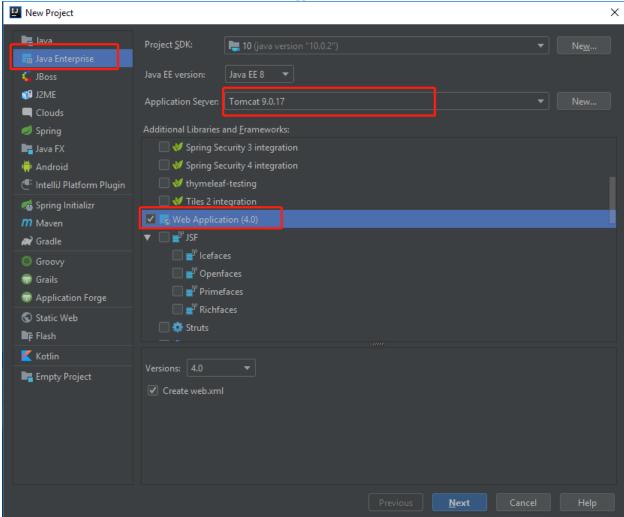
# Set up Intellij With Tomcat

# A.Download Tomcat and install. I use Tomcat 9 B.Create Dynamic Web Content Project(Plain Servlet & JSP)

# Creating a project #

- Click Create New Project on the Welcome screen, or select File | New | Project.
  The New Project wizard opens.
- 2. In the left-hand pane, select Java Enterprise.
- 3. Specify the JDK that you are going to use (the **Project SDK** field): select one from the list, click **New** and select the JDK installation folder, or click **Download JDK**.
- 4. Specify your application server. (We'll use Tomcat Server.)
- 5. Under Additional Libraries and Frameworks, select the Web Application checkbox.



Click Next.

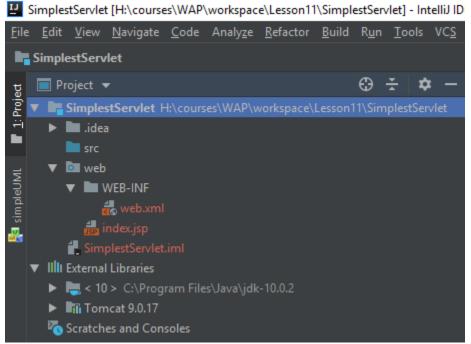
6. Specify the name for your new project (e.g. JavaEEHelloWorld).



Click Finish and wait while IntelliJ IDEA is creating the project.

# **Exploring the project structure #**

When the project is created, you'll see something similar to this in the **Project** tool window.



- SimplestServlet is a module folder (which in this case coincides with the project folder). The .idea folder and the file SimplestServlet.imlcontain configuration data for your project and module respectively. The folder src is for your Java source code. The folder web is for the web part of your application. At the moment this folder contains the deployment descriptor web.xml and the file index.jsp intended as a starting page of your application.
- External Libraries include your JDK and the JAR files for working with Tomcat.

# **Developing source code #**

Our application will be a single JSP page application. Its only function will be to output the text Hello, World!

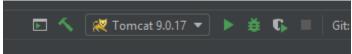
1. Open index.jsp for editing: select the file in the Project tool window and press F4.

2. Between <body> and </body> type Hello, World!

The code at this step is ready.

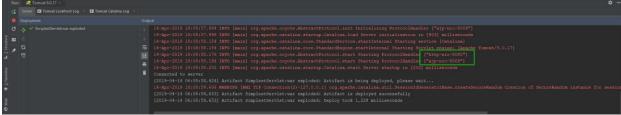
# Running the application #

In the upper-right part of the workspace, click .

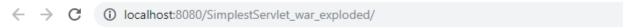


IntelliJ IDEA compiles your source code and builds an application artifact.

After that, the Run tool window opens. IntelliJ IDEA starts the server and deploys the artifact onto it.



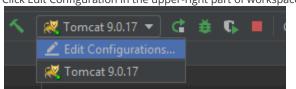
Finally, your default web browser starts and you see the application output Hello, World! there.



