EE / CPR E/ SE 491 - Bi-Weekly Report #6

Dates: 10/27/2020 - 11/9/2020

Group Number: sddec20-13

Project Title: My (Musical) Life

Client & Advisor: Dr. Henry Duwe

Team Members:

Christian Hernandez - Project Manager

Chaz Clark - iOS Developer

Daksh Goel - Backend Developer

Vatsal Bhatt - Backend Developer

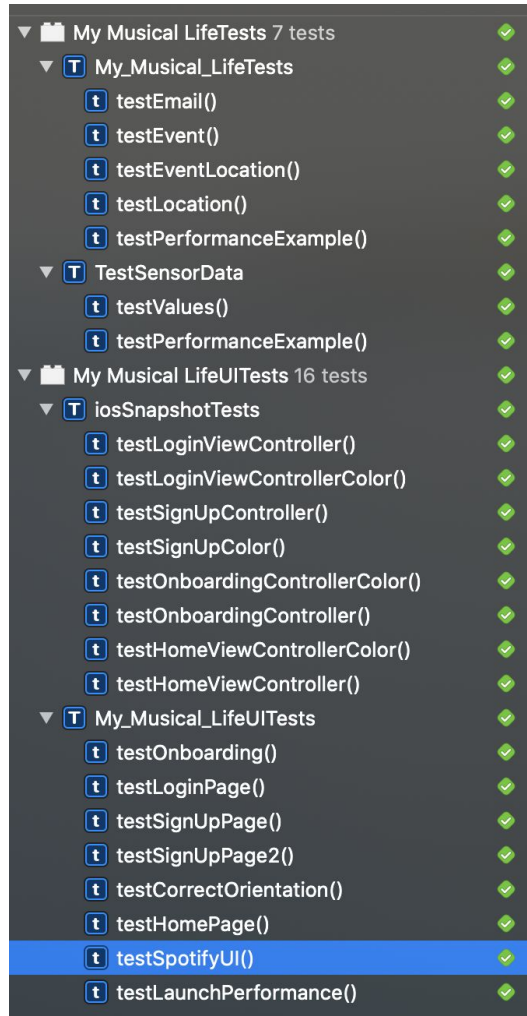Vignesh Krishnan - Frontend Developer

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Weekly Summary

As the team wraps up its final bi-weekly report, the team has had its ups and downs these past two weeks. The largest challenge has been integrating Spotify with the app. There has been significant progress within the past couple of days to get Spotify to work correctly. The issue with the app was Spotify's player was not working as expected.

Additionally, everything regarding the bin selection algorithm and the backend is coming along real nice. The front end is working smoothly and as expected. A user is able to sign up and login correctly. Additionally, a user is able to choose a genre upon signing up. The team feels as if the last two weeks were tough, but the team has made progress.

Past Week Accomplishments

- Christian

- Developed unit test cases for UserDB class and SensorData class

  - Tests passing and working.

  - Tests cases ensure the functionality of the functions are working as expected.

  - For example, are the getters and setters working correctly in UserDB.swift? Is the init function working as expected in SensorData.swift? These are some cases that were checked.

- UI Unit Test

  - Fixed issue with UI unit tests failing upon running the tests. After much time spent debugging the issue, the issue was with the podfile. One line was causing the issue with the UI unit tests to fail. For the 'My Musical LifeUITests' target, instead of the line *inherit!: search_paths*, the line had to be *inherit!: complete*.

- All 23 tests are passing (see next page)

- ○ Design Document

    - ■ Worked on modifying multiple sections of the design document.

    - ■ This is to make sure the design document is up to date.

    - ■ Additionally, the team's Gantt chart has been updated as well

- ○ Updated team website

- ● Chaz

  - ○ Resolved Spotify Player Issues

  - ○ Further developed AppDelagate and SceneDelagate to handle third party requests

    and messages

- ○ Help rebase repo with duplicate files to solve Spotify bugs

- ● Daksh

  - ○ Tested more spotify recommendation queries

  - ○ Continue to tweak bin selection algorithm

    - ■ Changing weights and tolerance values to refine the bin ranking

- ● Vignesh

  - ○ Added authentication for few more necessary backend functions and integrated on Swift side

  - ○ Began integrating the frontend and backend for insertSong backend call. Will be used when a user likes a song and it needs to be added to a specific bin.

- ● Vatsal

  - ○ Began implementing the 'like' and 'dislike' button for the songs on the Music player page

  - ○ Worked with Chaz to resolve Spotify Player issues and implemented a different approach

  - ○ Tested backend-frontend pipeline for the song ids coming from the recommendation algorithm.

Pending Issues

There are currently no pending issues.

Individual Contributions

NAME	INDIVIDUAL CONTRIBUTIONS	HOURS THIS WEEK	HOURS CUMULATIVE
Christian Hernandez	1. Unit Tests Development 2. UI Unit Tests bug fix 3. Design document changes 4. Updated website	7	14
Chaz Clark	1. Resolved issues and bugs related to spotify integration 2. Resolved code base duplication 3. Began integrating life cycle work for application	6	12
Daksh Goel	1. Testing for better recommendation queries 2. Refine bin ranking	6	12
Vatsal Bhatt	1. Helped fix the Spotify player issues 2. Began implementing Like and Dislike buttons.	6	12
Vignesh Krishnan	1. Added auth to more backend functions 2. Began implementing insertSong functionality	6	12

Comments and extended discussions (Optional)

N/A

Plans for the Upcoming Week

- Christian

    - Complete and finalize design document.

    - Ensure UI and unit tests are passing as more changes come in.

    - Complete other required materials for the course (final report and report).

    - Prepare presentation and demo for IRP

- Chaz

    - Complete life cycle work for application

    - Complete spotify integration within app

    - Prepare for presentation and demo

- Daksh

    - Finalize Bin selection algorithm

    - Prepare for presentation and demo and finish class assignments

- Vatsal

    - Complete spotify integration within app

    - Implement Like and Dislike button

- Vignesh

    - Finish implementing backend and frontend function for insertSong functionality

    - Integrate with Vatsal's work on like and dislike buttons

Summary of Weekly Advisor Meeting

The past two meetings with Dr. Duwe went well. In the first meeting, the team discussed its status updates and how the project is coming along. The main topic of the meeting was the bin selection algorithm and Spotify integration.

In the second meeting, the primary focus was the Spotify Player issues. The team proposed a "Plan B" for the case where the team is unable to get the Spotify Player to work correctly. This would involve the backend handling the Spotify Player. However, recently, the team was able to get a functioning Spotify Player.