

QuickSC

Screen Sketches

Group 324 - Ty Beresford, Jonathan Madden, Sajan Patel, Tiffany Fix

QuickSC: Actors & Functionality

1. Normal Spotify user

- View top artists and songs
- See what's currently playing
- Access personalized recommendations and playlists
- See favorite artists, songs, and playlists
- View their own listening history

2. Admin / Developer

- View all users or specific users
- Restrict access to users
- Create new data visualizations
- Access to advanced data analytics and historical data

3. Data Investors

- Access to advanced data analytics and historical data
- Invest in future development
- Preview unreleased content

QuickSC: Non-functional Requirements

Non-functional Requirements

1. Product Requirements

a. Runtime / Storage Efficiency

i. Fast runtime

1. Reduce redundant code
2. Optimize database and client request(s)

ii. Reduce size of application

1. Reduce redundant code
2. Minimize external libraries

b. Reliability

i. Reduce crashing / freezing / lag

1. Optimize code
2. Debug potential steps

c. Scale Level

i. Platform Portability

1. Scale application among different devices

d. User Interface Compatibility

i. Reduce complicated user interface methodology

1. Simple, clean user interface

2. Organizational Requirements

a. Implementation Efficiency

i. Ideal code [low runtime]

b. Code Formatting Standards

i. Coding requirements [keep code readable and fixable]

