

SonarQube Integration Project Submission

Project: AddressBookSystem (Address Book Module)

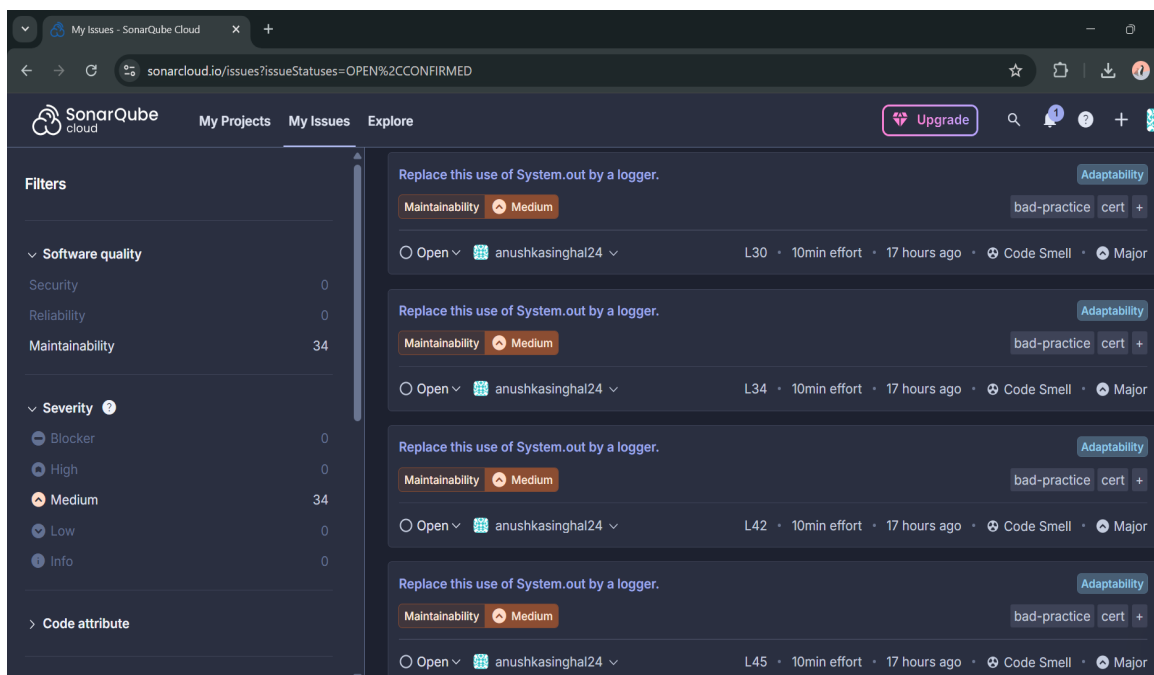
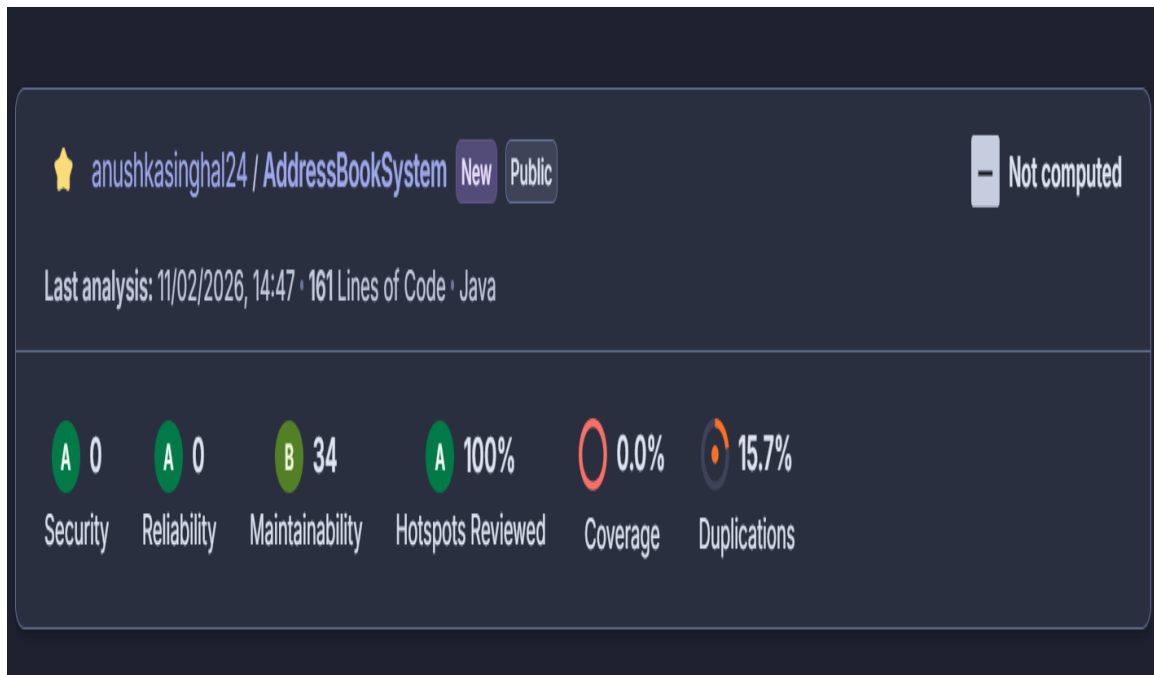
1) Project Overview

