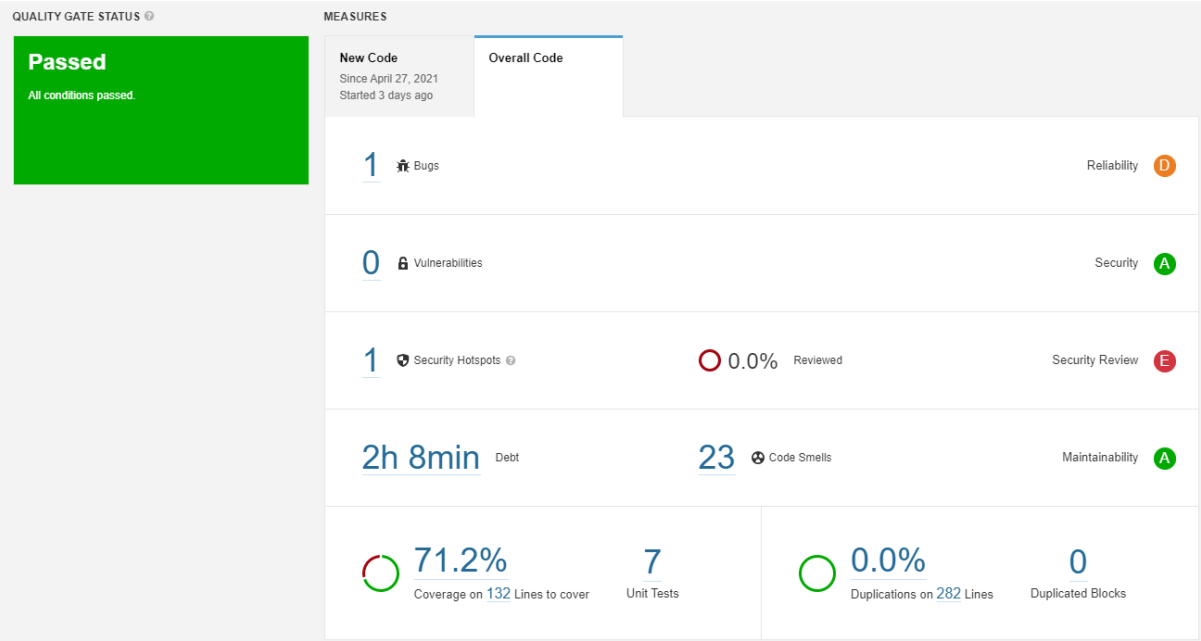
Hugo Ferreira

nmec: 93093

1e) Yes it passed



Because it passed all of these conditions

Conditions on New Code

Metric	Operator	Value
Coverage	is less than	80.0%
Duplicated Lines (%)	is greater than	3.0%
Maintainability Rating	is worse than	A
Reliability Rating	is worse than	A
Security Hotspots Reviewed	is less than	100%
Security Rating	is worse than	A

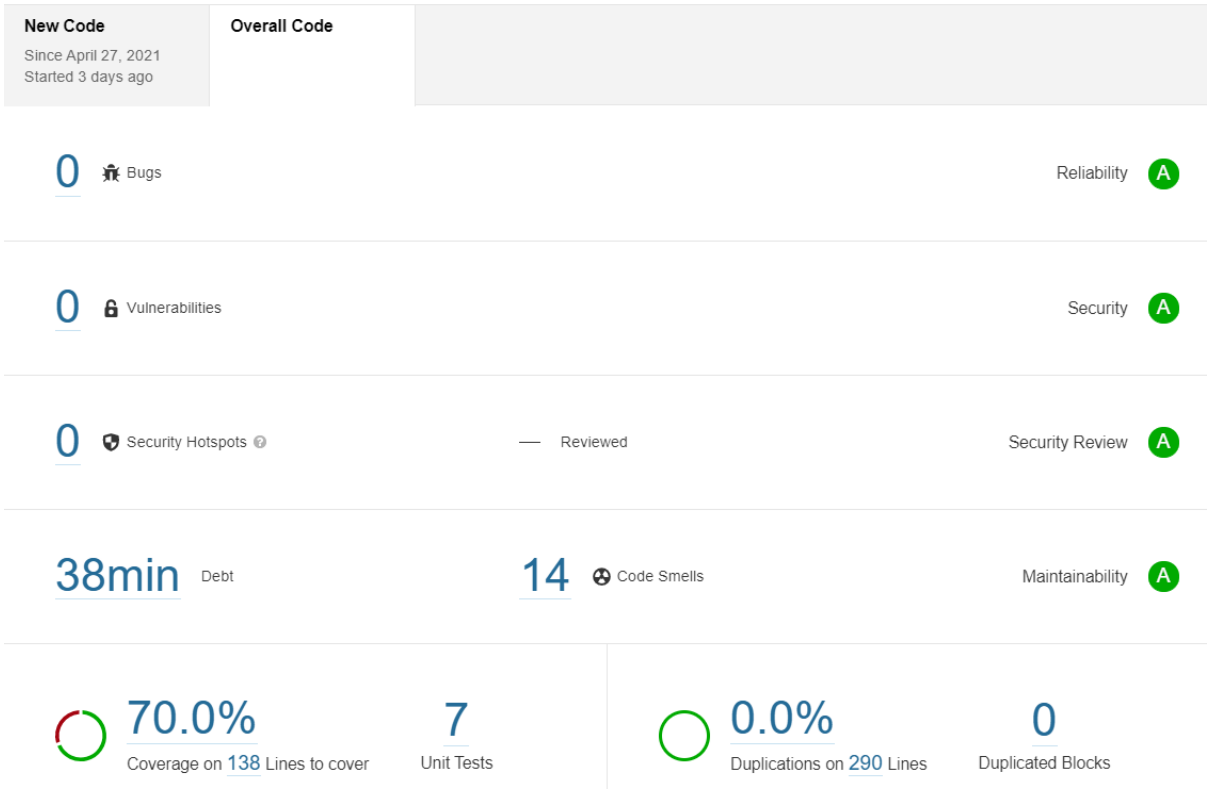
1f)

