



OVERVIEW

Music Identity is a web application that displays a dashboard of your spotify music analytics. Music services typically do not provide this data regularly unless purchased through a third party service. After authentication, you are able to view your long term and short term music activity based off of Spotify's APIs with additional calculations.

METHODOLOGY



ReactJS - is an open source javascript library used for building user interfaces. Benefits of Reactjs include its speed, performance, usability and the ability to create reusable/custom components with JSX.

Grommet - is an open source UI development tool used to simplify the creation of components and ensuring UX consistency. Several companies use grommet today like Netflix, HPE, GE, and IBM.

NodeJS - is an open-source, cross-platform, JavaScript runtime environment. Nodejs provides real-time communication support for the application's back-end.

Spotify - one of the most popular music streaming platforms competing with other large services such as Apple Music. Spotify has available Web API endpoints to retrieve current detailed user activity.

FEATURES

Dark / Light Mode

Top Genres

Long term genres with listed subgenres on hover

Top Artists

Scrollable list of long term most listened to artists

Top Albums

Paginated list of long term most listened to albums

Recent Artists

Paginated list of artists you recently started listening to within the last 4 weeks outside of your typical streaming

Decade you live in

Refers to the range of release dates from your top songs

Top Tracks

Scrollable list of long term most listened to tracks

CHALLENGES

ReactJS Tree-Structure - Reactjs follows a component hierarchy. Due to this, it becomes mandatory to define the structure of the app in the beginning of development. For example, a rendering issue in a parent component can dramatically impact the performance of a child component. The DOM model is tree-structured.

Grommet Limitations - using this tool will speed up development in terms of providing predefined components. However, this can undermine what you want to do with your application. For example, obstacles occur when presenting data in certain manners or allowing users to perform certain tasks outside of the default.

Authentication - in order to retrieve user data from Spotify's API, authorization with OAuth 2.0 is required.

REFERENCES

Web API reference: Spotify for developers. Home. (n.d.).
<https://developer.spotify.com/documentation/web-api/reference/#/>

Authorization. Spotify for Developers. (n.d.).
<https://developer.spotify.com/documentation/general/guides/authorization/>

Components. Grommet. (n.d.)
<https://v2.grommet.io/components>

