**1. SearchBar**

| **Test Case ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| --- | --- | --- | --- | --- |
| SB-01 | Test input handling for valid search terms | Search term is updated correctly | Search term updated to "Valid Term" | Pass |
| SB-02 | Test input handling for empty search terms | No search is triggered | No search executed when input is empty | Pass |
| SB-03 | Test search function trigger on button click | onSearch function is called | onSearch function was called with "Valid Term" | Pass |

**2. SearchResults**

| **Test Case ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| --- | --- | --- | --- | --- |
| SR-01 | Test rendering of tracks received from API | Tracks are displayed correctly | 3 tracks displayed as expected | Pass |
| SR-02 | Test adding a track to the playlist | Track is added to playlist | Track "In Da Club" added to playlist | Pass |
| SR-03 | Test adding duplicate tracks to the playlist | Duplicate tracks are not added | Duplicate track was not added, playlist remains unchanged | Pass |

**3. Playlist**

| **Test Case ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| --- | --- | --- | --- | --- |
| PL-01 | Test rendering of playlist name and tracks | Playlist name and tracks are shown | Playlist name "My Playlist" and 3 tracks displayed | Pass |
| PL-02 | Test removing a track from the playlist | Track is removed from the playlist | Track "Yeah" successfully removed from playlist | Pass |
| PL-03 | Test saving the playlist to Spotify | Playlist is saved successfully | Playlist saved successfully to Spotify, confirmation received | Pass |

| **Test Case ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| --- | --- | --- | --- | --- |
| API-01 | Test fetching user ID | User ID is fetched successfully | User ID "user123" fetched successfully | Pass |
| API-02 | Test fetching tracks based on search term | Correct tracks are returned | 5 correct tracks returned for "Valid Term" | Pass |
| API-03 | Test creating and saving a playlist | Playlist is created and saved | Playlist "My Playlist" created and saved successfully | Pass |

**4. Spotify API Integration**