Static Code Analysis Using SonarQube
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SonarQube: SonarQube is an open-source platform developed by SonarSource for continuous inspection of code quality to perform automatic reviews with static analysis of code to detect bugs, code smells, and security vulnerabilities on 20+ programming languages.

In this experiment we will be using SonarQube for static code analysis.
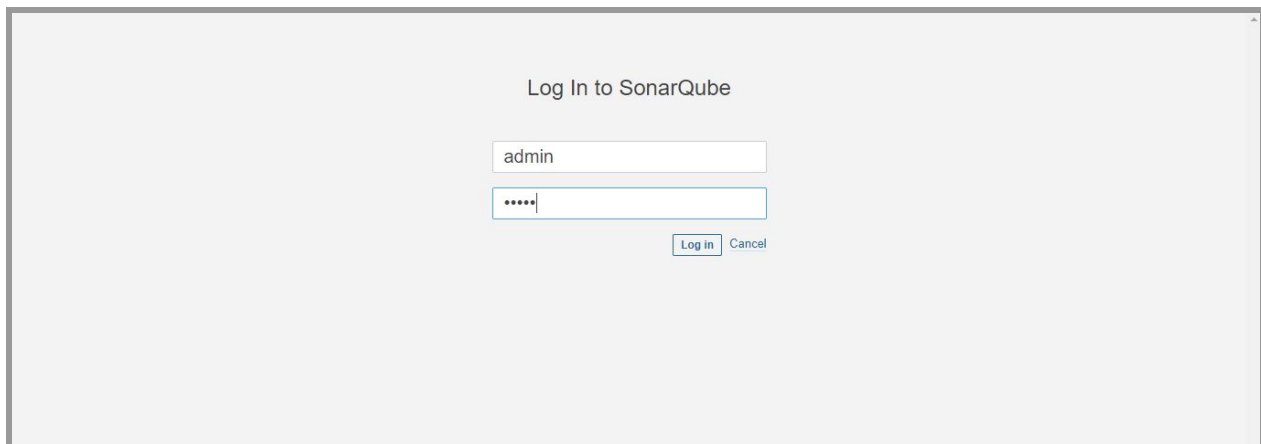We will use any of our maven project and then do it's code analysis using SonarQube.

Move to your SonarQube folder and then open cmd there.
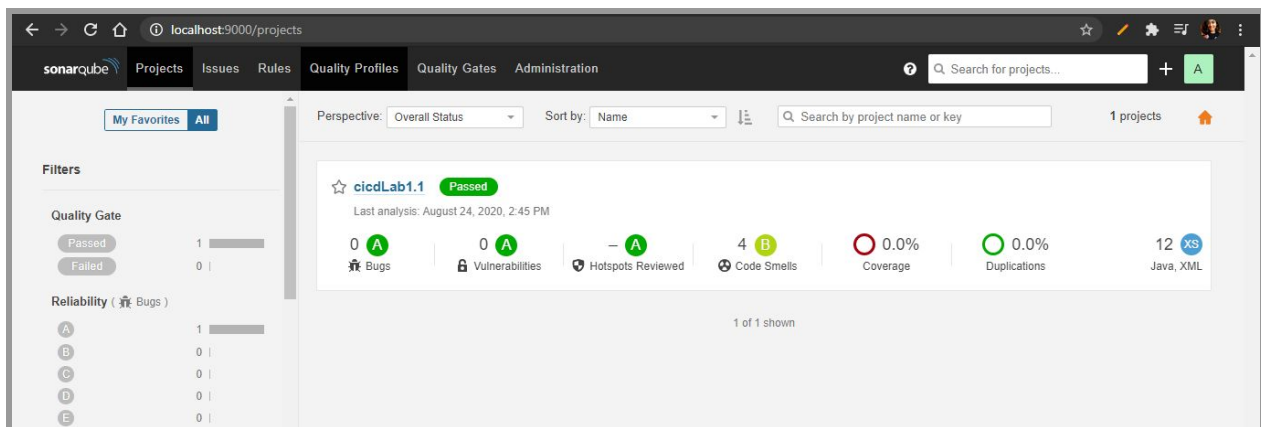**And run command StartSonar.bat**

```
SonarQube
Microsoft Windows [Version 10.0.18362.1082]
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C:\Users\Neha\Downloads\sonarqube-8.4.1.35646\sonarqube-8.4.1.35646\bin\windows-x86-64>StartSonar.bat
wrapper  | --> Wrapper Started as Console
wrapper  | Launching a JVM...
jvm 1    | Wrapper (Version 3.2.3) http://wrapper.tanukisoftware.org
jvm 1    |   Copyright 1999-2006 Tanuki Software, Inc.  All Rights Reserved.
jvm 1    |
```
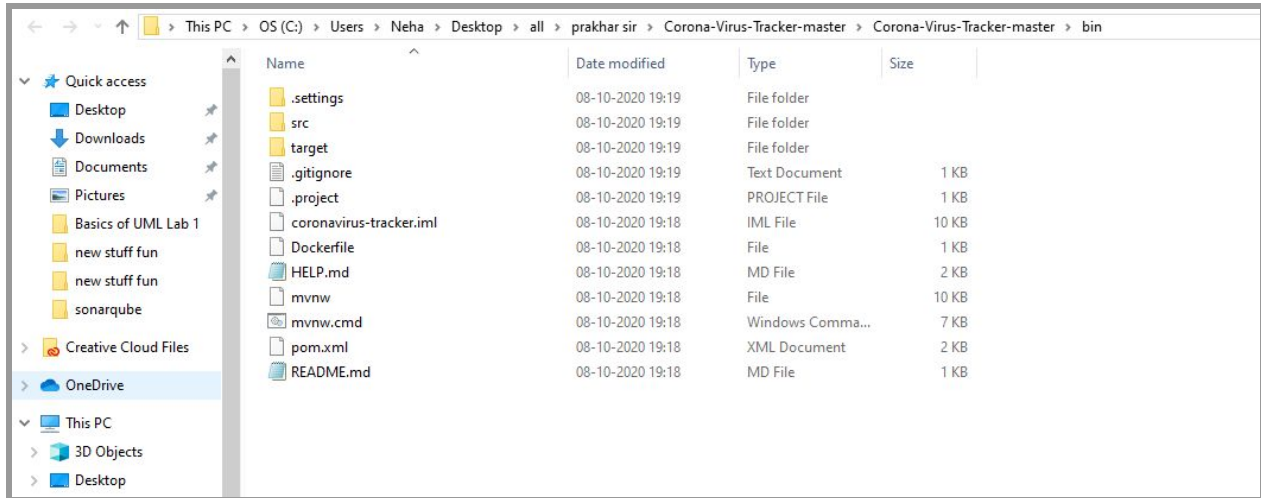
Go to localhost:9000
Default id & pass is admin

Log In to SonarQube

admin

•••••

Log in   Cancel

You can see a screen like without any project

localhost:9000/projects

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration   Search for projects... + A

My Favorites All

Perspective: Overall Status   Sort by: Name   Search by project name or key   1 projects

Filters

Quality Gate
Passed   1
Failed   0

Reliability (Bugs)
A   1
B   0
C   0
D   0
E   0

☆ cicdLab1.1   Passed
Last analysis: August 24, 2020, 2:45 PM

0 A   0 A   — A   4 B   0.0%   0.0%   12 XS
Bugs   Vulnerabilities   Hotspots Reviewed   Code Smells   Coverage   Duplications   Java, XML

1 of 1 shown

Move to your maven project folder

Run this command

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

Build Success