"Heard" test example
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Test Plan

1. **Login**:
   - Test various combinations of valid and invalid usernames and passwords.
   - Test the response when leaving one or both fields empty.
2. **Logout**:
   - Test the logout functionality while inside various areas of the website.
3. **Search Functionality**:
   - Check the search functionality with valid and invalid inputs, partial names, and case sensitivity.
   - Test the filter functionality.
4. **Album Rating and Reviewing**:
   - Ensure that you need to be logged in to rate and review an album.
   - Test rating an album with each radio field option.
   - Verify that posting a review requires you to rate the album, but rating an album doesn't require a review.
   - Test the review deletion functionality.
   - Check if the rating is updated correctly when reviews/ratings are deleted.
5. **User Review Viewing and Sorting**:
   - Check that reviews can be sorted correctly based on different parameters.
   - Test the like and dislike feature for reviews.
   - Verify that users cannot like or dislike their own reviews.
6. **User Profile and Following**:
   - Check if you can correctly view other users' profiles and their opinions.
   - Test the follow/unfollow functionality for users.
   - Verify that you can see the followers of users and who they follow.
   - Check the visibility of recent ratings of followed users on the index/search page.
   - Test if the recent rating visibility is correctly limited to the last week.
7. **User Profile Editing**:
   - Check if the user can create and edit their bio.
   - Test the review and rating deletion from the profile page.
   - Verify that users can only edit their own profile and not other users' profiles.

For this manual testing example I will focus on **Search Functionality**.

An automated test using Selenium for **Login** can be found on my Github (https://github.com/DylC0987/WD-CA/blob/main/Python_Assignments/Test/test.py)

Test Case ID: TC01
Description: Verify "album name" filter functionality with valid inputs
Preconditions: User is on the search/home page of "Heard". Filter is set to "album name"
Test Steps:
- Enter the name of a known album (e.g. "Thriller") in the search bar.
- Click on the search button.

Expected Result: The correct album ("Thriller") appears in the search results.
Actual Result: Known album ("Thriller") searched appeared in search results.
Status: Pass

Test Case ID: TC02
Description: Verify "album name" filter functionality with invalid inputs.
Preconditions: User is on the search/home page of "Heard". Filter is set to "album name"
Test Steps:
- Enter a non-existing album ("TestAlbum") in the search bar.
- Click on the search button.

Expected Result: invalid album ("TestAlbum") should not appear in the search results, and an appropriate message should be displayed ("No results found") in results.
Actual Result: invalid album ("TestAlbum") did not appear in the search results and message ("No results found") was displayed.
Status: Pass

Test Case ID: TC03
Description: Verify "album name" filter functionality with partial name inputs.
Preconditions: User is on the search/home page of "Heard". Filter is set to "album name"
Test Steps:
- Enter a partial name ("Thri") of a known album ("Thriller") in the search bar.
- Click on the search button.

Expected Result: All albums containing the partial name ("Thri") appear in the search results.This should only result in the album "Thriller" to appear as no other album contains "Thri" within its name
Actual Result:"Thriller" appeared in the search results
Status: Pass
Comments: Entered partial name of "t" too which resulted in all albums containing the letter "t" to appear.

Test Case ID: TC04
Description: Verify "album name" filter functionality with case insensitive inputs.
Preconditions: User is on the search/home page of "Heard". Filter is set to "album name"
Test Steps:
- Enter the name of a known album ("Thriller") in the search bar using a different case ("thRiller").
- Click on the search button.

Expected Result: The correct album ("Thriller") appears in the search results.
Actual Result: Correct album ("Thriller") appeared in search results.
Status: Pass

Test Case ID: TC05
Description: Verify "artist name" filter functionality with valid inputs
Preconditions: User is on the search/home page of "Heard". Filter is set to "artist name"
Test Steps:
- Enter the name of a known artist (e.g. "Tame Impala") in the search bar.
- Click on the search button.

Expected Result: The correct artist ("Tame Impala") appears in the search results.
Actual Result: Known artist ("Tame Impala") searched appeared in search results.
Status: Pass

Test Case ID: TC06
Description: Verify "artist name" filter functionality with invalid inputs.
Preconditions: User is on the search/home page of "Heard". Filter is set to "artist name"
Test Steps:
- Enter a non-existing artist ("TestArtist") in the search bar.
- Click on the search button.

Expected Result: invalid artist ("TestArtist") should not appear in the search results, and an appropriate message should be displayed ("No results found") in results.
Actual Result: invalid artist ("TestArtist") did not appear in the search results and message ("No results found") was displayed.
Status: Pass

Test Case ID: TC07
Description: Verify "artist name" filter functionality with partial name inputs.
Preconditions: User is on the search/home page of "Heard". Filter is set to "artist name"
Test Steps:
- Enter a partial name ("Tame") of a known artist ("Tame Impala") in the search bar.
- Click on the search button.

Expected Result: All artist containing the partial name ("Tame") appear in the search results.This should only result in the artist "Tame Impala" to appear as no other artist contains "Tame" within their name.
Actual Result:"Tame Impala" appeared in the search results
Status: Pass
Comments: Entered partial name of "the" too which resulted in all albums containing the word "the" to appear.

Test Case ID: TC08
Description: Verify "artist name" filter functionality with case insensitive inputs.
Preconditions: User is on the search/home page of "Heard". Filter is set to "artist name"
Test Steps:
- Enter the name of a known artist ("Tame Impala") in the search bar using a different case ("tame imPala").
- Click on the search button.

