

Sprint 2 Defect Log

Product: SpotiBot

Inspectors: Jimmy Carlson, Janka Gal, Puja Mittal, Jason Shipp, David Worley

Design Inspection

- Issue 1
 - If a number more than 50 is passed into the top playlist request, nothing happens.
 - Severity: 2
 - Solution: We looked at the Spotify API and the maximum number of songs that can be requested for top tracks is 50 so we send an error message if a number more than 50 is passed.
 - Author: Janka Gal
 - Recorder: Puja Mittal
- Issue 2
 - If user's login times out, they get a default error message or nothing happens when they try to type commands instead of being prompted to log in again. The user can still type login to start a new session but it's not user friendly to have no prompt.
 - Severity: 3
 - Solution: We redesigned the code so that when errors are handled such as a user trying to access information they're not logged in to access or their session times out, they get an error message prompting them to type "login" to log in again.
 - Author: Janka Gal
 - Recorder: David Worley
- Issue 3

- There is a problem with storing users in the database because only one user can access SpotiBot at a time. If a user logs in, then all calls to SpotiBot get information from that user instead of information for different instances of users.
- Severity: 1
- Solution: Before any API calls are made a query should be made to the backend for the refresh code and access token. This access token should then be refreshed and the api call should be made with a new .setMe call.
- Author: Jimmy Carlson
- Recorder: Janka Gal
- Issue 4
 - Get Recommended Songs based upon genre will send back albums full of songs that match that genre requirement and not actual tracks
 - Severity: 2
 - Solution: Parse out the most popular songs from each album and look to fill the playlist length requirement
 - Author: Jason Shipp
 - Recorder: David Worley
- Issue 5
 - Retrieving categories and moods for songs can be unreliable. Not every song has a category attribute tied to it other than it's genre.
 - Severity 2
 - Solution: Use the valence attribute on the audio object to detect happiness of a song, and use that to create a category for songs that require it.
 - Author: Janka Gal
 - Recorder: Jimmy Carlson

Code Inspection

- Issue 1

- Spotibot gives out the regular responses even if the user isn't logged in. Spotibot should prompt the user to login.
- Severity: 2
- Author: Puja Mittal
- Recorder: Jason Shipp
- Solution: We have solved some of the ordering issues in the user pathway to each endpoint, for example the stats subcommands only work after typing stats. However, one can type commands and it outputs the error message still without being logged in.

Unit Testing

- **Database (1)**

- Input: Insert an example user into the DB
- Expected Output: User is in the DB
- Test Output: User is in the DB
- Severity: 2
- Correction: None needed, insertion function works.

- **Database (2)**

- Input: Fetch the example user from the DB
- Expected Output: Example user from insertion test
- Test Output: False, user was not found
- Severity: 3
- Correction: Unsure how to fix at the moment, we think it is related to the application only being able to handle one user at a time.

- **Database (3)**

- Input: Update the example user from the DB
- Expected Output: Example user with the same ID but different information
- Test Output: Example user with the same ID but different information
- Severity: 3

- Correction: None needed, was able to query and update.
- **Database (4)**
 - Input: Remove example user from the DB
 - Expected Output: No users in DB
 - Test Output: Empty DB
 - Severity: 1
 - Correction: None needed, deletion works properly.
- **Build Your Own Playlist (1)**
 - Input: When user is trying to create a custom playlist, SpotiBot does not parse the input correctly. When they type “byop artist: lady gaga, chance the rapper”, SpotiBot should
 - return “Your artists are: lady gaga chance the rapper” and proceed to generating a playlist based on those artists.
 - Expected Output: SpotiBot should return “Your artists are: lady gaga chance the rapper”
 - Test Output: SpotiBot doesn’t understand the input and returns the default: “Here are the options for that request:...”
 - Solution: We checked the parsing code for this section and realized that it wasn’t parsing correctly based on the colon. Once we fixed the parsing code, the parsing and getting the artists worked correctly.
- **Build Your Own Playlist (2)**
 - Input: “byob genre: ?”
 - Expected Output: A list of all possible genres available to the user
 - Test Output: “undefined does not have member split”
 - Severity: 1
 - Solution: Change how the input is parsed for the question mark
- **Build Your Own Playlist (3)**
 - Input: “byob : “
 - Expected Output: The help message from byob

- Test Output: “undefined has no member split”
- Severity 1
- Solution: Check for array size after input and not continually reference possibly null members, exit if size doesn’t fit.

- **Build Your Own Playlist (4)**

- Input: “byob mood: ?”
- Expected Output: A list of possible mood tags available to the user
- Test Output: “undefined does not have member split”
- Severity 1
- Solution: Change the way the input text is parsed for question marks.