c. API / HTTP Method Efficiency

i. Reduce unnecessary overhead in API / HTTP methods

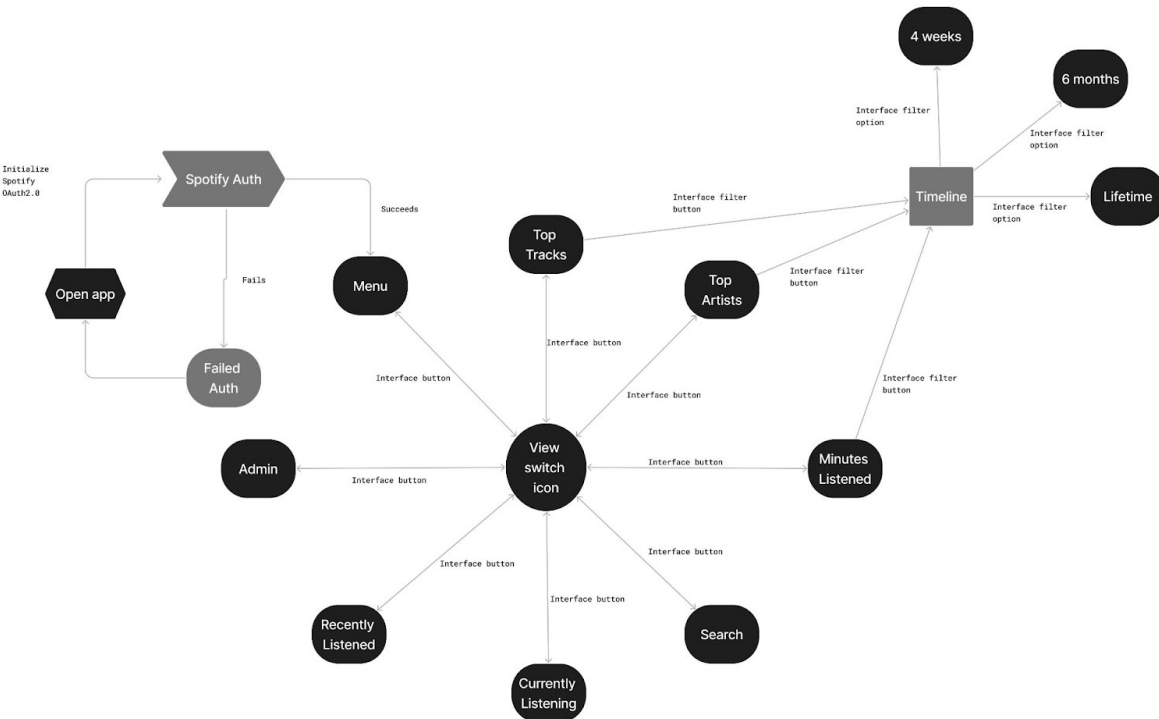
3. External Requirements

a. Ethical Requirements

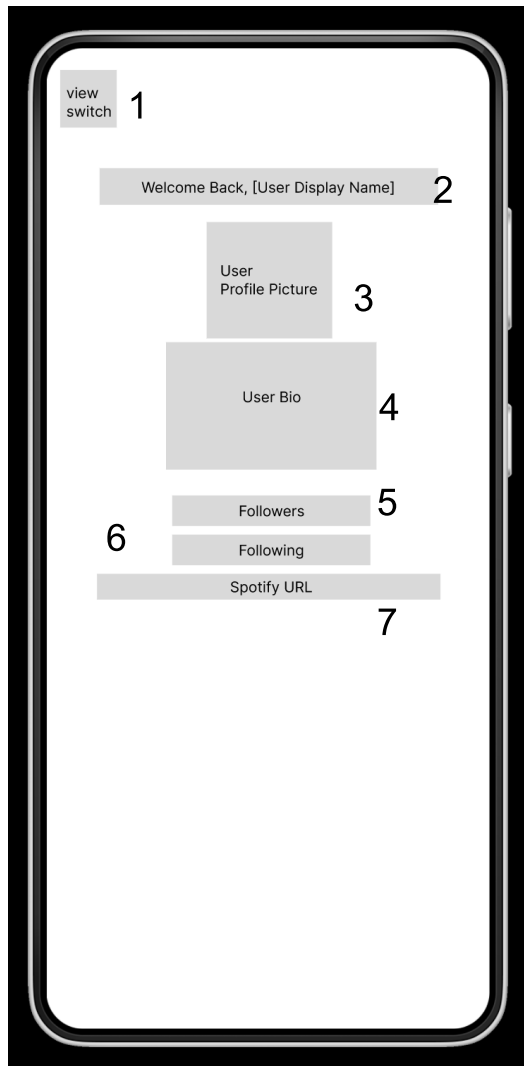
QuickSC: Tables

Table	Columns
Spotify User Information: basic user information	UserID (Primary Key) Country Displayed Name Email Spotify URL Followers Following Bio Profile Picture URL
QuickSC User Information: basic QuickSC permission(s) table	UserID (Primary Key) Role Last login time Permissions
Playback State: current user playback state history	UserID (Primary Key) Device Song Progress Recently Played Current Album Current Song Current Artist
Search: current user previous searches	UserID (Primary Key) Song Album Song ID Song URL Song Picture URL Song Artist Song Length Song Popularity
QuickSC User Habits: current user listening data	UserID (Primary Key) Top Tracks Top Artists Top Genre Minutes Listened Top Albums

