EE / CPRE / SE 491
Sheet Vision
Iteration 13 Report

10/11/2019 - 10/25/2019
Student suggested Project
Faculty advisor: Alexander Stoytchev

Team Members:

Bryan Fung — Frontend, Software Engineering
Garrett Greenfield — Front end, Software Engineering
Ricardo Faure — Frontend/Backend, Software Engineering
Trevin Nance — Machine vision, Software Engineering
Walter Svenddal — Machine vision, Software Engineering

Past Week Accomplishments:

- Get piano implementations with sounds using Expo.
- Mobile app properly communicates with AWS server.
- AWS Lambda server migration mostly successful.

Pending issues:

- Add a timing for when playing the piano.
- Issues with AWS lambda where images are too large to be received from POST.

Individual Contributions

Team Member	Individual Contributions	Hours this week	Total Hours
Bryan Fung	Researched about using expo or react-native, made piano implementations with sound into the expo project	16	71
Garrett Greenfield	Keep implementing the microphone accessibility on react native	6	54
Ricardo Faure	Research on Android Development Tools More architecture work on the mobile and server side.	3	64
Trevin Nance	Worked on dotted note support	2	66
Walter Svenddal **TODO**	Identified tones using FFT on music samples	4	64

Plans for Coming Week:

- Bryan Fung:
  - Add timing for playing keys.
  - Play back from a MIDI File.
- Ricardo Faure:
  - Fix AWS lambda image POST requests.
  - Finalize AWS Lambda and React-Native communication for sending a receiving MIDI files.
- Garrett Greenfield:
  - Try and get the mic usable for the application for further implementation with audio detection.
- Trevin Nance:
  - Get dotted note support working reliably, work on key signature detection.
- Walter Svenddal **TODO**
  - LINE ALGORITHM
  - Identify notes and compare against MIDI file