

SoundScape User Interface Specification

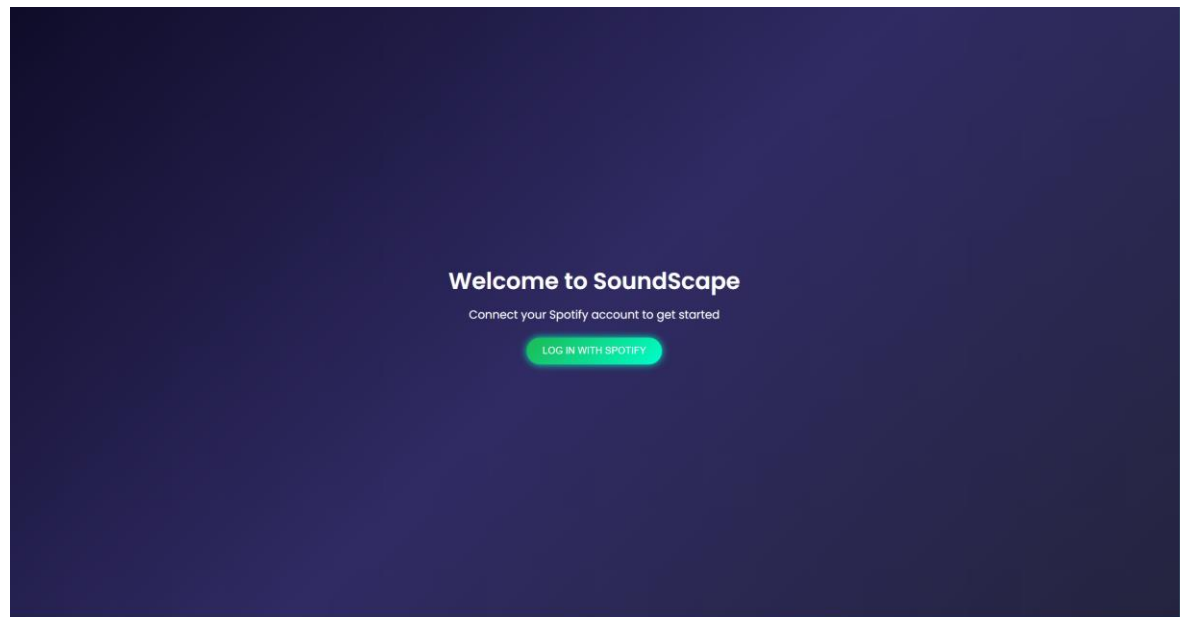
SoundScape is made up of three primary screens

1. The login page
2. The home screen
3. The playlist page

The details of each, how the user interacts with them, and what components they include are described below. The entire UI of SoundScape was developed with React native, a JavaScript framework. The details of the implementation of the UI can be viewed in the `/code/client` directory of this project.

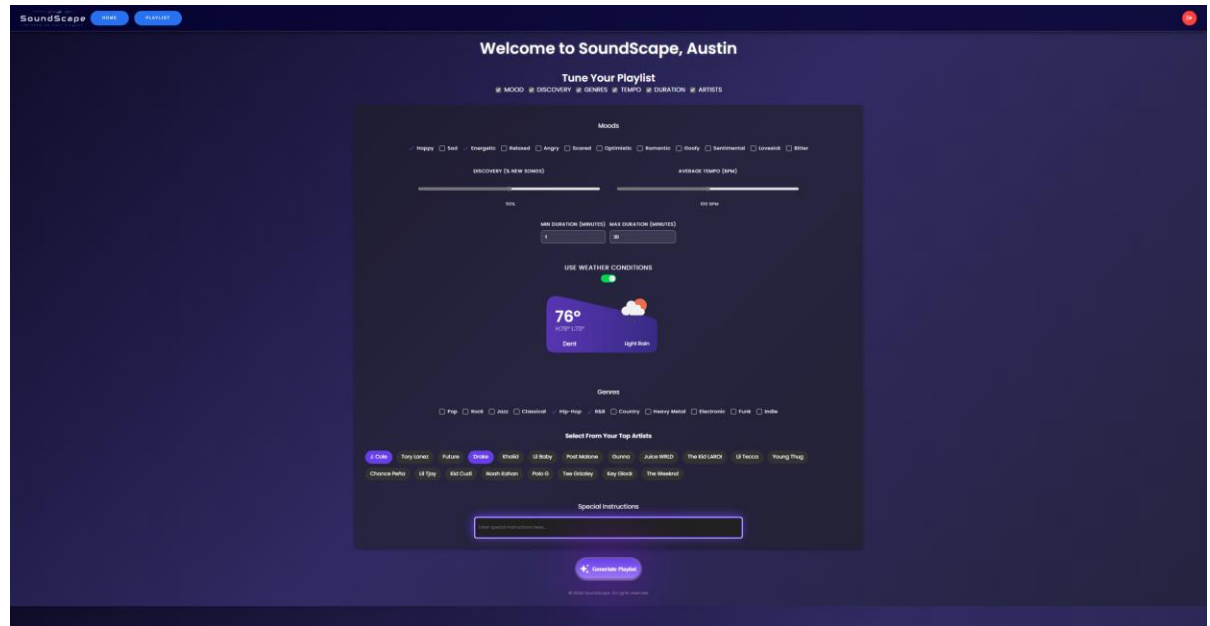
I. The Login Page

The login page is where the user is first brought to upon accessing the app. This screen contains the most simple UI in the app. It has some text directing the user to log in and a button that will take the user to their Spotify login so their information can be used in the app



II. The Home Screen

After logging into their Spotify account, the user will be brought to the home screen. The home screen contains all of the contextual inputs that the user will use to personalize their playlist recommendations. At the top of the page, it will greet them with their name, which is pulled from their Spotify account information.



