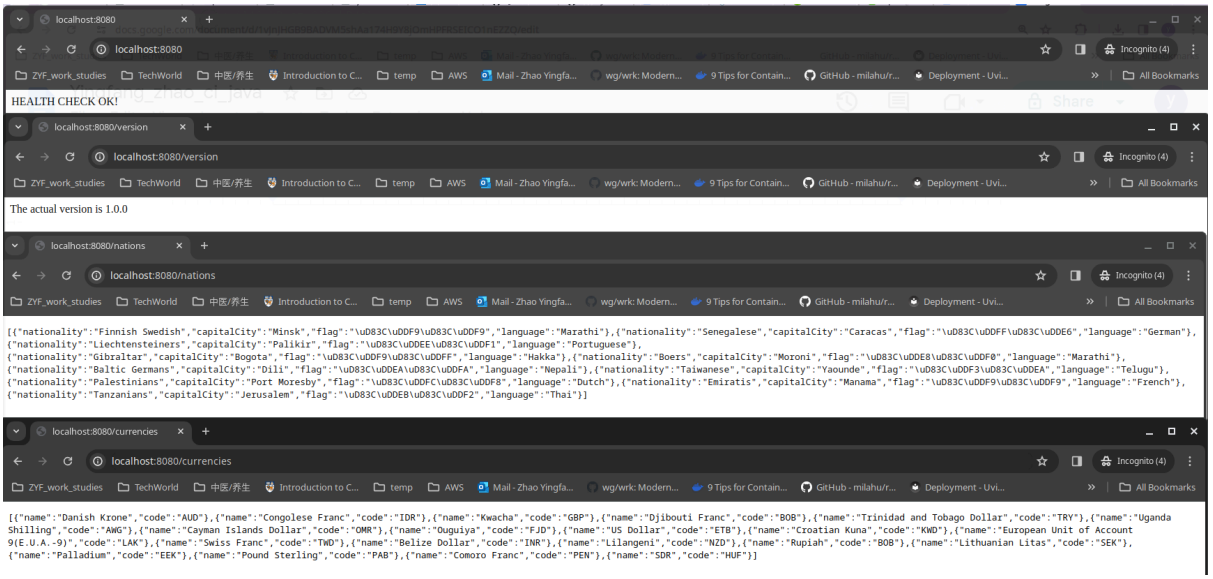
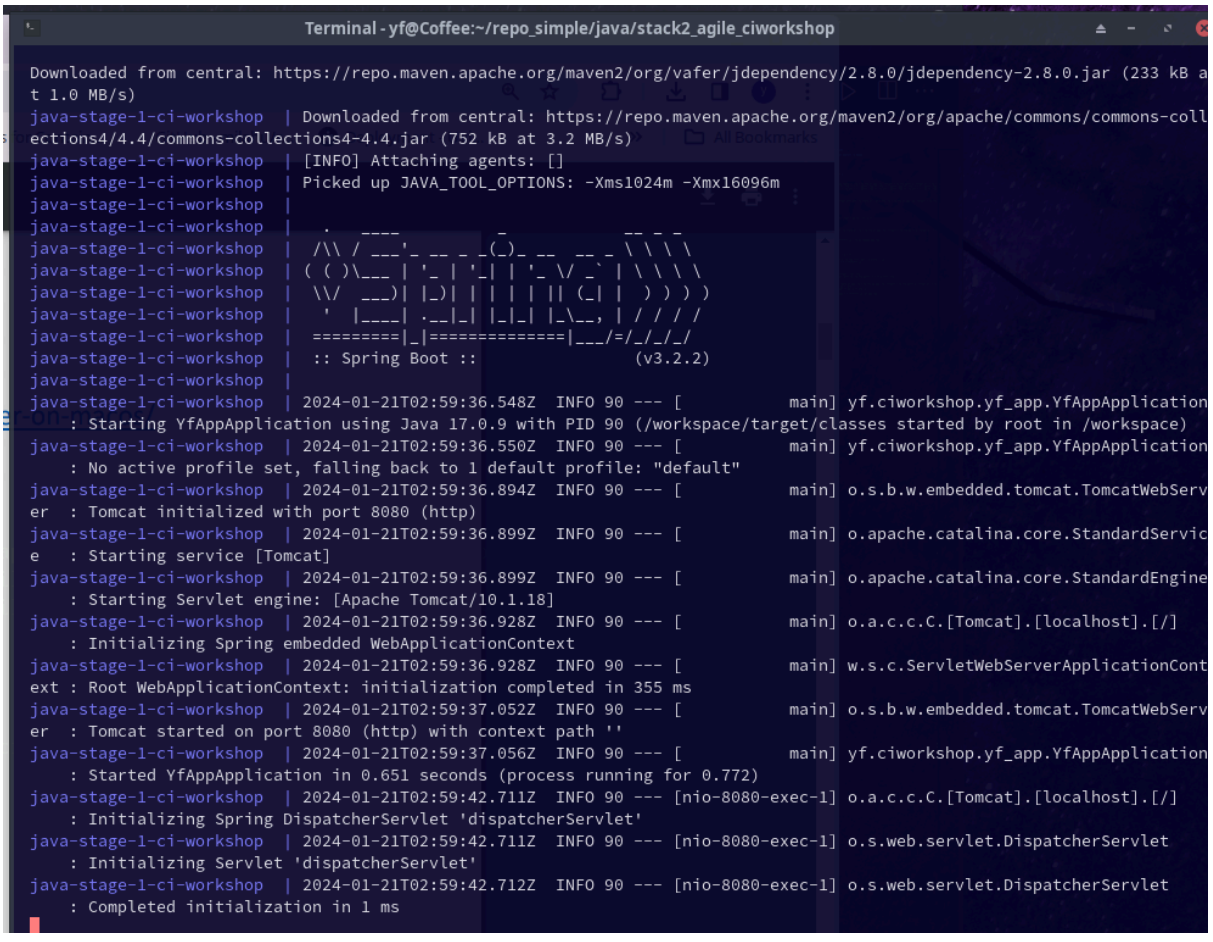
