UAIM

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Getting Started

Run below commands to start on your local machine

```
1. git clone https://github.com/wiktoz/lab2.git
```

2. cd lab2

3. npm install

4. npm start

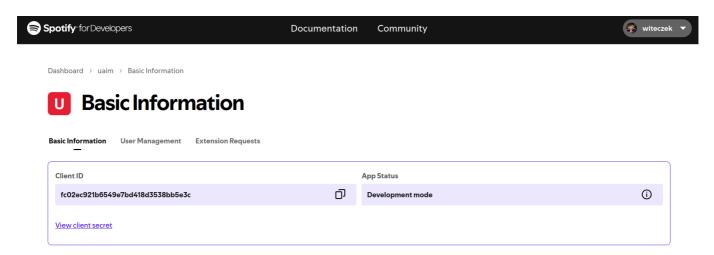
App Description

Application is presenting Top 50 Global Listened Songs. Data is fetched from Spotify.

API url: http://api.spotify.com

DOCS url: http://developer.spotify.com

In order to get access to the Spotify API we need to create account and get client_id and client_secret.



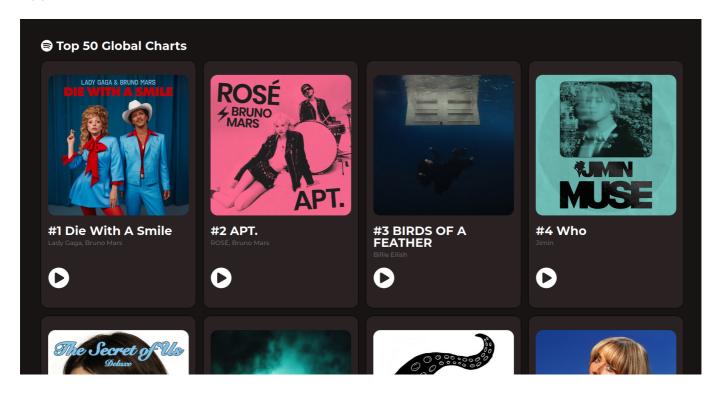
First action we need to perform to get access to the API is to send request to the https://accounts.spotify.com/api/token endpoint including client_id and client_secret. When credentials are correct we should obtain access token in response. From now we will include it in headers as Authorization header for every request we will make in the future.

In localStorage we also save token expiration time and re-fetch token automatically when it is expired.

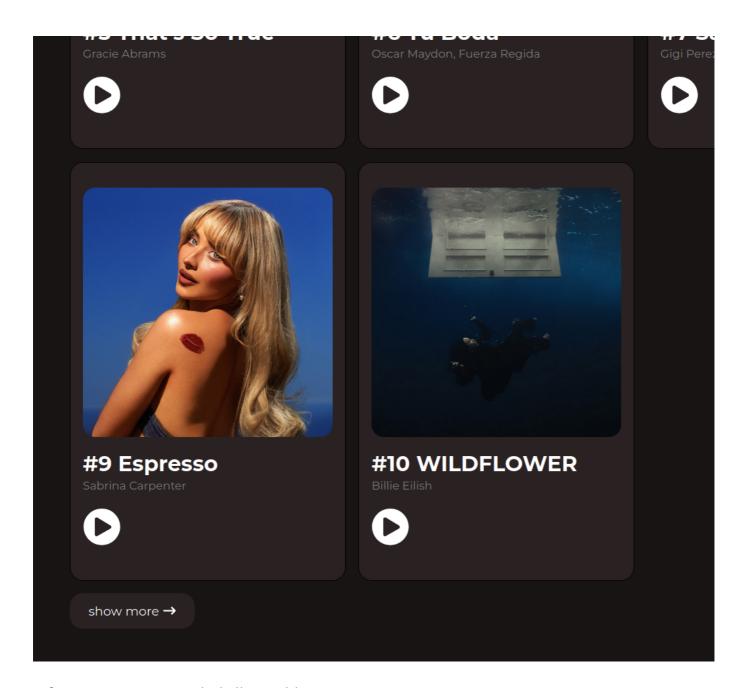
When we have a token we make request to fetch Top 50 Global Charts songs. The dataset is abundant therefore we remove unnecessary fields and save everything in localStorage. Songs can change their position in ranking for that reason I decided to include field containing time to next fetch (by default one hour).

Unfortunately Spotify does not provide option to fetch data in batches (e.g. using offset and skip) so I download whole dataset and render in React only 10 songs. Later on user can click show more to print more data. Many photos on the website has a huge impact on Largest Contentful Paint (LCP).

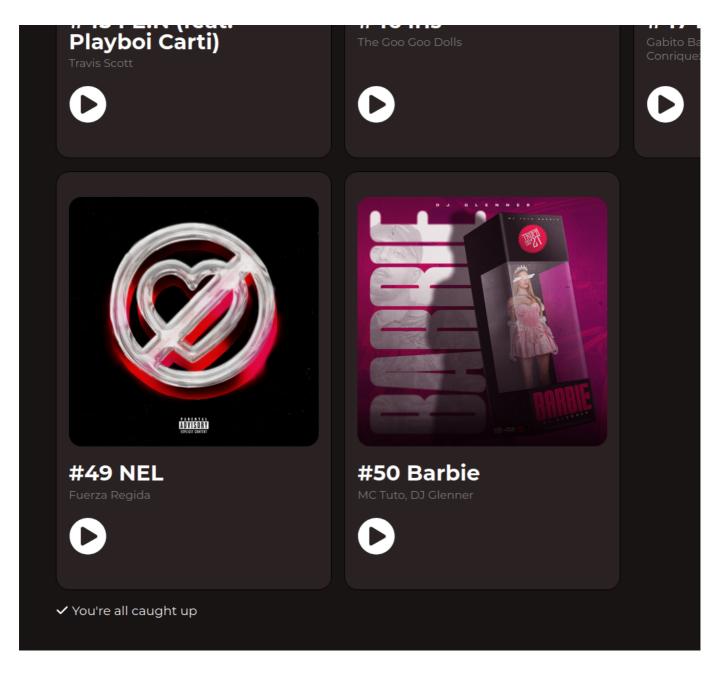
App View



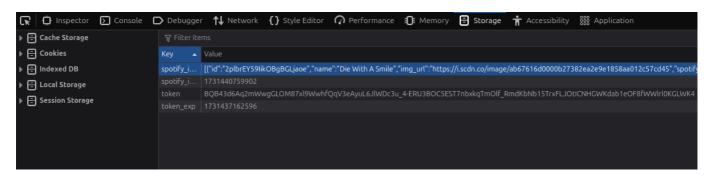
Show More



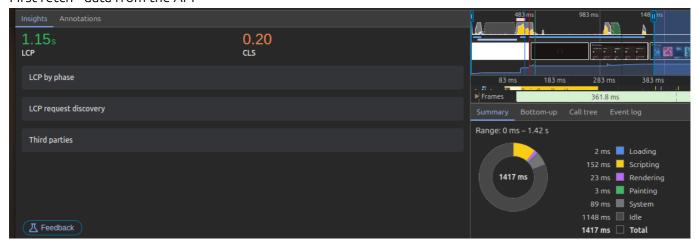
Information we expanded all possible songs



Data fetched from Spotify is reduced to the necessary fields and saved in localStorage. Moreover, there is a mechanism implemented to re-fetch data from Spotify to the localStorage every hour (by default - we can change that value).



First fetch - data from the API



Second fetch - data from localStorage. We got lower LCP time by a half.

