

# Test Report



# Issue Record

Version	Date	Notes
0.1	3/6/21	Added type of tests done and results

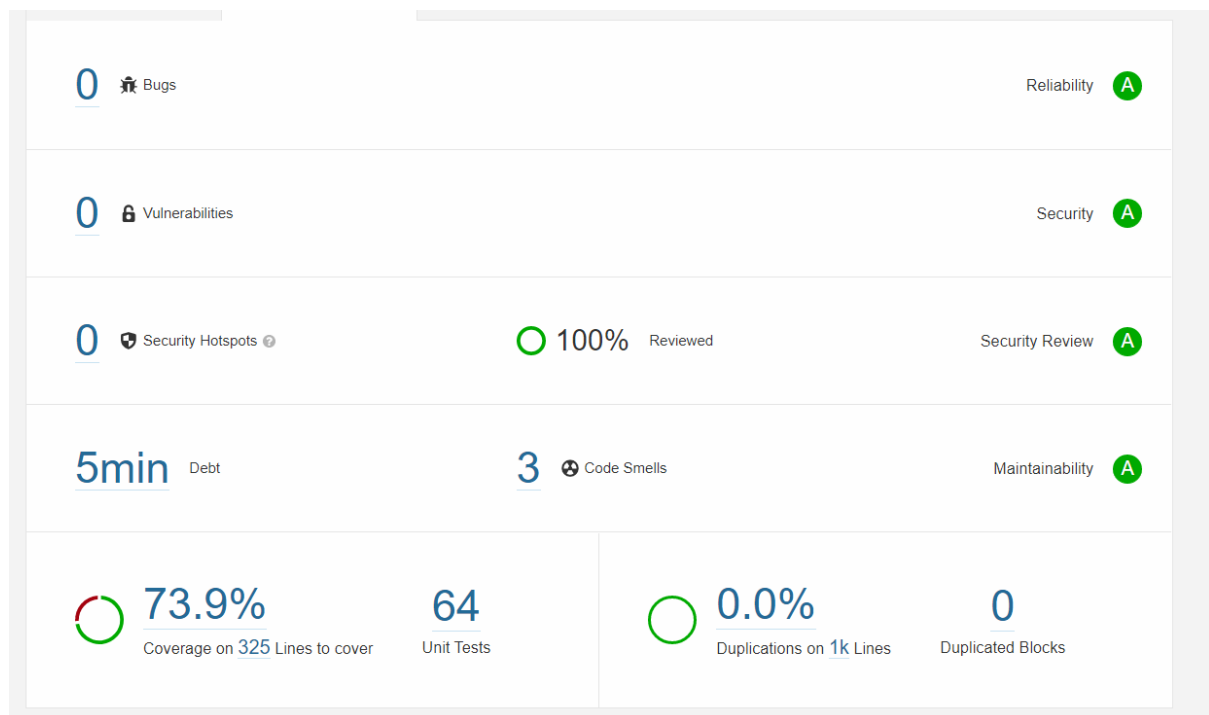
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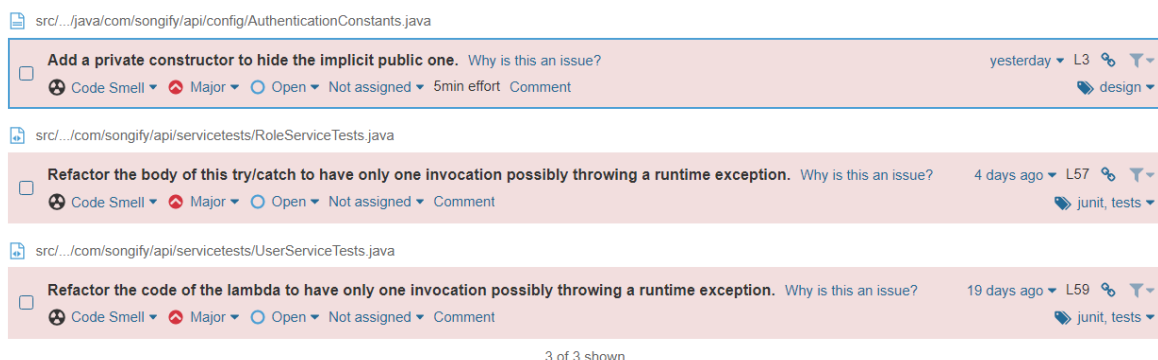
# What tests were completed and how?

