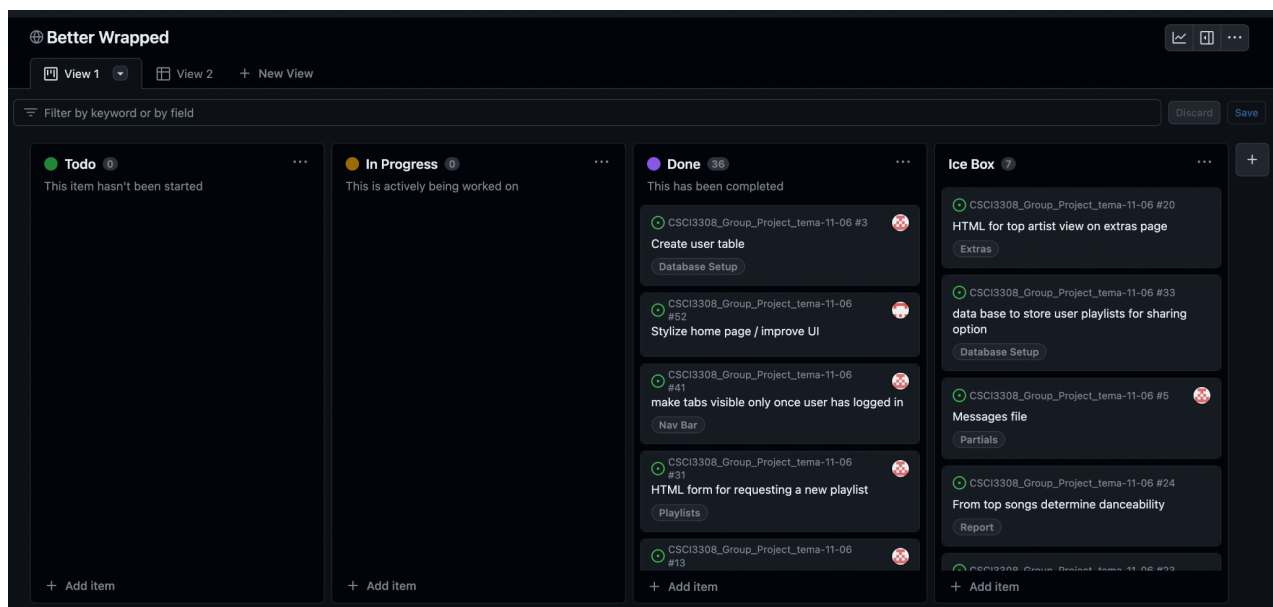- Title: Better Wrapped
- Who:
  - Aaron Curtis-Johnston, Berkley Larson, Jamison Wilder, River Jordan, Andrew Yonan
- Project Description:

The application provides users with short-term and long-term Spotify analytics, as well as playlist creation using the user's top songs. Specifically, the "Your Report" page shows users' top artists and songs over different time periods. The UI lists out this top listening data alongside artist/album images. Additionally, top songs show the user the artist and album of the song, while top artists show the genres associated with the artist and a popularity score provided by spotify. Better Wrapped builds on Spotify's current Wrapped software, which only provides yearly updates on these statistics. Users create new playlists from the "Extras" page which are added to their account and a new tab is opened with the playlist.
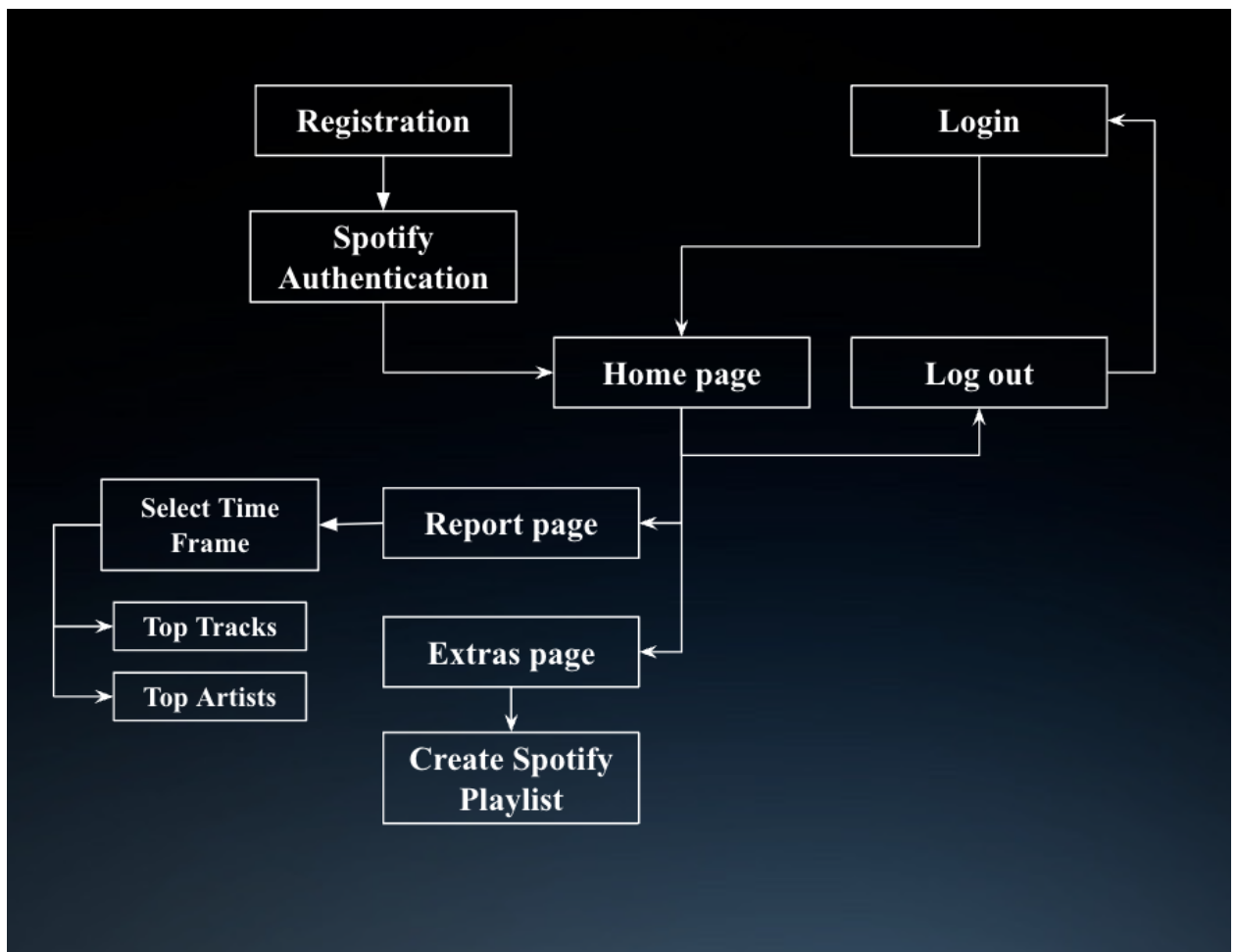
The site links to Spotify's authentication page where users allow Better Wrapped access to their listening data. The authentication then provides user access keys to the database in order to allow users to view data specific to them. User's authentication key will be saved in the database so they can return to the site without logging into Spotify again. Users can customize their views in order to see specific data that they are interested in, with a choice of timeframe (up to 1 year).

