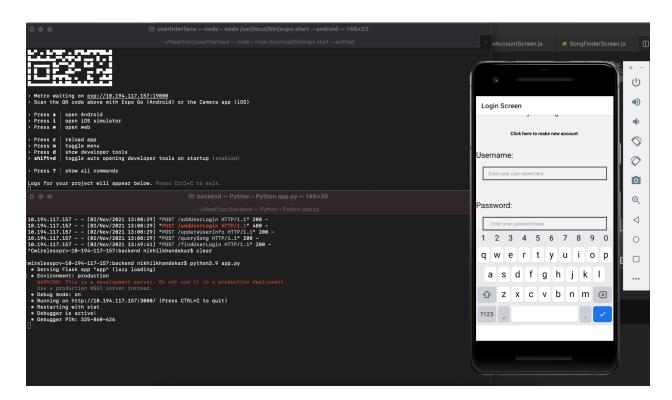
Week 1 Manual Test Plan

Installation Requirements:

- Android Studio and the installation for the emulator to be able to see the application work on a mobile
- Python3.9
- Flask
- React Native
- Requests library
- Axios Library from React
- React Navigation from React Native

To run the application, open two terminals. cd one terminal into the backend directory and type in 'python3.9 app.py'. In another terminal, cd one terminal into userInteface directory and type in 'expo start --android'. In doing this, one will see the emulator open up the android page:

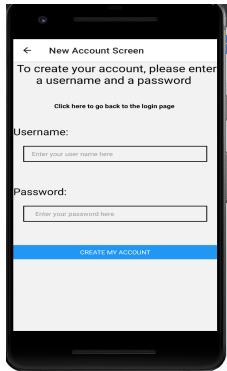


Manual Test Plan for Create Account Page

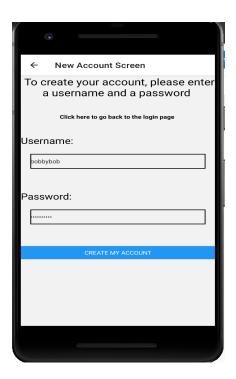
Suppose a user does not have an account and wants to create one. This can be done by first clicking the text "Click here to make a new account".



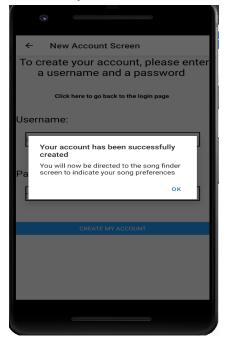
From here, the user will get prompted to a new page:



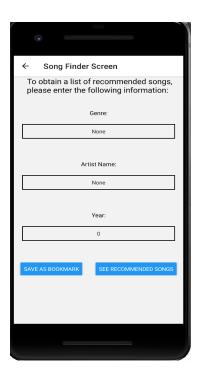
User will then enter their information onto the page and click create my account:



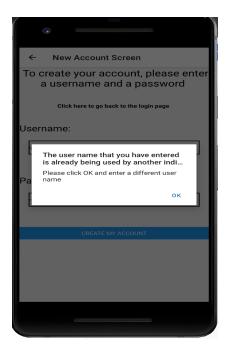
If the username is unique, then an alert will be shown showing that the account has been successfully created.



Clicking 'OK' will direct them to the song page for entering in their song information:



However, if a username is already registered inside the MongoDB database, then an alert will show saying that the user needs to choose a new username once a user clocks on the "Create my Account Button"



Manual Test Plan for Login Page

For a user to be able to login, they need to go to the login page and enter in their username and password. For this application, I will be using the account that I created from the Manual Test Plan for Create New Account Page. The username was bobbybob and the password was nikhil7153:



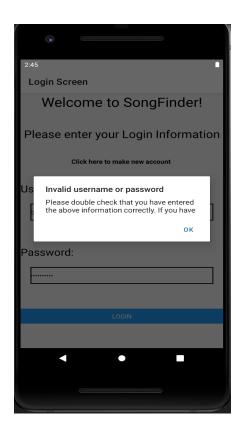
Upon clicking the login, if the login was successful, then the page will re-direct to the page for a user to give their preference:



However, if a user's login is not successful, because the username or password is not correct, an alert will be given as follows. The username will be wrong in this input as the username 'bobbyb' is non-existant in the database of user logins:



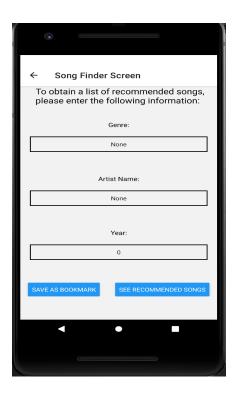
After clicking "Login," the following alert will be shown:



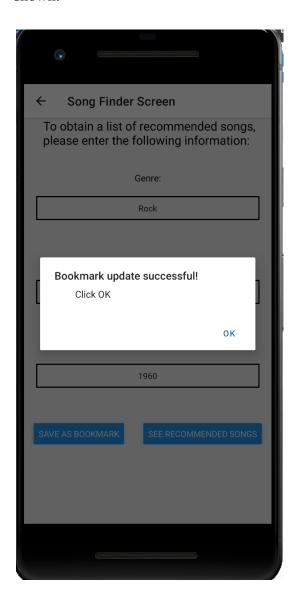
Manual Test Plan for Song Finder Page

Upon successfully logging in or creating an account, a user will get directed to the Song Finder which will show the following form:

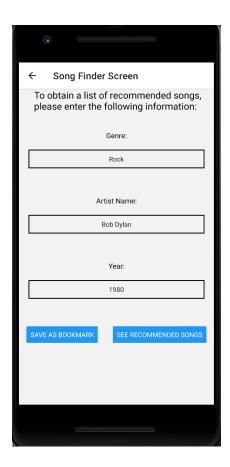
This user has never saved a bookmark which is why the following default values are shown:



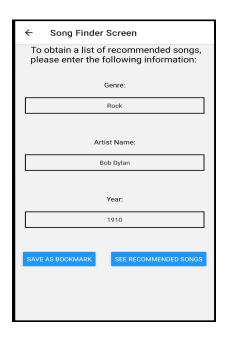
However, suppose a user types in some input for each of the parameters. In this case, if a user, bobbybob, clicks on "Save As Bookmark," after populating the fields, an alert message will be shown:

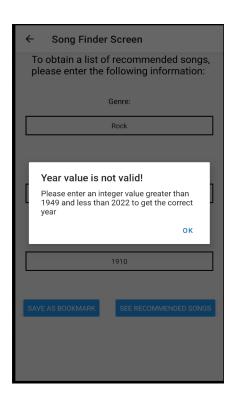


The page will then reload with the new user preferences:

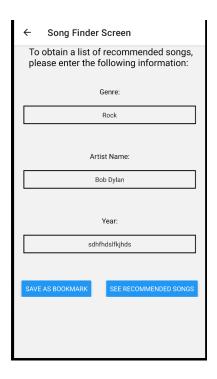


Note that the application also checks user input for the year parameter and ensures that the user is inputting a year between 1950 and 2021 and that the year can be converted to an integer. In the cases that the user's input fails for the year param, an alert message will be shown:

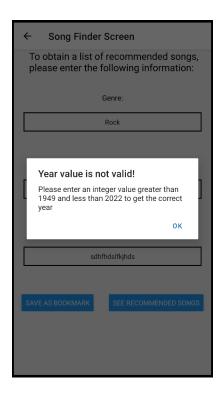




The same result will apply for a string value for the Year parameter:



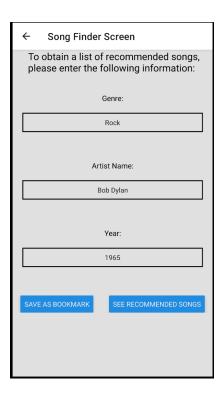
After clicking the "Save as Bookmark" button, the following alter will be shown:



Manual Test Plan for Recommended Songs

To get to the recommended songs page, one must input valid information for Years parameter in the Song Finder form. If not, then the same alert messages will be shown. If not, then the user will get the same alert messages that they got for creating a bookmark.