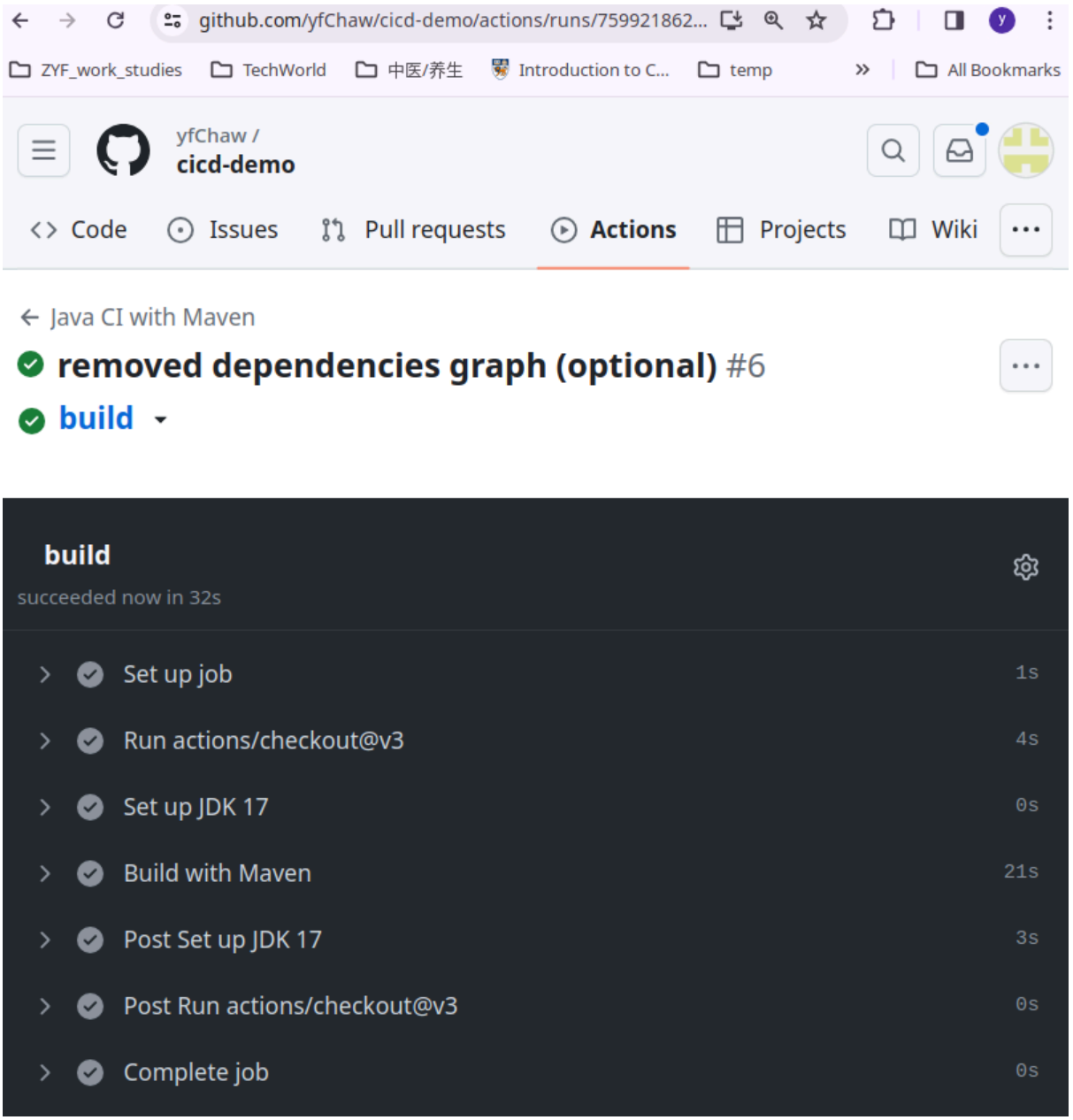
Part 1

