

DEVOPS ASSIGNMENT REPORT

Group – 9

Members:

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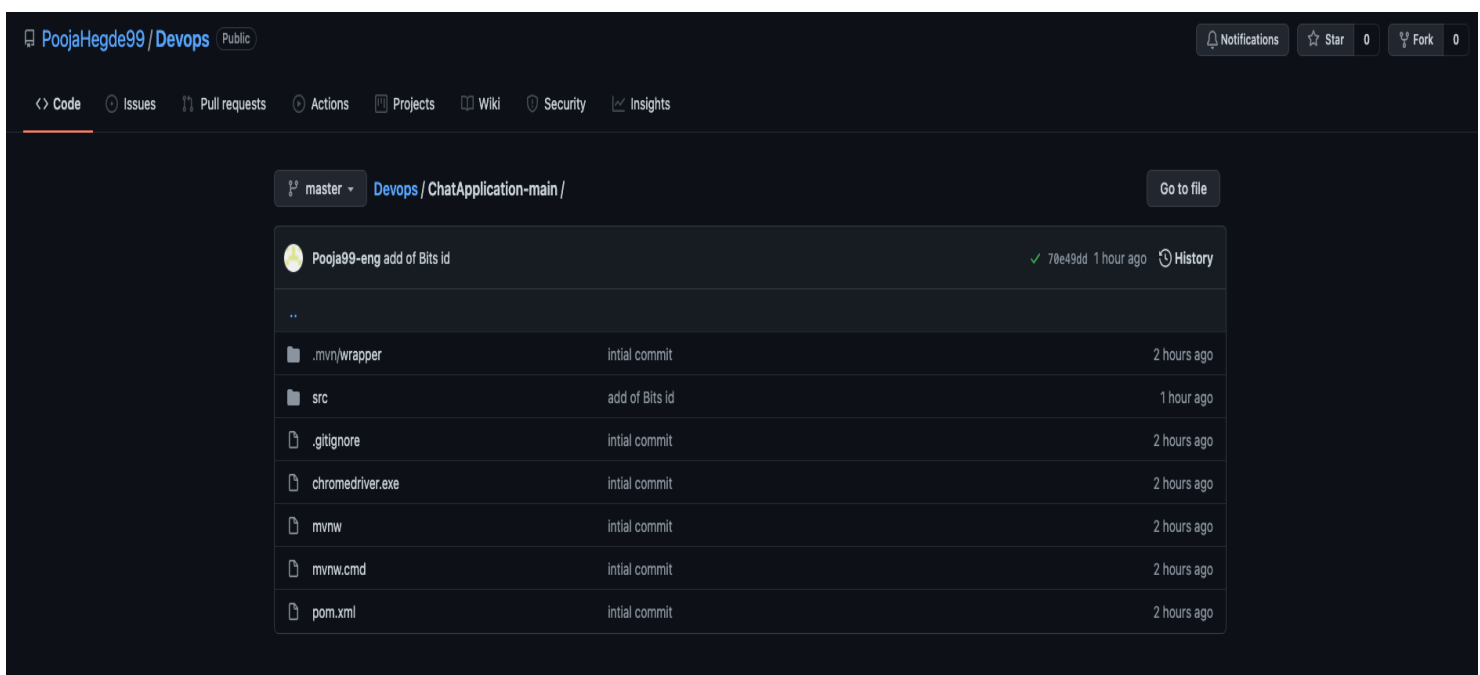
Introduction

This is a devops report for our project. Our project is an online chat application. This application is built using HTML, JS, CSS and Java. This is an online chat room application where one can create a room for chatting or join a room with the room code. In this project we have integrated our GitHub repository with sonar cloud for code quality check and bug reports. Also, we have automated some test cases using selenium framework with chromium web driver.