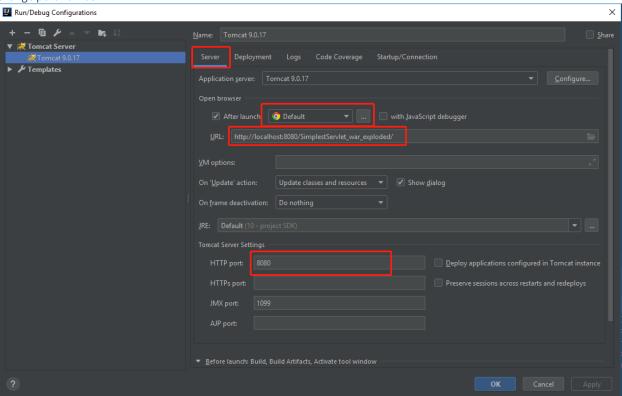
Welcome to CS472 Web Programming

# **Edit Configuration For Tomcat**

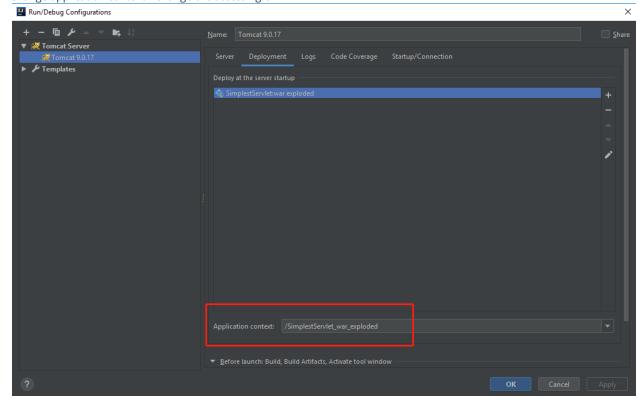
1. Click Edit Configuration in the upper-right part of workspace



2. Change port number



3. Change application context – change the accessing URL

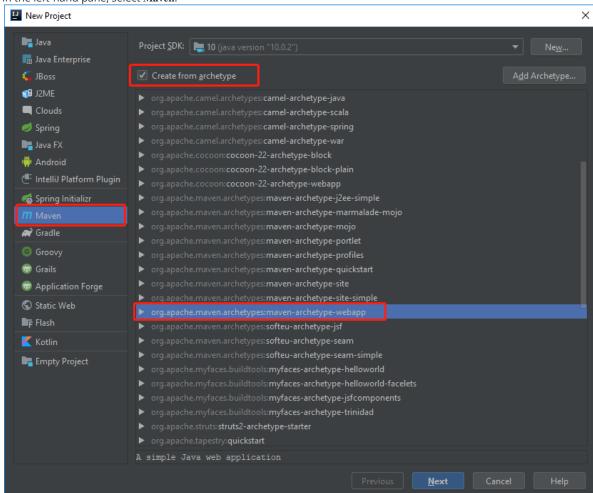


# **Create Maven Project**

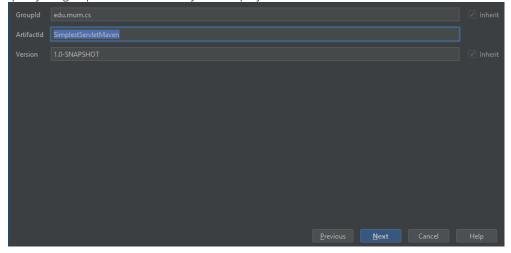
# Creating a project #

1. Click **Create New Project** on the Welcome screen, or select **File** | **New** | **Project**. The **New Project** wizard opens.

2. In the left-hand pane, select Maven.

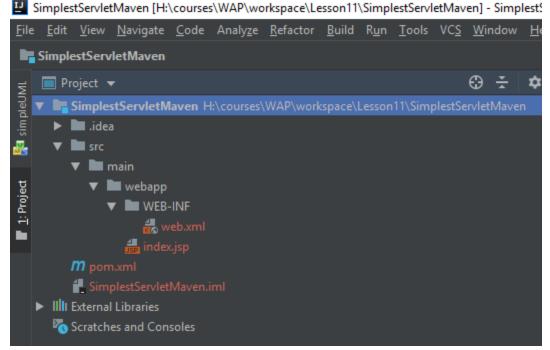


3. Specify the groupId and artifactid for your new project



# **Exploring the project structure #**

When the project is created, you'll see something similar to this in the Project tool window.



- SimplestServletMaven is a module folder (which in this case coincides with the project folder). The .idea folder and the file SimplestServletMaven.imlcontain configuration data for your project and module respectively. The folder src is for your Java source code. The folder web is for the web part of your application. At the moment this folder contains the deployment descriptor web-inf/web.xml and the file index.jsp intended as a starting page of your application.
- External Libraries include your JDK.

