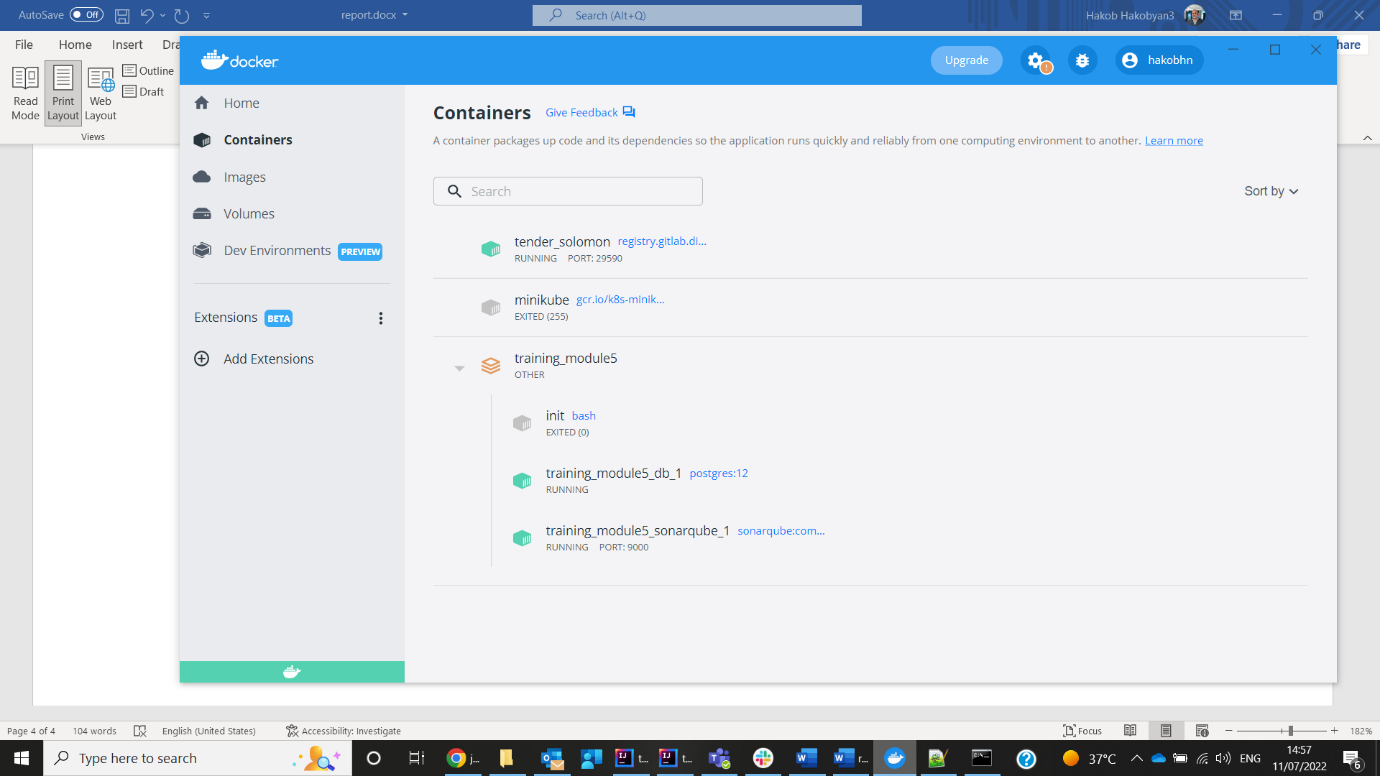
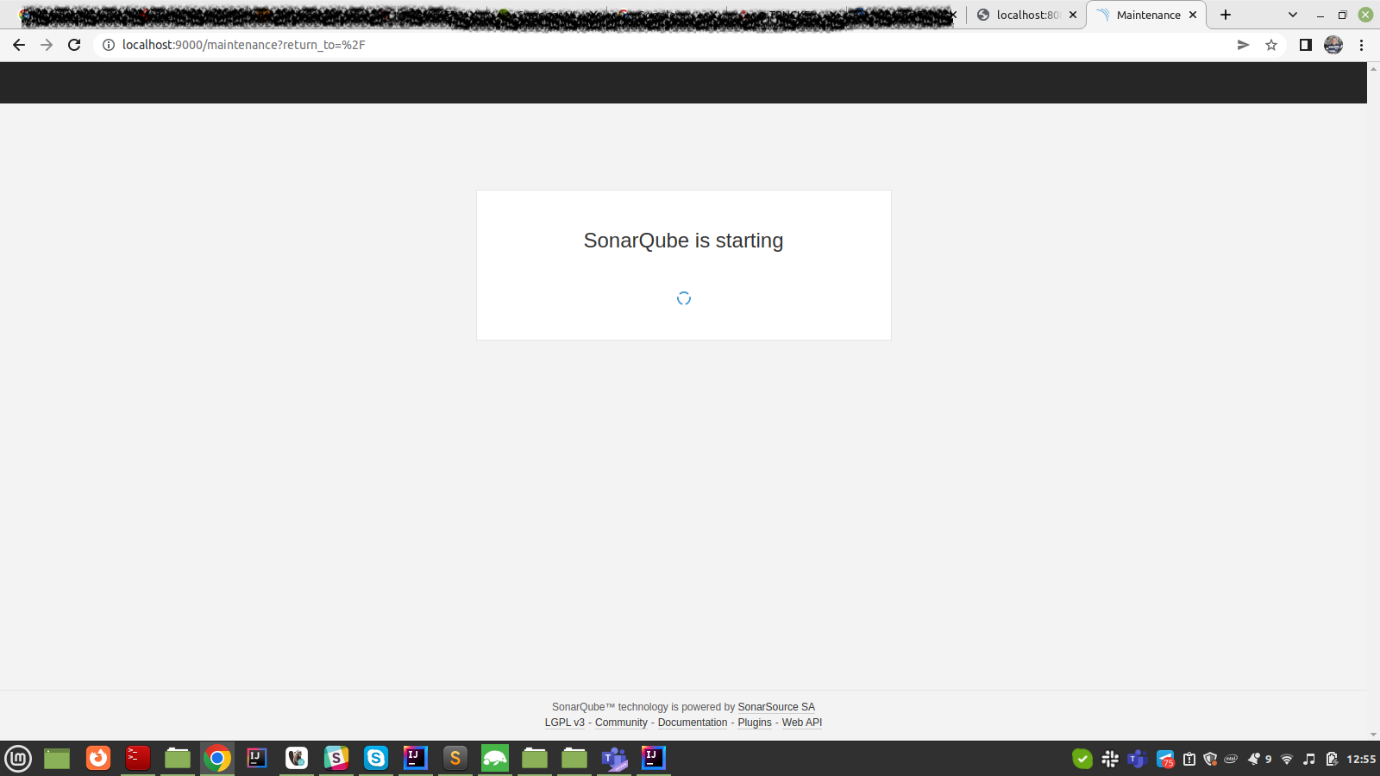
1. **Run Sonarqube docker container**

**Docker-compose.yaml file**

version: "3"  
  
services:  
 sonarqube:  
 image: sonarqube:community  
 depends\_on:  
 - init  
 - db  
 environment:  
 SONAR\_JDBC\_URL: jdbc:postgresql://db:5432/sonar  
 SONAR\_JDBC\_USERNAME: sonar  
 SONAR\_JDBC\_PASSWORD: sonar  
 volumes:  
 - ./data/sonarqube\_data:/opt/sonarqube/data  
 - ./data/sonarqube\_extensions:/opt/sonarqube/extensions  
 - ./data/sonarqube\_logs:/opt/sonarqube/logs  
 ports:  
 - "9000:9000"  
  
 init:  
 image: bash  
 container\_name: init  
 privileged: true  
 user: root  
 volumes:  
 - ./init/init\_sysctl.sh:/mnt/init\_sysctl.sh  
 command: [ "sh", "-e", "/mnt/init\_sysctl.sh" ]  
  
 db:  
 image: postgres:12  
 environment:  
 POSTGRES\_USER: sonar  
 POSTGRES\_PASSWORD: sonar  
 volumes:  
 - ./data/postgresql:/var/lib/postgresql  
 - ./data/postgresql\_data:/var/lib/postgresql/data  
  
volumes:  
 init:  
 data:



**After starting containers, sonarqube server started on port 9000**



Graphical user interface, application, Word

Description automatically generated

Need to setup new password for admin. Default password is admin

Graphical user interface

Description automatically generated

Choose previous module solution as application on which sonarqube analyzing prcessed.

