User Guide

In order to use the project, one must have the Eclipse IDE downloaded, along of course with the Java programming language. After the downloading of the project, you must import it in the eclipse as an “Existing Projects into Workspace”.

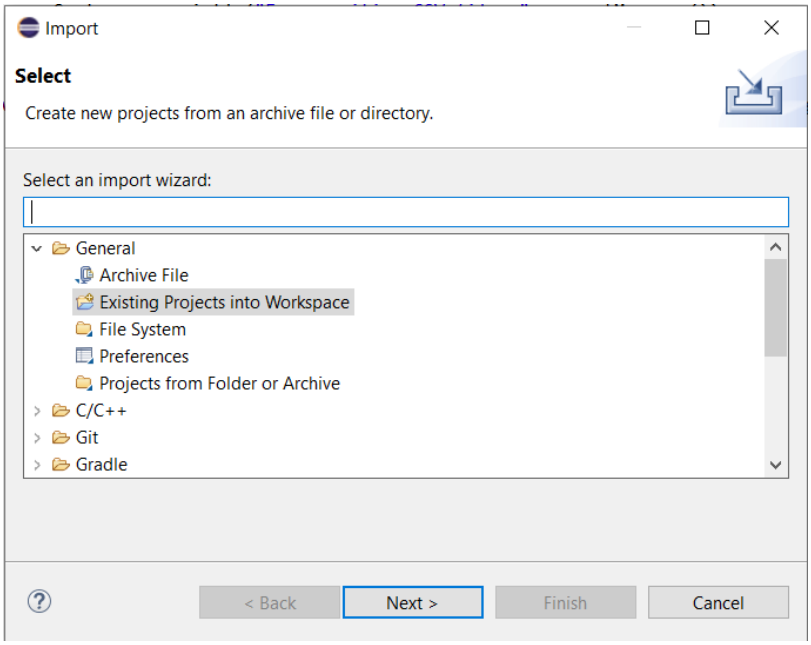

Image 1 – Importing the project.

After the import, you must add some needed jar files in order for the project to work. These files can be found in the plugins folder. In order to open the “Properties for SmellDetector” window, right-click on the project, click on “Build Path” and then on “Configure Build Path…”. There on the “Libraries” tab, by clicking first on the “Classpath” and then on the “Add External JARs” you can add the needed jar files.

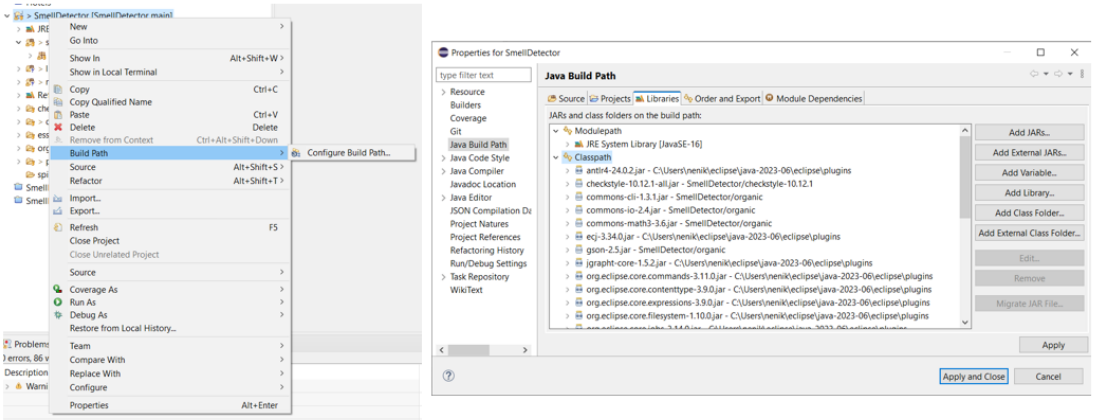

Image 1 – Adding the necessary JAR files.

Once this process is over you can run the project. As described in Section 4 a window will open, so that you can add the path to the project you wish to analyze. After filling in the fields you can click on the “Select Smell Detector” button to select the smell detector tool. It should be noted that it will be better if the paths do not include characters from other languages, only English. A new window will be opened where you can choose a smell detector. There are 5 options, All Smells, PMD, Organic, DuDe and Checkstyle.

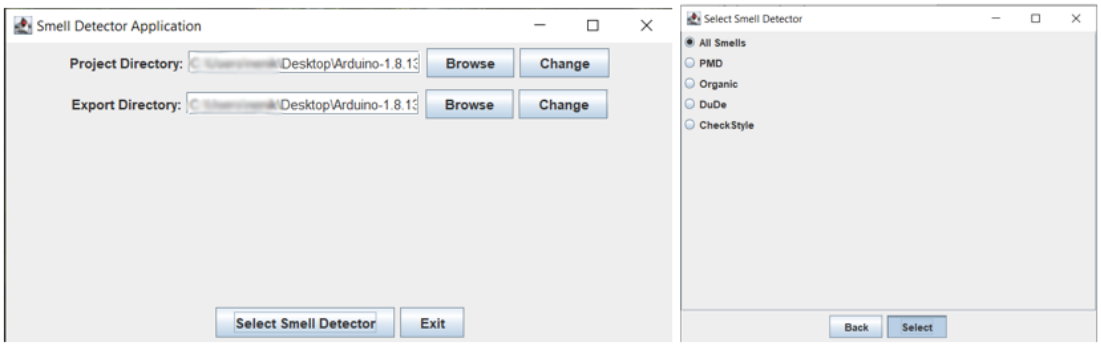

Image 3 – Using the Smell Detector Application.

After the completion of the detection process a pop-up message will notify you. Once you click the OK button, the project automatically exports the results in CSV files in the selected export directory. At the same time the app shows the results in a table in a new window.

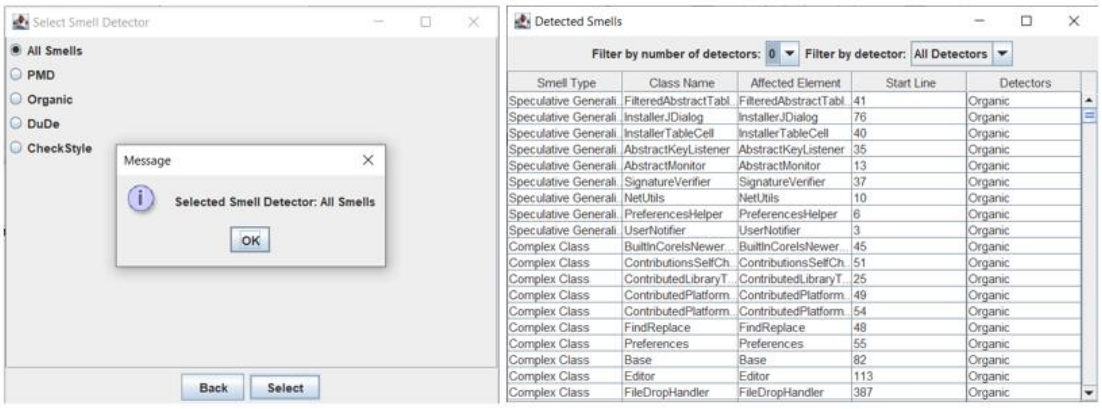

Image 4 – Showing the results after the detection is completed.

In the new window “Detected Smells”, there are two filters for the smells. The first one filters by number of detectors that found one smell and it has 4 choices, 0, 2, 3 and 4. “0” means no filter, 2 that 2 detectors found a smell, 3 that 3 detectors found a smell and 4 that all the detectors found the smell. The second filter keeps the smells that were detected by a specific detector.