QuickSC: Screenflow

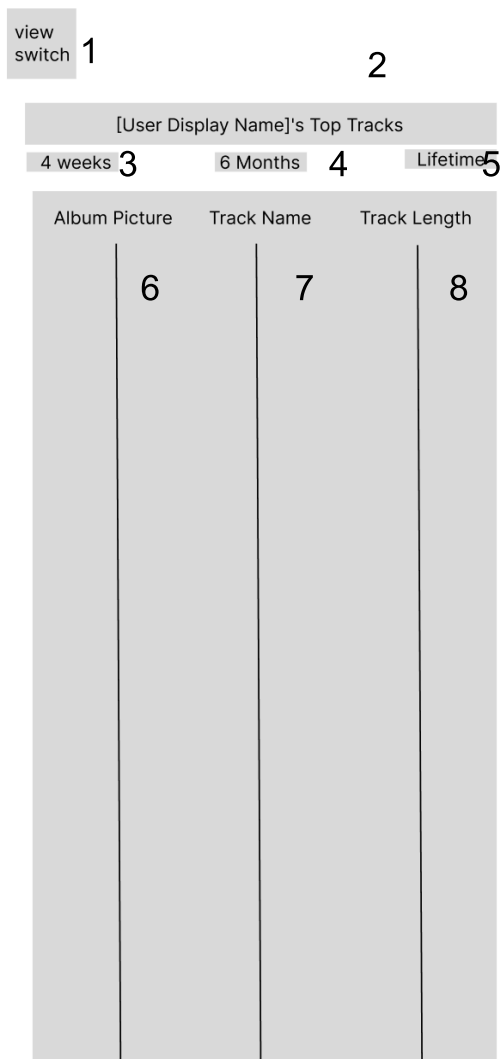


QuickSC: Ty Beresford Screen View #1



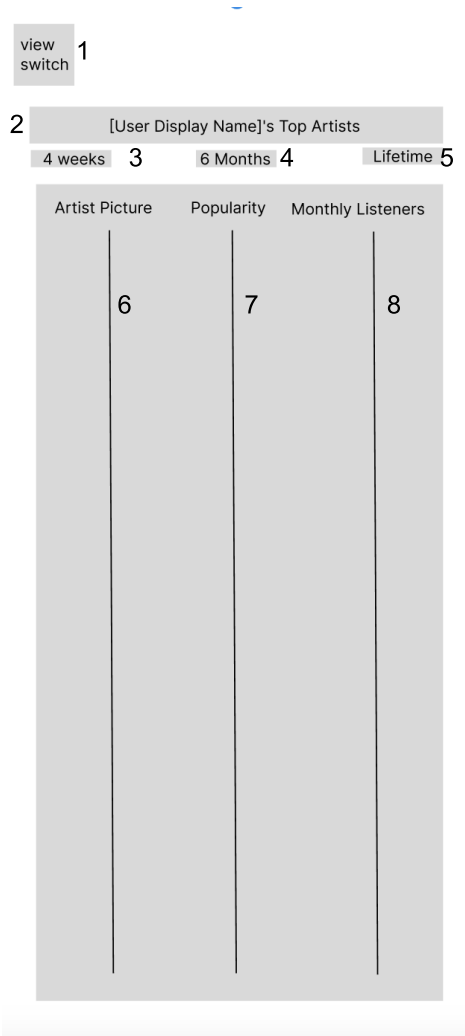
1. The view switch button will have a page pop up that can lead the user to any of the 8 total views
2. Welcomes user back and displays the users name
3. Profile picture and if one is not uploaded a default picture is put in place
4. User bio taken from their Spotify bio
5. Displays user's Spotify followers
6. Displays user's Spotify following
7. Displays user's Spotify URL

QuickSC: Ty Beresford Screen View #2



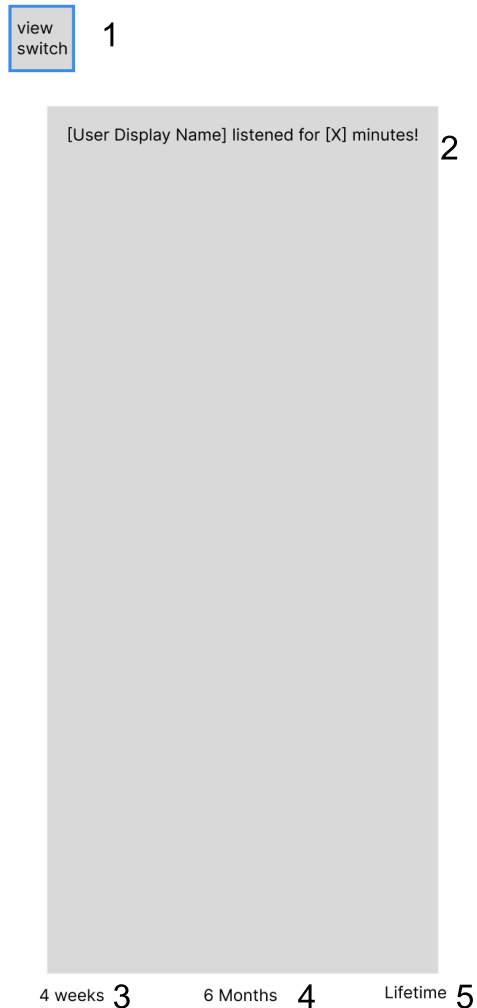
1. The view switch button will have a page pop up that can lead the user to any of the 8 total views
2. Displays the user's display name and top tracks
3. 4 weeks is the possible timeline in which we track the top tracks
4. 6 months is the possible timeline in which we track the top tracks
5. lifetime is the possible timeline in which we track the top tracks
6. Displays album picture the specified track
7. Displays track name
8. Displays the length of given track