Graphical user interface, text

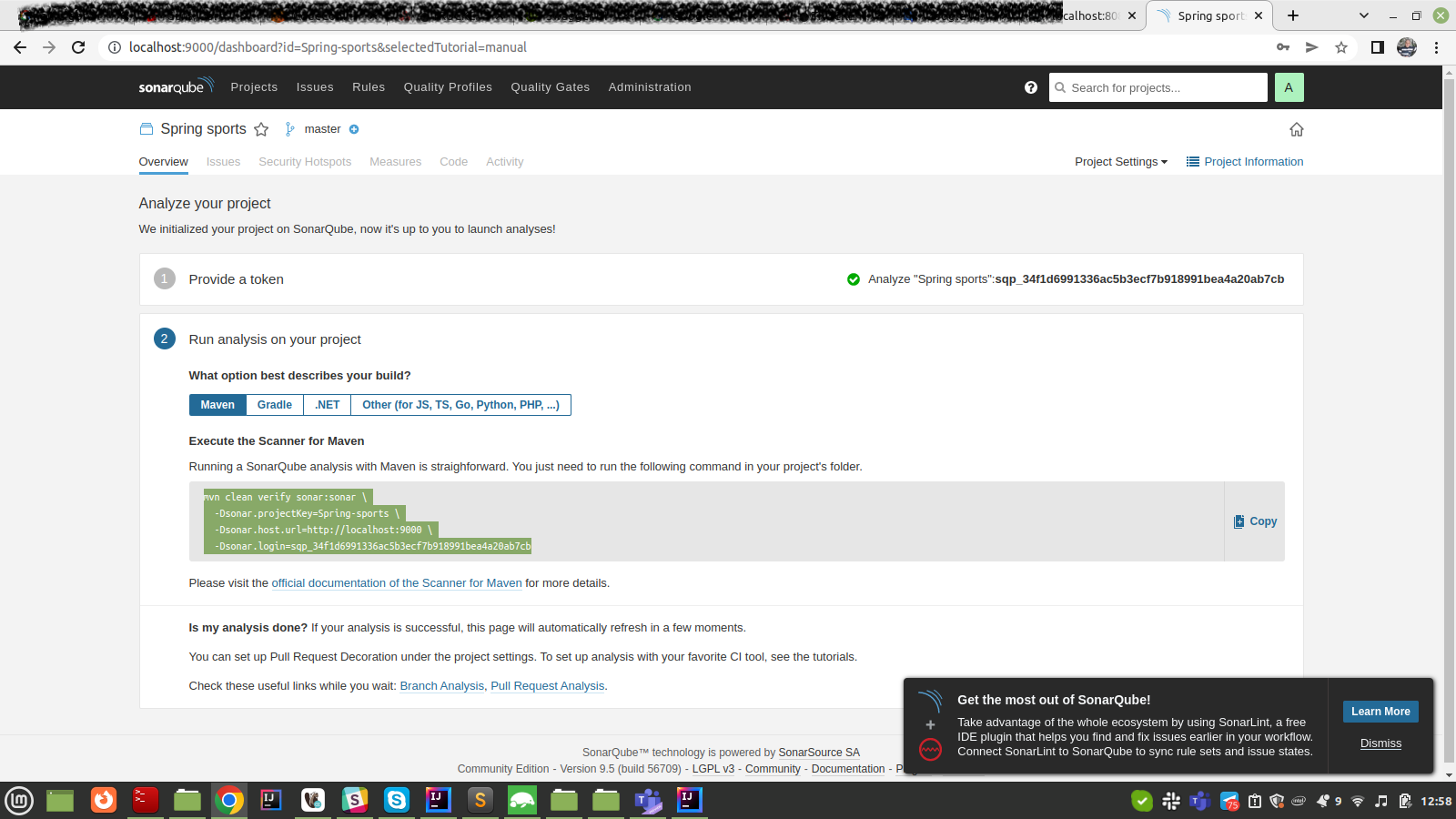
Description automatically generated

Getting token for app

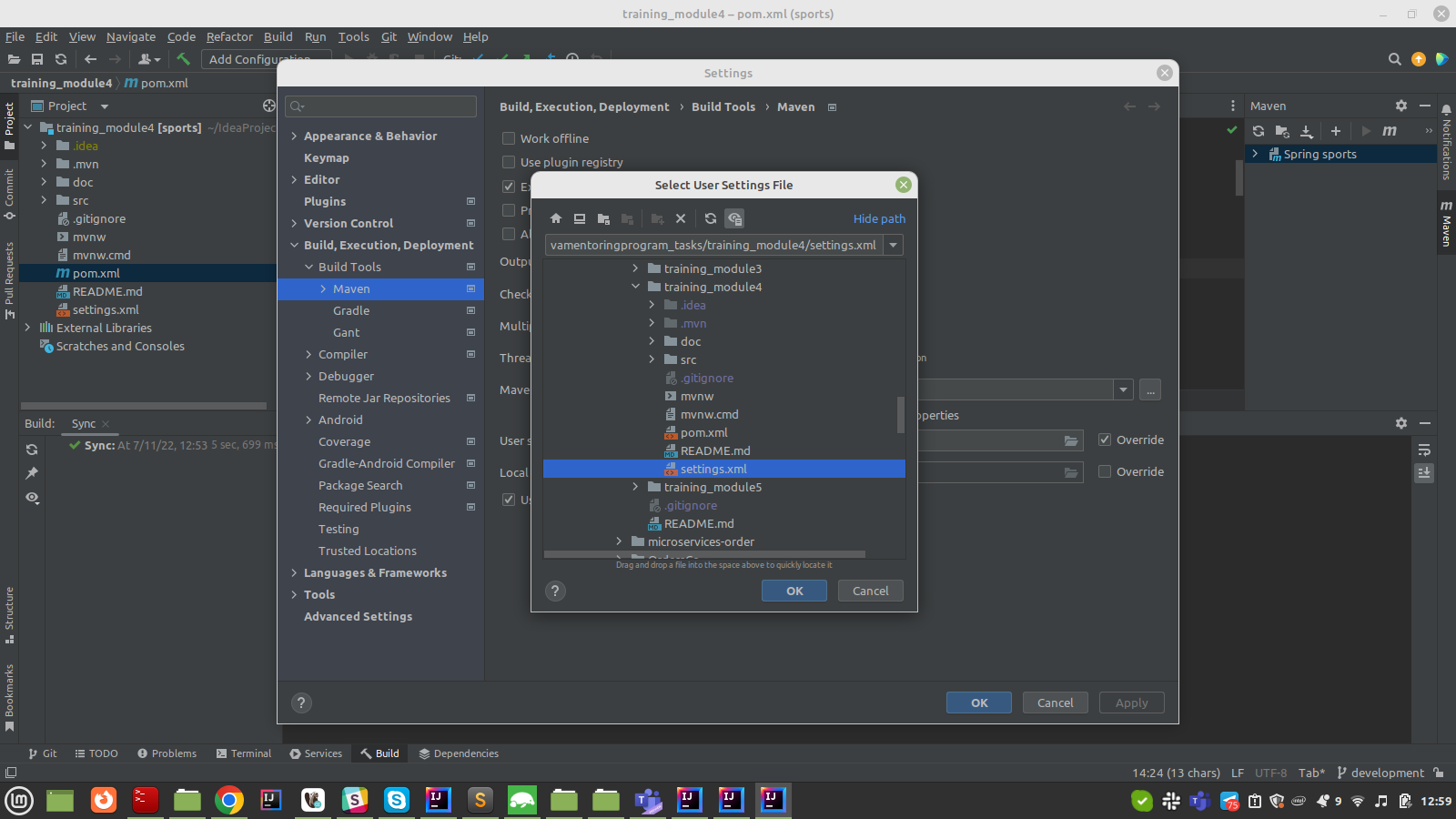
Graphical user interface, text, application

