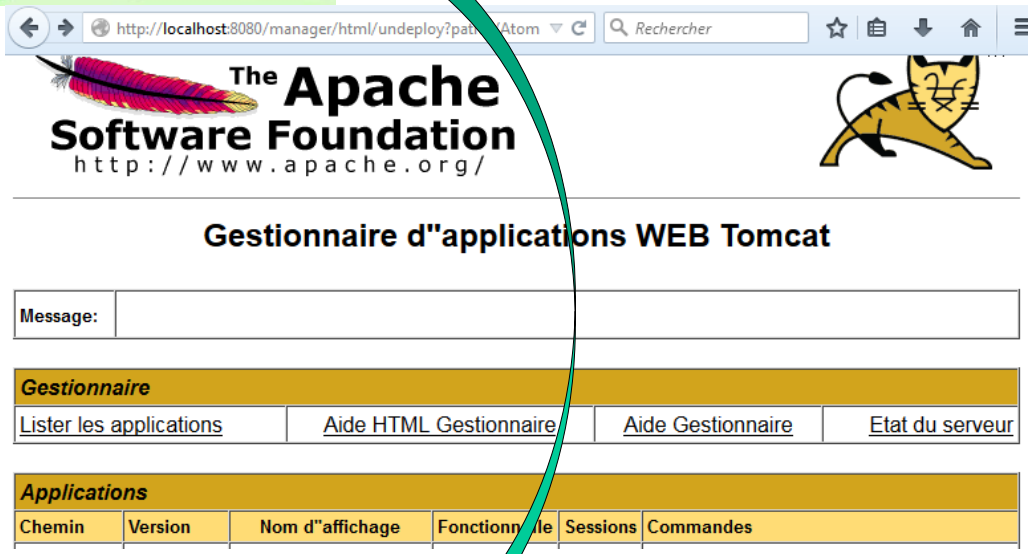
HelloWorld.war

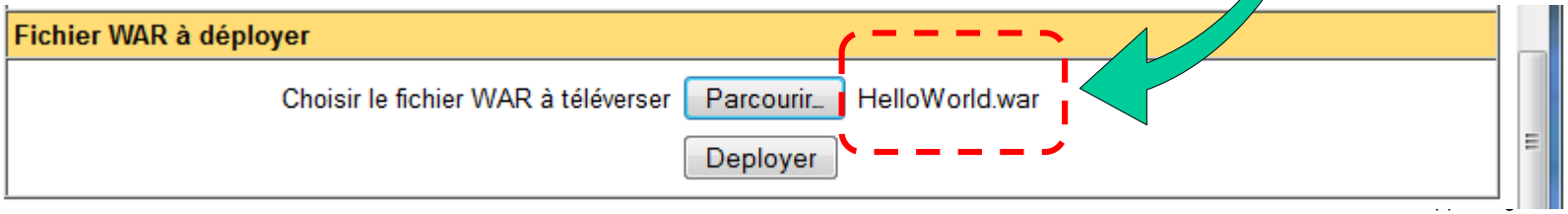
ZIP file with:



Deployment manager







6. Tomcat deployment

- Web application can be deployed either by:
  - Static deployment by copying files to the relevant Tomcat directories. The server must then be stopped to copy the files and restarted

  Or:

  - Dynamic deployment using the Tomcat manager. The apps must be exported in *.WAR format.

  Or:

  - Eclipse deployment: linking Eclipse to the server to deploy automatically from Eclipse

When a WAR archive is generated under Eclipse and deployed on Tomcat, the **java project name** becomes the name of the **/webapp subdirectory** (hence part of the path to the application).

Result

Gestionnaire d"applications WEB Tomcat

Message:	OK

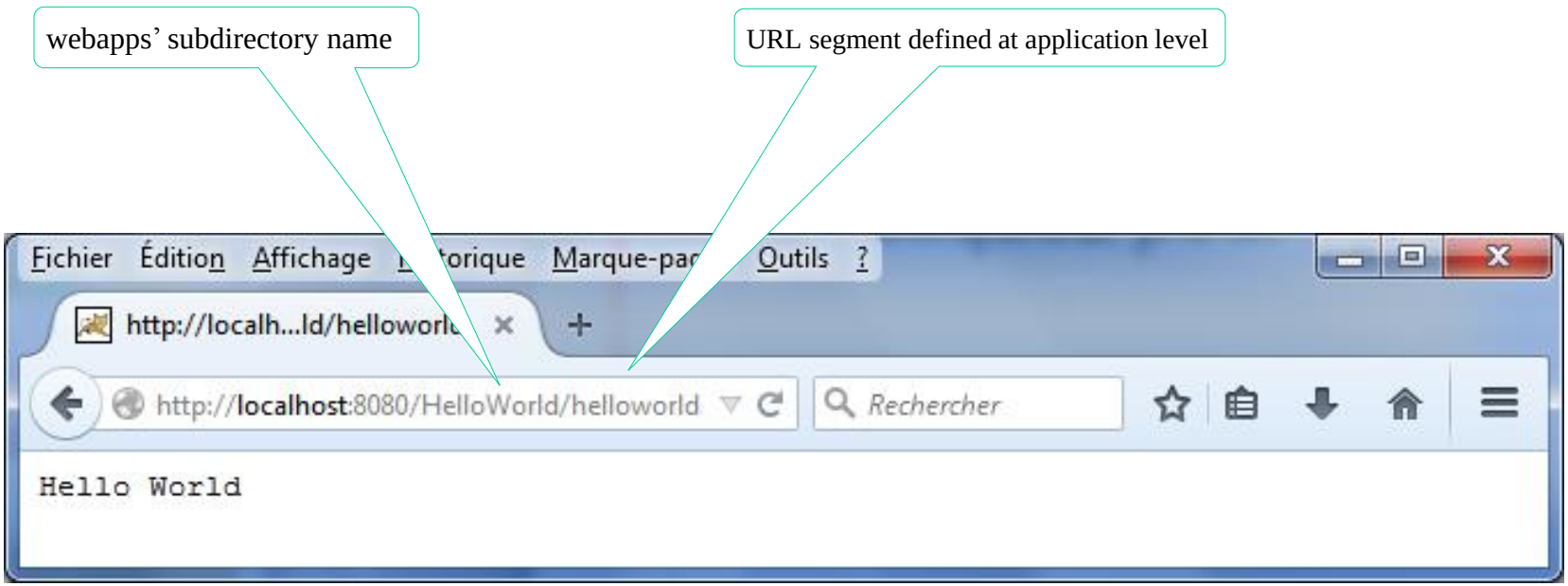
Gestionnaire			
Lister les applications	Aide HTML Gestionnaire	Aide Gestionnaire	Etat du serveur

Applications

Chemin	Version	Nom d"affichage	Fonctionnelle	Sessions	Commandes
/	*None specified*	Welcome to Tomcat	true	0	Démarrer Arrêter Recharger Retirer Expirer les sessions inactives depuis ≥ 30 minutes
/HelloWorld	*None specified*	RESTWebApp	true	0	Démarrer Arrêter Recharger Retirer Expirer les sessions inactives depuis ≥ 30 minutes

web.xml's <display-name>

Launching the app



Domain name: local machine ⟹ `localhost:8080`