

ESCUELA SUPERIOR PÓLITECNICA DEL LITORAL

WORKSHOP OF CODING STANDARDS

AUTORES:

- AGUILAR MORA OSWALDO
- BERMUDEZ MOREIRA KAREN
- BERNAL MOREIRA GUILLERMO
 - ORTIZ HOLGUIN EDUARDO
 - WONG PAVON HUGO

SUBJECT: ING. SOFTWARE II

TUTOR: DR. MERA CARLOS

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1. Abstract

This document contains the technical report corresponding to the first group workshop called "WORKSHOP OF CODING STANDARDS" of GROUP#4 belonging to the SOFTWARE II ENGINEERING course of 2020-PAO I.

The report contains a description of the workshop, the code, the JAVA implementation and the checklist reports.

2. Description

Checkstyle is an open source tool that enforces coding conventions and best practice rules for Java code. It automates the process of checking Java code to spare humans of this boring (but important) task. This makes it ideal for projects that want to enforce a coding standard.

Checkstyle can check many aspects of your source code. It can find class design problems, method design problems. It also can check code layout, formatting issues and generate projectwide reports that summarize the breaches found. Checkstyle provides many checks that you can apply to your source code:

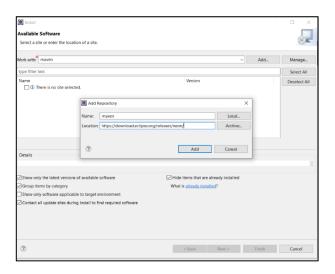
- Annotations
- Block Checks
- Class Design
- Coding
- Headers
- Imports
- Javadoc Comments

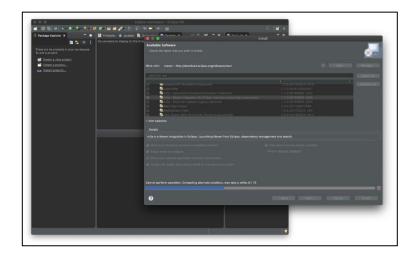
- Metrics
- Miscellaneous
- Modifiers
- Naming Conventions
- Regexp
- Size Violations
- Whitespace

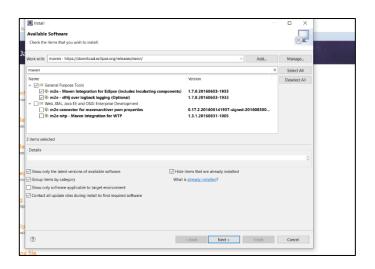
There are several ways to use this tool, including the command line and build automation tools. In this lab, Eclipse will be used in conjunction with Maven to facilitate the use of Checkstyle.

3. Activity Screenshots

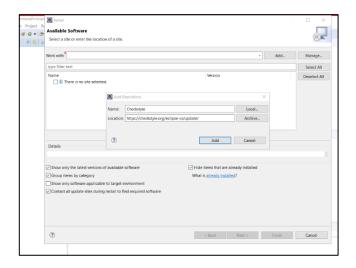
3.1. Part 1: Install Maven for Eclipse.

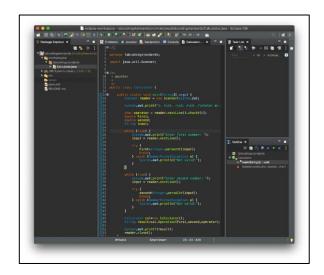


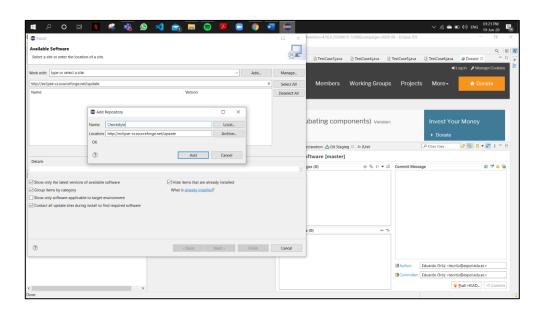


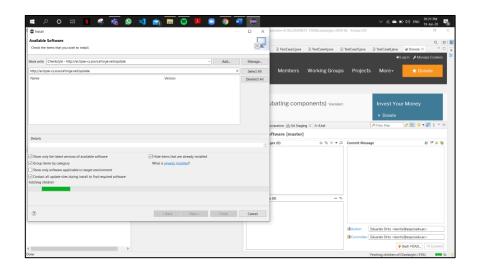


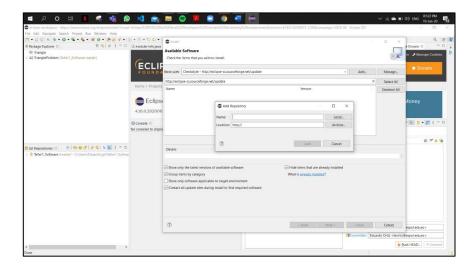
3.2. Part 2: Install the Eclipse Checkstyle plug-in

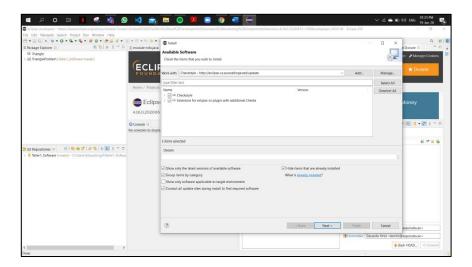


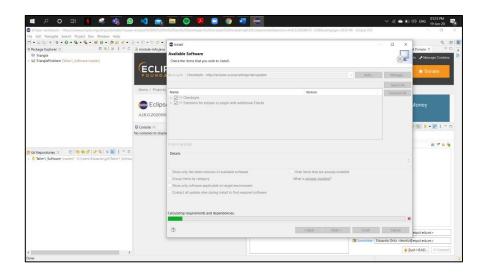


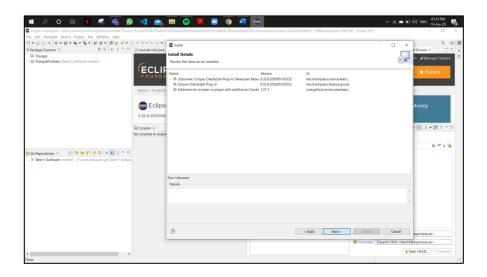


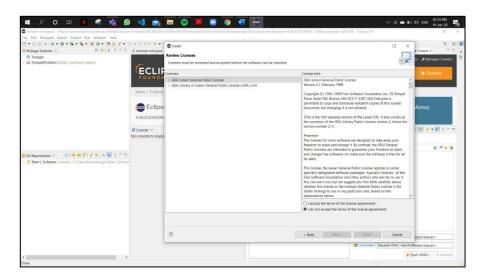


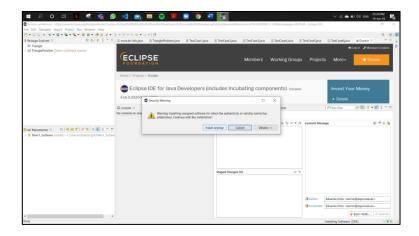












3.3. Implementation

4. Conclusions

- This plug-in is a usefull tool to the implementation.
- Checklist improve the process of error identification.
- In case of reboot of eclipse the checklist should be activated again.