They are able to enable or disable certain fields they want included in their recommendations by using the checkboxes at the top. Then, a darker purple box outlines all of the contextual inputs. These include:

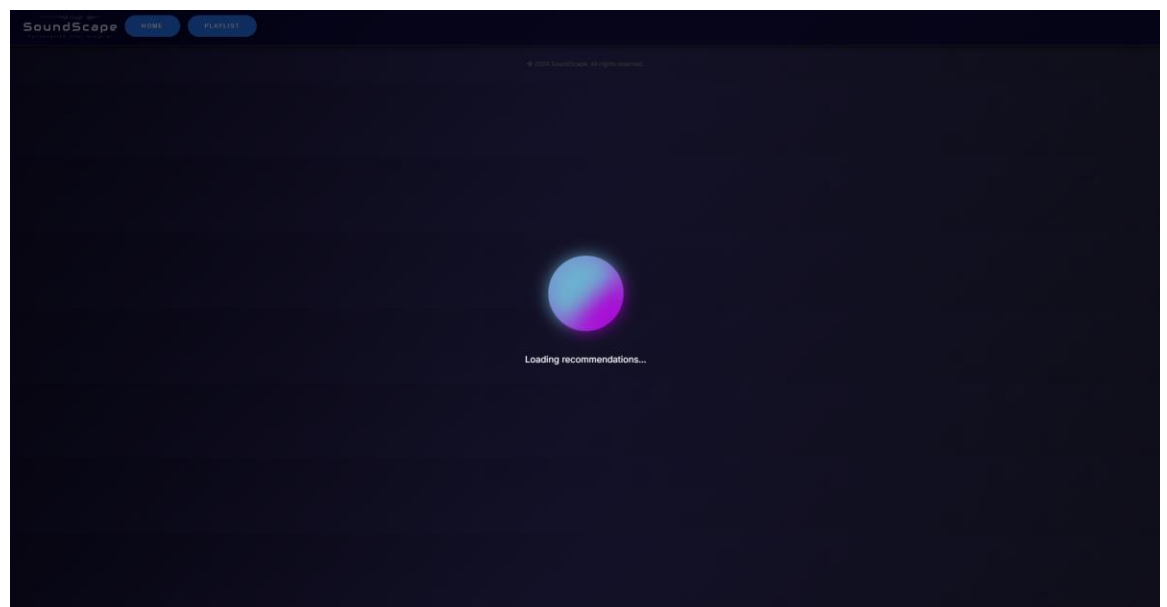
- Mood checkboxes
- A slider controlling what percent of the recommendations are new songs
- A slider controlling the tempo
- Min and max duration controls
- A toggle for using weather conditions
- Genre checkboxes
- A selection to include any of the user's top artists
- A special instructions input

There are also some other notable UI features on this page. The header contains the SoundScape logo, buttons to navigate to different pages in the app, and a logout button that expands when hovered over. There is also a card that shows the current weather and location of the user and a button at the bottom that allows users to generate recommendations when they are ready. Almost all buttons and controls have features or animations when the

user hovers over them or interacts with them to provide them with feedback and an enjoyable experience when using the UI. It is also important to note that the top artist selection will pull information from a user's Spotify account and display their top artists in that section.

