Name:Urvashi Changlani
D15B/08

Experiment No 8

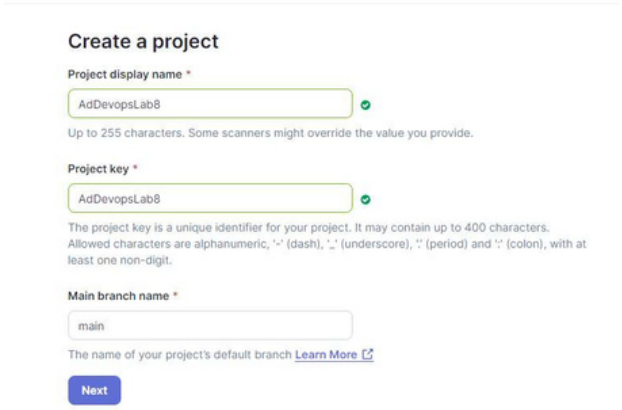
AIM: Integrating Jenkins with SonarQube.

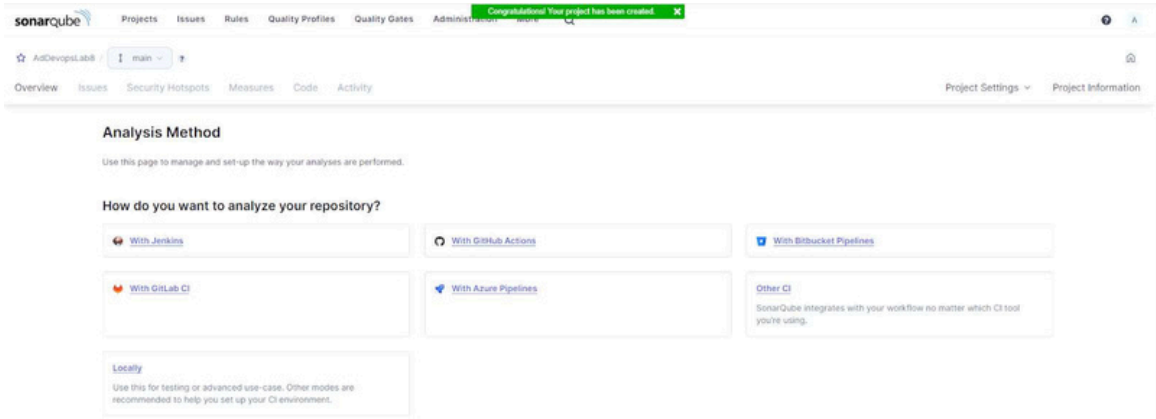
Open up Jenkins Dashboard on localhost, port 8080
Run SonarQube in a Docker container using this command -
$ docker run -d --name sonarqube -e
SONAR_ES_BOOTSTRAP_CHECKS_DISABLE=true -p 9000:9000
sonar q ube: latest

```
PS D:\Desktop\DockerFile> docker run -d --name sonarqube -e SONAR_ES_BOOTSTRAP_CHECKS_DISABLE=true -p 9000:9000 sonarqub
e:latest
Unable to find image 'sonarqube:latest' locally
latest: Pulling from library/sonarqube
44ba2882f8eb: Pull complete
2cabec57fa36: Pull complete
c20481384b6a: Pull complete
bf7b17ee74f8: Pull complete
38617faac714: Pull complete
b795b715553d: Pull complete
c5244f6c9231: Pull complete
Digest: sha256:1ffd122cfb37ce982289dc7f5d38bb702ba05af7b5a50f7cb077ae25e60b5b9a
Status: Downloaded newer image for sonarqube:latest
1442c4e613b25aaedec05c060f020a00802b1c6dbaa27e8c5c0dad4ed8fc1f76
```

