

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

Dates: 3/16/2020 - 4/12/2020

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

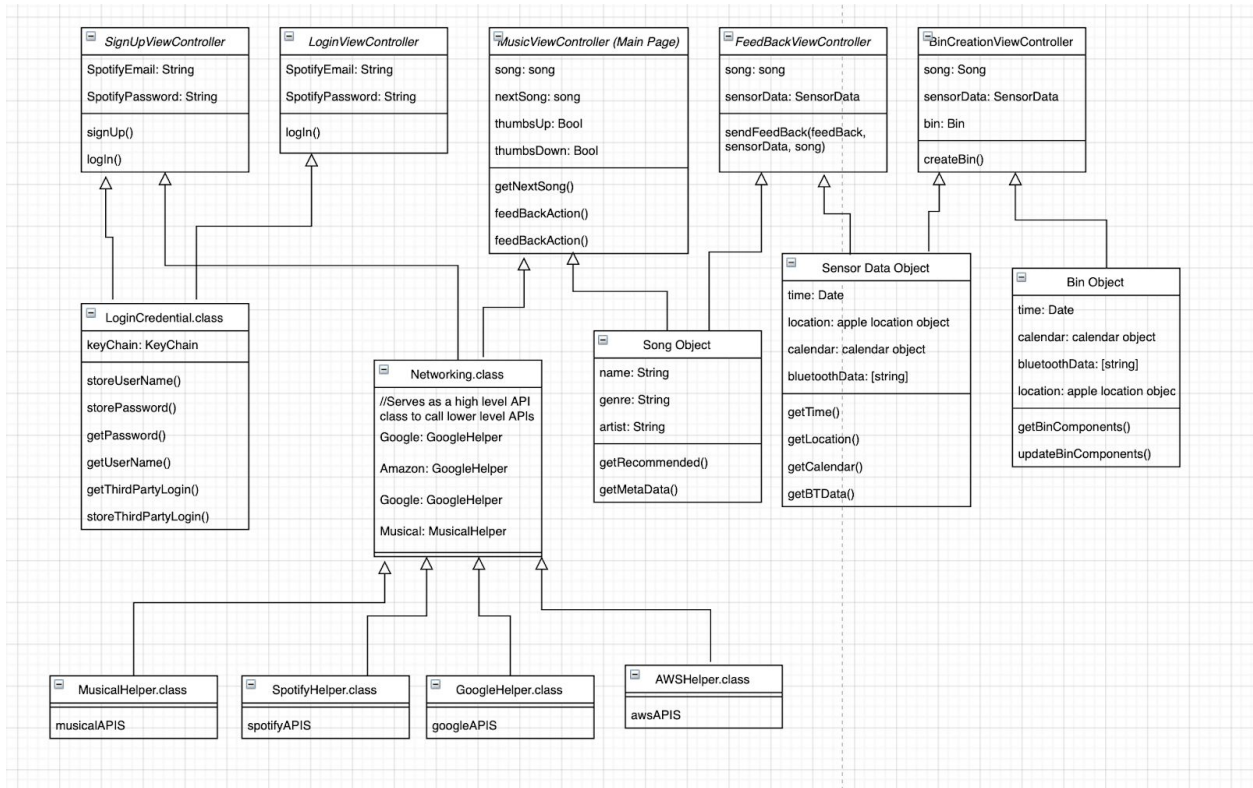
Weekly Summary

Over the past four weeks, the team, along with practically everyone in the world, began to face an obstacle. With the rapid spread of COVID-19, our team was forced to begin working and communicating remotely. That includes communication with the client as well. Thus, the first couple of weeks was beginning to analyze how the team would move forward with the team meetings and meetings with our client. The team began to communicate weekly via Zoom, and the team began communicating with our client via Zoom as well. As a team, we began the development of the prototype. This includes setting up AWS, the database, connections to APIs, etc. Overall, the design of the frontend and backend is almost complete. While the team puts some finishing touches on the design, the team is beginning to develop the app. Lastly, the team