Issue	Problem description	How to solve
Bug	Creating a new Random object each time a random value is needed	Create a variable that holds the Random class instance and call that variable each time you need a random value.
Security Hotspot	Using pseudorandom number generators (PRNGs) is security-sensitive.	Use a cryptographically strong random number generator (RNG) like "java.security.SecureRandom" in place of this PRNG.

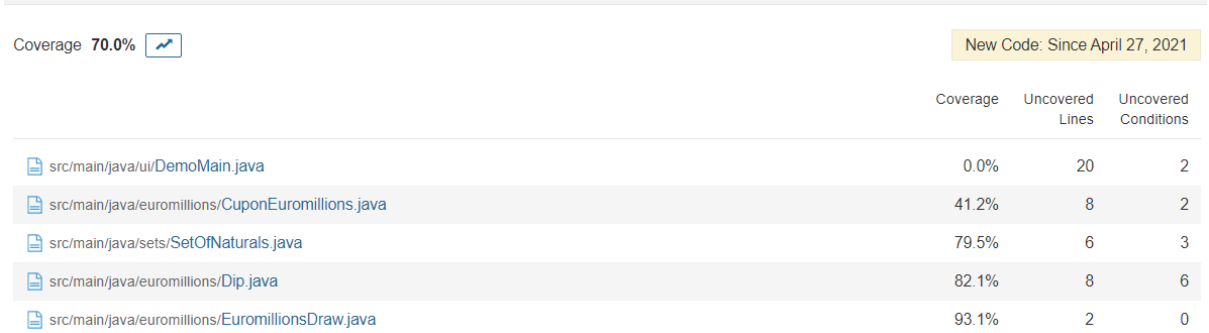
Code smell(major)	Use of System.out or System.err for logging	Use a logger.

2a) Technical debt is a concept in software development that reflects the implied cost of additional rework caused by choosing an easy (limited) solution now instead of using a better approach that would take longer.

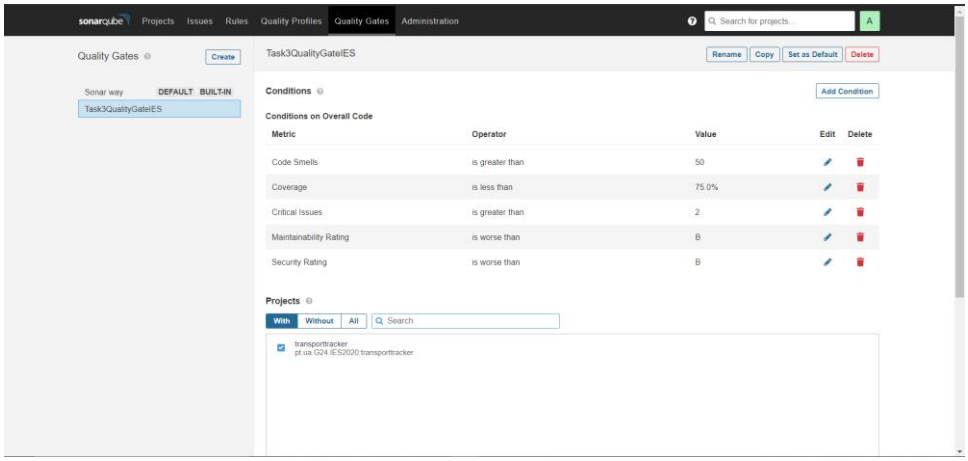
2b) after fixing severe code smells



2c) e d)



3a)



Code Smells: Although the objective of the project is not this, it is not advisable to have a big number of Code Smells.