Description automatically generated

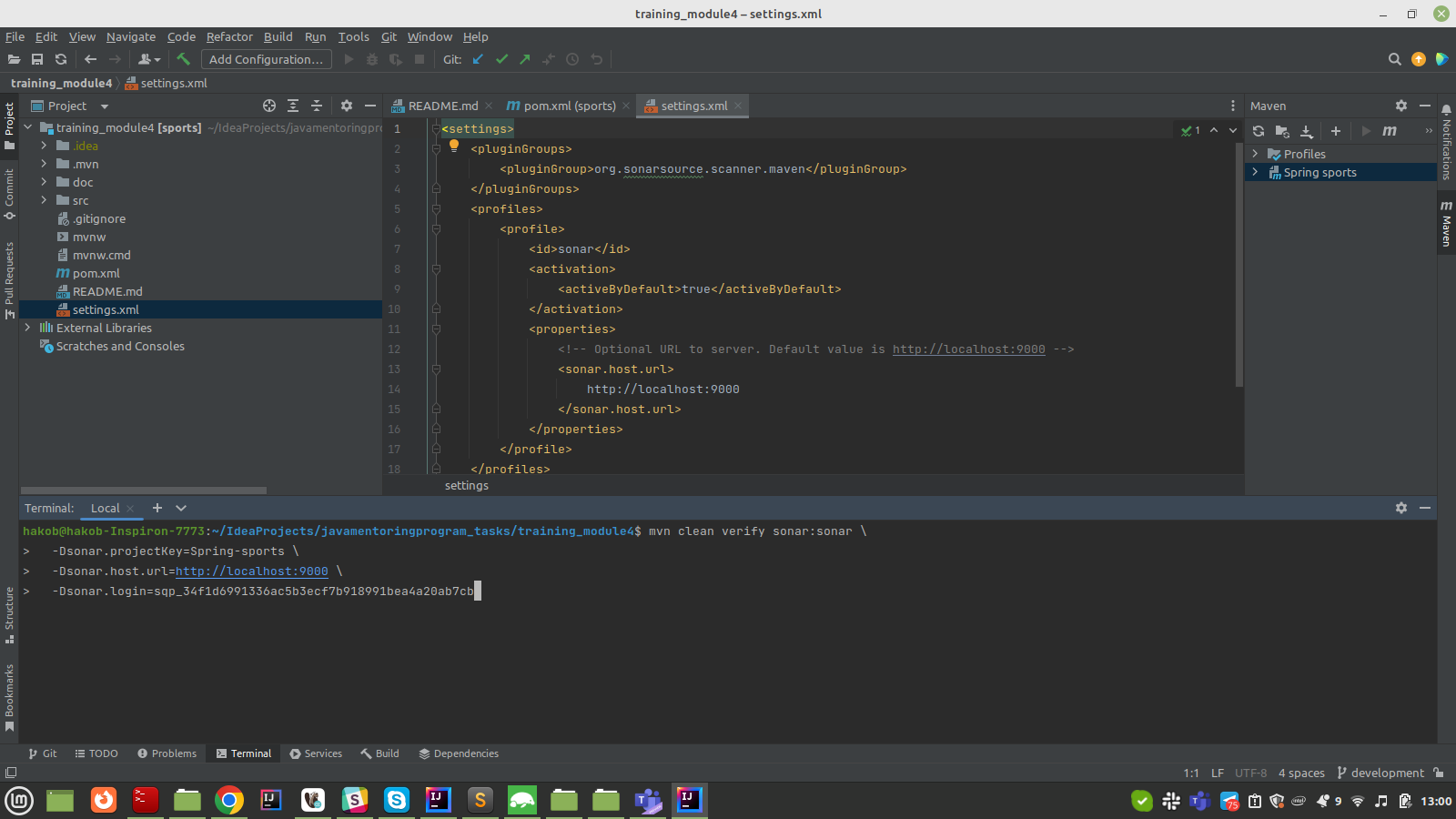
Command for run sonarqube for maven application:



Setting up settings.xml file for maven config



File content with run command in terminal:

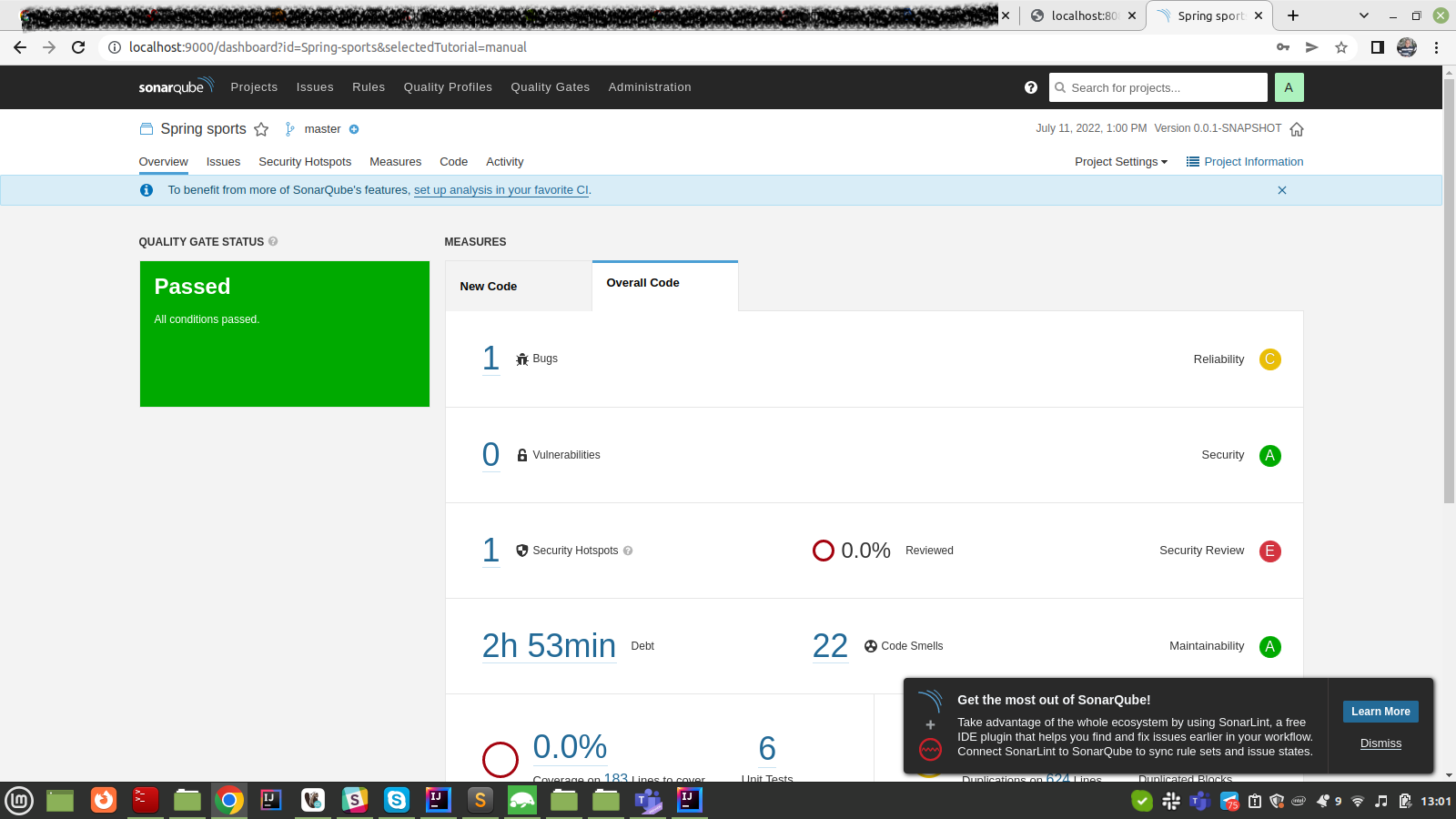


Maven verifying with sonarqube results:

A screenshot of a computer

Description automatically generated

Results in sonarcube web gui



Different bugs, duplicates and smells found in analyzing results:

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Graphical user interface, text, application, Word