- Project Tracker - GitHub project board:
  - https://github.com/users/aaron117511/projects/1/views/1

- Video Link: https://drive.google.com/file/d/1nl3kkMlngG3A-qqBwuVLUtqRASO0BqVi/view?usp=sharing
- VCS Link: https://github.com/aaron117511/CSCI3308_Group_Project_tema-11-06
- Contributions:
  - Aaron Curtis-Johnston
    - Created initial github repository and facilitated the set up of our project board. Created the initial file setup and directory structure. Dealt with and set up spotify developers account to enable API calls and facilitated the corresponding account registration to allow our APP to send API calls with the corresponding users. Created function to make an easily editable redirect for users to approve authorization of API calls. Worked on API calls for User Authorization code and User Token codes. Created function to make an API call to get a new Token once the old one has expired. Created a Function to run all API calls for user information(was not used in final release). Facilitated the transfer of information received from API calls in order to work with it. Also did miscellaneous tasks corresponding to record keeping(like release notes) and tasks related to requirements for labs.
  - Berkley Larson
    - Created baseline pages and partials for home, login, and logout. Developed the login, logout, and register API calls. Established functionality for spotify authorization, authentication, and refresh tokens. Made get user info route. Connected top artist, tracks, and user info APIs to the Your Report page allowing for timeline selection. Developed API calls to create playlists and add songs to playlists, both of which were connected through a single api call which redirected to the playlist address. Wrote the Extras page along with the playlist creation form. Added authentication middleware to the app.
  - Jamison Wilder
    - Developed external API calls integral to application functionality with Axios, such as the routes which retrieve a user's top artists and top tracks by interfacing with Spotify's song and artist database. Consequently, it assisted with the Spotify access token, refresh token, and authorization management, which ensured security for users of the application through Spotify's rigorous authentication process. Also implemented login/logout functionality, user session management, and assisted with front-end display of retrieved API data.
  - River Jordan

- ■ Contributed to the front-end by creating the yourReport page. Designed the timeline button and implemented Bootstrap HTML tables to display top artists and songs. Handled the data extraction when accessing JSON files to retrieve the necessary information for display purposes. Assisted in writing test cases. Linked all the pages to make them easily accessible from any point on the website. Assisted in writing API calls.
  - ○ Andrew Yonan
    - ■ Handled styling tasks for the home page and artist report page, including initial development of planning wireframes (in proposal doc). Styling tasks specifically included developing clean out-of-line CSS references for various UI elements on the home and report pages, including navbars and lists of items. Aided with JSON data-extraction, image-formatting, and text-formatting for the report page. Supplied custom wallpaper for the home page. Wrote UAT test cases.
- ● Use Case Diagram:

- Test Case 1
  - While playing around with our app the users were able to very easily identify the additional option to specify time frames and intuitively figure out how to work it. Their actions were exactly what we planned and hoped for in our use case diagram.
- Test Case 2
  - Feature not included in final release
- Test Case 3
  - For this test none of our users actually was able to trigger it. However through our own playing around if you are not logged in you are unable to access the other pages.
- Test Case 4
  - For this test specifically, our user was able to successfully create a new playlist but was briefly confused as to the purpose of the text box. He was however able to successfully deduce the purpose of it and create a new playlist without any error
- Deployment Link: http://recitation-11-team-06.eastus.cloudapp.azure.com:3000/