CHECKSTYLE-IDEA GUIDE

Ref: QLT_PFE_2023_16

Version 1.0.0 PFE Équipe 16 2023/2024

Document Supervisor : Paul TRÉMOUREUX

Document status: Validated

Date	Actions	Author	Version	Reviewing
13/10/2023	Document creation	Paul TRÉMOUREUX	0.0	1
22/12/2023	Add of the configuration part	Paul TRÉMOUREUX	0.0	2
11/01/2024	Completion of the configuration part	Paul TRÉMOUREUX	0.0	3
11/01/2024	Proofread of the document	Marie BORDET	0.1	0
11/01/2024	Correction following the proofread	Paul TRÉMOUREUX	0.1	1
11/01/2024	Proofread of the document	Marie BORDET	0.2	0
11/01/2024	Validation of the document	Paul TRÉMOUREUX	1.0	0

Table 1: Table of internal document changes and approvals

CONTENU

1. Int	troduciton	. 4
	.1. Document Objectives	
	1.2. SonarLint Version	
	tellij IDEA IDE	
	2.1. Target	
	2.2. Installation	
	2.3. Configuration	

1. Introduciton

1.1. DOCUMENT OBJECTIVES

The purpose of this document is to help team members to set-up Checkstyle-IDEA on IntelliJ IDEA 2023.2.2. This guide will detail all the steps to install and configure Checkstyle-IDEA from scratch.

1.2. CHECKSTYLE VERSION

This guide has been written for Checkstyle-IDEA 5.84.0. The team PFE_2023_16 does not guarantee the right functioning for other versions of Checkstyle-IDEA.

Version 0.0.3 Page 4/7

2. INTELLIJ IDEA IDE

2.1. TARGET

This guide has been written for IntelliJ IDEA 2023.2.2 Windows. The team PFE_2023_16 does not guarantee the right functioning for other versions of IntelliJ IDEA.

2.2. Installation

In order to install Checkstyle-IDEA on IntelliJ IDEA follow the steps below:

- Start IntelliJ IDEA IDE
- Click on Main Menu > File > Settings > Plugins > MarketPlace
- Write "Checkstyle-IDEA" in the search bar
- Click on "Checkstyle-IDEA" > Install
- Restart IntelliJ IDEA IDE

2.3. Configuration

During the project some of the Checkstyle-IDEA rules would not be respected.

2.3.1. SUN CHECKS

During Sun Checks, the following rules would not be respected:

JavadocType

Some exceptions to compliance with the rules are accepted for test artifacts.

Some exceptions to compliance in artifacts are accepted for the MagicNumber rule.

Each accepted exception should be discussed with the Product Owner.

2.3.2. Google Checks

During Google Checks, the following rules would not be respected:

CustomImportOrder

Some exceptions to compliance with the rules are accepted for test artifacts.

Some exceptions to compliance in artifacts are accepted for the MagicNumber rule.

Each accepted exception should be discussed with the Product Owner.

2.3.3. Create configuration

This guide has been written for Eclipse IDE for JAVA 2022/2023. The team PFE_2023_16 does not guarantee the right functioning for other versions of Eclipse IDE for JAVA.

Version 0.0.3 Page 5/7

In order to create a new configuration and use it in IntelliJ IDEA you must install Eclipse IDE for JAVA and then follow the steps below:

- Help > Eclipse MarketPlace
- Write "Checkstyle Plug-in" in the search bar
- Click on "Checkstyle Plug-in 10.10.0" by Lars Ködderitzsch > Install
- Restart Eclipse IDE for JAVA
- Window > Preference > Checkstyle

To create from scratch:

- Global Check Configurations > "New..."

To create from an existing one:

- Global Check Configuration > Click on the existing configuration you want to copy > "Copy..."

Then follow the steps below:

- Select type "Internal Configuration"
- Write the name of your configuration in the search bar
- Click on "OK"

2.3.4. Modify configuration

To modify your configuration follow the steps below:

- Click on the configuration you want to modify > "Configure..."
- For each rule you want to add > select the rule > "Add...->" > Complete the configuration if needed in "General" and in "Advanced" > "OK"
- "OK" > "Apply and Close"

2.3.5. EXPORT CONFIGURATION

In order to export a configuration from Eclipse IDE for JAVA you must follow the steps below:

- Window > Preference > Checkstyle
- Click on the configuration you want to export > "Export..."
- Put the file in the right folder > Add a name > Put ".xml" at the end of the name > Validate

2.3.6. IMPORT CONFIGURATION IN INTELLIJ IDEA

In order to import a configuration in IntelliJ IDEA you must follow the steps below:

- Open IntelliJ IDEA
- File > Settings > Tools > Checkstyle > Configuration File > +
- Write the name of your configuration in the search bar
- "Use a local Checkstyle file" > "Browse" > Select the configuration in your files > "Next" > "Finish" > "Apply" > "OK"

Version 0.0.3 Page 6/7

2.3.7. V3 ADAPTED CONFIGURATIONS

For the v3 of MNJS project, two adapted configurations have been created. Each one being an adaptation of Google Check configuration and Sun Check configuration. The modifications done in the adapted configuration are the exceptions listed in part 2.3.1 and 2.3.2.

The adapted configuration are findable on the project GitLab in "/doc/v3/documentation/quality/models" under the names:

- "Google_Checks_adapt_for_MNJS_v3.xml"
- "Sun_Checks_adapt_for_MNJS_v3.xml"

Version 0.0.3 Page 7/7