Project

GitHub Repository:

Link: <https://github.com/PoojaHegde99/Devops/tree/master/ChatApplication-main>

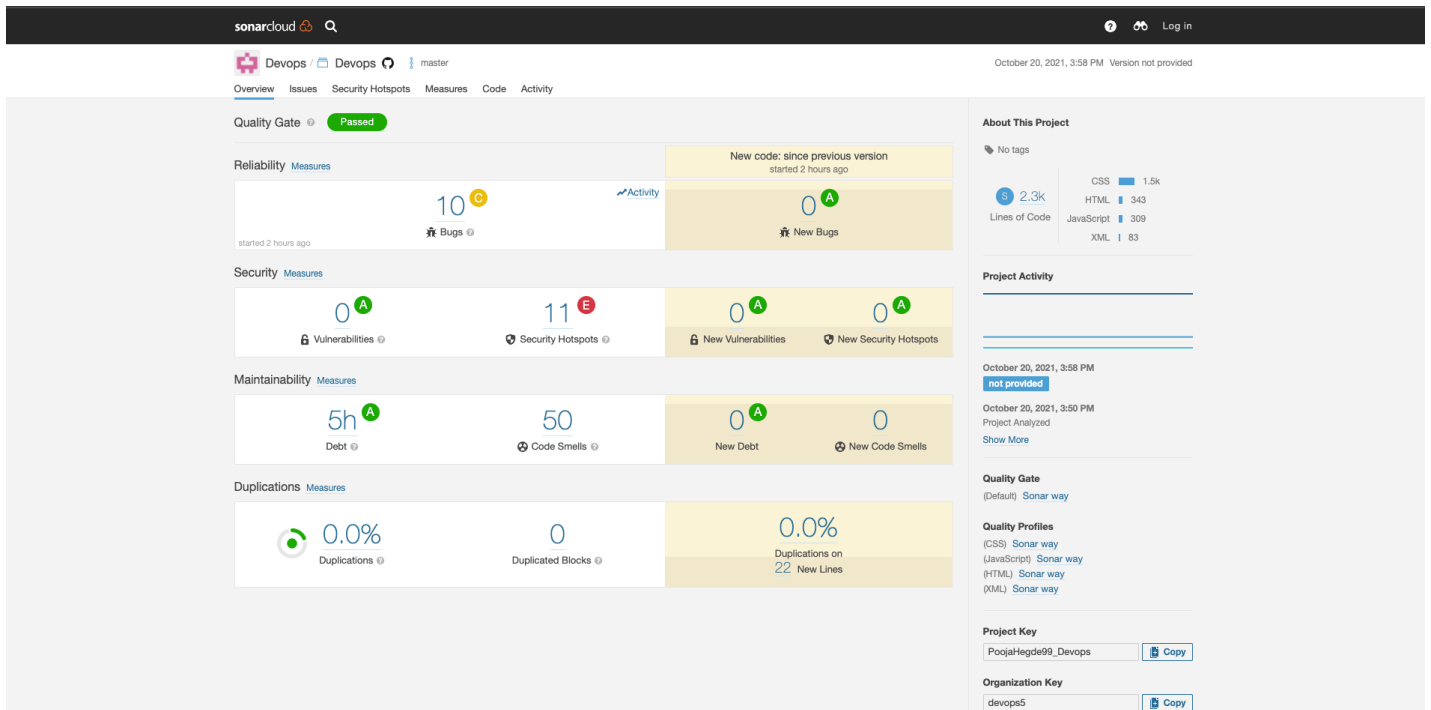


Sonar Cloud Integration