For this sprint, a static code analysis was run, along with unit tests and e2e tests for each user acceptance test and the results of those tests are detailed in this document.

## Static Code Analysis Report



The image above shows the sonarqube report, with 0 Bugs, Vulnerabilities or Security Hotspots.



In the above image the 3 code smells from the first image are shown. The first code smells requires me adding a constructor to a constants class, which I don't believe is needed therefore I have not done it. The second and third require some refactoring of unit tests that are expected to throw exceptions so that they only can throw the exact exception I'm looking for. Due to struggling with implementing this it is also not complete.

# Unit Test Report

64 Unit tests were made and in the image below the coverage for the service layer is shown. The coverage was calculated by a test report generation tool called JaCoCo.

Coverage **96.5%**

	Coverage	Uncovered Lines	Uncovered Conditions
 src/main/java/com/songify/api/service/impl/UserServiceImpl.java	90.0%	2	1
 src/main/java/com/songify/api/service/impl/AuthenticationUserDetailsServiceImpl.java	100%	0	0
 src/main/java/com/songify/api/service/impl/AuthServiceImpl.java	100%	0	–
 src/main/java/com/songify/api/service/impl/PlaylistServiceImpl.java	100%	0	0
 src/main/java/com/songify/api/service/impl/RoleServiceImpl.java	100%	0	–
 src/main/java/com/songify/api/service/impl/SongServiceImpl.java	100%	0	–

6 of 6 shown

The coverage only shows 96.5% because one condition of a certain method is not apparently not tested, however, I did write a unit test for all conditions of every method in the service layer so this may be a sonarqube issue.

## e2e/ User Acceptance Tests Report

For this project I wrote user acceptance tests and have implemented/ran these tests with Cypress as end-to-end tests. In the following screenshots you can see which ones are running, the steps they take to execute the test and how they validate whether the test should pass or fail (roughly the same as user acceptance criteria). The tests where no steps are shown are empty tests I created for other user acceptance tests but did not have time to fully implement due to the feature it is related to not being finished yet.

<div><div>▼ UAT-1: Login</div><div><div>✓ it focuses the input</div><div>✓ fills in username</div><div>✓ fills in password</div><div>✓ submits form</div><div>✓ is redirected</div></div></div> <div><div>▼ UAT-2: Playlist Creation</div><div><div>✓ deletes old playlist to prevent duplicate</div><div>✓ go to create playlist page</div><div>✓ submits create playlist form</div><div>✓ redirects to newly made playlist</div></div></div> <div><div>▼ UAT-3: Duplicate Playlist Creation</div><div><div>✓ go to create playlist page</div><div>✓ submits create playlist form with the same inputs</div><div>✓ does not redirect</div></div></div> <div><div>▶ UAT-4: Adding song to playlist</div></div> <div><div>▶ UAT-5: Adding duplicate song</div></div> <div><div>▼ UAT-6: Admin login</div><div><div>✓ logs out</div><div>✓ logs in as an admin</div></div></div>	<div><div>▼ UAT-7: User redirect when accessing admin page</div><div><div>✓ logs out</div><div>✓ logs in as a user and visits admin page</div><div>✓ goes to admin only page</div><div>✓ is redirected</div></div></div> <div><div>▼ UAT-8 Search for specific user playlists</div><div><div>✓ goes to browse playlists page</div><div>✓ searches for a specific user</div></div></div> <div><div>▼ UAT-9 Search for user playlists that doesnt exist</div><div><div>✓ goes to browse playlists page</div><div>✓ searches for a specific user</div></div></div> <div><div>▼ UAT-10 Accepting friend request</div></div> <div><div>▼ UAT-11 50 limit for friend requests</div></div>
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