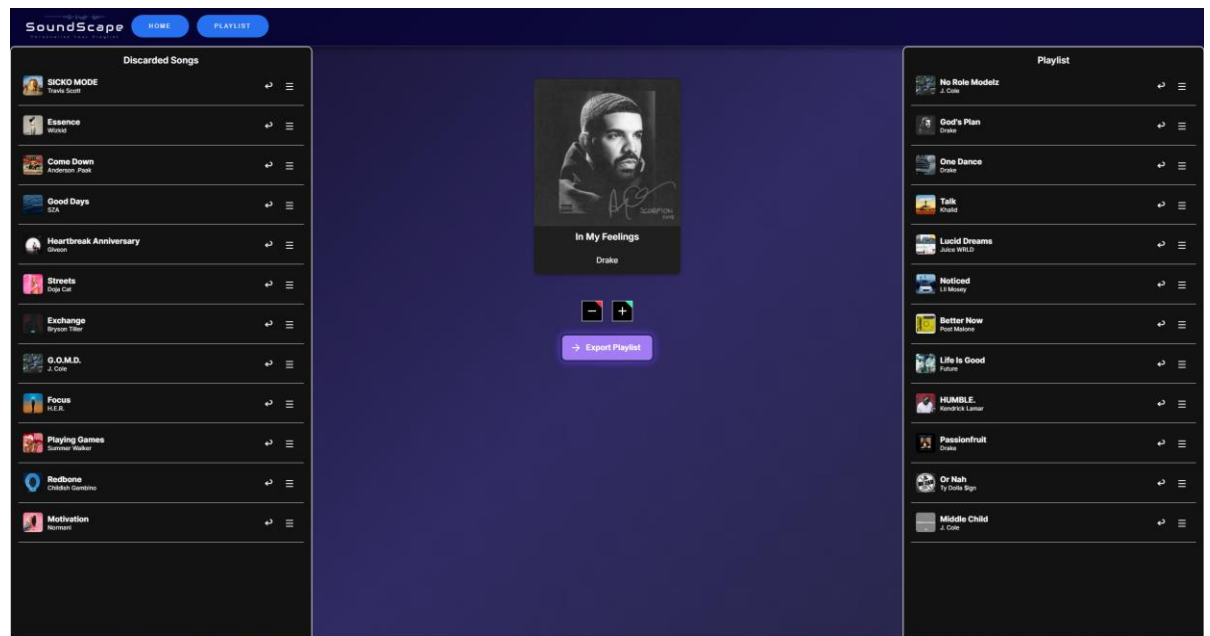
Many of the features on this page were implemented as separate React components, including all the buttons in the header, the checkboxes, the weather slider, the weather card, the top artists selector, the special instructions input, and the generate playlist button.

Once the user clicks the generate playlist button, a loading animation will appear until the recommendations have been generated by the AI

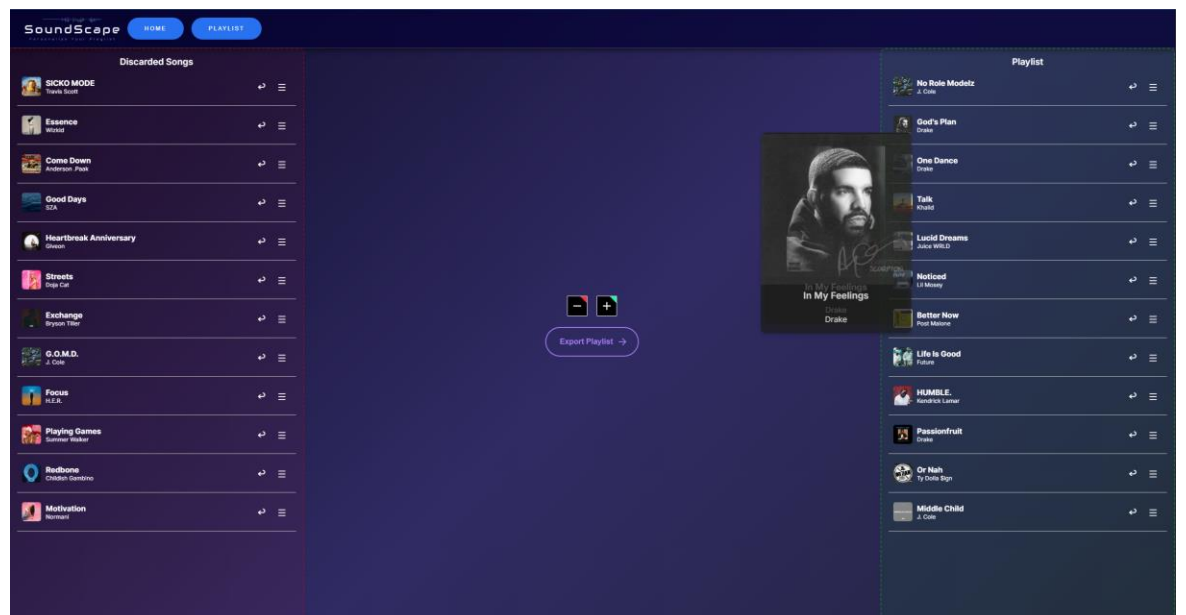


III. The Playlist Page

Once the song recommendations have been generated by the AI and processed by the backend, the user will be brought to the playlist page.



The playlist page allows users to customize which song recommendations will actually be in their playlist. They can use the plus or minus buttons or swipe on the song cards to move songs to the playlist or discard sections.



If they want to remove a song from either list, they can do so by using the reshuffle or back button that is next to each song. They can also reorder any of the songs by using the drag button (3 lines) next to each song as well. Once they have gone through all of the recommendations, a button will appear that will allow them to generate more recommendations if they would like. This will take into account songs that have already been recommended and will not recommend those songs again. It will also account for discarded songs

to try and adjust the recommendations accordingly. Once the user is happy with their playlist, they can export it to Spotify by using the export playlist button. This will trigger a pop-up to appear that will ask the user to name the playlist and confirm exporting it. They can also click the back button if they would like to make any changes. After exporting the playlist, it will be put in their Spotify account where they can listen to it

