Informatics 133 Discussion 5

Reviewing A3

Partner Project!

- Project may be completed in groups of exactly two students or individually.

- Deadline to choose a partner is Oct 3rd

- Cannot change partners after the 3rd

About A3 - What you need to do

- Two folders:Webserver and Client Folder
  - Webserver Folder
    - The backend of your program

  - Client Folder
    - The frontend of your program

Webserver Folder Requirements

- Index.js
  - Request authorization via. editing the /login route

  - Get an access token by editing the /callback route

  - Update the makeAPIRequest function to request from the Spofiy API

  - Refresh the access token by updating the refresh function.

Authorization /login

- https: //accounts.spotify.com/authorize?
- response_type=code&
- client_id=6d81b7a55e894abdbf53143fb2901573&
- scope=user-read-private%20user-read-email&
- redirect_uri=http%3A%2F%2Flocalhost%3A8888%2Fcallback

- encodeURIComponent()

- Pass all these to res.redirect()

Access Tokens /callback

- Describe the security of a process
- Five parameters total
- POST using fetch on https://accounts.spotify.com/api/token
- Check if the response from the fetch is ok and return it
- Otherwise redirect somewhere else
- THEN update your access_token and refresh_token
- Catch any errors [console.error( )]

makeAPIRequest

- GET request using fetch ()
- Similarities:
  - Still have to handle the response
  - Still have to handle error
- Differences:
  - What to do if the response.status = 401?
  - Refresh and try again

Refresh

- To be called by your makeAPIRequest function.
- Similar to the previous functions
- POST request on the accounts.spotify.com/api/token
- Update the access and refresh tokens and write them to tokens.json
- Handle Errors

Client Foder Requirements

- Update six components in the components folder: about, carousel-card, search, track-list, and thermometer.

- Update three of the four components in the pages folder: album-page, artist-page, and track-page

- Update one service in the services folder: spotify-service

- One of the six classes in the data folder: track-features.ts

How to Update Components

- Different components will have different TODOs

- Angular binding
  - Done using double braces {{ }}
  - Take a look at *ngIf = "condition"

```
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope) {
    $scope.firstname = "John";
    $scope.lastname = "Doe";
});
```

```
<p>First name: {{firstname}}</p>
```

Reminders

- Quiz next discussion, Nov 6th

- Will cover Authentication, Angular, & Mobile Development