- Integrated SonarQube Community Build with Java Project.
- Project Name: AddressBookSystem
- Module Included: Address Book Module
- Type: Core Java + Eclipse Project
- Source Folder: src
- Compiled Output Folder: bin

2) Sonar Scanner Execution (ANALYSIS SUCCESSFUL)

```
Windows PowerShell
14:47:47.838 INFO Sensor Java A3S Project Context Collector [javaa3scontextcollector]
14:47:47.838 INFO Sensor Java A3S Project Context Collector [javaa3scontextcollector] (done) | time=0ms
14:47:47.840 INFO Sensor JavaProjectSensor [java]
14:47:47.844 INFO Sensor JavaProjectSensor [java] (done) | time=7ms
14:47:47.845 INFO Sensor JavaArchitectureSensor [architecture]
14:47:47.869 INFO Architecture analysis is enabled with the following features: legacy
14:47:47.873 INFO * Protobuf reading starting | memory total=560 | free=183 | used=376 (MB)
14:47:47.874 INFO * Reading SonarArchitecture UDG data from directory "D:\AddressBookGithub\AddressBookSystem\scannerwork\architecture\java"
14:47:48.141 INFO * Files successfully loaded: "3" out of "3"
14:47:48.142 INFO * Purging externals (components not scanned) from graphs
14:47:48.144 INFO * Purging excluded nodes from graphs
14:47:48.146 INFO * Protobuf reading complete | memory total=560 | free=169 | used=390 (MB)
14:47:48.176 INFO * Build architecture.graph.java.namespace_graph.default_perspective hierarchy graph complete (filtered=false) | memory total=560 | free=165 | used=394 (MB)
14:47:48.191 INFO Sensor JavaArchitectureSensor [architecture] (done) | time=347ms
14:47:48.192 INFO Sensor Zero Coverage Sensor
14:47:48.205 INFO Sensor Zero Coverage Sensor (done) | time=14ms
14:47:48.206 INFO Sensor Java CPD Block Indexer
14:47:48.241 INFO Sensor Java CPD Block Indexer (done) | time=36ms
14:47:48.473 INFO ----- Gather SCA dependencies on project
14:47:48.474 INFO Checking if SCA is enabled for organization anushkasinghal24
14:47:49.017 INFO Dependency analysis skipped
14:47:49.020 INFO CPD Executor 1 file had no CPD blocks
14:47:49.021 INFO CPD Executor Calculating CPD for 3 files
14:47:49.039 INFO CPD Executor CPD calculation finished (done) | time=18ms
14:47:49.040 INFO SCM Publisher SCM provider for this project is: git
14:47:49.041 INFO SCM Publisher 4 source files to be analyzed
14:47:49.639 INFO SCM Publisher 4/4 source files have been analyzed (done) | time=597ms
14:47:50.332 INFO Analysis report generated in 669ms, dir size=347 KB
14:47:50.837 INFO Analysis report compressed in 504ms, zip size=71 KB
14:47:51.477 INFO Analysis report uploaded in 640ms
14:47:51.485 INFO ANALYSIS SUCCESSFUL, you can find the results at: https://sonarcloud.io/dashboard?id=anushkasinghal24_AddressBookSystem
14:47:51.485 INFO Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
14:47:51.486 INFO More about the report processing at https://sonarcloud.io/api/cv/task?id=A2xl_iE5tSmbLzQPwZH3
14:47:51.486 INFO ----- Upload SCA dependency files
14:47:53.466 INFO Sensor cache published successfully
14:47:53.491 INFO Analysis total time: 20.706 s
14:47:53.492 INFO SonarScanner Engine completed successfully
14:47:54.211 INFO EXECUTION SUCCESS
14:47:54.213 INFO Total time: 31.052s
PS D:\AddressBookGithub\AddressBookSystem>
```

3) SonarQube Dashboard Summary



My Issues - SonarQube Cloud

sonarcloud.io/issues?issueStatuses=OPEN%2CCONFIRMED

SonarQube cloud My Projects My Issues Explore Upgrade

Filters

- Software quality
 - Security 0
 - Reliability 0
 - Maintainability 34
- Severity
 - Blocker 0
 - High 0
 - Medium 34
 - Low 0
 - Info 0
- Code attribute

Replace this use of System.out by a logger. Adaptability

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L88 10min effort 17 hours ago Code Smell Major

