UNIVERSITY WITH A PURPOSE

NAME: Vanshika

SAP: 500069061

ROLL NUMBER: R171218110

CICD Lab Experiment 4

Static Code Analysis with SonarQube

SonarQube is an open-source platform used to continuously inspect our code and checks the code quality with automatic reviews.

It is one of the leading tools in the market for the inspection of our code. It can analyse and manage code for more than 20 languages, though it is written in Java itself.

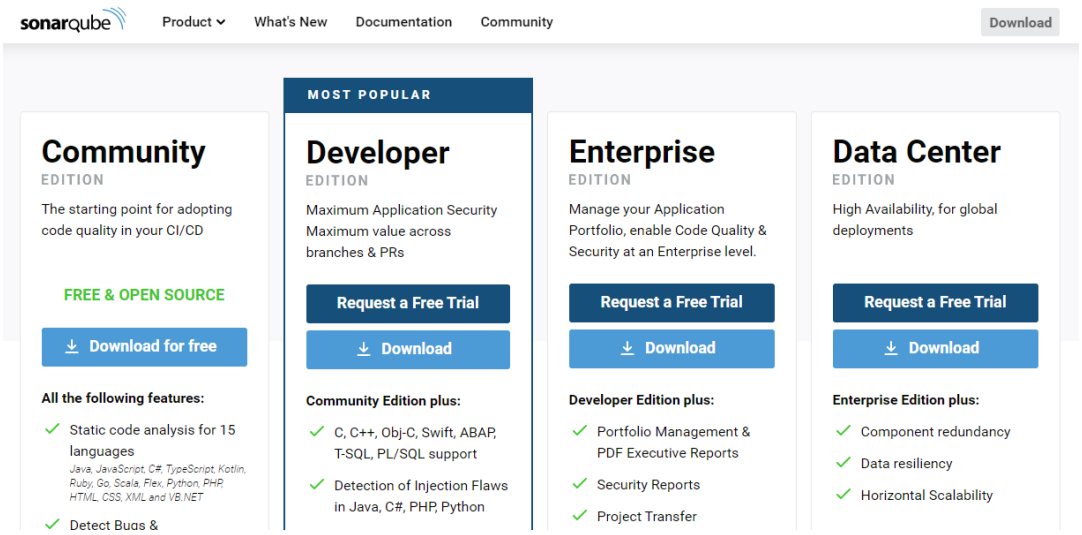
Below are the steps that you can follow to inspect your code with the help of SonarQube on a Maven Project. (It also includes how you can download SonarQube on your windows)

Please Notice: SonarQube works on jdk11+ editions.

Step1) To download SonarQube, go to the following link

https://www.sonarqube.org/downloads/

(the community edition is free and hence, used in this experiment)



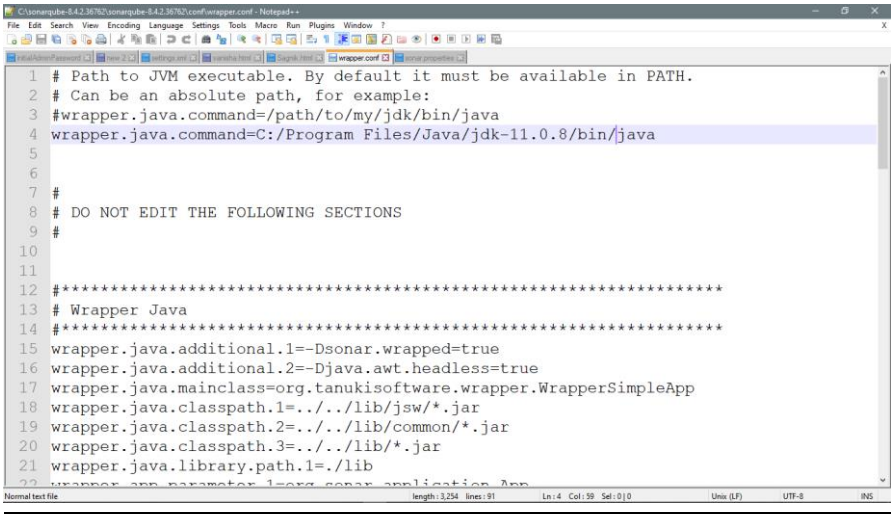
Step2) Unzip the file and go to

>>sonarqube_location/conf/wrapper..conf

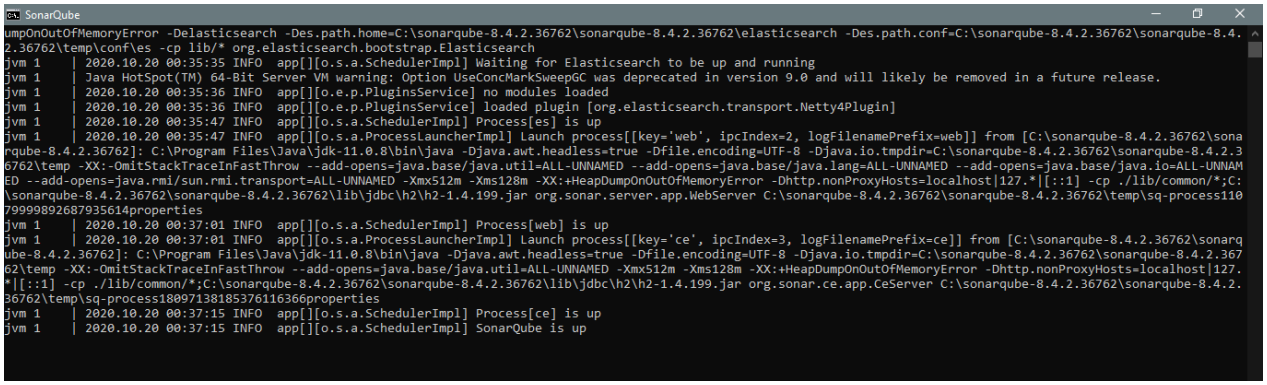
Open this with Notepad and set your jdk location in