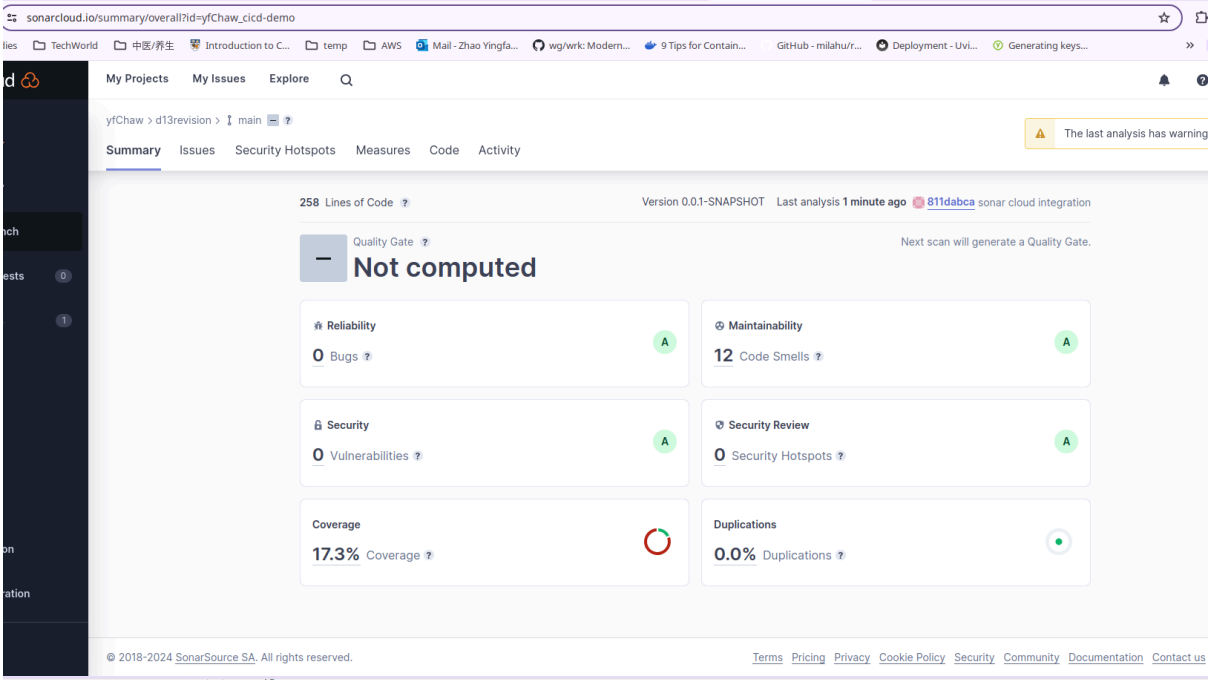

localhost:8080
HEALTH CHECK OK!
localhost:8080/version
The actual version is 1.0.0
localhost:8080/nations
[{"nationality":"Finnish Swedish","capitalCity":"Minsk","flag":"\uD83C\uDDF9\uD83C\uDDF9","language":"Marathi"},{"nationality":"Senegalese","capitalCity":"Caracas","flag":"\uD83C\uDDFF\uD83C\uDDE6","language":"German"},
{"nationality":"Liechtensteiners","capitalCity":"Palikir","flag":"\uD83C\uDDEE\uD83C\uDDF1","language":"Portuguese"},
{"nationality":"Gibraltar","capitalCity":"Bogota","flag":"\uD83C\uDDF9\uD83C\uDDFF","language":"Hakka"},{"nationality":"Boers","capitalCity":"Moroni","flag":"\uD83C\uDDE8\uD83C\uDDF0","language":"Marathi"},
{"nationality":"Baltic Germans","capitalCity":"Dili","flag":"\uD83C\uDDEA\uD83C\uDDFA","language":"Nepali"},{"nationality":"Taiwanese","capitalCity":"Yaounde","flag":"\uD83C\uDDF3\uD83C\uDDEA","language":"Telugu"},
{"nationality":"Palestinians","capitalCity":"Port Moresby","flag":"\uD83C\uDDFC\uD83C\uDDF8","language":"Dutch"},{"nationality":"Emiratis","capitalCity":"Manama","flag":"\uD83C\uDDF9\uD83C\uDDF9","language":"French"},
{"nationality":"Tanzanians","capitalCity":"Jerusalem","flag":"\uD83C\uDDE8\uD83C\uDDF2","language":"Thai"}]
localhost:8080/currencies
[{"name":"Danish Krone","code":"AUD"},{"name":"Congolese Franc","code":"IDR"},{"name":"Kwacha","code":"GBP"},{"name":"Djibouti Franc","code":"BOB"},{"name":"Trinidad and Tobago Dollar","code":"TRY"},{"name":"Uganda
Shilling","code":"AWG"},{"name":"Cayman Islands Dollar","code":"OMR"},{"name":"Ouguiya","code":"FJD"},{"name":"US Dollar","code":"ETB"},{"name":"Croatian Kuna","code":"KWD"},{"name":"European Unit of Account
9(E.U.A.-9)","code":"LAK"},{"name":"Swiss Franc","code":"TWD"},{"name":"Belize Dollar","code":"INR"},{"name":"Lilangeni","code":"NZD"},{"name":"Rupiah","code":"BOB"},{"name":"Lithuanian Litas","code":"SEK"},
{"name":"Palladium","code":"EEK"},{"name":"Pound Sterling","code":"PAB"},{"name":"Comoro Franc","code":"PEN"},{"name":"SDR","code":"HUF"}]