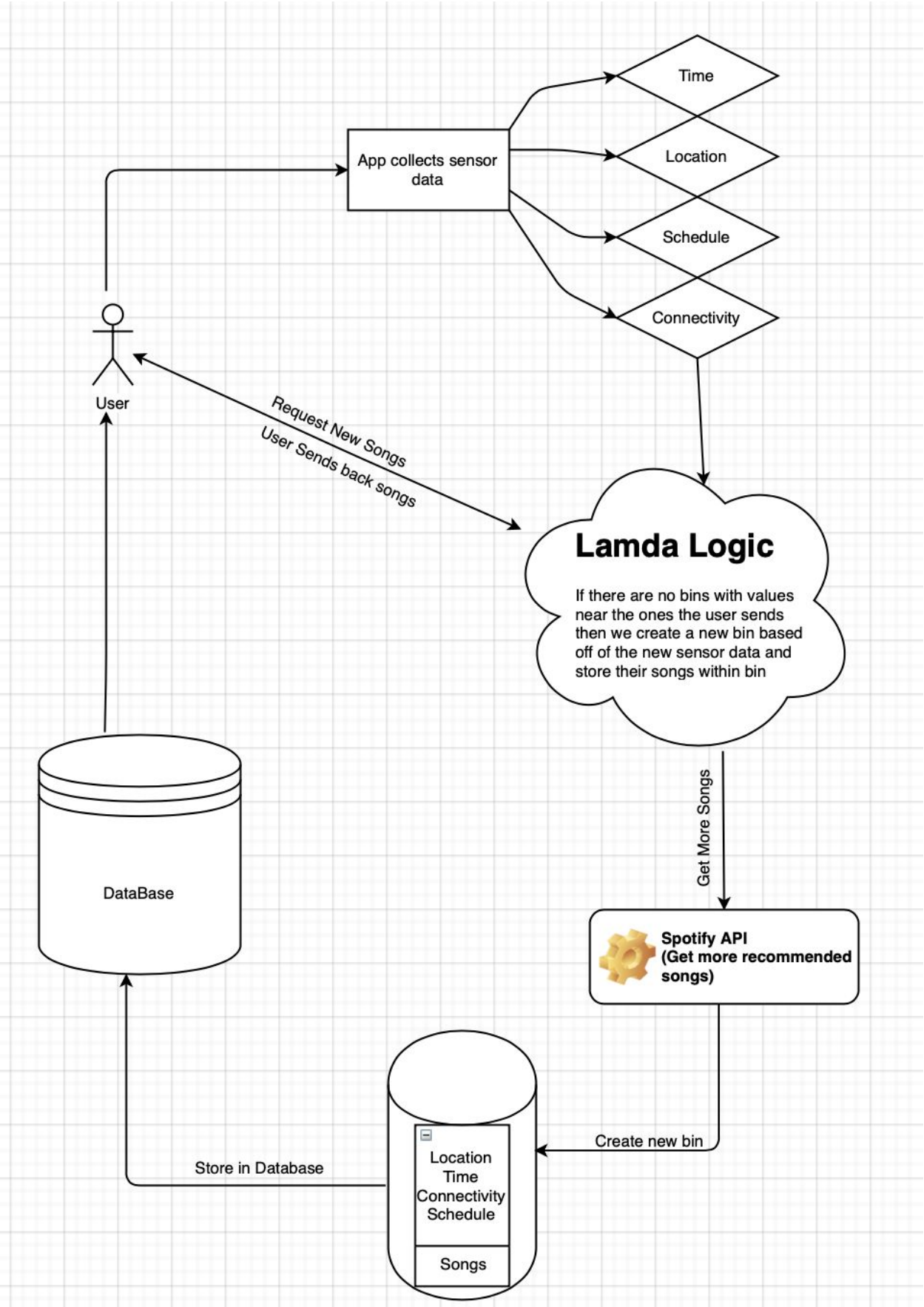
has continued research into any tools we may need. As we begin to develop the app, we are in the process of learning and getting used to the tools we need to use.