Description automatically generated

Fixing them

Graphical user interface, text

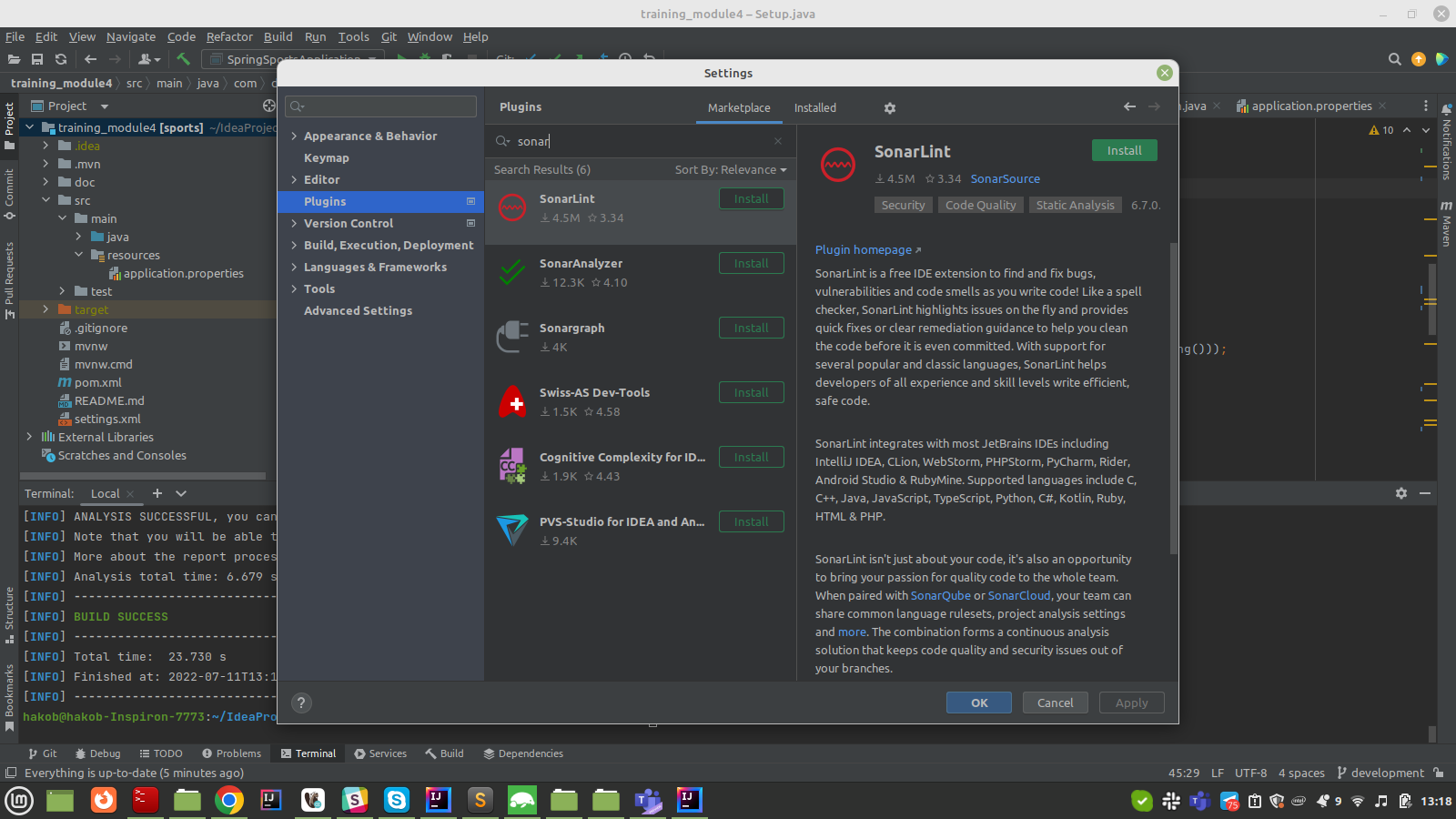
Description automatically generated

Another code smell found

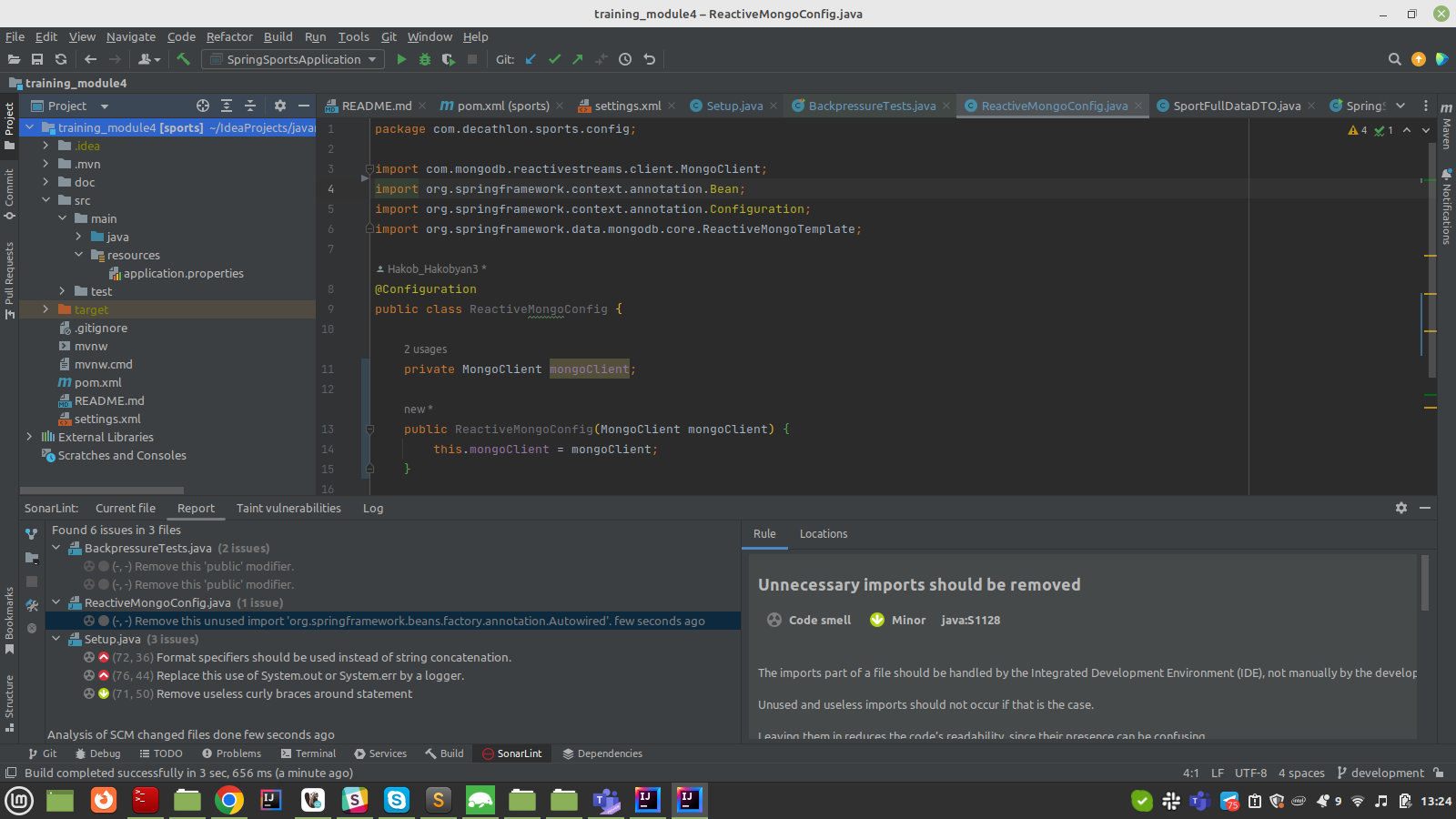
A screenshot of a computer

Description automatically generated

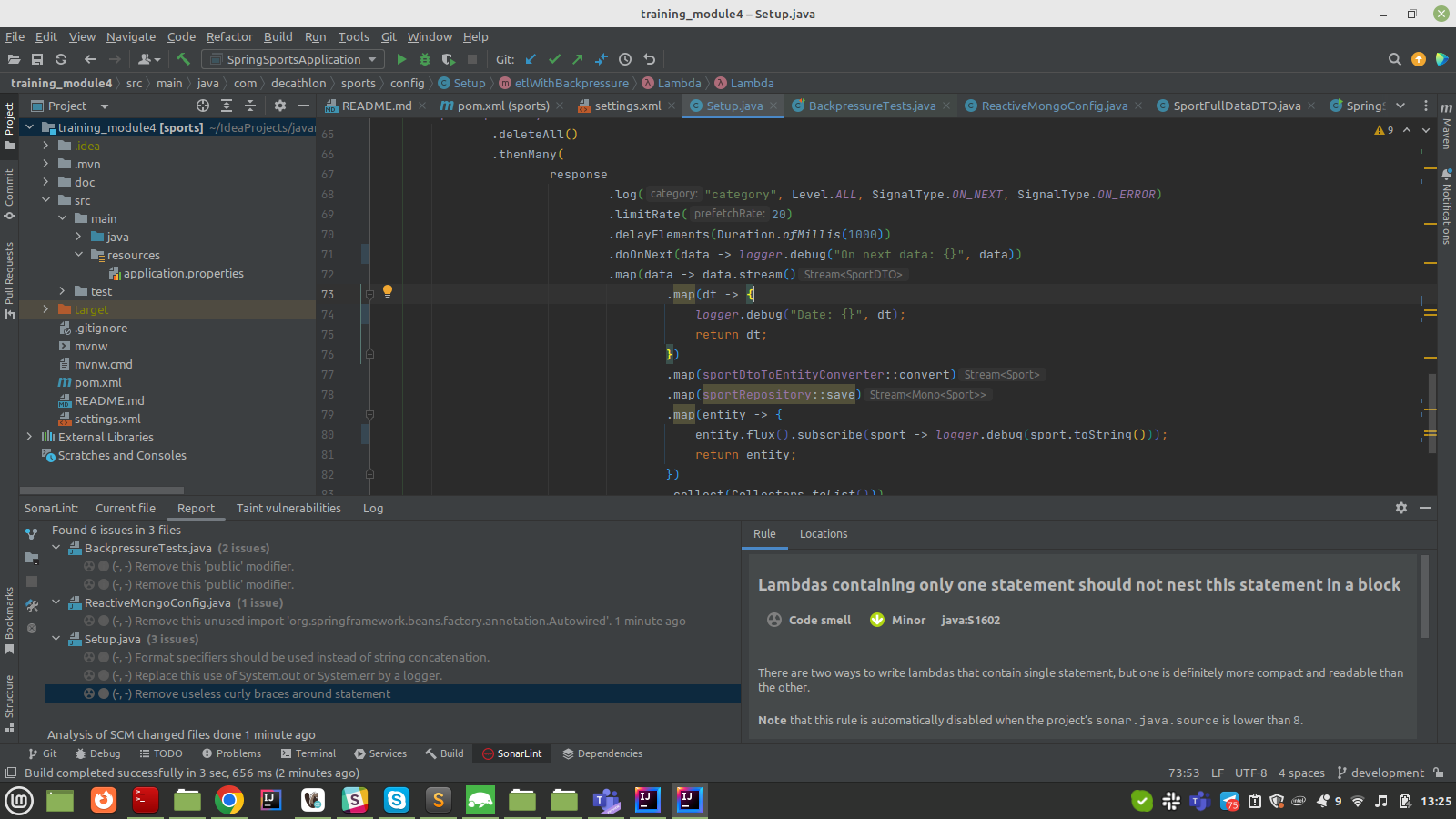
Installing sonarlint for making process faster