Terminal - yf@Coffee:~/repo_simple/java/stack2_agile_ciworkshop
Downloaded from central: https://repo.maven.apache.org/maven2/org/vafer/jdependency/2.8.0/jdependency-2.8.0.jar (233 kB a
t 1.0 MB/s)
java-stage-1-ci-workshop | Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-coll
ections4/4.4/commons-collections4-4.4.jar (752 kB at 3.2 MB/s)
java-stage-1-ci-workshop | [INFO] Attaching agents: []
java-stage-1-ci-workshop | Picked up JAVA_TOOL_OPTIONS: -Xms1024m -Xmx16096m
java-stage-1-ci-workshop |
java-stage-1-ci-workshop | . ____ _ __ _ _
java-stage-1-ci-workshop | /\\ / ___'_ __ _ _(_)_ __ __ _ \ \ \ \
java-stage-1-ci-workshop | (( )___ | '_ | '_| | '_ \/ _` | \ \ \ \
java-stage-1-ci-workshop | \\/ ___)| |_)| | | | | || (_| |))))
java-stage-1-ci-workshop | ' |____| .__|_| |_|_| |___, | / / / /
java-stage-1-ci-workshop | =========|_|==============|___/=/_/_/_/
java-stage-1-ci-workshop | :: Spring Boot :: (v3.2.2)
java-stage-1-ci-workshop |
java-stage-1-ci-workshop | 2024-01-21T02:59:36.548Z INFO 90 --- [main] yf.ciworkshop.yf_app.YfAppApplication
: Starting YfAppApplication using Java 17.0.9 with PID 90 (/workspace/target/classes started by root in /workspace)
java-stage-1-ci-workshop | 2024-01-21T02:59:36.550Z INFO 90 --- [main] yf.ciworkshop.yf_app.YfAppApplication
: No active profile set, falling back to 1 default profile: "default"
java-stage-1-ci-workshop | 2024-01-21T02:59:36.894Z INFO 90 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServ
er : Tomcat initialized with port 8080 (http)
java-stage-1-ci-workshop | 2024-01-21T02:59:36.899Z INFO 90 --- [main] o.apache.catalina.core.StandardServic
e : Starting service [Tomcat]
java-stage-1-ci-workshop | 2024-01-21T02:59:36.899Z INFO 90 --- [main] o.apache.catalina.core.StandardEngine
: Starting Servlet engine: [Apache Tomcat/10.1.18]
java-stage-1-ci-workshop | 2024-01-21T02:59:36.928Z INFO 90 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/]
: Initializing Spring embedded WebApplicationContext
java-stage-1-ci-workshop | 2024-01-21T02:59:36.928Z INFO 90 --- [main] w.s.c.ServletWebServerApplicationCont
ext : Root WebApplicationContext: initialization completed in 355 ms
java-stage-1-ci-workshop | 2024-01-21T02:59:37.052Z INFO 90 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServ
er : Tomcat started on port 8080 (http) with context path ''
java-stage-1-ci-workshop | 2024-01-21T02:59:37.056Z INFO 90 --- [main] yf.ciworkshop.yf_app.YfAppApplication
: Started YfAppApplication in 0.651 seconds (process running for 0.772)
java-stage-1-ci-workshop | 2024-01-21T02:59:42.711Z INFO 90 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/]
: Initializing Spring DispatcherServlet 'dispatcherServlet'
java-stage-1-ci-workshop | 2024-01-21T02:59:42.711Z INFO 90 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet
: Initializing Servlet 'dispatcherServlet'
java-stage-1-ci-workshop | 2024-01-21T02:59:42.712Z INFO 90 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet
: Completed initialization in 1 ms