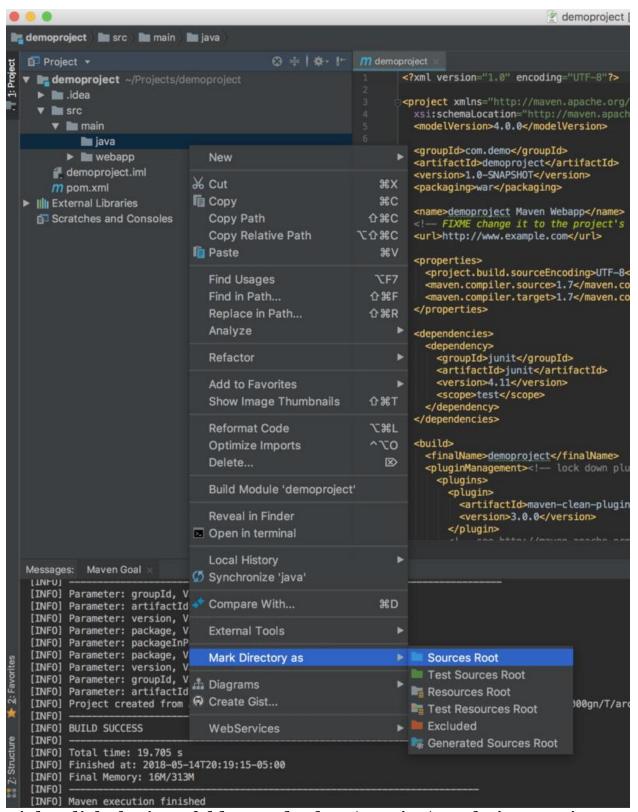
# **Developing source code #**

Our application will be a single JSP page application. Its only function will be to output the text Hello, World!

3. Add dependency in pom.xml

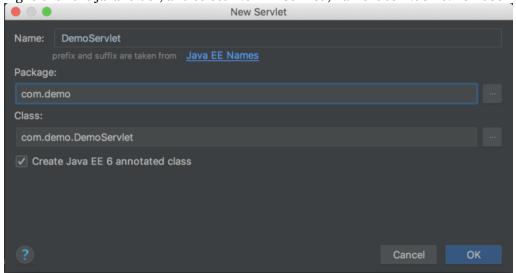
4. Create a servlet class

Firstly, create a new folder named java inside the src.main folder, then right-click the java folder, set it as sources root. If you don't do that, then the IntelliJ IDEA will not show 'Class' when we right-click and select 'New'.



Right-click the java folder, and select 'New'—'Servlet', name it com.demo.DemoServlet.

Right-click the java folder, and select 'New'—'Servlet', name it com.demo.DemoServlet.

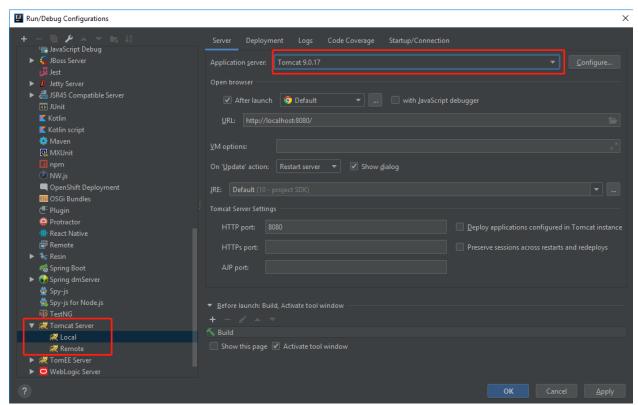


```
@WebServlet("/DemoServlet")
public class DemoServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    }

    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<h3>Hello World!</h3>");
    }
}
```

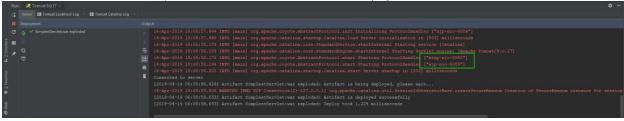
# Running the application #

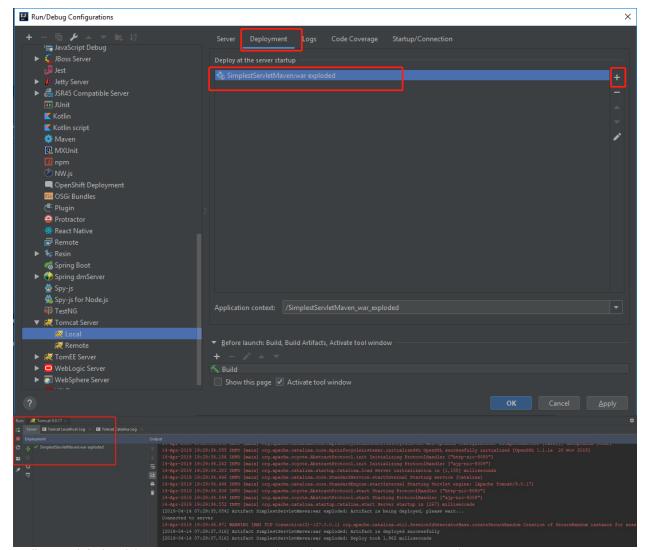
In the upper-right part of the workspace, click . Add Tomcat



IntelliJ IDEA compiles your source code and builds an application artifact.

After that, the Run tool window opens. IntelliJ IDEA starts the server and deploys the artifact onto it.





Finally, your default web browser starts and you see the application output Hello, World! there.

← → C (i) localhost:8080/SimplestServletMaven\_war\_exploded/DemoServlet

# Hello World!

# Credits:

https://www.jetbrains.com/help/idea/creating-and-running-your-first-java-ee-application.html https://medium.com/@backslash112/create-maven-project-with-servlet-in-intellij-idea-2018-be0d673bd9af