

Milestone 5 : Testing

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Amplify

Play/Access Spotify Library

Prerequisites: User has a spotify account and has logged in through Amplify

Test Case Summary: Test the application's ability to play/pause a song

Test Procedure: After confirming login, press play button. At various points in the song, press pause button and play button again.

Expected Result: Selected song should begin to play upon the first click of the play button. When the pause button is pressed, the song should stop playing but retain the time at which it was paused. When the play button is pressed again, the music should resume at its previous position.

Test Case Summary: Test the application's ability to search through library

Test Procedure: Search for various songs through the search bar. Verify that the songs displayed are correct by playing a few.

Expected Result: The song or playlist looked for should be displayed with multiple similar choices. If selected, the displayed song should play.

Test Case Summary: Test the application's ability to scrub through a song

Test Procedure: Play a song through Amplify. Click and hold on the playback slider and slide its location left or right. Let go. Repeat several times.

Expected Result: When the slider is moved and released, the song should begin to play at the time location of its release.

Integrate Song Visualization

Prerequisites: User has a spotify account and has logged in through Amplify, the user is playing a song, the user's browser is compatible with WebGL

Test Case Summary: Test the application's start the visualizer upon the start of a song

Test Procedure: Play a song through the application and look at visualizer.

Expected Result: Selected song should begin to play and the visualizer should begin to display images within one second.

Test Case Summary: Test the visualizer's ability to sync with a song with relative accuracy

Test Procedure: Play a song through the application and observe how the visualizer is looking with respect to the song playing

Expected Result: The visualizer should create the feeling that it is in sync with the song. Shapes should move with the rhythm and color should convey the changing mood of the song.

Test Case Summary: Test the visualizer's ability to stop when a song is paused

Test Procedure: Play a song through Amplify. Pause the song and observe the state of the visualizer.

Expected Result: The visualizer should stop displaying images within 1 second of the song being paused.

Integrate Metrics

Prerequisites: User has a spotify account and has logged in through Amplify

Test Case Summary: Test the application's ability to display a user's top artists

Test Procedure: After confirming login, navigate to metrics page. Refresh the page.

Test again with a different user logging in through Amplify and once again going to the metrics page.

Expected Result: Artists consistent with the user's listening habits should be displayed when they go to the metrics page. The artists shown should be consistent throughout page refreshes. Different users should have different top artists displayed.

Test Case Summary: Test the application's ability to display a user's top songs

Test Procedure: After confirming login, navigate to metrics page. Refresh the page.

Test again with a different user logging in through Amplify and once again going to the metrics page.

Expected Result: Songs consistent with the user's listening habits should be displayed when they go to the metrics page. The songs shown should be consistent throughout page refreshes. Different users should have different top songs displayed.