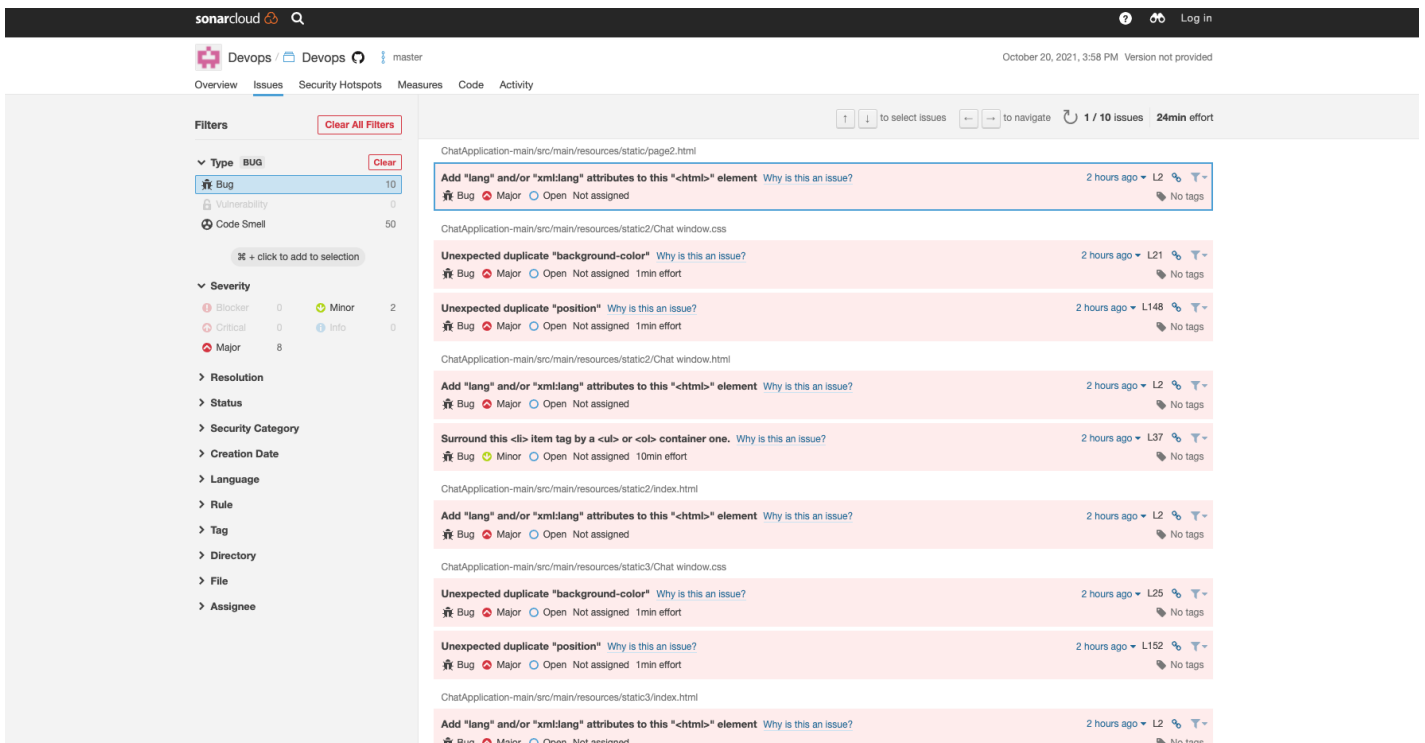
We have integrated sonar cloud with our GitHub repository. This helps for code quality check and get bug reports as well.