Part 2
https://github.com/yfChaw/cicd-demo



SonarCloud


sonarcloud.io/summary/overall?id=yfChaw_cicd-demo
My Projects
My Issues
Explore
yfChaw > d13revision > main
The last analysis has warning
Summary
Issues
Security Hotspots
Measures
Code
Activity
258 Lines of Code
Version 0.0.1-SNAPSHOT
Last analysis 1 minute ago
811dabca sonar cloud integration
Quality Gate
Not computed
Next scan will generate a Quality Gate.
Reliability
0 Bugs
Maintainability
12 Code Smells
Security
0 Vulnerabilities
Security Review
0 Security Hotspots
Coverage
17.3% Coverage
Duplications
0.0% Duplications
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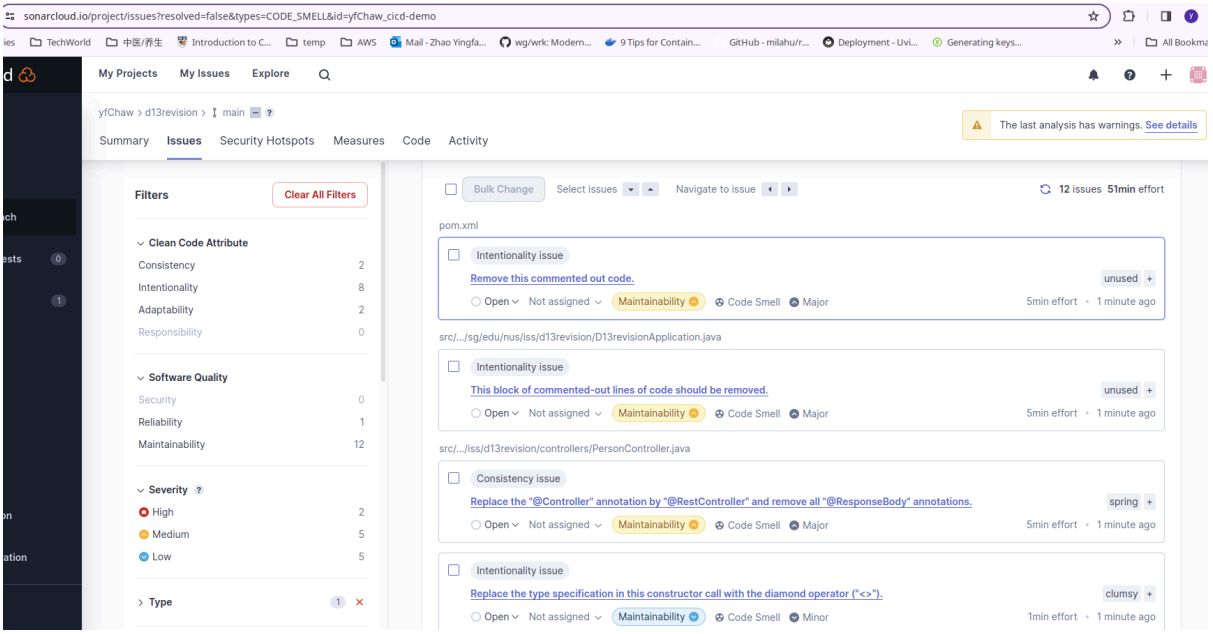
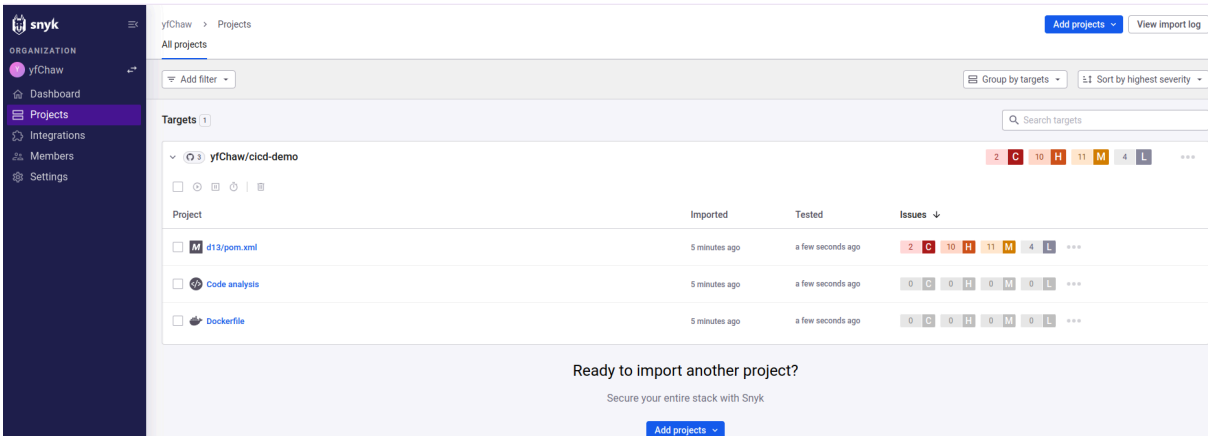
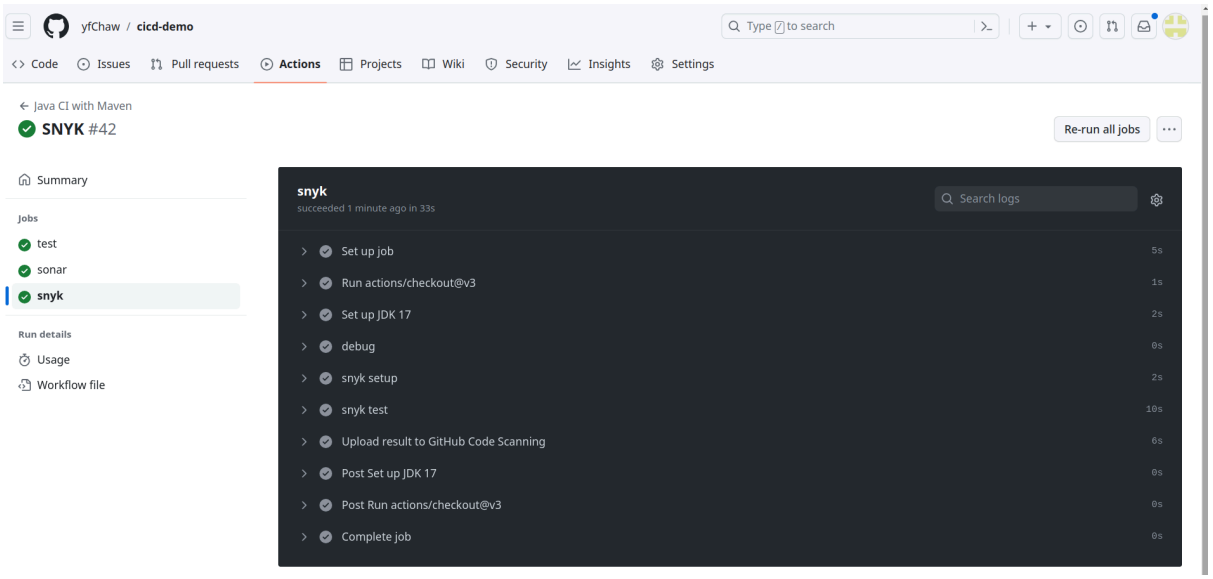
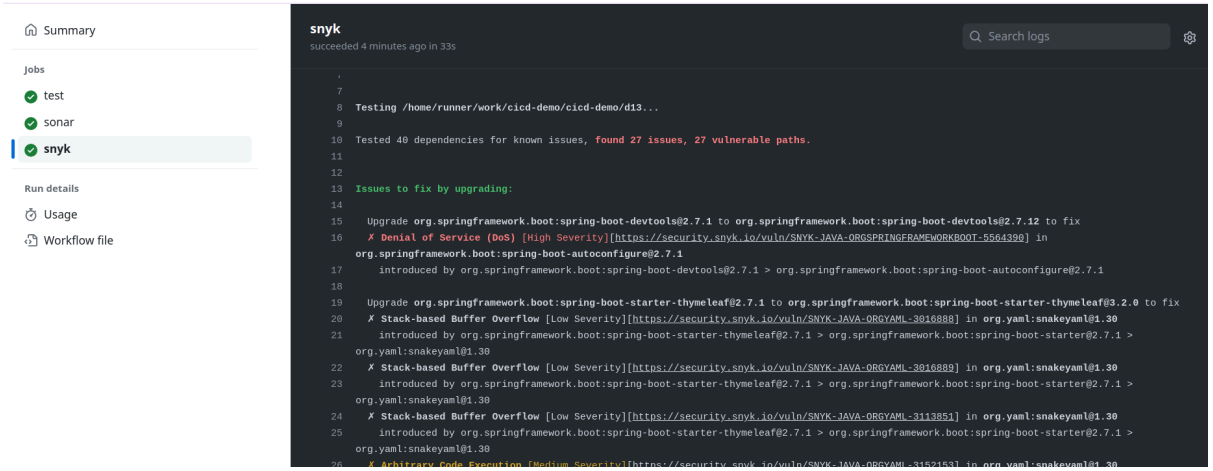
Terms
Pricing
Privacy
Cookie Policy
Security
Community
Documentation
Contact us


