

## Unit Test: Generating a Playlist

### Generating a Playlist:

#### Functional Testing:

##### **Creating a playlist with at least one track, genre, and artist:**

Inserted the artists Maroon 5 and Jason Derulo into the selected list. Inserted the tracks "Her Diamonds" by Rob Thomas and "Hall of Fame" by The Script into the selected list. Selected the Pop genre from the list of genres. All filter sliders are set to a range of 30 - 70. Clicked "Generate Playlist" button at the bottom of the generate tab which brought up a dialogue box as expected. Name of playlist set to "New Playlist" and maximum number of tracks was set to 25. "Generate Playlist" button in dialogue box was clicked. Dialogue box disappeared after displaying the message "Playlist Created!" as expected. List of tracks in the created playlist appeared underneath filter sliders with "Her Diamonds" and "Hall of Fame" as first two tracks in the list. Went onto Spotify and found a new created playlist titled "New Playlist" with the same tracks as those that appeared in the list under the filter sliders on Rootify as expected. Counted 25 tracks in the playlist as expected. All tracks fulfill the criteria set by the sliders except for the popularity slider.

##### **Creating a playlist with at least one genre and artist:**

Inserted the artists Maroon 5 and Jason Derulo into the selected list. Selected the Pop genre from the list of genres. All filter sliders are set to a range of 30 - 70. Clicked "Generate Playlist" button at the bottom of the generate tab which brought up a dialogue box as expected. Name of playlist set to "New Playlist" and maximum number of tracks was set to 10. "Generate Playlist" button in dialogue box was clicked. Dialogue box disappeared after displaying the message "Playlist Created!" as expected. List of tracks in the created playlist appeared underneath filter sliders as expected. Went onto Spotify and found a new created playlist titled "New Playlist" with the same tracks as those that appeared in the list under the filter sliders on Rootify as expected. Counted 10 tracks in the playlist as expected. All tracks fulfill the criteria set by the sliders except for the popularity slider.

##### **Creating a playlist with at least one genre and track:**

Inserted the tracks "Her Diamonds" by Rob Thomas and "Hall of Fame" by The Script into the selected list. Selected the Pop genre from the list of genres. All filter sliders are set to a range of 30 - 70. Clicked "Generate Playlist" button at the bottom of the generate tab which brought up a dialogue box as expected. Name of playlist set to "New Playlist" and maximum number of tracks was set to 15. "Generate Playlist" button in dialogue box was clicked. Dialogue box disappeared

after displaying the message “Playlist Created!” as expected. List of tracks in the created playlist appeared underneath filter sliders with “Her Diamonds” and “Hall of Fame” as first two tracks in the list as expected. Went onto Spotify and found a new created playlist titled “New Playlist” with the same tracks as those that appeared in the list under the filter sliders on Rootify as expected. Counted 15 tracks in the playlist as expected. All tracks fulfill the criteria set by the sliders except for the popularity slider.

#### **Creating a playlist with at least one track:**

Inserted the tracks “Her Diamonds” by Rob Thomas and “Hall of Fame” by The Script into the selected list. All filter sliders are set to a range of 30 - 70. Clicked “Generate Playlist” button at the bottom of the generate tab which brought up a dialogue box as expected. Name of playlist set to “New Playlist” and maximum number of tracks was set to 25. “Generate Playlist” button in dialogue box was clicked. Dialogue box disappeared after displaying the message “Playlist Created!” as expected. List of tracks in the created playlist appeared underneath filter sliders with “Her Diamonds” and “Hall of Fame” as first two tracks in the list. Went onto Spotify and found a new created playlist titled “New Playlist” with the same tracks as those that appeared in the list under the filter sliders on Rootify as expected. Counted 25 tracks in the playlist as expected. All tracks fulfill the criteria set by the sliders except for the popularity slider.