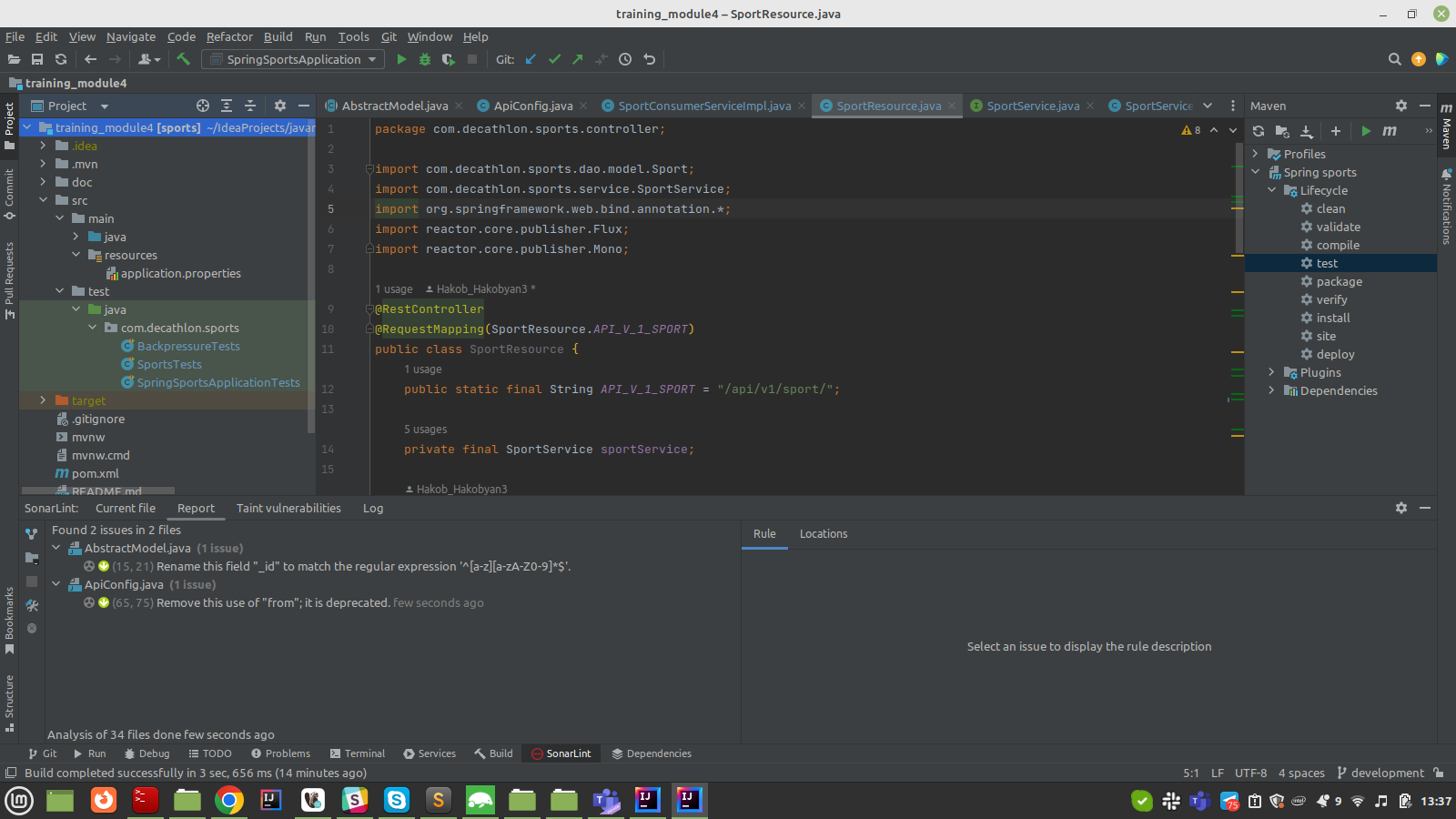


Analyzing with sonarlint

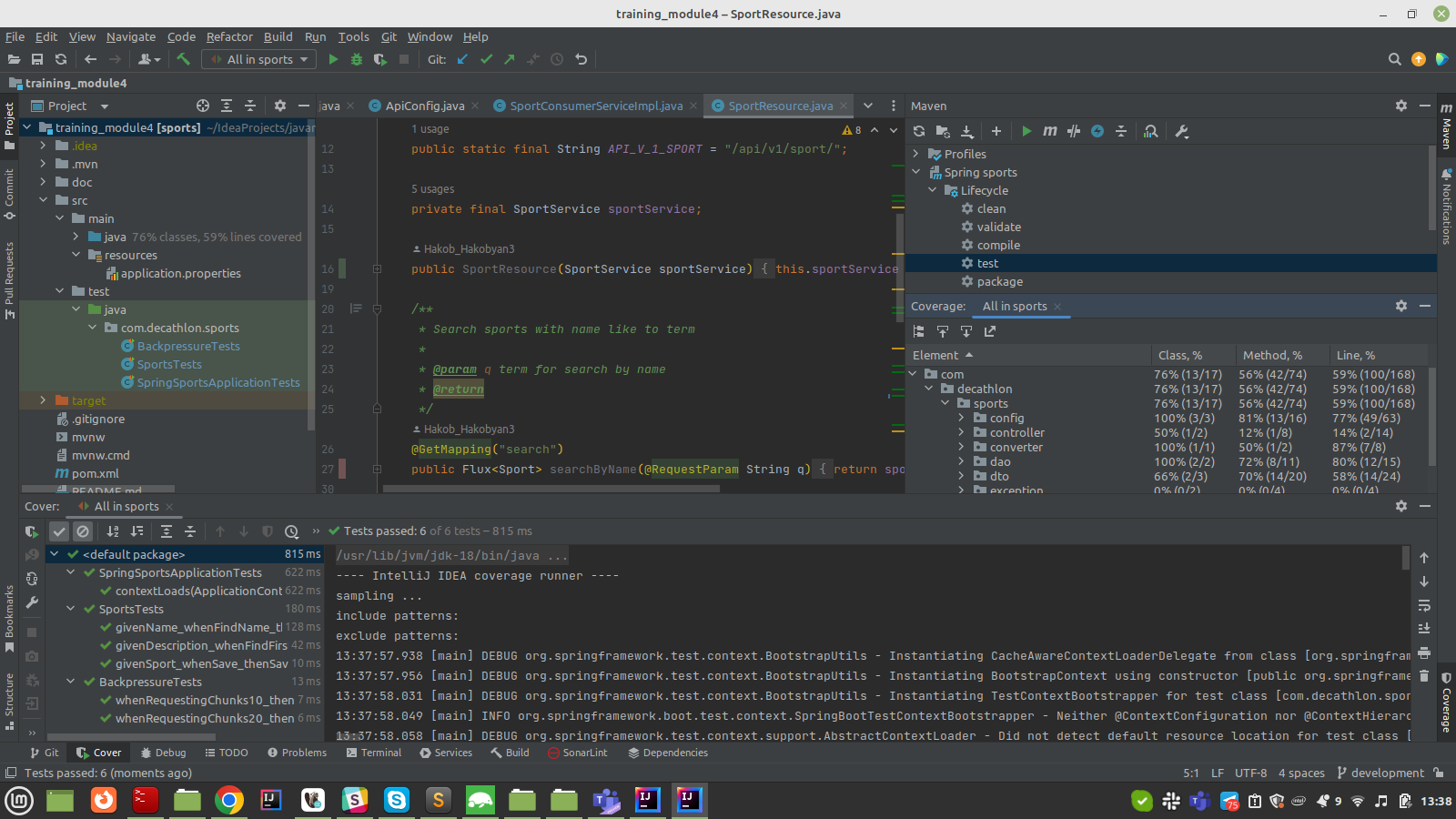


Fixing issues from sonarlint

