Lab Report G4

GIT REPO: https://github.com/rarivera14/CodingStandards

Students:

- Ricardo Aurelio Rivera Guerra
- Walter Alfredo Santacruz Astudillo
- Ricardo Alejandro Villacis Rivadeneira

Objectives:

- Use Checkstyle as code quality metric tool to detect and enforce Java coding standards
- Obtain a html report with the different detected issues in the code using Maven.

Requirements:

- Eclipse IDE for Java Developers >= 2021-03 Download from Eclipse || Get executable
- Git

Introduction:

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 project-wide 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

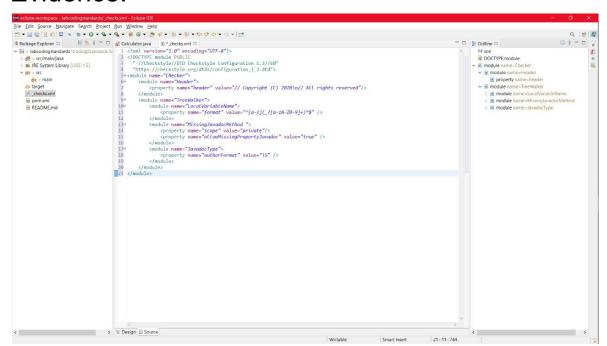
- Size Violations
- Whitespace

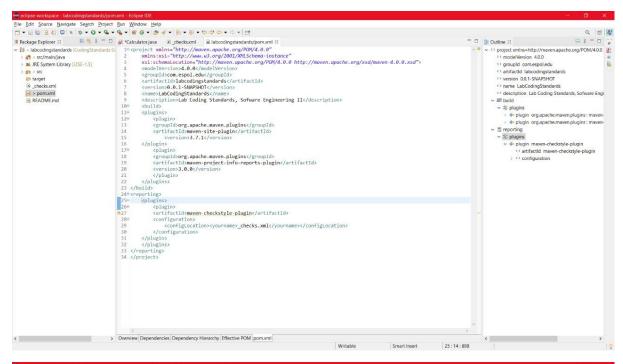
There are several ways to use this tool, including the command line and build automation tools. In this lab, Eclipse will be used in conjunction with Maven to facilitate the use of Checkstyle.

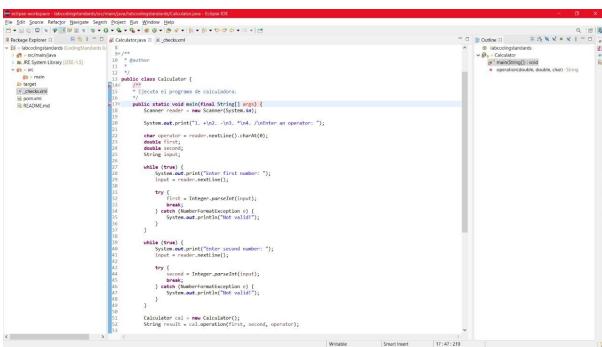
Steps:

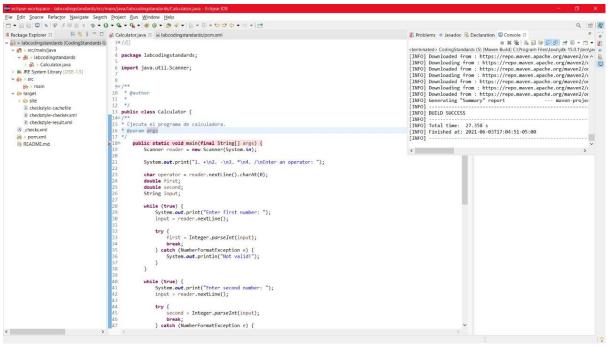
- 1. We first need to set up the checkstyle plugin by adding it to the global preferences.
- 2. Then we make another file to add a local preference set up for maven
- 3. We add all the rules we want to the maven XML file
- 4. We build the project with maven
- 5. Then we check for all of the possible warnings that appear because of the rules we added to the XML file and also check the report file.
- 6. We fix any warnings
- 7. We compile again and then get the final report file with no errors.

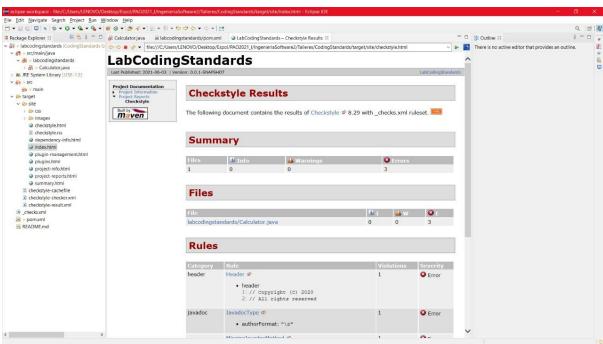
Evidence:

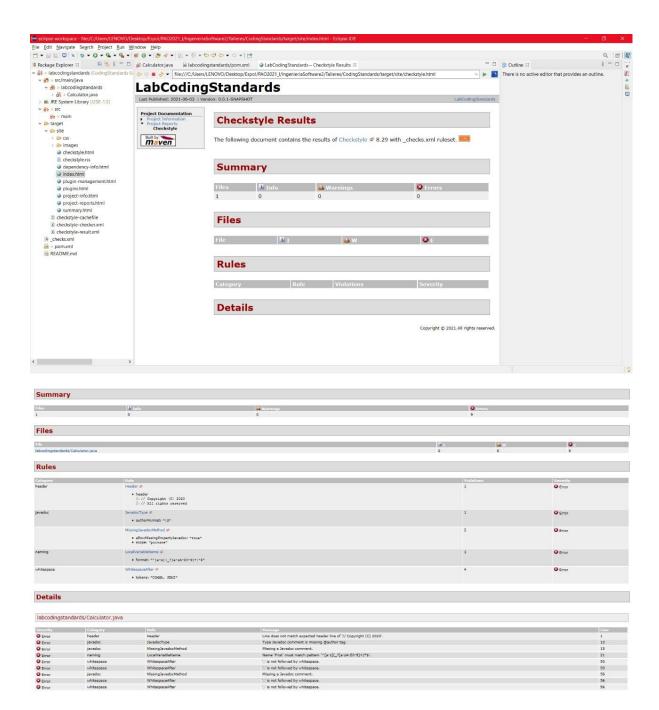


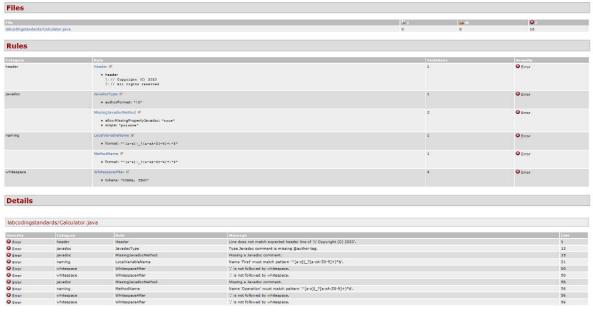












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Project Documentation

Project Information

Project Reports
Checkstyle

maven



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