Past Week Accomplishments

- Christian
 - Continue to keep track issues in GitLab and create new ones as needed
 - Worked on the development of the sign-in page
 - Integrated Google Sign-In into the app
 - Learned a little more about development in XCode using Swift
 - Developing this page has taken me quite a while given my inexperience in SwiftUI and XCode.
 - Installed any dependencies needed to follow through with the sign-in page
 - I have been referencing the following site for the development of the sign-in page
 - <https://developers.google.com/identity/sign-in/ios/start-integrating>
- Chaz
 - Created Front-End Class Diagram

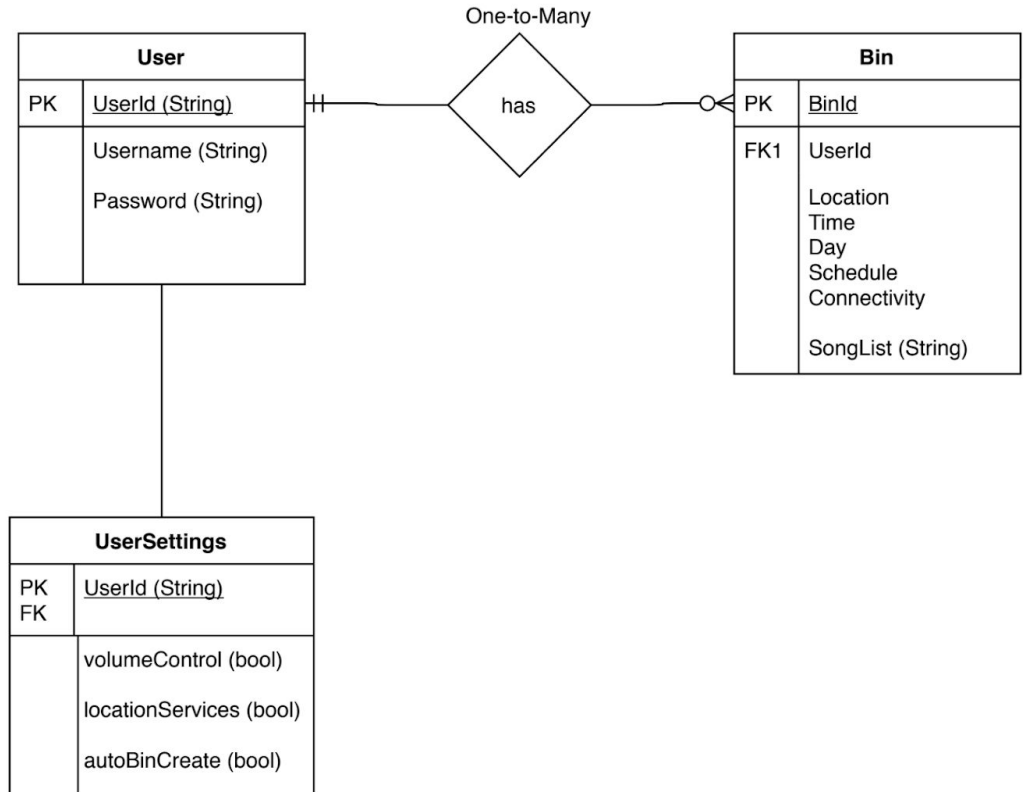


○ Created Bin Creation Diagram



- Daksh

- Created DB design diagram

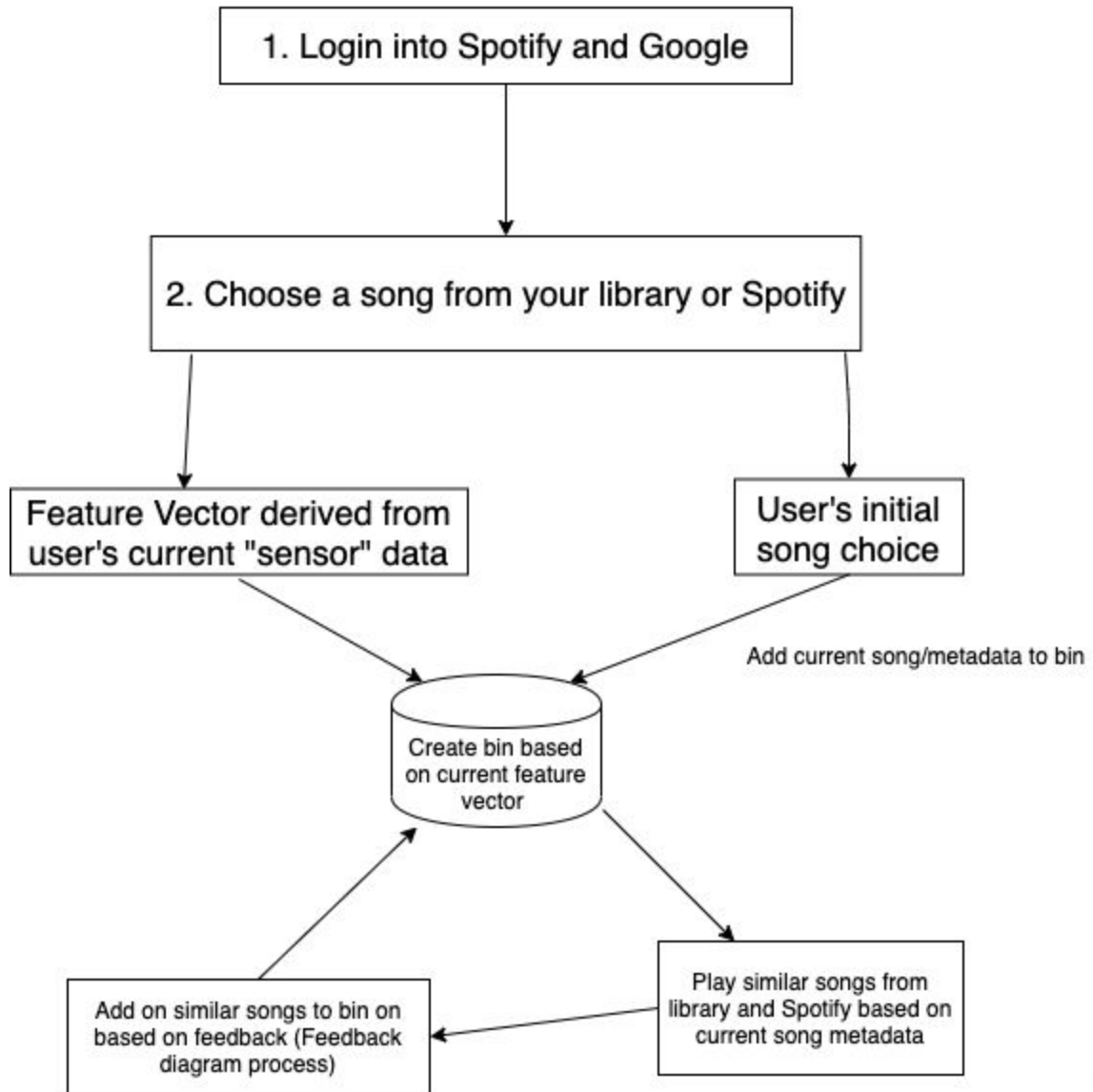


- Created MySQL DB on our AWS
- Learning how to use Lambda functions to push and pull data from MySQL database

