

INTRO/ABSTRACT

Spotify's yearly wrapped report is extremely popular amongst its users. Unfortunately, users must wait a year from every report to view statistics about their listening habits. Our app will allow users to generate reports displaying their top songs and artists whenever they want. Additionally, our app will allow users to generate recommendations for new music based on their favorite songs/artists. Users will also be able to generate advanced recommendations by inputting custom artists/genres/songs and customizing a variety of parameters such as the recommended song's tempo, loudness, and danceability. Additionally, users will never run out of new music to listen to due to the custom song recommendation feature of our app.

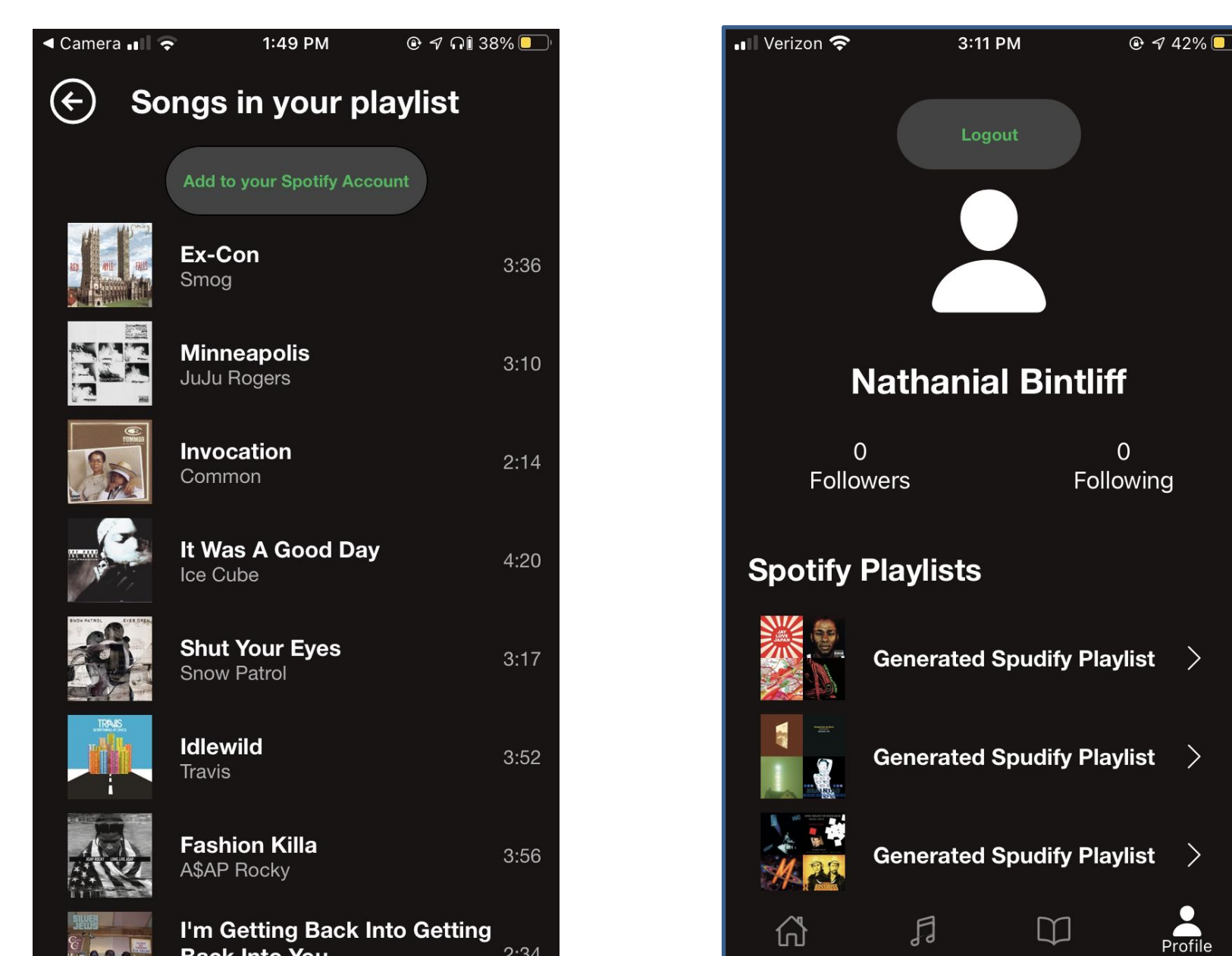
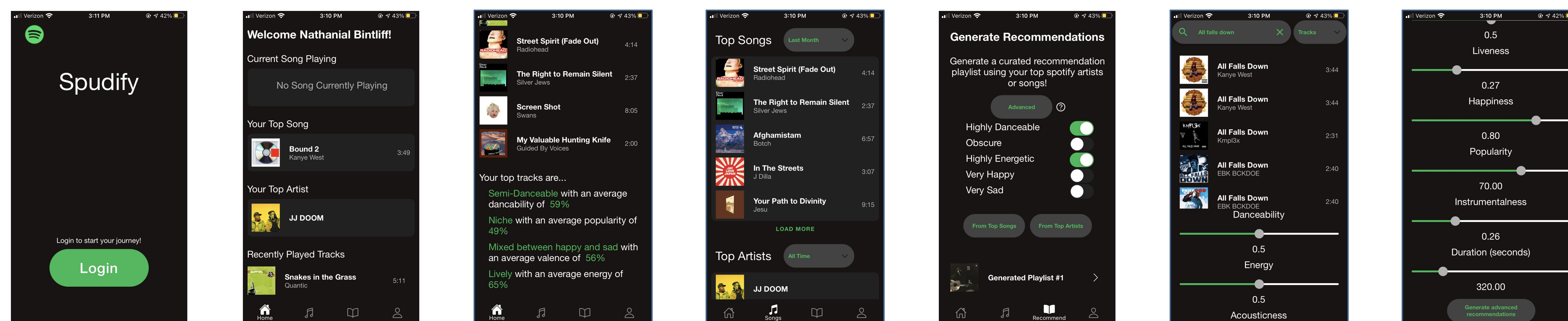
METHODS

The React-Native Javascript Framework was used to develop our mobile app. Expo was used to test our app during development. Spotify's API was used to fetch information displayed in our app and to generate recommendations. The Axios package was used to make HTTP requests to Spotify's API. To authenticate users through Spotify we used OAuth 2.0. User data such as generated playlist are stored in a SQL database; where the backend architecture consists of: Next.js, Prisma, and Planetscale.

RESULTS

We successfully developed an iOS and Android mobile app where users can login using OAuth 2.0. Leveraging Spotify's APIs users can view their statistics and generate recommendations based on several criteria (top songs, top artists, song genre, etc.). Additionally, we created an immersive and friendly user experience with error handling for a seamless flow.

A mobile app developed to view statistics about your Spotify activity and generate recommendations containing new music.



Spudify Website