Sonar Cloud Link: https://sonarcloud.io/dashboard?id=PoojaHegde99_Devops

Sonar Cloud Code Quality Check



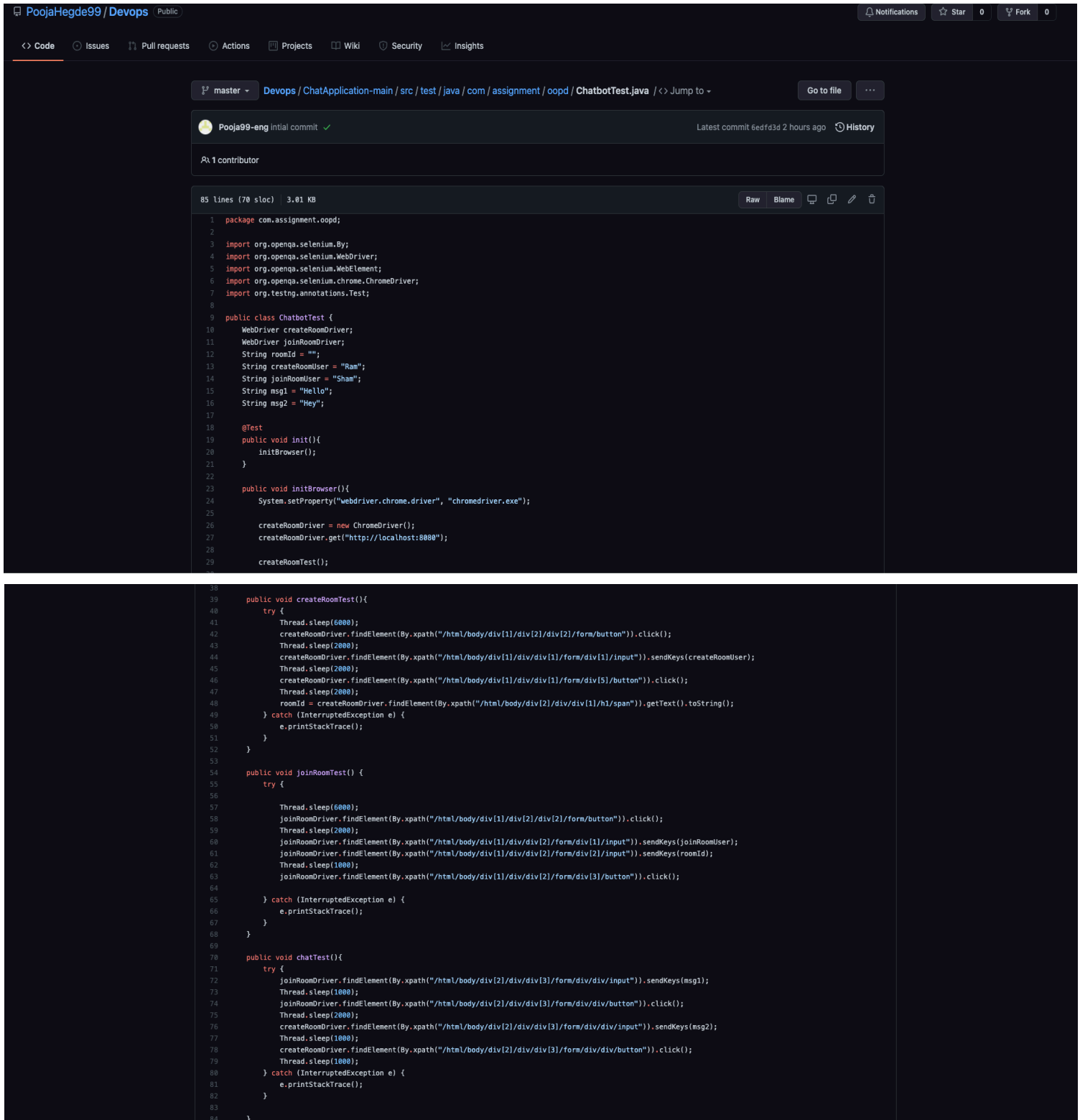
Sonar Cloud Bug report



Automated test cases

We have some automated test cases in our project. We have automated them using the selenium web driver.