sonarcloud.io/project/issues?resolved=false&types=CODE_SMELL&id=yfChaw_cicd-demo
My Projects
My Issues
Explore
yfChaw > d13revision > main
The last analysis has warnings. See details
Summary
Issues
Security Hotspots
Measures
Code
Activity
Filters
Clear All Filters
Clean Code Attribute
Consistency 2
Intentionality 8
Adaptability 2
Responsibility 0
Software Quality
Security 0
Reliability 1
Maintainability 12
Severity
High 2
Medium 5
Low 5
Type
Bulk Change
Select issues
Navigate to issue
12 issues 51min effort
pom.xml
Intentionality issue
Remove this commented out code.
unused
Open
Not assigned
Maintainability
Code Smell
Major
5min effort
1 minute ago
src/.../sg/edu/nus/iss/d13revision/D13revisionApplication.java
Intentionality issue
This block of commented-out lines of code should be removed.
unused
Open
Not assigned
Maintainability
Code Smell
Major
5min effort
1 minute ago
src/.../iss/d13revision/controllers/PersonController.java
Consistency issue
Replace the "@Controller" annotation by "@RestController" and remove all "@ResponseBody" annotations.
spring
Open
Not assigned
Maintainability
Code Smell
Major
5min effort
1 minute ago
Intentionality issue
Replace the type specification in this constructor call with the diamond operator ("<>").
clumsy
Open
Not assigned
Maintainability
Code Smell
Minor
1min effort
1 minute ago