`wrapper.java.command` as

>>your/jdk/location/bin/java



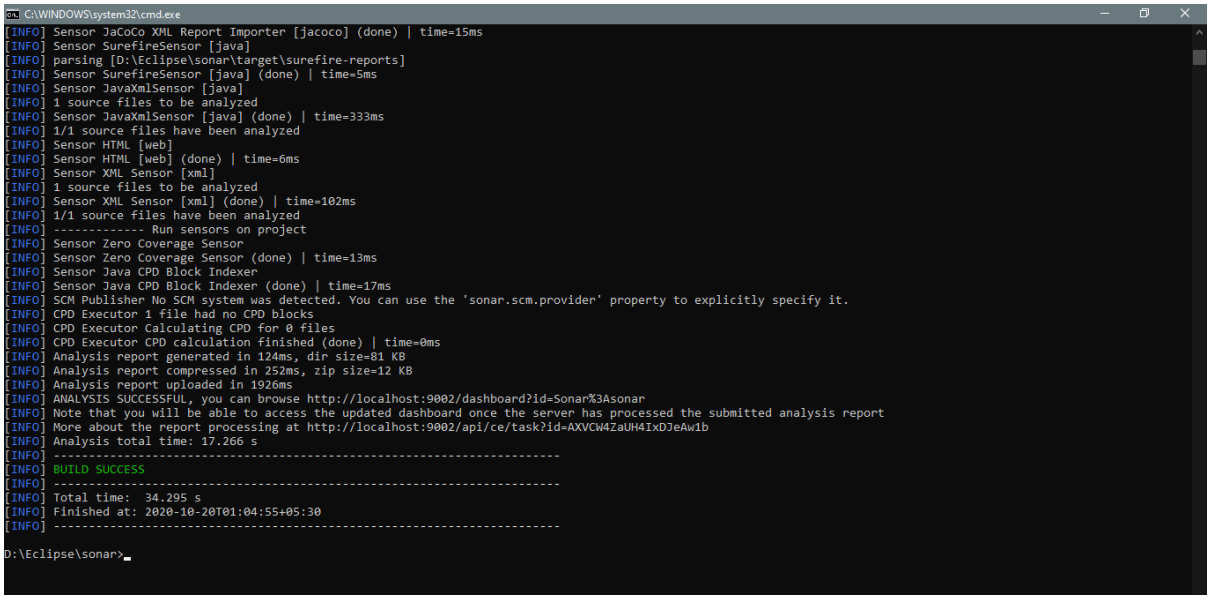
Step3) Move to the bin folder and click on `StartSonar.bat`



Step 4) Navigate to localhost:9002 (in my case. Most probably 9000 in yours) to see you SonarQube dashboard.

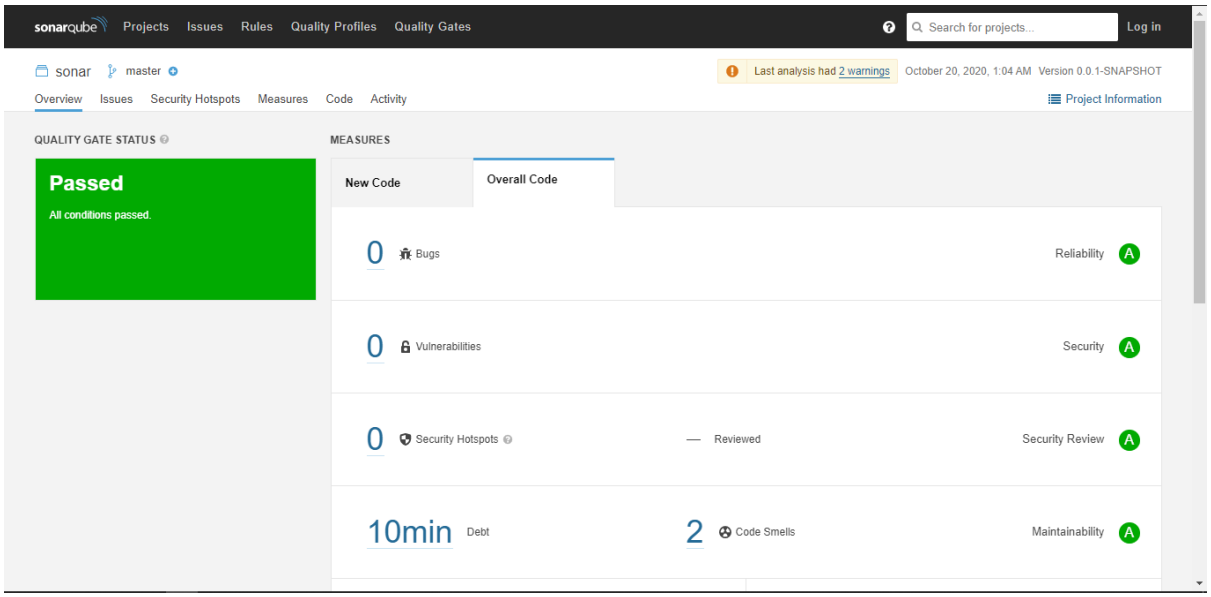
Make a Maven project. Save it. Open cmd and go to the location of the project. To execute your project with continuous code analysis enter the following command

```
>>mvn clean install sonar:sonar -Dsonar.host.url=http://localhost:9000 -Dsonar.analysis.mode=publish
```



If you get “BUILD SUCCESS”, phew! Everything went well.

Step 5) To see the results of your code inspection reload your localhost to get something like this.



And, your job is done.