Codes



The screenshot displays a GitHub repository for 'PoojaHegde99 / Devops'. The file 'ChatbotTest.java' is selected, showing its code. The repository has 1 contributor and the latest commit was made 2 hours ago. The code is a Java Selenium test script for a chat application. It includes imports for Selenium WebDriver, WebElement, and Test annotations. The test class 'ChatbotTest' contains methods for initializing the browser, creating a room, joining a room, and performing chat actions. The code uses XPath to locate elements and includes sleep statements for synchronization.

```
1 package com.assignment.oopd;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.WebElement;
6 import org.openqa.selenium.chrome.ChromeDriver;
7 import org.testng.annotations.Test;
8
9 public class ChatbotTest {
10     WebDriver createRoomDriver;
11     WebDriver joinRoomDriver;
12     String roomId = "";
13     String createRoomUser = "Ram";
14     String joinRoomUser = "Sham";
15     String msg1 = "Hello";
16     String msg2 = "Hey";
17
18     @Test
19     public void init(){
20         initBrowser();
21     }
22
23     public void initBrowser(){
24         System.setProperty("webdriver.chrome.driver", "chromedriver.exe");
25
26         createRoomDriver = new ChromeDriver();
27         createRoomDriver.get("http://localhost:8080");
28
29         createRoomTest();
30
31
32
33
34
35
36
37
38
39     public void createRoomTest(){
40         try {
41             Thread.sleep(6000);
42             createRoomDriver.findElement(By.xpath("/html/body/div[1]/div[2]/div[2]/form/button")).click();
43             Thread.sleep(2000);
44             createRoomDriver.findElement(By.xpath("/html/body/div[1]/div/div[1]/form/div[1]/input")).sendKeys(createRoomUser);
45             Thread.sleep(2000);
46             createRoomDriver.findElement(By.xpath("/html/body/div[1]/div/div[1]/form/div[5]/button")).click();
47             Thread.sleep(2000);
48             roomId = createRoomDriver.findElement(By.xpath("/html/body/div[2]/div/div[1]/h1/span")).getText().toString();
49         } catch (InterruptedException e) {
50             e.printStackTrace();
51         }
52     }
53
54     public void joinRoomTest() {
55         try {
56
57             Thread.sleep(6000);
58             joinRoomDriver.findElement(By.xpath("/html/body/div[1]/div[2]/div[2]/form/button")).click();
59             Thread.sleep(2000);
60             joinRoomDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/form/div[1]/input")).sendKeys(joinRoomUser);
61             joinRoomDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/form/div[2]/input")).sendKeys(roomId);
62             Thread.sleep(1000);
63             joinRoomDriver.findElement(By.xpath("/html/body/div[1]/div/div[2]/form/div[3]/button")).click();
64
65         } catch (InterruptedException e) {
66             e.printStackTrace();
67         }
68     }
69
70     public void chatTest(){
71         try {
72             joinRoomDriver.findElement(By.xpath("/html/body/div[2]/div/div[3]/form/div/div/input")).sendKeys(msg1);
73             Thread.sleep(1000);
74             joinRoomDriver.findElement(By.xpath("/html/body/div[2]/div/div[3]/form/div/div/button")).click();
75             Thread.sleep(2000);
76             createRoomDriver.findElement(By.xpath("/html/body/div[2]/div/div[3]/form/div/div/input")).sendKeys(msg2);
77             Thread.sleep(1000);
78             createRoomDriver.findElement(By.xpath("/html/body/div[2]/div/div[3]/form/div/div/button")).click();
79             Thread.sleep(1000);
80         } catch (InterruptedException e) {
81             e.printStackTrace();
82         }
83     }
84 }
```

Output

Console—

```
C:\Windows\System32\cmd.exe - mvn test

C:\Users\I524931\Desktop\ChatApplication-main>mvn test
[INFO] Scanning for projects...
[WARNING] Some problems were encountered while building the effective model for com.assignment:oopd:jar:0.0.1-SNAPSHOT
[WARNING] 'build.plugins.plugin.version' for org.apache.maven.plugins:Maven-compiler-plugin is missing. @ line 69, column 12
[WARNING] It is highly recommended to fix these problems because they threaten the stability of your build. [Apache Tomcat/9.0.45]
[WARNING] For this reason, future Maven versions might no longer support building such malformed projects.
[INFO] Building oopd 0.0.1-SNAPSHOT
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ oopd ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 1 resource
[INFO] Copying 18 resources
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ oopd ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:3.2.0:testResources (default-testResources) @ oopd ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory C:\Users\I524931\Desktop\ChatApplication-main\src\test\resources
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ oopd ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ oopd ---
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 41.293 s - in com.assignment.oopd.ChatbotTest
[INFO] Results:
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO] BUILD SUCCESS
[INFO] Total time: 50.438 s
[INFO] Finished at: 2021-10-21T17:18:01+05:30
[INFO]
```

Automated output —

