SW ENGINEERING CSC648/848

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Milestone 4
12/02/21

Milestone/Version	Date
M1V1	September 30, 2021
M2V1	October 21, 2021
M4V1	December 02, 2021

<u>Product Summary - myJams</u>

Final P1 Requirements:

1. A user shall be presented with a set of questions to determine their musical interest.
2. A user shall be able to switch between different "music profiles" to switch the type of song recommendations they will receive.
3. A user shall be able to get recommended songs and choose the songs that they like.
4. A user shall be able to play recommended songs.

Our product makes it very easy for anyone with a Spotify Premium account to quickly find songs that they like. Users will be able to simply swipe left on the recommended songs to dislike them and swipe right to let the application know that they enjoyed the music. The feedback from the user will then be used to update the data regarding the users' preferred songs to generate better quality recommendations.

Our application is hosted on https://csc.excl.dev/

<u>Self-check: Adherence to original Non-functional specs</u>

1) (availability) Application shall be available for normal use for 24 hours everyday. **(DONE)**

2) (compatibility) Application shall be compatible and usable on desktop browsers including Chrome, Mozilla Firefox and Microsoft Edge. **(ON TRACK)**

3) (development requirement) Data shall be stored in NoSQL technology on Amazon AWS deployment server. **(DONE)**

4) (development requirement) The code base should be well maintained in the team's github repository. **(ON TRACK)**

5) (usability) Application shall be able to accept keyboard and mouse inputs. **(ON TRACK)**

6) (usability) Application shall be able to access and accept input from the device's microphone (IF IMPLEMENTING SHAZAM-LIKE FEATURE). **(ISSUE)**

   a) Our team will not be implementing this requirement since it is not an essential feature of our application.

7) (performance) Each page should load within 1 second. **(ON TRACK)**

8) (performance) Searching should finish within 1 second. **(ON TRACK)**

9) (performance) Loading and playing a song should finish within 1 second. **(ON TRACK)**

10) (security) The users' username and passwords shall be encrypted with AES encryption method. **(ISSUE)**

   a) Our team decided that there is no need for users to create their own usernames and passwords for our application since users will need to login to our app via Spotify OAuth. Therefore, we are not going to be storing any important user information in our database that needs to be encrypted.

11) (storage space) Users shall be able to hold up to 1,000 songs in a single playlist. **(ISSUE)**

   a) Our team will not be implementing this requirement since Spotify already holds information on the users' playlists. Our application will simply pull this information from the Spotify API and display it in our application.

12) (storage space) Users shall be able to hold up to 1,000 playlists in a single account. **(ISSUE)**

   a) Our team will not be implementing this requirement for the same reason as above.