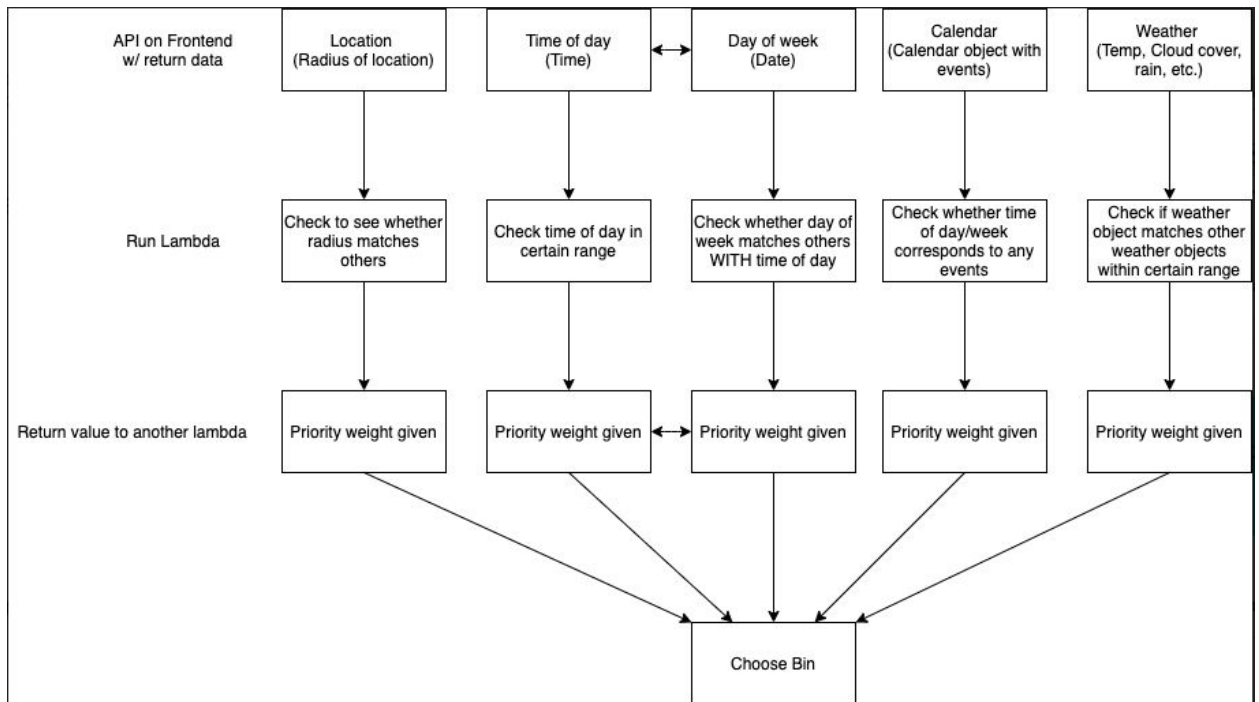
- Vignesh

- Created onboarding diagram

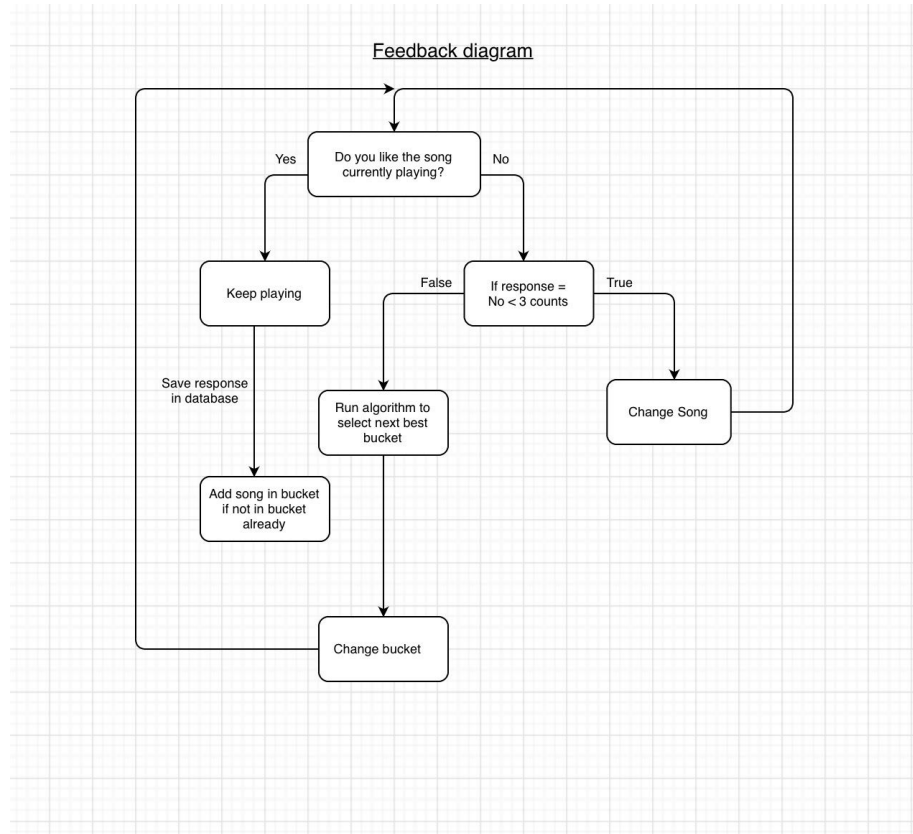
Onboarding Page



- Created feature vector workflow



- Worked on Lambda integration for feature vector
- Vatsal
 - Created a User Feedback diagram to determine next steps based on user input



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- Worked on integrating Swift with Spotify API and tested implementation on iOS emulator.
- Researched into Spotify API and created a table of useful metadata values to be used in the Recommendation algorithm
 - <https://docs.google.com/document/d/1zDccG3P9nbu5oC1LCA0fumbcafS-GAXRBRqbIQwR9AA/edit>
- Setup Xcode and cloned our Git repo to begin development work.

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. Development of Google Sign-In Page 2. Tutorials on learning Swift 3. More research into APIs needed for app 4. Sending emails to the team's client 	6	25
Chaz Clark	<ol style="list-style-type: none"> 1. Created Front-End Class Diagram 2. Created Bin Creation Diagram 3. Researched into Swift capabilities and limitations 4. Initialized Swift Repository 	6	24
Daksh Goel	<ol style="list-style-type: none"> 1. Created MySQL database 2. Set up tables following RDBMS 3. Follow tutorials to use AWS Lambda with MySQL 	6	24
Vatsal Bhatt	<ol style="list-style-type: none"> 1. Created User feedback diagram 2. Worked on integrating Swift with Spotify API 3. Researched on music metadata available from Spotify's API to be used for 	6	24

	<p>recommendation algorithm</p> <p>4. Cloned Git repo to begin development work.</p>		
Vignesh Krishnan	<p>1. Created onboarding diagram</p> <p>2. Created feature vector workflow</p> <p>3. Worked on AWS setup and lambda integration</p>	6	24

Comments and extended discussions (Optional)

Plans for the Upcoming Week

- Christian
 - Update GitLab update to reflect the current status
 - Finish the Google Sign-In page for the app