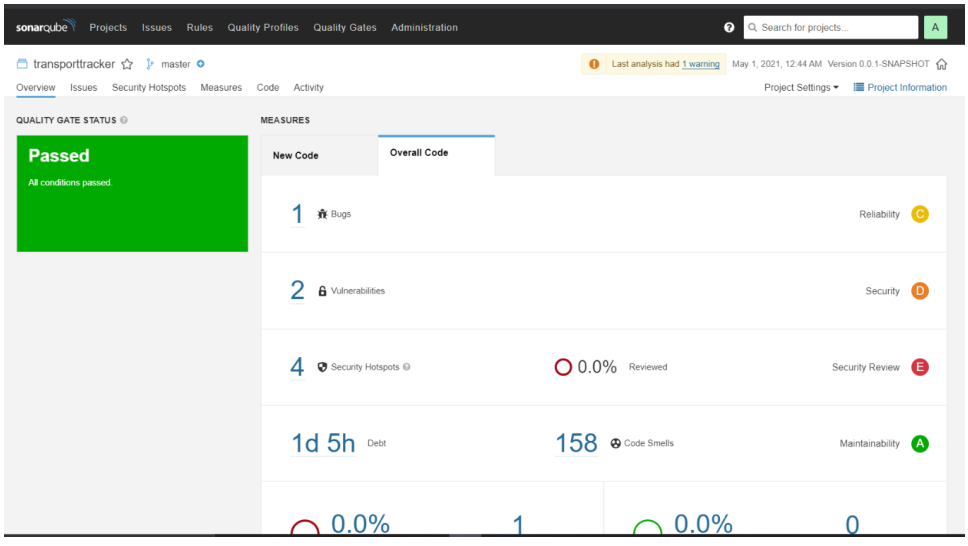
Coverage: The code must be tested.

Critical Issues: No more than 2 critical issues so they can be fixed as fast as possible.

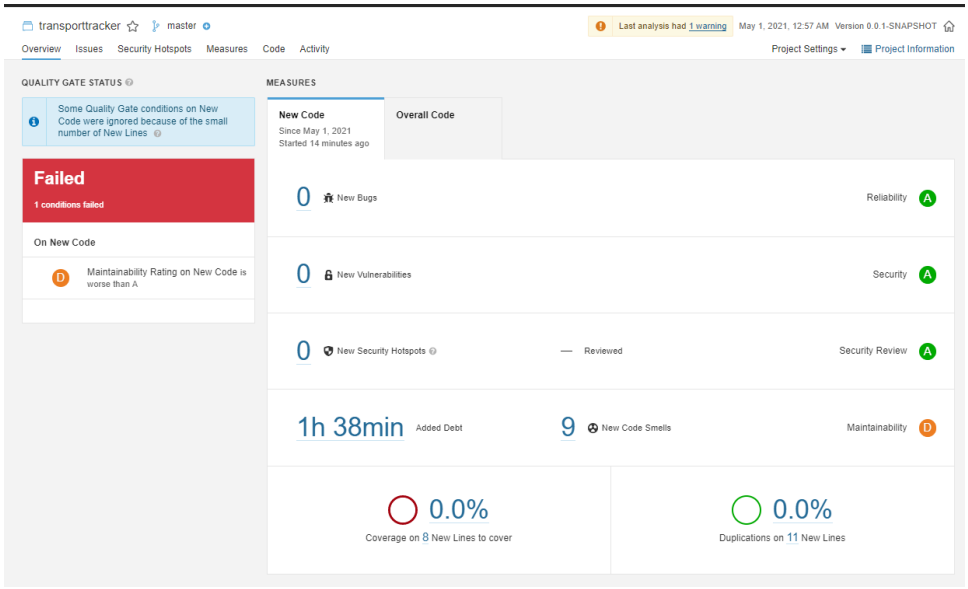
Maintainability Rating: Maintanibility is important so in the long run the project is easy to maintain.

Security Rating: Because it uses user accounts and has critical data which is important to secure

3b) before



after


transporttracker
master
Last analysis had 1 warning
May 1, 2021, 12:57 AM
Version 0.0.1-SNAPSHOT
Overview
Issues
Security Hotspots
Measures
Code
Activity
Project Settings
Project Information
QUALITY GATE STATUS
Some Quality Gate conditions on New Code were ignored because of the small number of New Lines
Failed
1 conditions failed
On New Code
Maintainability Rating on New Code is worse than A
MEASURES
New Code
Since May 1, 2021
Started 14 minutes ago
Overall Code
0
New Bugs
Reliability
A
0
New Vulnerabilities
Security
A
0
New Security Hotspots
Reviewed
Security Review
A
1h 38min
Added Debt
9
New Code Smells
Maintainability
D
0.0%
Coverage on 8 New Lines to cover
0.0%
Duplications on 11 New Lines