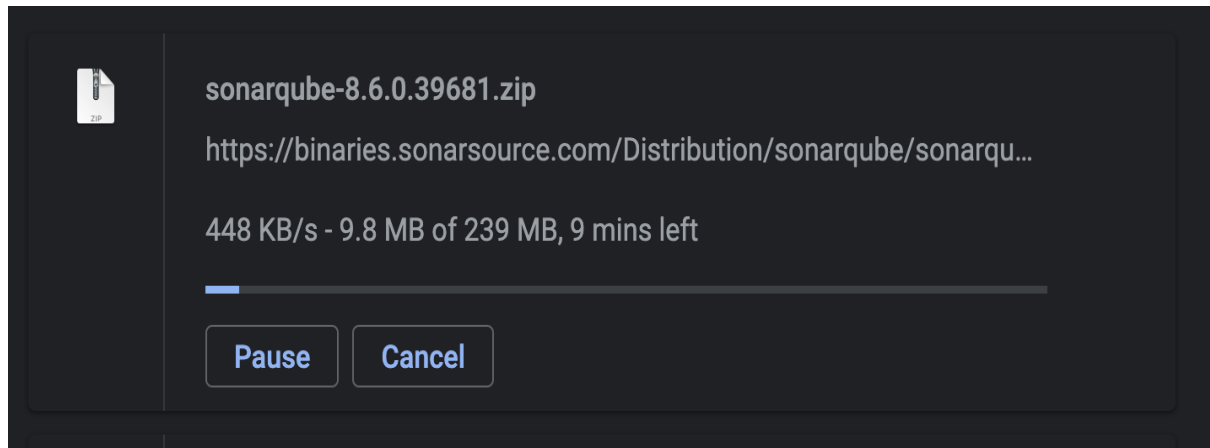


## JAVA CODE QUALITY ASSIGNMENT-B

### SONARQUBE :

Installation :

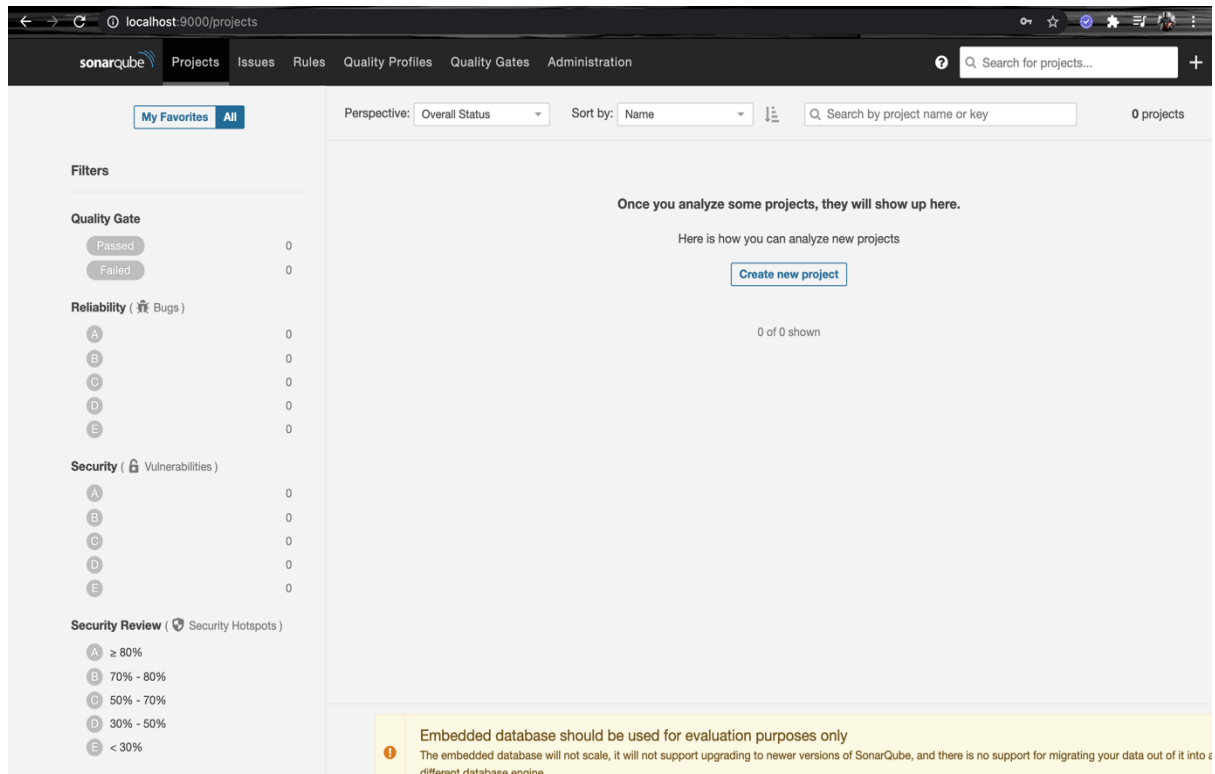
SonarQube is downloaded.