 - Assist with additional development in the front-end
 - Help with connecting to other APIs
 - Become more familiar with development in XCode using SwiftUI
- Chaz
 - Prepare for Design Review
 - Update the Class Diagram and begin collaborating with Back-End on Classes and objects

- Assist in developing Bin Foundation and mapping
- Set up initial Xcode files and settings
- Daksh
 - Start developing basic Lambda functions
 - Prepare for Design Review
 - Update DB diagram to add the tables that are implemented in our AWS db
 - Assist in feature vector design and usage
- Vatsal
 - Start developing initial Spotify login functionality for the app
 - Prepare for Design Review
 - Update the User Feedback diagram to reflect bin selection changes
 - Start initial work on the final presentation of our project
 - Assist with database creation and setup.
- Vignesh
 - Begin prototyping feature vector algorithms with priority weighting scheme
 - Prepare for design doc review
 - Begin AWS lambda integration with Xcode

Summary of Weekly Advisor Meeting

During the past four weeks, we met with Dr. Duwe twice. We began to have our meetings using the Zoom app. So far, everything has been working out great. Our first meeting pretty much consisted of how everyone is doing with all the changes. Additionally, we discussed with Dr. Duwe about what needs to be completed by the end of the semester. Lastly, we talked

about the potential effects COVID-19 has on our project. So far, the impact is pretty minimal given the team is building software app.

The second meeting consisted of each team member discussing our individual tasks. Christian discussed the table with the information relating to all the APIs the team plans on using. Chaz discussed the bin creation diagram. Daksh discussed the database diagram he created. Vignesh discussed the onboarding diagram. Lastly, Vatsal discussed the user feedback diagram.