#### **Creating a playlist with at least one artist:**

Inserted the artists Maroon 5 and Jason Derulo into the selected list. All filter sliders are set to a range of 30 - 70. Clicked “Generate Playlist” button at the bottom of the generate tab which brought up a dialogue box as expected. Name of playlist set to “New Playlist” and maximum number of tracks was set to 25. “Generate Playlist” button in dialogue box was clicked. Dialogue box disappeared after displaying the message “Playlist Created!” as expected. List of tracks in the created playlist appeared underneath filter sliders as expected. Went onto Spotify and found a new created playlist titled “New Playlist” with the same tracks as those that appeared in the list under the filter sliders on Rootify as expected. Counted 25 tracks in the playlist as expected. All tracks fulfill the criteria set by the sliders except for the popularity slider.

#### **Creating a playlist with at least one genre:**

Selected the Pop genre from the list of genres. All filter sliders are set to a range of 30 - 70. Clicked “Generate Playlist” button at the bottom of the generate tab which brought up a dialogue box as expected. Name of playlist set to “New Playlist” and maximum number of tracks was set to 25. “Generate Playlist” button in dialogue box was clicked. Dialogue box disappeared after displaying the message “Playlist Created!” as expected. List of tracks in the created playlist appeared underneath filter sliders as expected. Went onto Spotify and found a

new created playlist titled "New Playlist" with the same tracks as those that appeared in the list under the filter sliders on Rootify as expected. Counted 25 tracks in the playlist as expected. All tracks fulfill the criteria set by the sliders except for the popularity slider.

**Creating a playlist without specifying a name with a least one track and artist:**

Inserted the artists Maroon 5 and Jason Derulo into the selected list. Inserted the tracks "Her Diamonds" by Rob Thomas, "Hall of Fame" by The Script, and "Castle of Glass" by Linkin Park into the selected list. All filter sliders are left at ranges of 30-70. Clicked "Generate Playlist" button at the bottom of the generate tab which brought up a dialogue box as expected. Playlist name was left blank and maximum number of tracks was set to 15. "Generate Playlist" button in dialogue box was clicked. Dialogue box disappeared after displaying the message "Playlist Created!". List of tracks in the created playlist appeared underneath filter sliders with "Her Diamonds", "Hall of Fame", and "Castle of Glass" as the first three tracks in the list. Went onto Spotify and found a new created playlist titled "[Rootify] Playlist" with the same tracks as those that appeared in the list under the filter sliders on Rootify as expected. Counted 15 tracks in the playlist as expected. All tracks fulfill the criteria set by the sliders except for the popularity slider.

**Trying to create a playlist in which no songs meet filter criteria using at least one artist and one genre:**

Inserted the artists Maroon 5, Jason Derulo, and The Script into the selected list. Selected the Pop and R&B genres from the list of genres. All filter sliders are set to a range of 99-100. Clicked "Generate Playlist" button at the bottom of the generate tab which brought up a dialogue box as expected. Name of playlist set to "New Playlist" and maximum number of tracks was set to 25. "Generate Playlist" button in dialogue box was clicked. Dialogue box disappeared after displaying the message "No Tracks Found!" as expected. No tracks appeared underneath the filter sliders and no new playlist was created on Spotify as expected.

**Trying to create a playlist in which no songs meet filter criteria using at least one artist, genre, and track:**

Inserted the artists Maroon 5 and Jason Derulo into the selected list. Inserted the tracks "Her Diamonds" by Rob Thomas and "Hall of Fame" by The Script into the selected list. Selected the Pop genre from the list of genres. All filter sliders are set to a range of 99-100. Clicked "Generate Playlist" button at the bottom of the generate tab which brought up a dialogue box. Name of playlist set to "New

Playlist” and maximum number of tracks was set to 25. “Generate Playlist” button in dialogue box was clicked. Dialogue box disappeared after displaying the message “Playlist Created!”. List of tracks in the created playlist appeared underneath filter sliders with “Her Diamonds” and “Hall of Fame” as the only tracks in the list. Went onto Spotify and found a new created playlist titled “New Playlist” with the same tracks as those that appeared in the list under the filter sliders on Rootify. Counted 2 tracks in the playlist as expected.