

EE / CPR E/ SE 491 - Bi-Weekly Report #4

Dates: 9/29/2020 - 10/12/2020

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

Weekly Summary

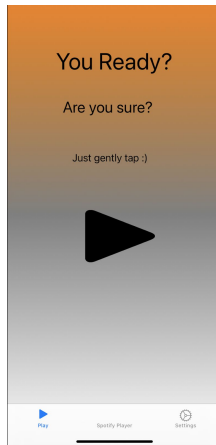
Over the past two weeks, the team continues to progress with the tasks. The team has run into some difficulties. This involves some difficulties with fixing the unit tests, the bin creation algorithm, setting up spotify, adding security to login, covering edge cases with sensor data inputs, etc. It has been a bit difficult with everything the team has been working on. As the team gets closer to the finish line, the team is trying its best to ensure that the app is fully functioning.

Overall, the main focus has been the bin creation algorithm. This is by far the largest technical challenge the team is facing. The team needs to ensure this algorithm is efficiently developed and accurately identifying the bins that need to be used based on sensor inputs

Past Week Accomplishments

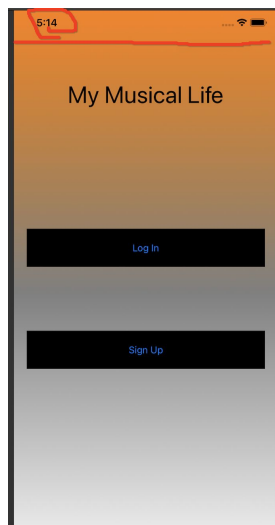
- Christian

- Fixed issue with `iosSnapshotTestCase` taking a picture of the entire screen and failing.



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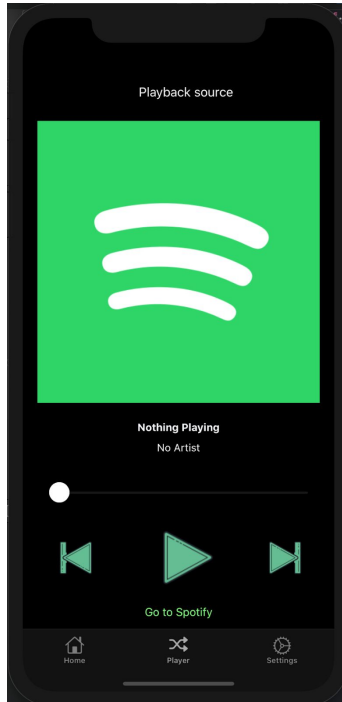
- Successfully able to take a screenshot of the “safe area” rather than the entire screen. If taking a picture of the entire screen, we would receive an issue with the time.
- Taking a screenshot of the controller was not working due to the unit tests not finding `main.storyboard`
- Removed the status bar from the screenshot. For example, the area above the red line is not in the screenshots anymore



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- Began looking at and trying to figure out how to implement the *Actual Time & Day* for the bin selection algorithm
- Chaz
 - Assisted in the development of our Bin selection algorithm
 - Continue to develop new bin selection workflow for ios
 - Fixed iOS bug dealing with API integration
- Daksh
 - Worked on ranking bins for Location
 - Ran into AWS API Gateway issues, and am currently working on debugging these issues
 - Updated database so that we can store CalendarLocation and CalendarName. These extra columns will help us with ranking bins based on Calendar data
- Vignesh
 - Worked on implementing authentication with access token on frontend
 - Created swift functions for getting accesstoken with http request and using that to make HTTP request to lambda REST API
 - Setup OAuth token provider to refresh access tokens periodically
 - Modified API Gateway to use JWT Authorizer with this web token
- Vatsal
 - Set up an online server to exchange Spotify's token and refresh tokens for continued authorization.
 - Improvised the Music player view in swift: getting music labels and titles from Spotify.

- Worked on implementing Spotify player controls in our app. Integrated Spotify's player controls to play, pause and change songs.



Pending Issues

There are currently no pending issues

Individual Contributions

NAME	INDIVIDUAL CONTRIBUTIONS	HOURS THIS WEEK	HOURS CUMULATIVE
Christian Hernandez	<ol style="list-style-type: none"> 1. Fixed issue with snapshot unit tests failing due to the status bar being included in the screenshot 2. Began to look at how to implement the <i>Actual Time & Day</i> for the bin 	6	13

	selection algorithm		
Chaz Clark	<ol style="list-style-type: none"> 1. Assisted in development on bin selection algorithm 2. Continue front end work on bin selection workflow 	6	12
Daksh Goel	<ol style="list-style-type: none"> 1. Working on ranking bins for location 2. Updated database to store extra Calendar data 	6	12
Vatsal Bhatt	<ol style="list-style-type: none"> 1. Set up an online server to exchange spotify's authorization tokens. 2. Improvised the music player and integrated controls. 	6	12
Vignesh Krishnan	<ol style="list-style-type: none"> 1. Implemented authentication to REST Api in front end classes 2. Tested authentication on InsertUser function 	6	12

Comments and extended discussions (Optional)

N/A

Plans for the Upcoming Week

- Christian
 - Finish the *Actual Time & Day* portion of the bin selection algorithm
 - Write more unit tests

- Continue to make changes to the design document
- Chaz
 - Help implement authentication on API calls on front end
 - Continue to build out Bin selection user flow
- Daksh
 - Debug API Gateway so we can make calls to get ranked bins
 - Test Location ranks
 - Begin ranking bins based on Calendar data
- Vatsal
 - Debug issues with Music player controls with spotify
 - Implement Disconnect button to unlink Spotify remote control
 - Help with developing the recommendation algorithm
- Vignesh
 - Switch over to working on decision making algorithm
 - Finishing adding authentication to other API calls

Summary of Weekly Advisor Meeting

The first meeting with Dr. Duwe went really well. The team gave its status updates for Dr. Duwe, and he was pleased with the progress so far. The main topic of the meeting with Dr. Duwe was the discussion of the bin selection algorithm. The team discussed the plan for constructing the algorithm. The team plans on weighting the bins in order to successfully identify which bin to use. Overall, Dr. Duwe approves. He believes the team has a reasonable approach, and he was asking the team questions in order to ensure that the team is on the right track.

The second meeting was quite short due to Dr. Duwe having to attend a second meeting.

This meeting only consisted of a status update for the project.