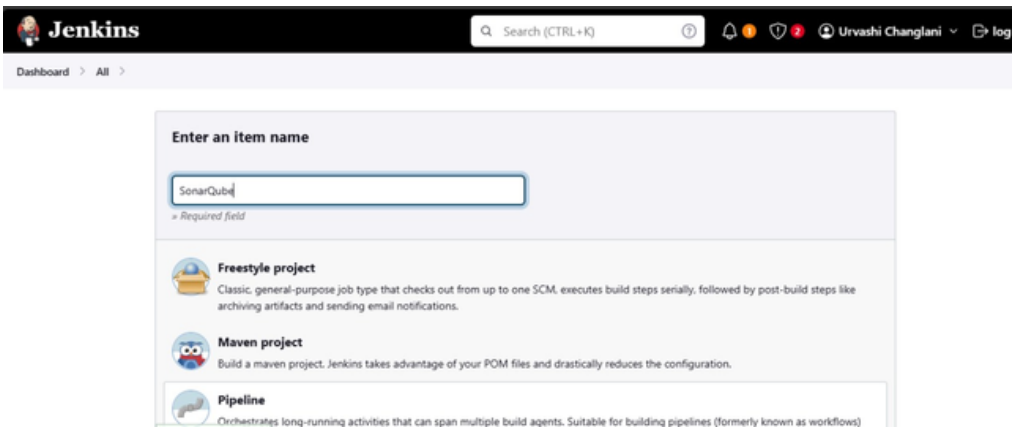
sonarqube

Create project manually





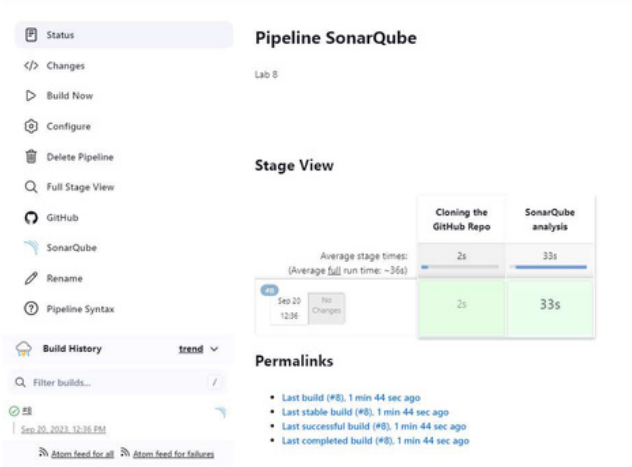
In Jenkins create a pipeline here named “SonarQube”



Enter the following in pipeline script:

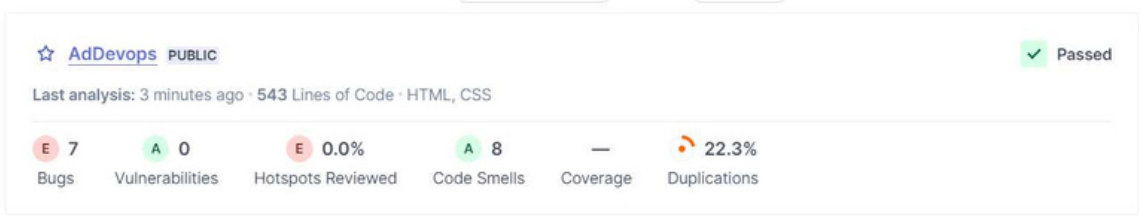
```
node {
    stage('Cloning the GitHub Repo') {
        git 'https://github.com/PrajaktaUpadhye6/MSBuild_firstproject.git'
    }
    stage('SonarQube analysis') {
        withSonarQubeEnv('sonarqube') {
            bat "D:/sonar-scanner-cli-5.0.1.3006-windows/sonar-scanner-5.0.1.3006-
windows/bin/sonar-scanner.bat \
                -D sonar.login=admin \
                -D sonar.password=abc \
                -D sonar.projectKey=AdDevops \
                -D sonar.exclusions=vendor/**,resources/**,**/*.java \
                -D sonar.host.url=http://127.0.0.1:9000/"
        }
    }
}
```

