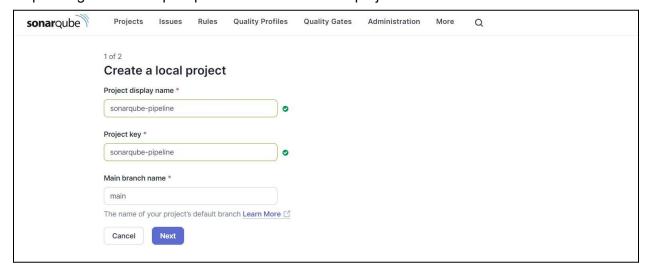
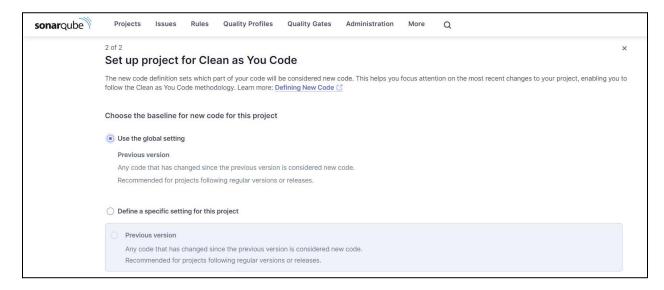
Experiment 8

Aim: Create a Jenkins CICD Pipeline with SonarQube / GitLab Integration to perform a static analysis of the code to detect bugs, code smells, and security vulnerabilities on a sample Web / Java / Python application.

Step 1: Log in to sonarqube portal and create a local project.

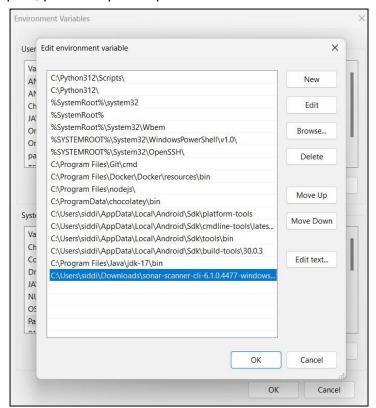




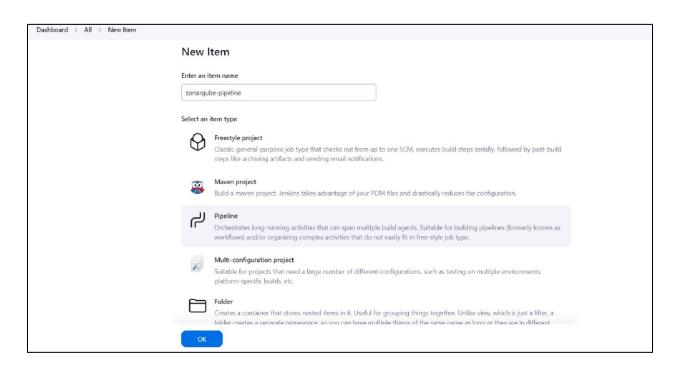
Step 2: Go to download sonar scanner to download sonar scanner

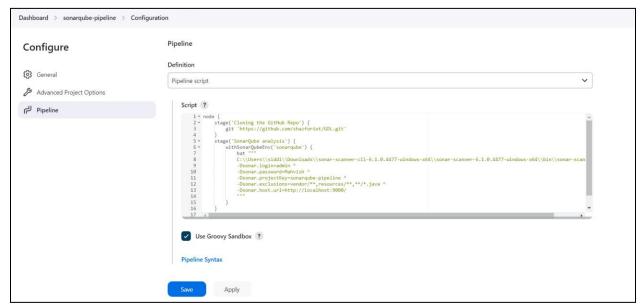


After the download is complete, extract the file and copy the path to bin folder Go to environment variables, system variables and click on path Add a new path, paste the path copied earlier.

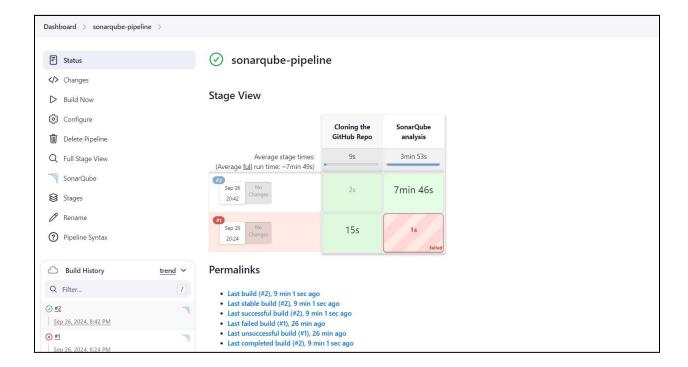


Step 3: Create a New Item in Jenkins, choose Pipeline.





Step 4: Save the pipeline and build it.

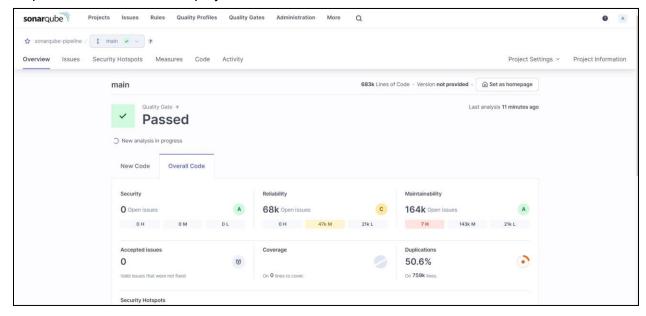


Console output:



```
20:50:01.832 INFO ANALYSIS SUCCESSFUL, you can find the results at: http://localhost:9000/dashboard?id=sonarqube-pipeline
20:50:01.832 INFO Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
20:50:01.832 INFO More about the report processing at http://localhost:9000/api/ce/task?id=159a9d05-1f5f-4e17-bd27-3643a32a836a
20:50:12.108 INFO Analysis total time: 7:37.235 s
20:50:12.110 INFO SonarScanner Engine completed successfully
20:50:12.849 INFO EXECUTION SUCCESS
20:50:12.851 INFO Total time: 7:44.878s
[Pipeline] }
[Pipeline] // withSonarQubeEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Step 5: After that, check the project in SonarQube



Under different tabs, check all different issues with the code.

