My Musical Life

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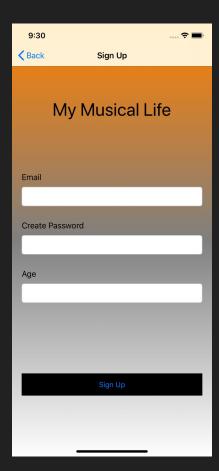
Adviser: Dr. Duwe

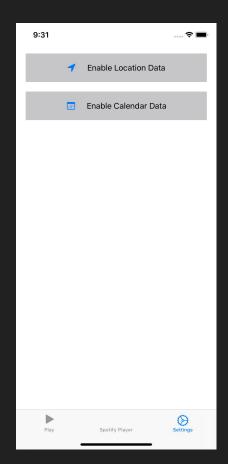
Team Number: sddec20-13

Team Email: sddec20-13@iastate.edu

Front End

- Login
- Sign Up
- Sensor Data Permissions

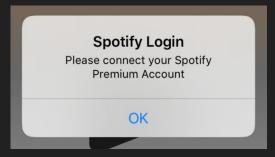




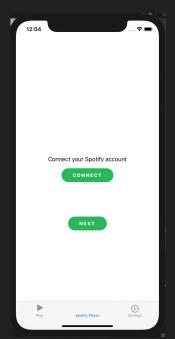
Front End

- Swift Spotify SDK integration
 - Spotify login screen
 - Hiding and storing credentials
 - Integrated Spotify Player

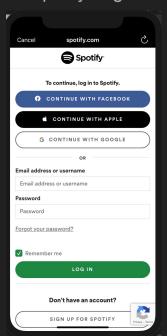
Prompt upon successful signup



Connect Screen



Spotify Login

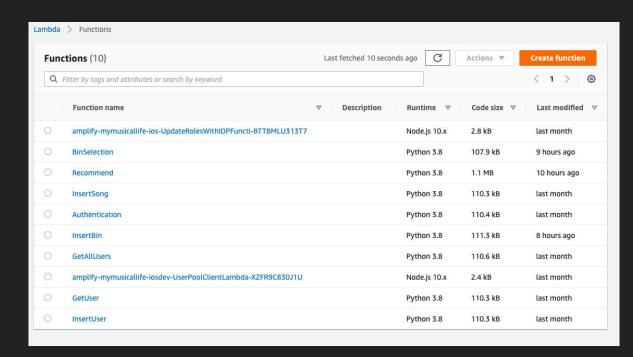


Music Player



Back End

- AWS Lambda
 - User-Login
 - Inserting Songs, Bins
 - Song Recommendations
 - Bin Selection Algorithm



Back End

- AWS Lambda REST API
- AWS API Gateway
- REST API Authentication
 - JWT Authorizer
 - Auth0 Provider
 - Access Token





Testing

- Unit testing to test functionality of app
 - UI tests have been developed
- iOSSnapshotTestCase
 - Screenshots taken of UI

Testing con.

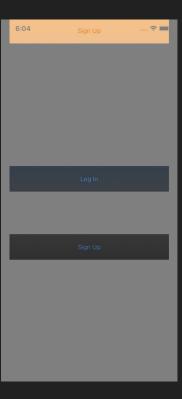
Reference



Failed



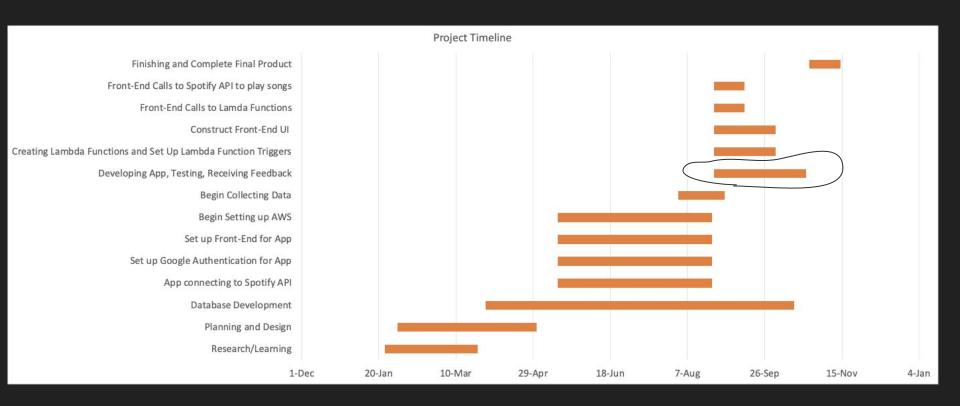
Diff



Technical Challenge

• Bin Selection Algorithm

Schedule



Future Work

- Finish implementation of bin selection algorithm
- Run it against test data
- Run it against real world data
- Continuously adjust tolerances and weights for improvement

THANK YOU!!