Installing Checkstyle on an IDE is a straightforward process. For **Eclipse**, the process begins by accessing the **Eclipse Marketplace**, a platform where you can find various software development plugins and tools. Within the marketplace, search for 'Checkstyle' in the search bar. Once located, click on 'Install' to install the plugin which is followed by agreeing to the terms and conditions before the plugin is accessible in the eclipse environment. After installing, the next step consists of configuring the plugin by aligning the settings to the desired coding convention. For our project, the coding convention that was tested against is, Google checks.
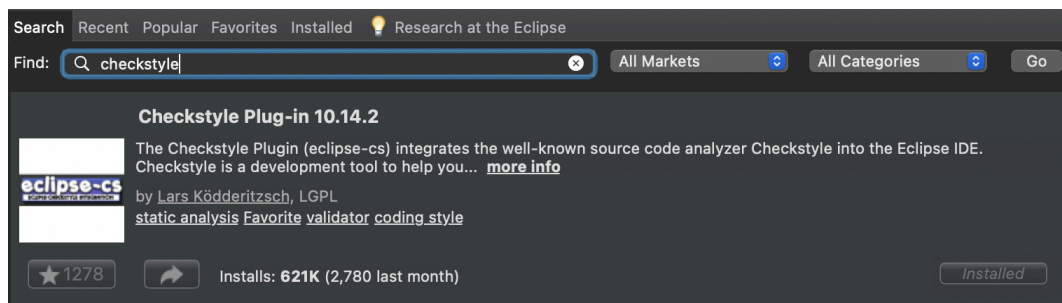

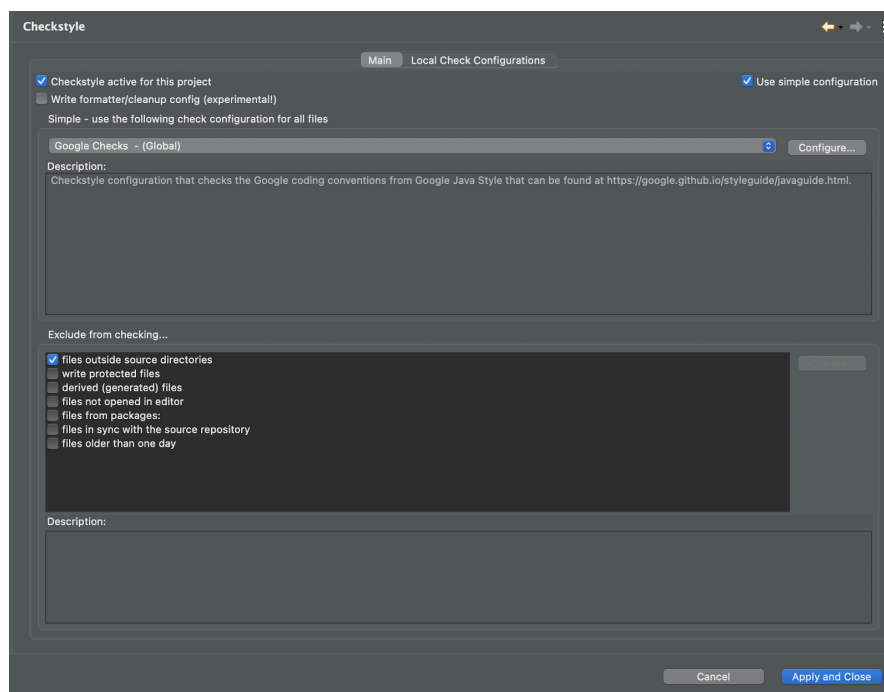*Figure 1: Checkstyle installation process screenshot*

Figure 2: Checkstyle configuration screenshot

Once the settings have been configured, the activation process is quite simple, right click on the project and click on 'Activate Checkstyle'. Upon activation, Checkstyle is integrated to the project and begins analyzing the java code in real time. The results of

the analysis are presented at the bottom of the ide on a tab called 'Checkstyle Violations' where the plugin provides the 'Violation Type', the occurrences and where the violation occurs.
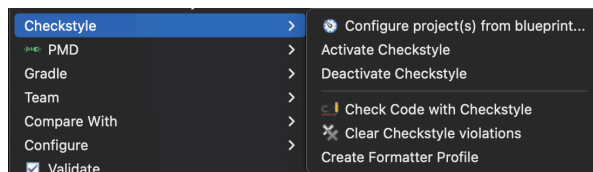

Figure 3: Checkstyle execution screenshot

Figure 4: Checkstyle violations bugs results