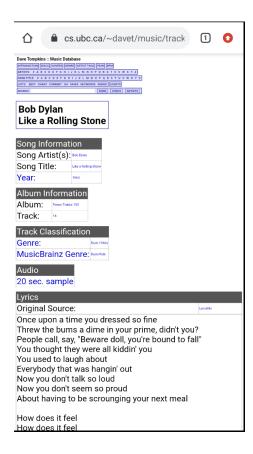
Suppose the user chooses to click on the "See Recommended Songs" button upon entering this form information:



The following information will then get inputted from this information. Note that this query will output any song that is matching at least one of the parameter values:

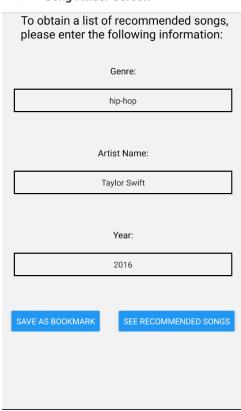


If someone clicks on the blue text, it will go to a website from which all the data is fetched from:



If a user inputs values for all fields where the database does not have anything in common with any fields then the following output will be shown when the "See Recommended Songs" gets clicked:

← Song Finder Screen



Result:

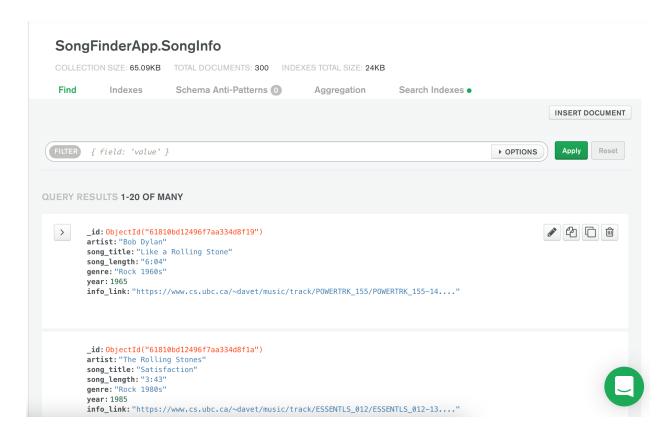
←	Song Recommendation Screen
List	of Recommended Songs
	No songs found

Manual Test Plan for Webscraping

To webscrape data, cd into the webscraper directory and then run the command python3.9 Driver.py -n <number of songs to be scrapped>:

```
[wirelessprv-10-194-117-157:backend nikhilkhandekar$ cd webscraper
wirelessprv-10-194-117-157:webscraper nikhilkhandekar$ python3.9 Driver.py -n 300
```

The following will get outputted inside the MongoDB database:



This class can also handle bad output as well such as strings instead of ints and ints that are greater than 500 or less than 1 will output an error:

Error for string being given as an input:

```
wirelessprv-10-194-117-157:webscraper nikhilkhandekar$ python3.9 Driver.py -n sdfkds
usage: Driver [-h] [-n NUMSONGS]
Driver: error: argument -n/--numSongs: invalid int value: 'sdfkds'
```

Error for value less than 0 being as an input for number of songs:

```
wirelessprv-10-194-117-157:webscraper nikhilkhandekar$ python3.9 Driver.py -n -1
Traceback (most recent call last):
   File "/Users/nikhilkhandekar/Week1/src/backend/webscraper/Driver.py", line 14, in <module>
    scraper = SongInfo(numSongs)
   File "/Users/nikhilkhandekar/Week1/src/backend/webscraper/SongInfo.py", line 24, in __init__
    raise ValueError("Please enter a number between 0 and 500")
ValueError: Please enter a number between 0 and 500
ValueError: Please enter a number between 0 and 500
```

Error for value greater than 500 being as an input for number of songs:

```
wirelessprv-10-194-117-157:webscraper nikhilkhandekar$ python3.9 Driver.py -n 600
Traceback (most recent call last):
   File "/Users/nikhilkhandekar/Week1/src/backend/webscraper/Driver.py", line 14, in <module>
        scraper = SongInfo(numSongs)
   File "/Users/nikhilkhandekar/Week1/src/backend/webscraper/SongInfo.py", line 24, in __init__
        raise ValueError("Please enter a number between 0 and 500")
ValueError: Please enter a number between 0 and 500
```