SonarQube server is started.

```
AKASHs-MacBook-Pro:macosx-universal-64 akashm$ ./sonar.sh start
Starting SonarQube...
Started SonarQube.
```

SonarQube server is started in port 9000.



Analysis of order management application:

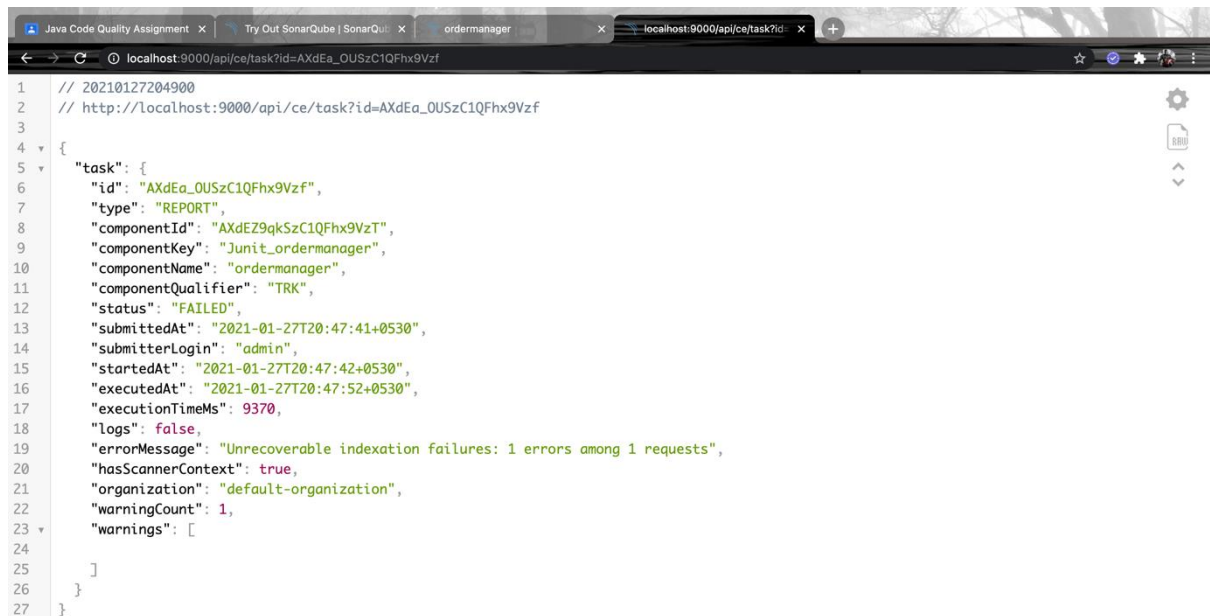
```
AKASHs-MacBook-Pro:macosx-universal-64 akashm$ cd /Users/akashm/Desktop/eclipse_workspace/JUnit
AKASHs-MacBook-Pro:JUnit akashm$ mvn sonar:sonar \
> -Dsonar.projectKey=JUnit_ordermanager \
> -Dsonar.host.url=http://localhost:9000 \
> -Dsonar.login=1e1950a2f3a19765cd3632cc65a7070717437219
[INFO] Scanning for projects...
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/sonar-maven-plugin/maven-metadata.xml
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/sonar-maven-plugin/maven-metadata.xml (
1.2 kB at 1.2 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/sonar-maven-plugin/3.8.0.2131/sonar-ma
ven-plugin-3.8.0.2131.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/sonar-maven-plugin/3.8.0.2131/sonar-mav
en-plugin-3.8.0.2131.pom (1.1 kB at 3.5 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/sonarsource/scanner/maven/sonar-maven-plugin/3.8.0.2
131/sonar-maven-plugin-3.8.0.2131.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonarsource/scanner/maven/sonar-maven-plugin/3.8.0.21
31/sonar-maven-plugin-3.8.0.2131.pom (12 kB at 35 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/sonarsource/parent/parent/55/parent-55.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonarsource/parent/parent/55/parent-55.pom (31 kB at
84 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/sonarsource/scanner/maven/sonar-maven-plugin/3.8.0.2
131/sonar-maven-plugin-3.8.0.2131.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonarsource/scanner/maven/sonar-maven-plugin/3.8.0.21
31/sonar-maven-plugin-3.8.0.2131.jar (50 kB at 133 kB/s)
[INFO] -----< com.accolite:ordermanager >-----
[INFO] Building ordermanager 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] --- sonar-maven-plugin:3.8.0.2131:sonar (default-cli) @ ordermanager ---
