Unit Test Report

Unit Tests have been made using pytest to the underlying python functions of the Songify website.

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| --- | --- | --- |
| Operation Performed | Condition Tested | Result |
| **Playlist tests** |  |  |
| Creating a new playlist | A new playlist object should be created | Test passed. |
| Editing a playlist | Existing playlist will now have a song added | Test passed. |
| View the playlist | Html view page of the playlist containing all the information | Test passed. |
| Test Empty playlist (is empty) | Check empty playlist is empty | Test Passed. |
| Test Empty playlist (not empty) | Check if non-empty playlist is not empty | Test Passed. |
| Test Playlist Size (not empty) | Checks number of songs added to playlist matches its size | Test Passed. |
| Test Playlist Size (empty) | Checks no songs added to a playlist | Test Passed. |
| Test if added song is correct. | Check if most recent song added to playlist is what we added | Test Passed. |
| Get Current playlist queue. | Check whether correct queue with the right songs is returned | Test Passed. |
| **User Tests** |  |  |
| Test user creation | Check if user information matches entered information | Test passed. |
| Test user added to database | Checks if new user created is added to the database | Test passed. |
| Test current users in database | Checks all current users added to the database | Test passed. |
| **Song tests** |  |  |
| Song Creation | Check if song information matches entered information | Test passed. |
| Delete Song | Check if song has been deleted | Test passed. |
| Sort Songs by Duration | Check if songs are sorted in descending order by duration | Test passed. |
| Sort by Genre | Checks if songs are sorted by alphabetical genre | Test passed. |
| Sort by Views | Check if songs are sorted by views in descending order | Test passed. |
| Sort by Title | Check if songs are sorted by title in alphabetical order | Test passed. |
| Determine duration of song | Check whether correct duration of song is given with 0 padding. | Test passed. |
| Get Song List by ID | Returns song corresponding to ID. | Test passed. |
| Determine number of songs added. | Checks if number of songs in DB is the same as the number added. | Test passed. |

========================================================= test session starts ==========================================================

platform win32 -- Python 3.6.6, pytest-4.4.0, py-1.8.0, pluggy-0.9.0

rootdir: C:\Users\harun\OneDrive\desktop\iteration2and3\src

collected 21 items

tests\unit\_tests\test\_playlist.py ......... [ 42%]

tests\unit\_tests\test\_song.py ......... [ 85%]

tests\unit\_tests\test\_user.py ... [100%]

====================================================== 21 passed in 0.36 seconds =======================================================