Replace this use of System.out by a logger. Adaptability

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L93 10min effort 17 hours ago Code Smell Major

Replace this use of System.out by a logger. Adaptability

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L97 10min effort 17 hours ago Code Smell Major

Replace this use of System.out by a logger. Adaptability

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L98 10min effort 17 hours ago Code Smell Major

My Issues - SonarQube Cloud

sonarcloud.io/issues?issueStatuses=OPEN%2CCONFIRMED

SonarQube cloud My Projects My Issues Explore Upgrade

Filters

- Software quality
 - Security 0
 - Reliability 0
 - Maintainability 34
- Severity
 - Blocker 0
 - High 0
 - Medium 34
 - Low 0
 - Info 0
- Code attribute

Replace this use of System.out by a logger. Adaptability

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L57 10min effort 17 hours ago Code Smell Major

Replace this use of System.out by a logger. Adaptability

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L60 10min effort 17 hours ago Code Smell Major

Replace this use of System.out by a logger. Adaptability

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L63 10min effort 17 hours ago Code Smell Major

Replace this use of System.out by a logger. Adaptability

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L66 10min effort 17 hours ago Code Smell Major

My Issues - SonarQube Cloud

sonarcloud.io/issues?issueStatuses=OPEN%2CCONFIRMED

SonarQube cloud My Projects My Issues Explore Upgrade

Filters

- Software quality
 - Security 0
 - Reliability 0
 - Maintainability 34
- Severity
 - Blocker 0
 - High 0
 - Medium 34
 - Low 0
 - Info 0
- Code attribute

Replace this use of System.out by a logger. **Adaptability**

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L35 10min effort 17 hours ago Code Smell Major

Replace this use of System.out by a logger. **Adaptability**

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L42 10min effort 17 hours ago Code Smell Major

Replace this use of System.out by a logger. **Adaptability**

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L51 10min effort 17 hours ago Code Smell Major

Replace this use of System.out by a logger. **Adaptability**

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L54 10min effort 17 hours ago Code Smell Major

My Issues - SonarQube Cloud

sonarcloud.io/issues?issueStatuses=OPEN%2CCONFIRMED

SonarQube cloud My Projects My Issues Explore Upgrade

Filters

- Software quality
 - Security 0
 - Reliability 0
 - Maintainability 34
- Severity
 - Blocker 0
 - High 0
 - Medium 34
 - Low 0
 - Info 0
- Code attribute

Replace this use of System.out by a logger. **Adaptability**

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L23 10min effort 17 hours ago Code Smell Major

Replace this use of System.out by a logger. **Adaptability**

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L26 10min effort 17 hours ago Code Smell Major

Replace this use of System.out by a logger. **Adaptability**

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L29 10min effort 17 hours ago Code Smell Major


Replace this use of System.out by a logger. **Adaptability**

Maintainability Medium bad-practice cert +

Open anushkasinghal24 L32 10min effort 17 hours ago Code Smell Major





My Issues - SonarQube Cloud

sonarcloud.io/issues?issueStatuses=OPEN%2CCONFIRMED

SonarQubecloud

My ProjectsMy IssuesExplore

Upgrade



Filters

Software quality

Security0

Reliability0

Maintainability34

Severity ⓘ

Blocker0

High0

Medium34

Low0

Info0

Code attribute

Select issues ▾ ▴

Navigate to issue ◀ ▶

34 issues 5h 50min effort

anushkasinghal24 / AddressBookSystem / src/addressbooksystem/AddressBook.java


Replace this use of System.out by a logger.

Adaptability

Maintainability ⚠ Medium

bad-practice cert +

Open ▾

 anushkasinghal24 ▾

L14 · 10min effort · 17 hours ago · Code Smell · Major


Replace this use of System.out by a logger.

Adaptability

Maintainability ⚠ Medium

bad-practice cert +

Open ▾

 anushkasinghal24 ▾

L17 · 10min effort · 17 hours ago · Code Smell · Major


Replace this use of System.out by a logger.

Adaptability

Maintainability ⚠ Medium

bad-practice cert +

Open ▾

 anushkasinghal24 ▾

L20 · 10min effort · 17 hours ago · Code Smell · Major

4) Step-by-Step Procedure Followed

- Installed SonarQube Community Build and started server using StartSonar.bat.
- Verified SonarQube running at <http://localhost:9000>.
- Created new project with project key 'address-book'.
- Generated authentication token for SonarScanner.
- Downloaded and configured SonarScanner CLI.
- Compiled Java project to generate .class files in bin folder.
- Executed SonarScanner from project directory.
- Viewed analysis report on SonarQube dashboard.

5) SonarQube Analysis Result Summary

- Quality Gate: PASSED
- Security Issues: 0
- Reliability Issues: 0
- Maintainability Issues: Code Smells detected
- Test Coverage: 0% (JUnit not implemented)
- Duplications detected in project