Downloading from central: https://repo.maven.apache.org/maven2/org/sonarsource/scanner/api/sonar-scanner-api/2.16.0.226
/sonar-scanner-api-2.16.0.226.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonarsource/scanner/api/sonar-scanner-api/2.16.0.226/
sonar-scanner-api-2.16.0.226.pom (5.2 kB at 16 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/sonarsource/scanner/api/sonar-scanner-api-parent/2.1
```

```

[INFO] Sensor JavaXmlSensor [java] (done) | time=153ms
[INFO] 1/1 source files have been analyzed
[INFO] Sensor HTML [web]
[INFO] Sensor HTML [web] (done) | time=3ms
[INFO] Sensor XML Sensor [xml]
[INFO] 1 source files to be analyzed
[INFO] Sensor XML Sensor [xml] (done) | time=92ms
[INFO] 1/1 source files have been analyzed
[INFO] Sensor VB.NET Properties [vbnet]
[INFO] Sensor VB.NET Properties [vbnet] (done) | time=1ms
[INFO] ----- Run sensors on project
[INFO] Sensor Zero Coverage Sensor
[INFO] Sensor Zero Coverage Sensor (done) | time=14ms
[INFO] Sensor Java CPD Block Indexer
[INFO] Sensor Java CPD Block Indexer (done) | time=46ms
[INFO] SCM Publisher No SCM system was detected. You can use the 'sonar.scm.provider' property to explicitly specify it
.
[INFO] CPD Executor 16 files had no CPD blocks
[INFO] CPD Executor Calculating CPD for 10 files
[INFO] CPD Executor CPD calculation finished (done) | time=8ms
[INFO] Analysis report generated in 75ms, dir size=136 KB
[INFO] Analysis report compressed in 180ms, zip size=66 KB
[INFO] Analysis report uploaded in 42ms
[INFO] ANALYSIS SUCCESSFUL, you can browse http://localhost:9000/dashboard?id=JUnit_ordermanager
[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=AXdEa_OUSzC1QFhx9Vzf
[INFO] Analysis total time: 6.530 s
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 14.641 s
[INFO] Finished at: 2021-01-27T20:47:41+05:30
[INFO] -----
AKASHs-MacBook-Pro:JUnit akashm$

```

More about report processing:

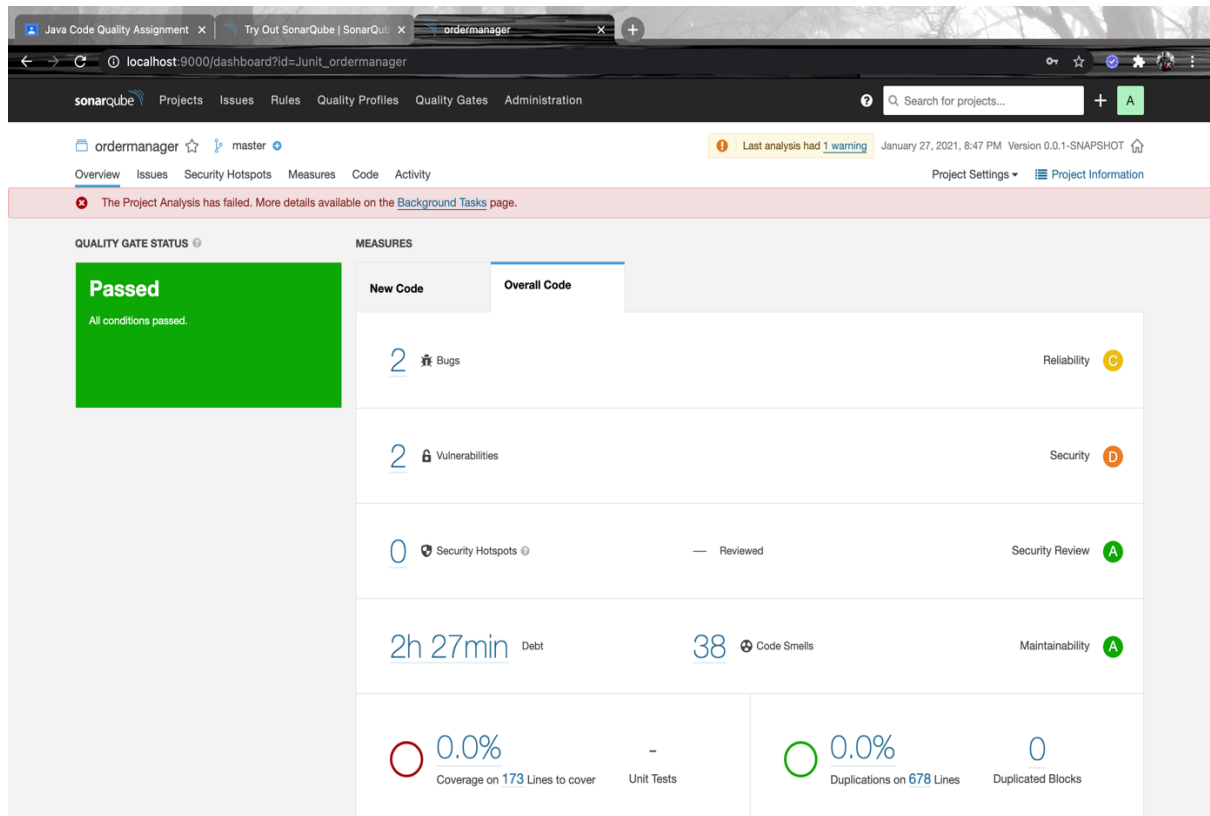


```

1 // 20210127204900
2 // http://localhost:9000/api/ce/task?id=AXdEa_OUSzC1QFhx9Vzf
3
4 {
5   "task": {
6     "id": "AXdEa_OUSzC1QFhx9Vzf",
7     "type": "REPORT",
8     "componentId": "AXdEZ9qkSzC1QFhx9VzT",
9     "componentKey": "JUnit_ordermanager",
10    "componentName": "ordermanager",
11    "componentQualifier": "TRK",
12    "status": "FAILED",
13    "submittedAt": "2021-01-27T20:47:41+0530",
14    "submitterLogin": "admin",
15    "startedAt": "2021-01-27T20:47:42+0530",
16    "executedAt": "2021-01-27T20:47:52+0530",
17    "executionTimeMs": 9370,
18    "logs": false,
19    "errorMessage": "Unrecoverable indexation failures: 1 errors among 1 requests",
20    "hasScannerContext": true,
21    "organization": "default-organization",
22    "warningCount": 1,
23    "warnings": [
24
25    ]
26  }
27 }

```

SonarQube report :



SonarQube server stopped.

```
AKASHs-MacBook-Pro:macosx-universal-64 akashm$ ./sonar.sh stop
Gracefully stopping SonarQube...
Stopped SonarQube.
```