Compte rendu SonarQube

SonarQube est un logiciel libre développé par la société Sonarsource permettant de mesurer la qualité du code source. SonarQube supporte plus de 25 langages comme le C, C++, C#, PHP, JavaScript ou Java.

Installation de sonaeQube

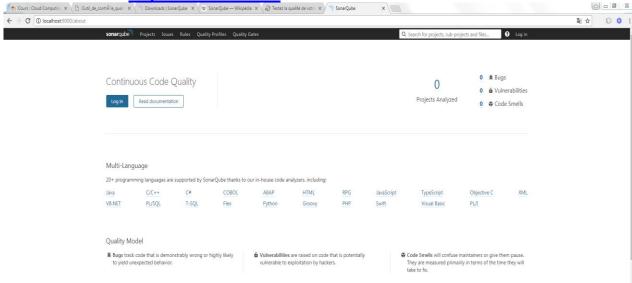
1- Apres avoir deziper le fichier sonarquebe-6.7.zip et lancer la commande :

C:\sonarqube-6.7\bin\windows-x86-32>StartSonar.bat

```
Défilement SonarQube
   wrapper
 wrapper
jvm 1
jvm 1
 jvm
 jvm 1
jvm 1
jvm 1
                           WARNING — Unable to load the Wrapper's native library 'wrapper.dll'.

The file is located on the path at the following location b
                                                    could not be loaded:
C:\sonarqube-6.7\bin\windows-x86-32\.\lib\wrapper.dll
Please verify that the file is readable by the current user
 jvm
 jvm 1
jvm 1
                                                    and that the file has not been corrupted in any way.
One common cause of this problem is running a 32-bit versio
 jvm 1
jvm 1
 jvm 1
                                                    of the Wrapper with a 64-bit version of Java, or vica versa
 jvm 1
jvm 1
    jvm 1
jvm 1
jvm 1
jum 1 |
jum 1 |
jum 1 |
jum 1 | 2017.12.05 14:39:57 INFO app[l[o.s.a.AppFileSystem] Cleaning or crea
ting temp directory C:\sonarqube-6.7\temp
jum 1 | 2017.12.05 14:39:57 INFO app[l[o.s.a.es.EsSettings] Elasticsearch li
stening on /127.0.0.1:9001
jum 1 | 2017.12.05 14:39:57 INFO app[l[o.s.a.p.ProcessLauncherImpl] Launch p
rocess[[key='es', ipcIndex=1, logFilenamePrefix=es]] from [C:\sonarqube-6.7\elas
ticsearch]: C:\Program Files\Java\jre1.8.0_131\bin\java -XX:+UseConcMarkSweepGC
-XX:CMSInitiatingOccupancyFraction=75 -XX:+UseCMSInitiatingOccupancyOnly -XX:+Al
waysPreTouch -server -Xss1m -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djna
.nosys=true -Djdk.io.permissionsUseCanonicalPath=true -Dio.netty.noUnsafe=true -
Dio.netty.noKeySetOptimization=true -Dio.netty.recycler.maxCapacityPerThread=0 -
Dlog4j.shutdownHookEnabled=false -Dlog4j2.disable.jmx=true -Dlog4j.skipJansi=tru
e -Xms512m -Xmx512m -XX:+HeapDumpOnOutOfMemoryError -Delasticsearch -Des.path.ho
me=C:\sonarqube-6.7\elasticsearch -cp lib/* org.elasticsearch.bootstrap.Elastics
earch -Epath.conf=C:\sonarqube-6.7\temp\conf\es
jvm 1 | 2017.12.05 14:39:57 INFO app[l[o.s.a.SchedulerImp1] Waiting for Elas
ticsearch to be up and running
jvm 1 | 2017.12.05 14:39:57 INFO app[l[o.e.p.PluginsService] no modules load
ed
 jvm 1 | 2017.12.05 14:39:57 INFO app[][o.e.p.PluginsService] loaded plugin [
org.elasticsearch.transport.Netty4Plugin]
jvm 1 | 2017.12.05 14:40:06 INFO app[][o.s.a.SchedulerImp]] Process[es] is u
 ł 2017.12.05 14:41:11 INFO app[][o.s.a.SchedulerImp]] SonarQube is up
 ium 1
```

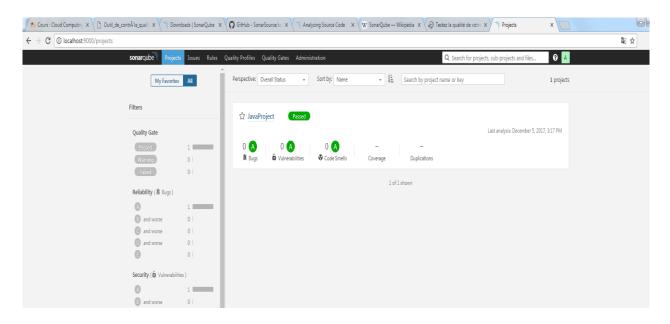
La connexion au http://localhost:9000:



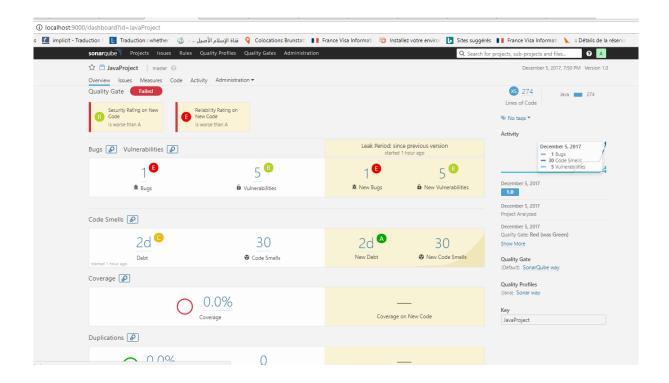
1- Execution du sanner

```
INFO: User cache: C:\Users\c1701639\.sonar\cache
INFO: User cache: C:\Users\c1701639\.sonar\cache
INFO: Load plugins index
INFO: Load plugins index
INFO: Load plugins index
INFO: Sonar@ube server 6.7.8
INFO: Sonar@ube server 6.7.8
INFO: Sonar@ube server 6.7.8
INFO: Default locale: "Fr_FR", source code encoding: "windows-1252" (analysis is platform dependent)
INFO: Load gendent)
INFO: Load gendert properties
INFO: Load project repositories (done) ! time=0ms
INFO: Load project repositories
INFO: Load guality profiles (done) ! time=16ms
INFO: Load active rules
INFO: Load active rules (done) ! time=610ms
INFO: Load active rules (done) ! time=16ms
INFO: Load metrics repository
INFO: Load metrics repository
INFO: Load metrics repository
INFO: Load metrics repository
INFO: Load server rules (done) ! time=93ms
INFO: Project key: JavaProject
INFO: Project key: JavaProject
INFO: Load server rules (done) ! time=93ms
INFO: Load server rules (done) ! time=93ms
INFO: Base dir: C:\sonar-scanner-3.0.3.778-windows\bin
INFO: Working dir: C:\sonar-scanner-3.0.3.778-windows\bin
INFO: Working dir: C:\sonar-scanner-3.0.3.778-windows\bin
INFO: Working dir: C:\sonar-scanner-3.0.3.778-windows\bin
INFO: Source encoding: windows-1252, default locale: fr_FR
INFO: Index files
INFO: Index files
INFO: Index files
INFO: Index files
INFO: Source encoding: windows-1252, default locale: fr_FR
INFO: Index files
INFO: Sonar-scanning-examples-master\sonarqube-scanner-maven\app_java\scandiffication (c:\sonar-scanner-3.0.3.778-windows\bin\)
INFO: Sonar-scanner-3.0.3.778-windows\bin\
INF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   _ D X
         C:\Windows\system32\cmd.exe
INFO: ANALYSIS SUCCESSFÜL, you can browse http://localhost:9000/dashboard/index/
JavaProject
INFO: Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
INFO: More about the report processing at http://localhost:9000/api/ce/task?id=A
WANBLiCVUyX6eQX388U
INFO: Task total time: 2.698 s
INFO: ----
INFO: EXECUTION SUCCESS
INFO: Total time: 3.854s
INFO: Final Memory: 50M/399M
INFO: ----
       C:\sonar-scanner-3.0.3.778-windows\bin>
```

2- Résultat de l'analyse de l'exemple fourni après exécution du scanner :

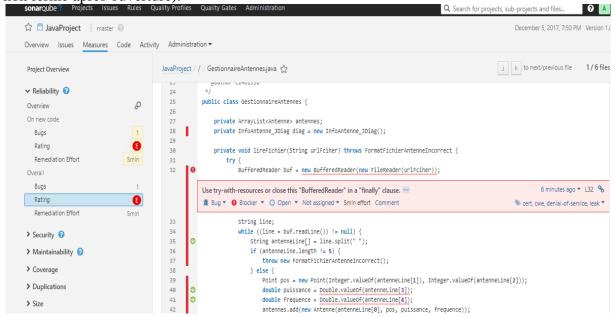


3- Utilisation de sonarQube pour analyser notre projet de réseaux mobile que nous développons en Java.



4- Sonar-scaner a analysé les 6fichiers que contient le projet avec le résultat suivant :

- Un bug trouvé dans le fichier GestionnaireAntennes.java ligne 32(BufferedReader non fermé après ouverture).



- Cinq cas de vulnérabilités



- 30 cas de non respect des règles de développement