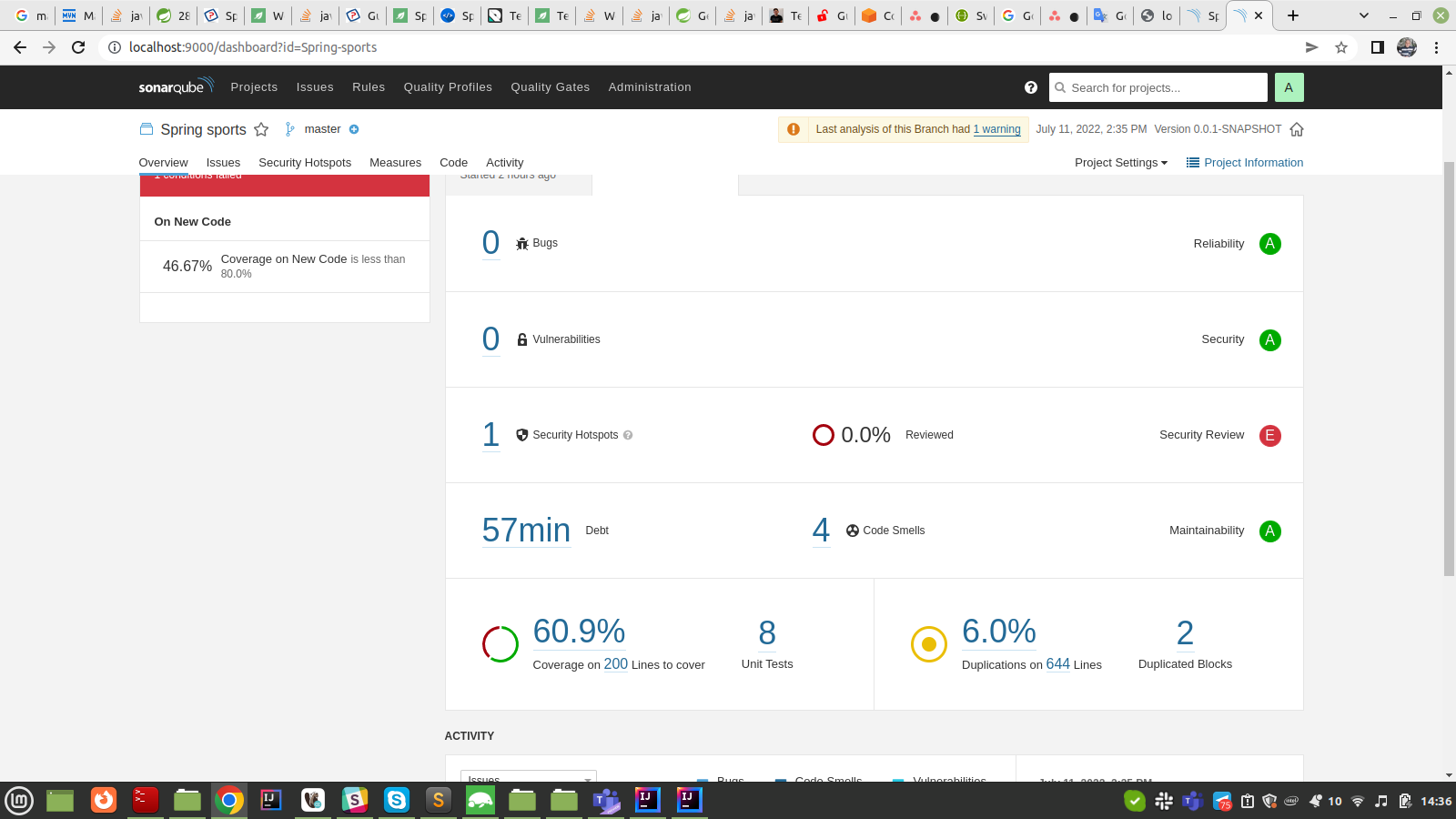




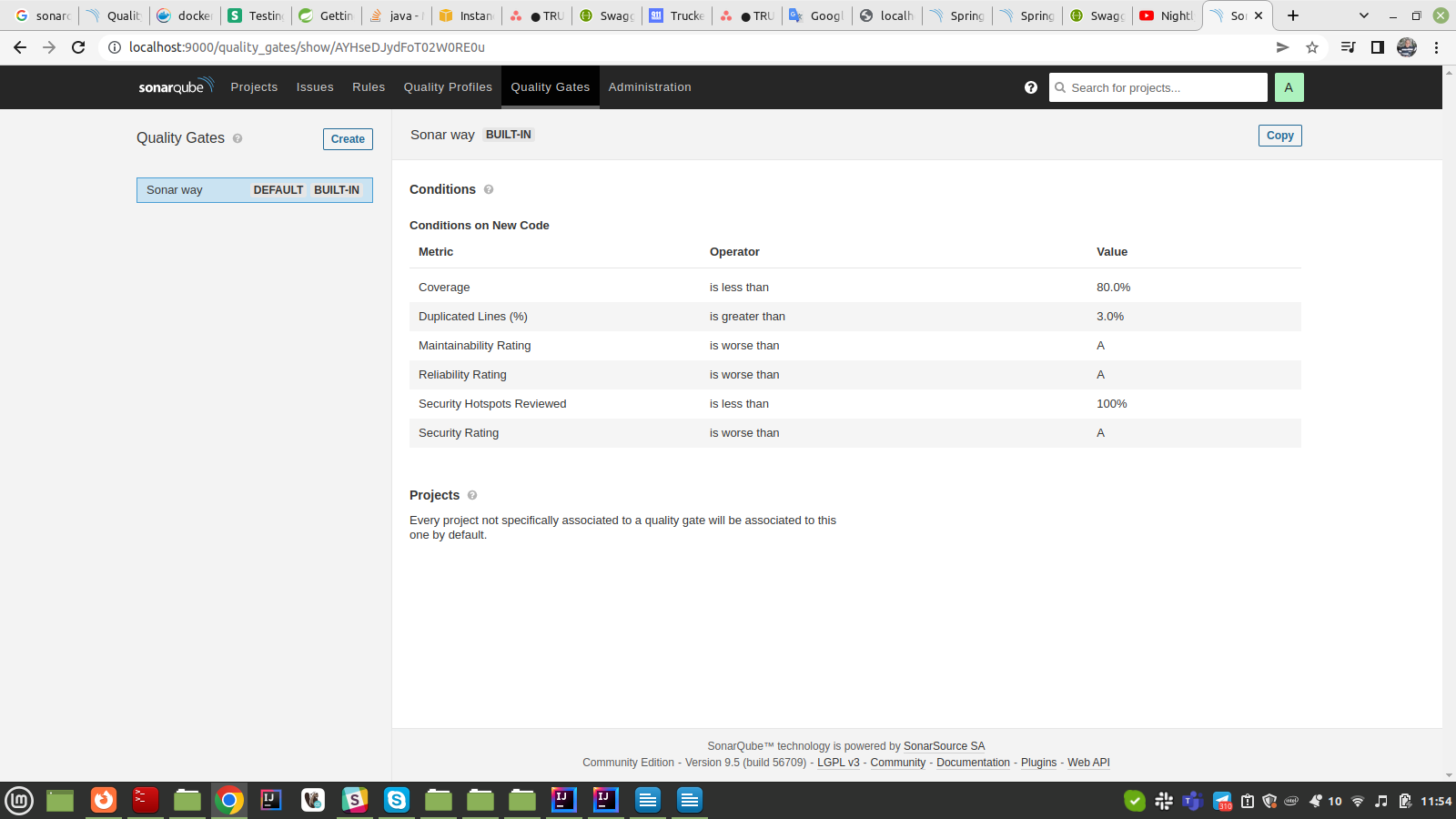
Running tests with checking coverage:



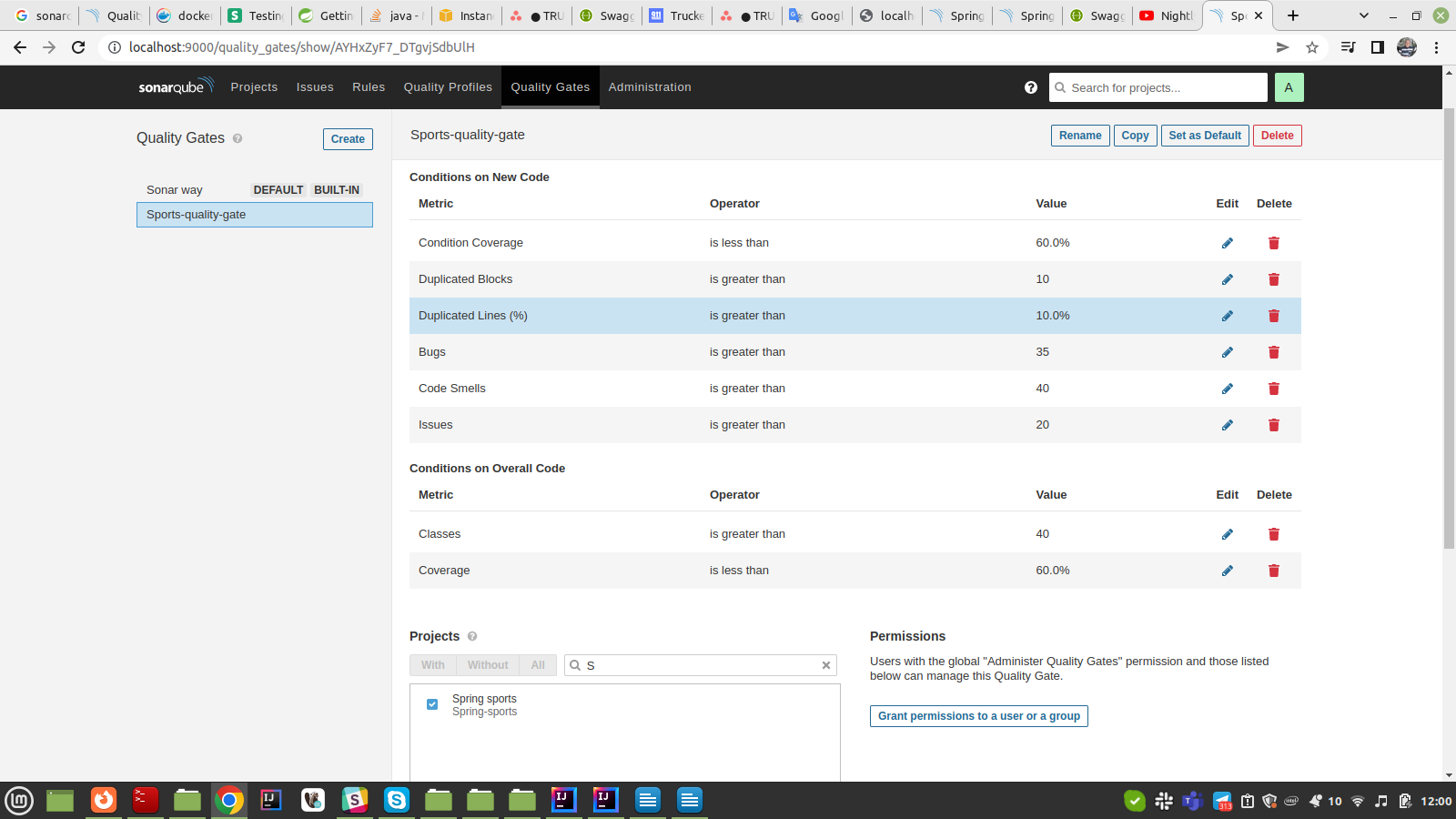
Current code analyze results:

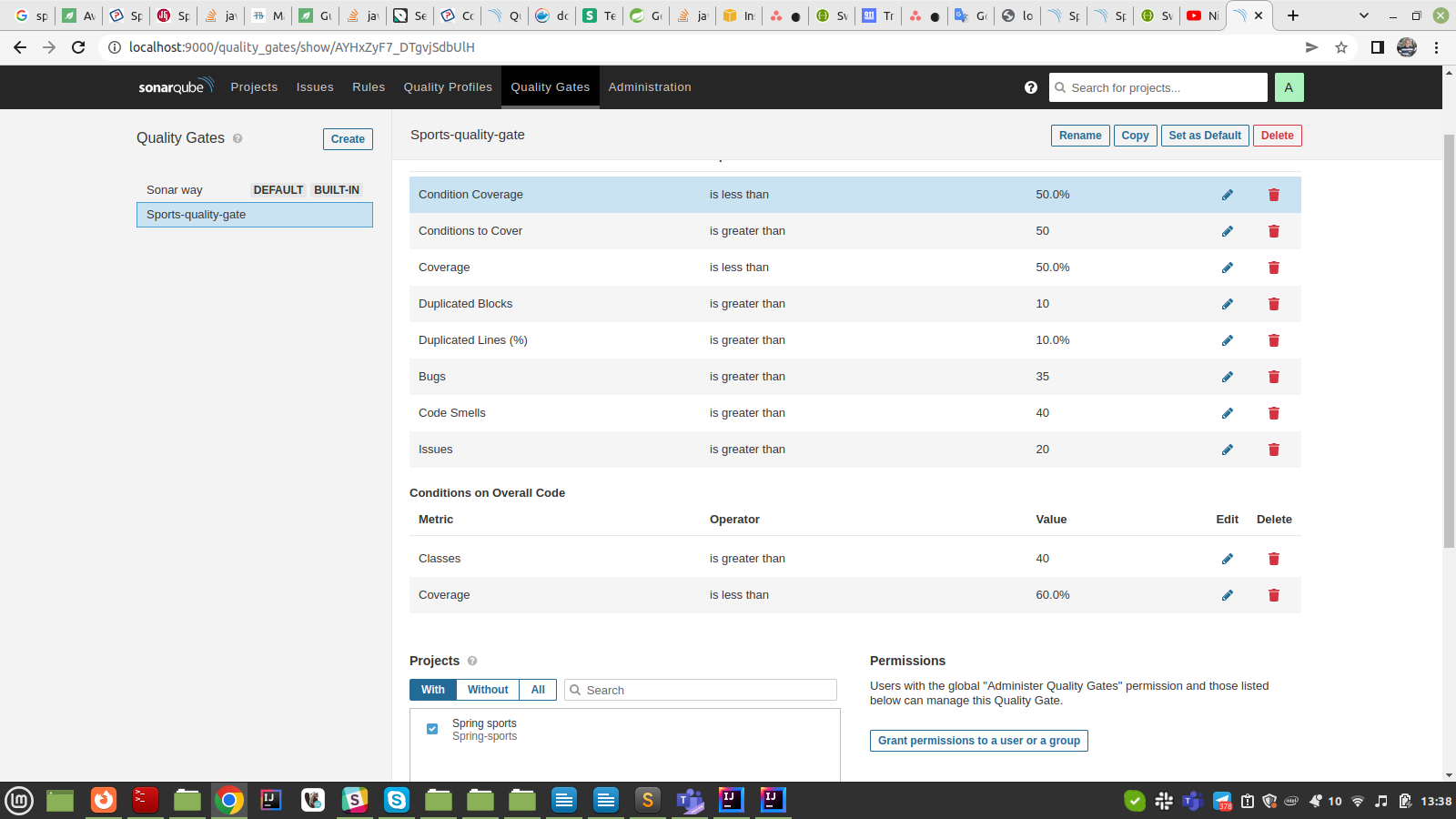


Setup quality gate

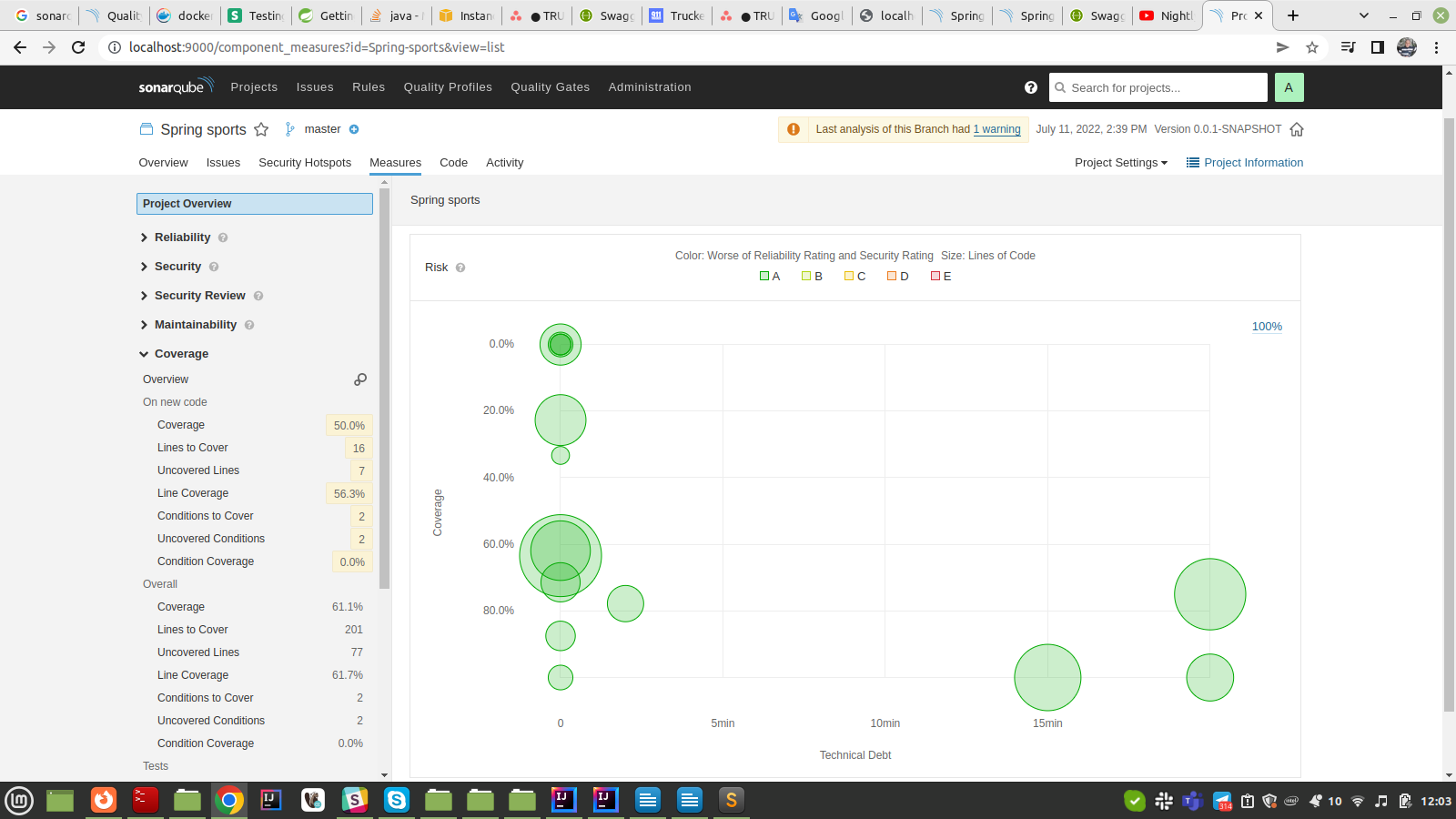


Increasing test coverage for service layer and for REST calls

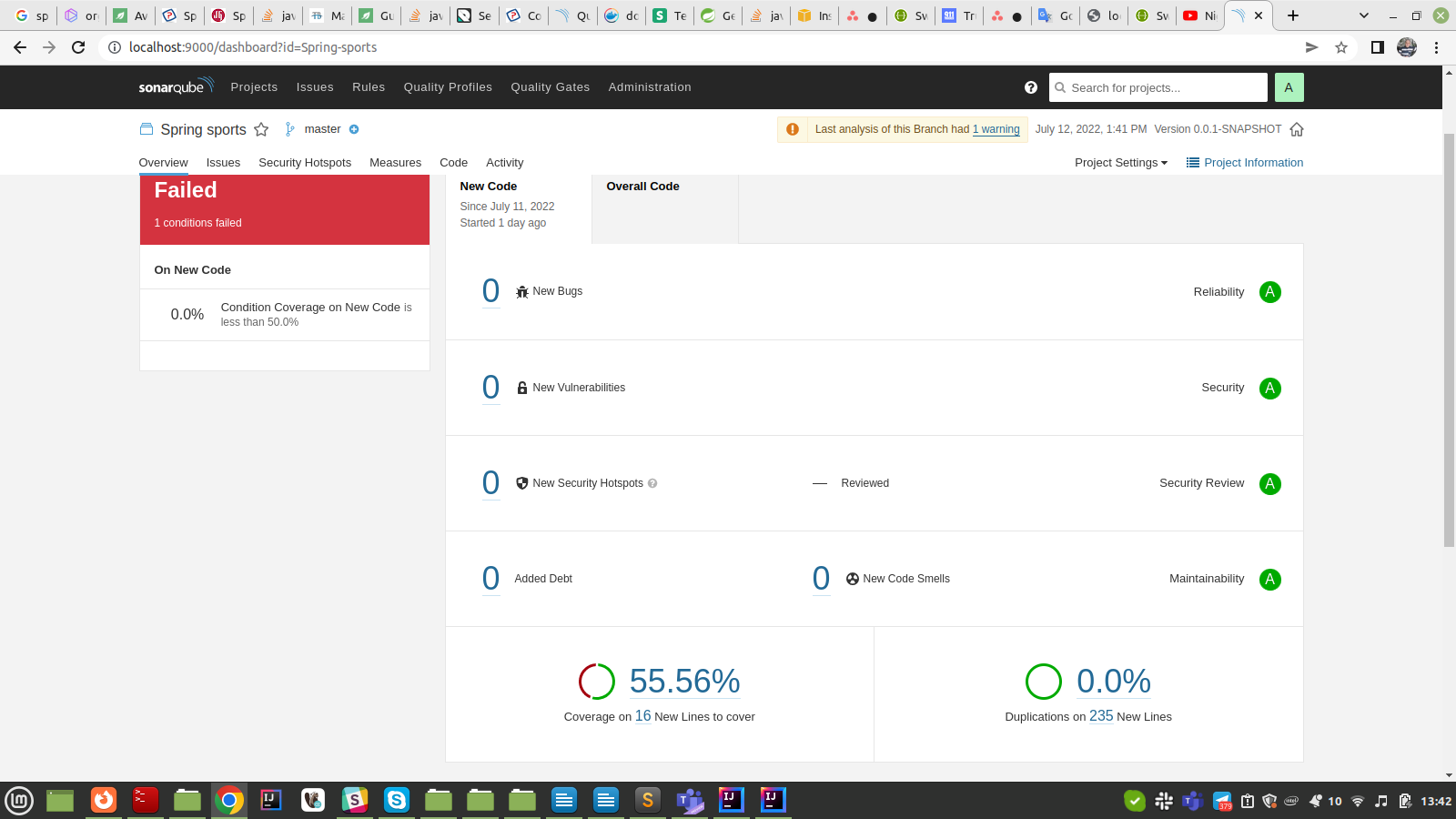




Result of coverage



Improving test coverage, adding new test for service layer and for REST calls



Final result with SonarLint analyzer

A screenshot of a computer

Description automatically generated with medium confidence