QuickSC: Sajjan Patel Screen View #3



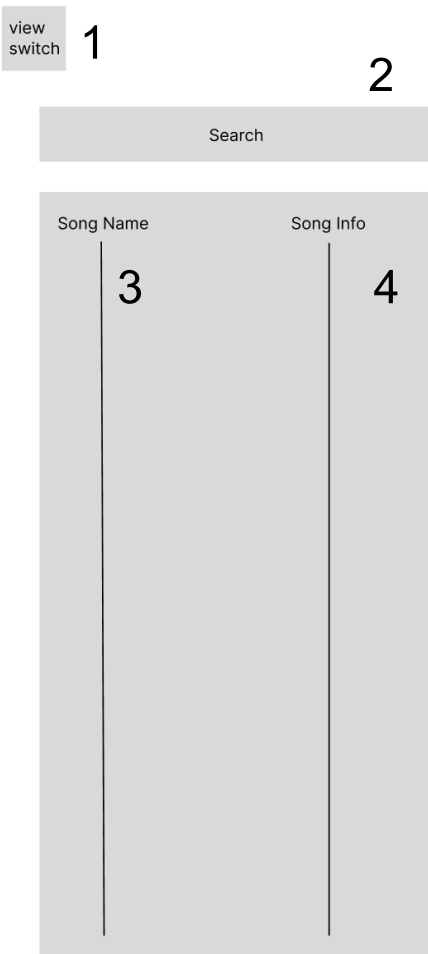
1. The view switch button will have a page pop up that can lead the user to any of the 8 total views
2. Displays the user's display name and top artists
3. 4 weeks is the possible timeline in which we track the top artist
4. 6 months is the possible timeline in which we track the top artists
5. lifetime is the possible timeline in which we track the top artists
6. Displays album picture the specified track
7. Displays popularity of the artist
8. Displays the monthly listeners of the artist

QuickSC: Sajan Patel Screen View #4



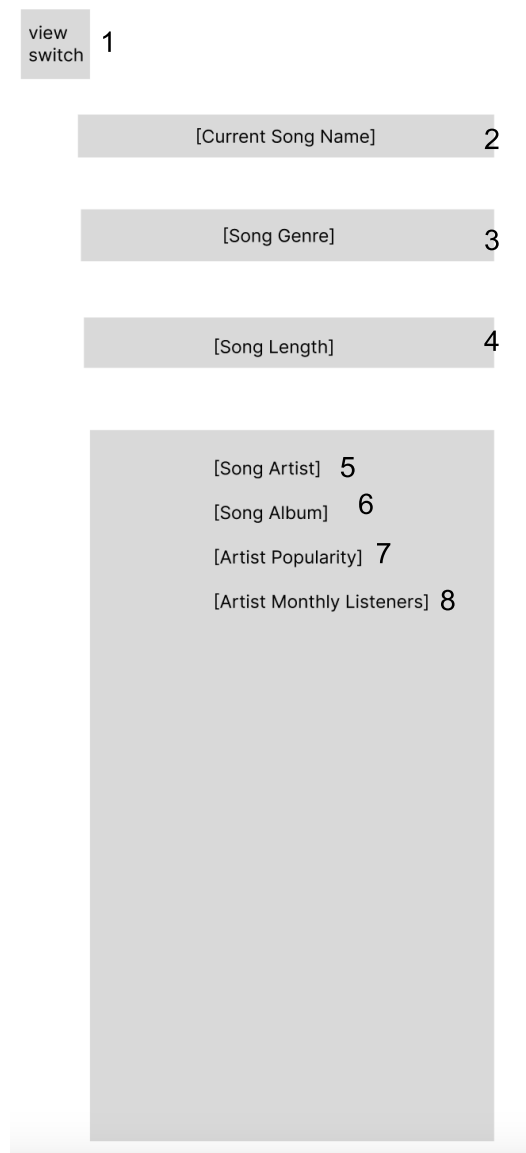
1. The view switch button will have a page pop up that can lead the user to any of the 8 total views
2. Displays the user display name and total minutes listen to on spotify
3. 4 weeks is the possible timeline in which we track the top tracks
4. 6 months is the possible timeline in which we track the top tracks
5. lifetime is the possible timeline in which we track the top tracks

