

Source Code Analysis

Munster Technological University

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1 Lab Assignment Maven Exercises

The purpose of the first lab exercise is to get familiar with Maven projects and a useful library (**JFreeChart**) that helps you to generate images (similar to matplotlib in Python).

JFreeChart is a free %100 Java chart library that makes it easy for developers to display professional quality charts in their applications. More details can be found at <https://www.jfree.org/jfreechart/>.

JFreeChart library can be found in Maven repositories at: <https://mvnrepository.com/artifact/org.jfree/jfreechart/1.5.2>

A piece of code is provided for you in Canvas to help you to get started with this library.

Please perform the following tasks:

1. Create a new Maven project and import the required XML snippets from the above link into the pom.xml file.
2. Create a new package and name it *week1*.
3. Create a new Java file in *week1* and name it *drawDiagram*.
4. Copy the code that is provided in Canvas into your new Java file.
5. Add the required Import statements in your Java file and run the code. A png file will be created and saved on your hard disk.
6. Find the png file and verify it with the hard-coded data in the code.

As mentioned above, the purpose of this lab is just to get started with Maven and a useful library. Try to change the features of the diagrams and UI and familiarize yourself with the project.

Note, once you added a new library in pom.xml and saved it, the library should have appeared in the project, if not, right-click on the project hover on Maven, and press Update Project. See Figure 1

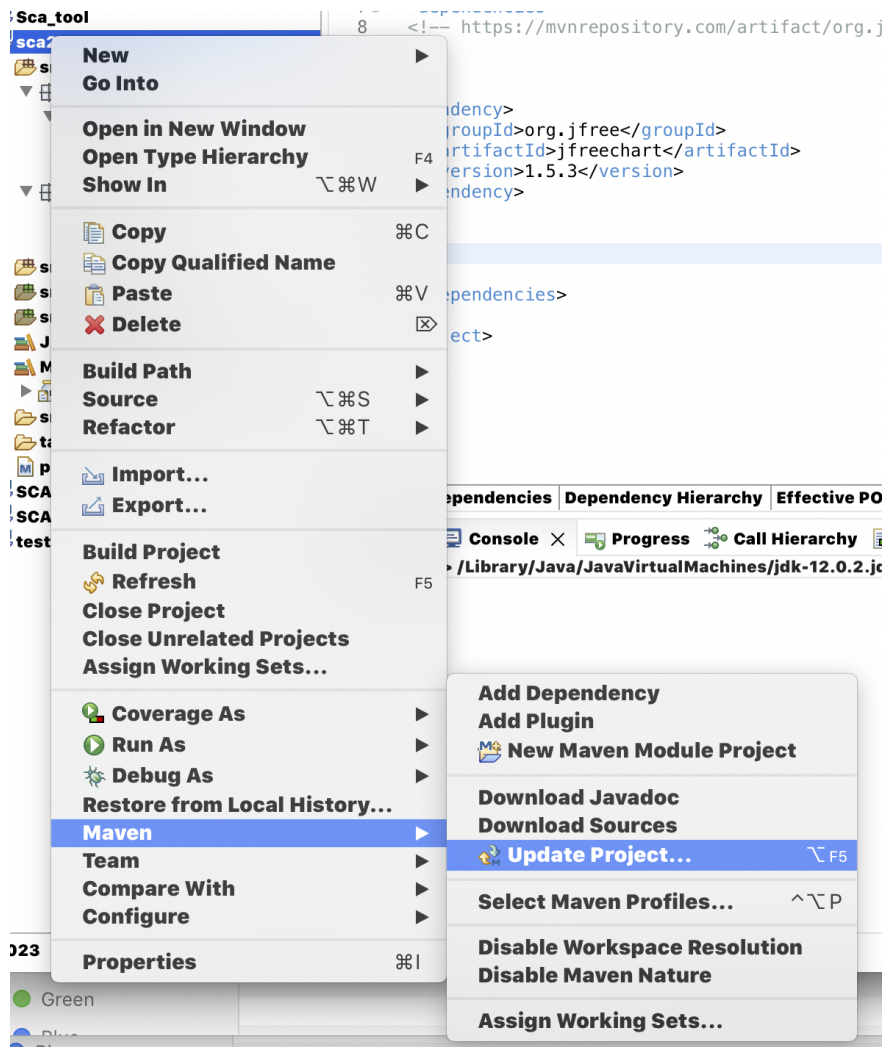


Figure 1: Update Libraries in Maven.