SNYK


snyk
ORGANIZATION
yfChaw
Dashboard
Projects
Integrations
Members
Settings
yfChaw › Projects
All projects
Add projects
View import log
Add filter
Group by targets
Sort by highest severity
Targets 1
Search targets
yfChaw/cicd-demo
Project
Imported
Tested
Issues
d13/pom.xml
5 minutes ago
a few seconds ago
Code analysis
5 minutes ago
a few seconds ago
Dockerfile
5 minutes ago
a few seconds ago
Ready to import another project?
Secure your entire stack with Snyk
Add projects


yfChaw / cicd-demo
Type / to search
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
Java CI with Maven
SNYK #42
Re-run all jobs
Summary
Jobs
test
sonar
snyk
Run details
Usage
Workflow file
snyk
succeeded 1 minute ago in 33s
Search logs
Set up job 5s
Run actions/checkout@v3 1s
Set up JDK 17 2s
debug 0s
snyk setup 2s
snyk test 10s
Upload result to GitHub Code Scanning 6s
Post Set up JDK 17 0s
Post Run actions/checkout@v3 0s
Complete job 0s


Summary
Jobs
test
sonar
snyk
Run details
Usage
Workflow file
snyk
succeeded 4 minutes ago in 33s
Search logs
Testing /home/runner/work/cicd-demo/cicd-demo/d13...
Tested 40 dependencies for known issues, found 27 issues, 27 vulnerable paths.
Issues to fix by upgrading:
Upgrade org.springframework.boot:spring-boot-devtools@2.7.1 to org.springframework.boot:spring-boot-devtools@2.7.12 to fix
✗ Denial of Service (DoS) [High Severity][https://security.snyk.io/vuln/SNYK-JAVA-ORGSPRINGFRAMEWORKBOOT-5564390] in org.springframework.boot:spring-boot-autoconfigure@2.7.1
introduced by org.springframework.boot:spring-boot-devtools@2.7.1 > org.springframework.boot:spring-boot-autoconfigure@2.7.1
Upgrade org.springframework.boot:spring-boot-starter-thymeleaf@2.7.1 to org.springframework.boot:spring-boot-starter-thymeleaf@3.2.0 to fix
✗ Stack-based Buffer Overflow [Low Severity][https://security.snyk.io/vuln/SNYK-JAVA-ORGYAML-3016888] in org.yaml:snakeyaml@1.30
introduced by org.springframework.boot:spring-boot-starter-thymeleaf@2.7.1 > org.springframework.boot:spring-boot-starter@2.7.1 > org.yaml:snakeyaml@1.30
✗ Stack-based Buffer Overflow [Low Severity][https://security.snyk.io/vuln/SNYK-JAVA-ORGYAML-3016889] in org.yaml:snakeyaml@1.30
introduced by org.springframework.boot:spring-boot-starter-thymeleaf@2.7.1 > org.springframework.boot:spring-boot-starter@2.7.1 > org.yaml:snakeyaml@1.30
✗ Stack-based Buffer Overflow [Low Severity][https://security.snyk.io/vuln/SNYK-JAVA-ORGYAML-3113851] in org.yaml:snakeyaml@1.30
introduced by org.springframework.boot:spring-boot-starter-thymeleaf@2.7.1 > org.springframework.boot:spring-boot-starter@2.7.1 > org.yaml:snakeyaml@1.30
✗ Arbitrary Code Execution [Medium Severity][https://security.snyk.io/vuln/SNYK-JAVA-ORGYAML-31521531 in org.yaml:snakeyaml@1.30

Part 3 Railway

Welcome

Person List

Person List

Add Person

Id	First Name	Last Name	Edit	Delete
f403c750	Mark	Zuckerberg	Update	Delete
bd3af94d	Elon	Musk	Update	Delete

Code edited in repo:

```java
@SpringBootApplication
public class D13revisionApplication {

    public static void main(String[] args) {
        // SpringApplication.run(D13revisionApplication.class, args);

        SpringApplication app = new SpringApplication(D13revisionApplication.class);
        String port="8085";
        // https://docs.railway.app/guides/public-networking
        String envPort = System.getenv("PORT");
        if (envPort != null){
            port = envPort;
        }
```