QuickSC: Jonathon Madden Screen View #5



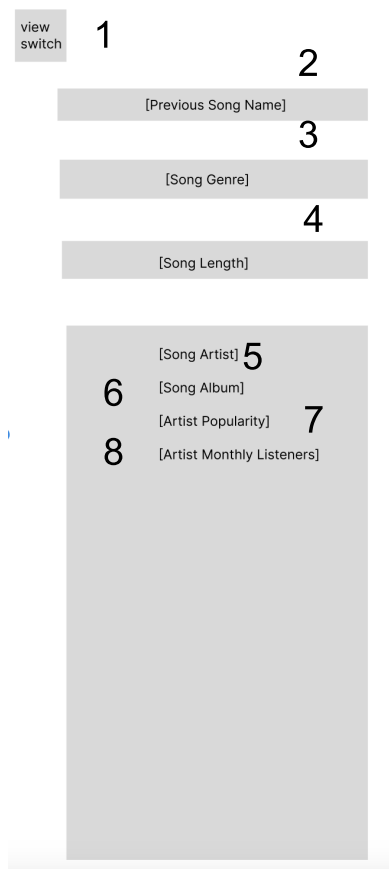
1. The view switch button will have a page pop up that can lead the user to any of the 8 total views
2. Search button give the user the option to search any song on spotify
3. Once a song is searched the top results will show the song name
4. Once a song is searched the top results will show the song info

QuickSC: Jonathon Madden Screen View #6



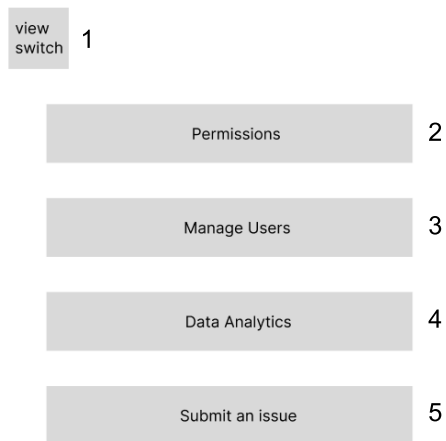
1. The view switch button will have a page pop up that can lead the user to any of the 8 total views
2. Displays the current song name
3. List the genre of the song that is playing
4. Lists the song length
5. Displays the song artist
6. Displays the song Album
7. Display the artist popularity
8. Displays the artists monthly listeners

QuickSC: Tiffany Fix Screen View #7



1. The view switch button will have a page pop up that can lead the user to any of the 8 total views
2. Displays the most previous song that the user has played
3. Shows the genre of the most previous song played
4. Shows the song length of the most previous song played
5. Shows the Artist of the most recent song played
6. Shows the Album that the most recent song played is from
7. Shows the "Popularity" rating of recent song
8. Shows the Monthly listeners of the most recent artist played

QuickSC: Tiffany Screen View #8



1. The view switch button will have a page pop up that can lead the user to any of the 8 total views
2. Displays the Admin's current permissions within QuickSC
3. Allows the Admin to manage the users
4. QuickSC users' data
5. Admin can submit an issue directly to the developer