Expected Result: The correct album ("Tame Impala") appears in the search results.
Actual Result: Correct album ("Tame Impala") appeared in search results.
Status: Pass

Test Case ID: TC09
Description: Verify "release year" filter functionality with valid inputs
Preconditions: User is on the search/home page of "Heard". Filter is set to "release year"
Test Steps:
- Enter the name of a known album release year(e.g. "2004") in the search bar.
- Click on the search button.

Expected Result: All albums released in 2004 appears in the search results.
Actual Result: Known album release year ("2004") resulted in 3 known albums to be displayed ("American Idiot","Hot Fuss","Franz Ferdinand") as expected .
Status: Pass

Test Case ID: TC10
Description: Verify "release year" filter functionality with invalid inputs.
Preconditions: User is on the search/home page of "Heard". Filter is set to "release year"
Test Steps:
- Enter the name of a known invalid album release year(e.g. "2024") in the search bar.
- Click on the search button.

Expected Result: No album should appear in the search results, and an appropriate message should be displayed ("No results found") in results.
Actual Result: No album appeared in the search results and message ("No results found") was displayed.
Status: Pass

Test Case ID: TC11
Description: Verify "release year" filter functionality with partial name inputs.
Preconditions: User is on the search/home page of "Heard". Filter is set to "release year"
Test Steps:
- Enter a partial name ("20") of a known album release year ("2004") in the search bar.
- Click on the search button.

Expected Result: All albums containing the partial name ("20") appear in the search results.
Actual Result: All albums that contained "20" in the release year displayed.
Status: Pass

Test Case ID: TC12
Description: Verify "genre" filter functionality with valid inputs
Preconditions: User is on the search/home page of "Heard". Filter is set to "genre"
Test Steps:
- Enter the name of a known genre (e.g. "Rock") in the search bar.
- Click on the search button.

Expected Result: All ("Rock") albums appear in the search results.
Actual Result: All rock albums appeared in search results, including other genres that have rock in their name (e.g. indie rock)
Status: Pass
Comments: Since partially matched genres appeared in the search results we can consider partial match inputs tested.

Test Case ID: TC13
Description: Verify "genre" filter functionality with invalid inputs.
Preconditions: User is on the search/home page of "Heard". Filter is set to "genre"
Test Steps:
- Enter a non-existing genre ("TestGenre") in the search bar.
- Click on the search button.

Expected Result: invalid genre ("TestGenre") should not appear in the search results, and an appropriate message should be displayed ("No results found") in results.
Actual Result: invalid genre ("TestGenre") did not appear in the search results and message ("No results found") was displayed.
Status: Pass

Test Case ID: TC14
Description: Verify "genre" filter functionality with case insensitive inputs.
Preconditions: User is on the search/home page of "Heard". Filter is set to "genre"
Test Steps:
- Enter the name of a known genre ("Rock") in the search bar using a different case ("rOck").
- Click on the search button.

Expected Result: All ("Rock") albums appear in the search results.
Actual Result: All rock albums appeared in search results, including other genres that have rock in their name (e.g. indie rock)
Status: Pass

Test Case ID: TC15
Description: Verify "user ID" filter functionality with valid inputs
Preconditions: User is on the search/home page of "Heard". Filter is set to "user ID"
Test Steps:
- Enter the name of a known user ID (e.g. "Lemon") in the search bar.
- Click on the search button.

Expected Result: The correct user ID ("Lemon") appears in the search results.
Actual Result: Known user ID ("Lemon") searched appeared in search results.
Status: Pass

Test Case ID: TC16
Description: Verify "user ID" filter functionality with invalid inputs.
Preconditions: User is on the search/home page of "Heard". Filter is set to "user ID"
Test Steps:
- Enter a non-existing user ID ("TestUser") in the search bar.
- Click on the search button.

Expected Result: invalid user ID ("TestUser") should not appear in the search results, and an appropriate message should be displayed ("No results found") in results.
Actual Result: invalid user ID ("TestUser") did not appear in the search results and message ("No results found") was displayed.
Status: Pass

Test Case ID: TC17
Description: Verify "user ID" filter functionality with partial name inputs.
Preconditions: User is on the search/home page of "Heard". Filter is set to "user ID"
Test Steps:
- Enter a partial name ("Le") of a known user ID ("Lemon") in the search bar.
- Click on the search button.

Expected Result: All user ID's containing the partial name ("Le") appear in the search results.This should only result in the user ID "Lemon" to appear as no other user ID contains "Le" within its name.
Actual Result:"Lemon" appeared in the search results
Status: Pass
Comments: Entered partial name of "l" too which resulted in all user ID's containing the letter "l" to appear.

Test Case ID: TC18
Description: Verify "user ID" filter functionality with case insensitive inputs.
Preconditions: User is on the search/home page of "Heard". Filter is set to "user ID"
Test Steps:
- Enter the name of a known user ID ("Lemon") in the search bar using a different case ("lEmon").
- Click on the search button.

Expected Result: The correct user ID ("Lemon") appears in the search results.
Actual Result: Correct user ID ("Lemon") appeared in search results.
Status: Pass

Test Case ID: TC19
Description: Verify search functionality with no text input.
Preconditions: User is on the search/home page of "Heard".
Test Steps:
- Make sure search bar is blank.
- Click on the search button.

Expected Result: An error message should pop up
Actual Result: Error message ("This field is required.") was displayed
Status: Pass
Comments: Same result occurred for all filters.