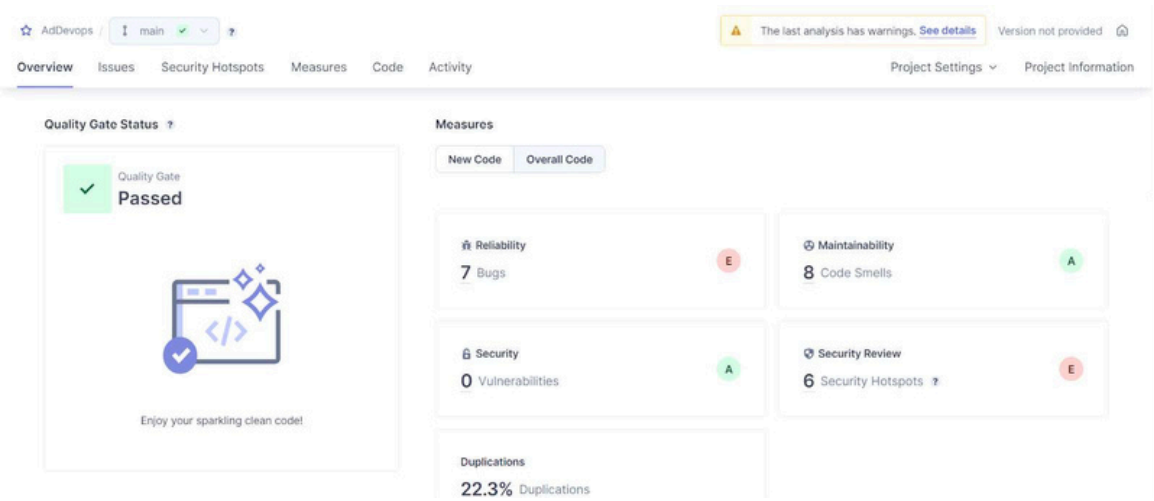
It is a java sample project which has a lot of repetitions and issues that will be detected by SonarQube. Build and run:



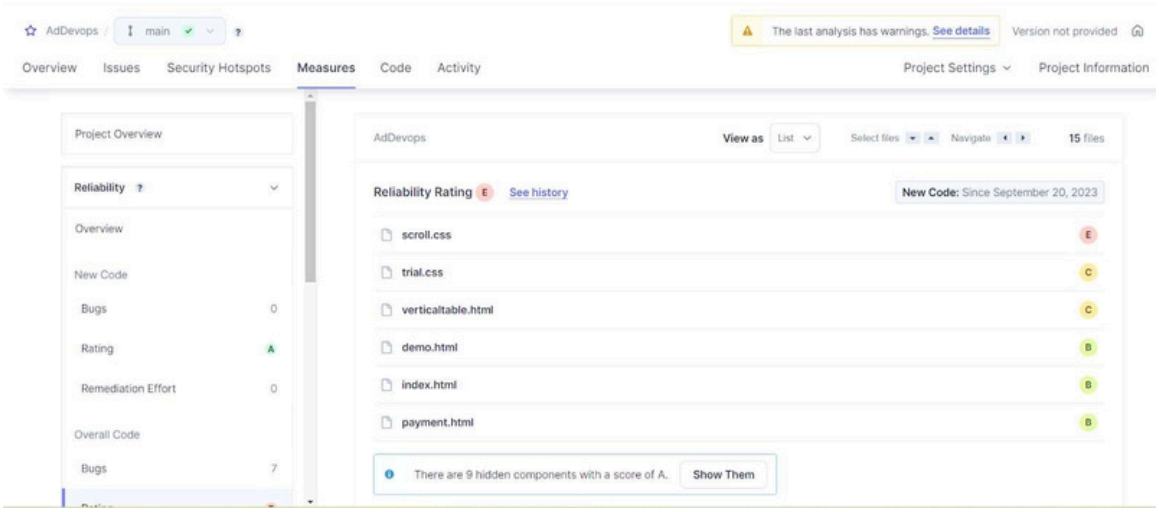
Console output:

sonarqube:

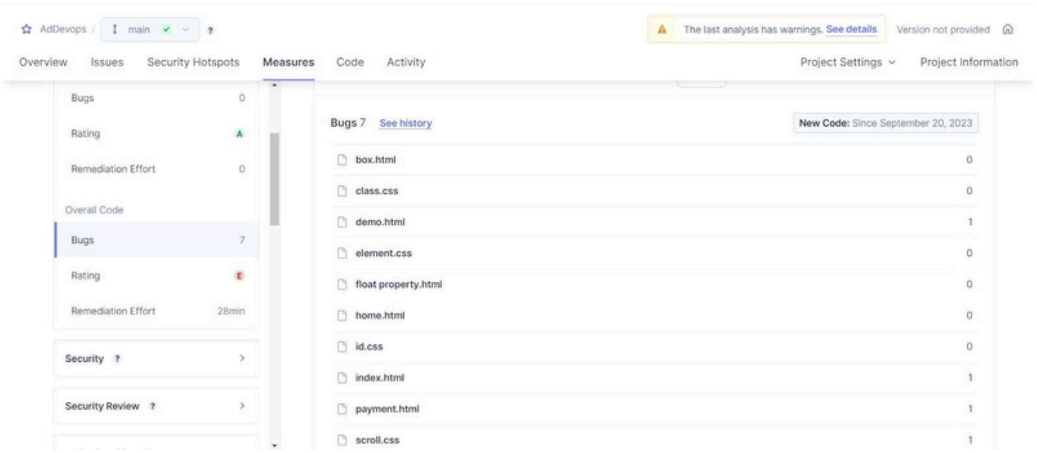




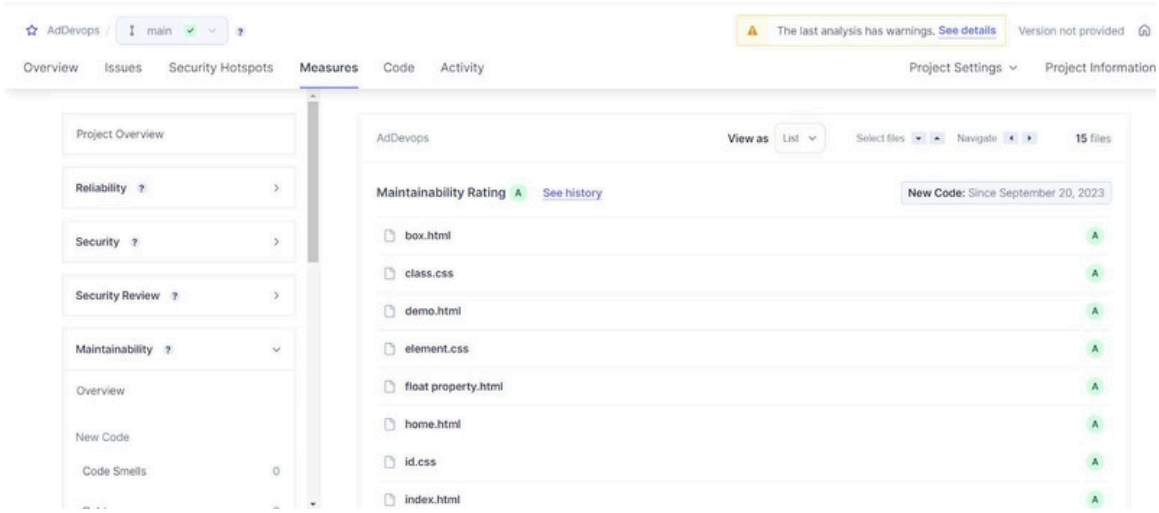
Reli abil it y:



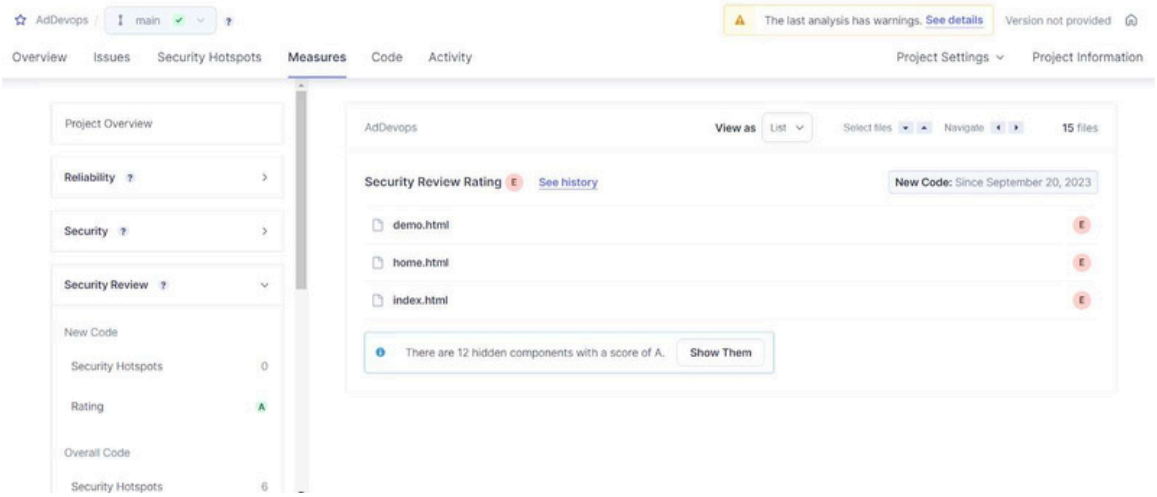
Bugs:



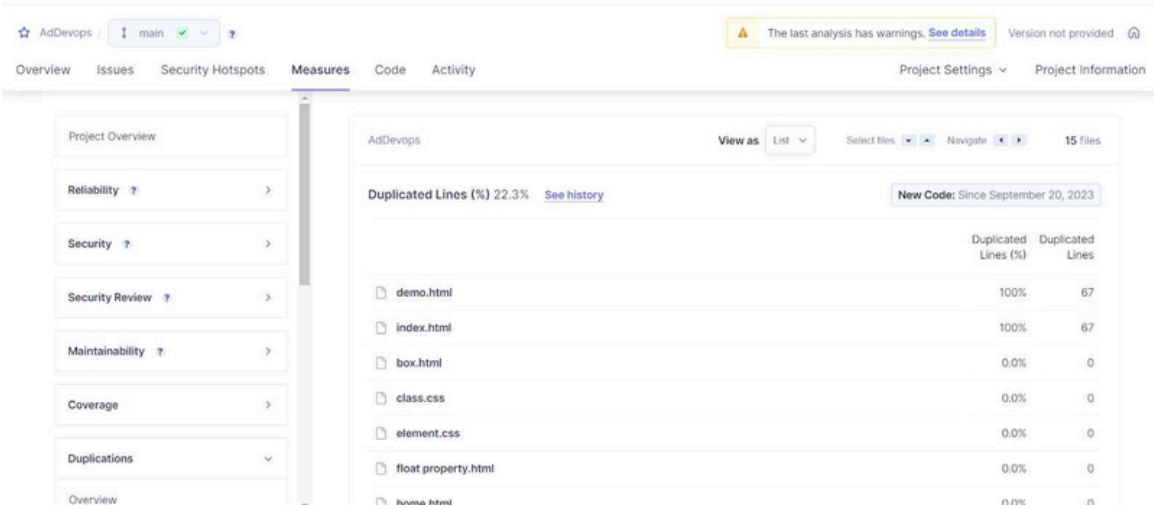
Maintanaibility:



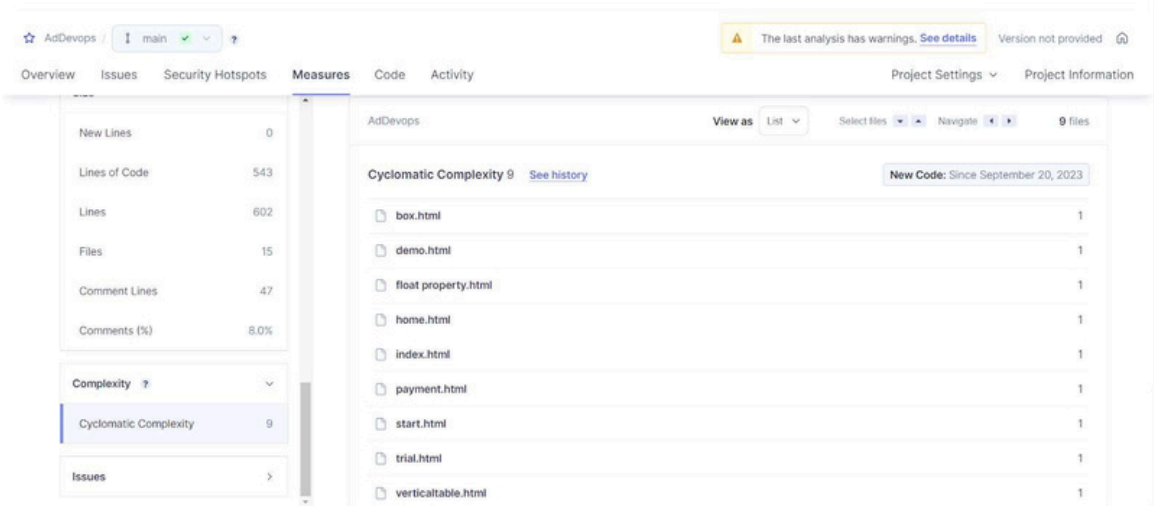
Security:



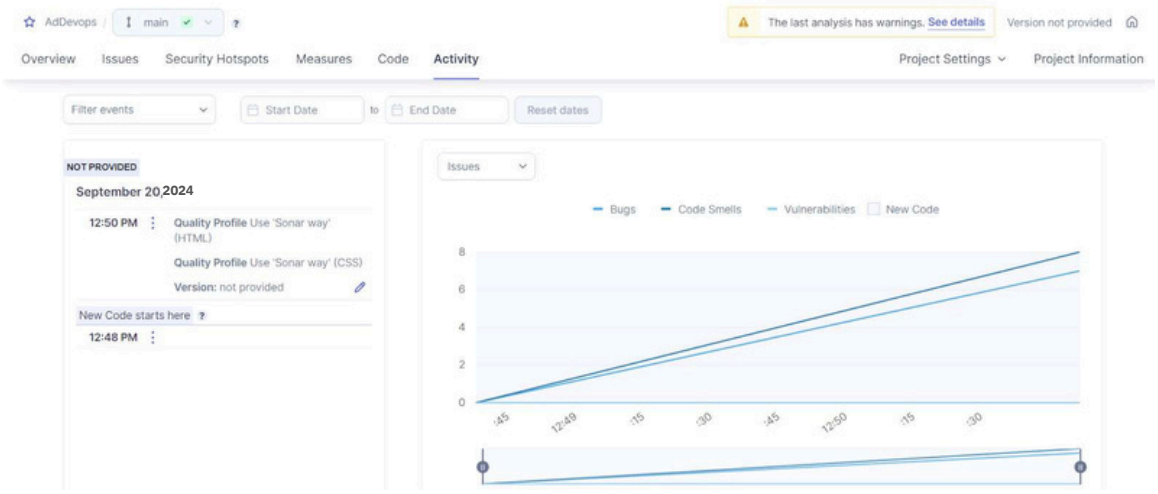
Duplications:



Cyclomatic complexity:



Activity:



Conclusion: Thus, we have successfully integrated Jenkins with SonarQube.