

EE / CPRE / SE 491

Sheet Vision

Iteration 6 Report

3/15/19 - 4/05/19

Student suggested Project

Faculty advisor: Alexander Stoytchev

Team Members:

Bryan Fung — Frontend/Backend, Meeting Facilitator
Garrett Greenfield — Front end, Team Scribe
Ricardo Faure — Frontend/Backend, Meeting Facilitator
Trevin Nance — Machine vision, Chief Engineer Power System
Walter Svenddal — Machine vision, Report Manager

Past Week Accomplishments:

- Created a Multi Platform version of the application (Ricky)
 - Confirmed the structure of our mobile application
 - Mobile application that receives JSON data
- Confirmed communication between AWS and Desktop Application.
- Designed architecture for computer vision functionality (Trevin)
 - Created a UML diagram.
 - Created a point and notefinder class, created enums.
- Began working on detecting eighth note (Trevin)
 - Started working on the OpenCV function which will detect eighth notes.
- Resource collection and Opencv (Walter)
 - Finished work on phase 3 of the OpenCV processing (polishing incoming sheet music images)
- Created a simple piano application(Bryan, Garrett)
 - Created an animation for a piano
 - Implemented so that it can play notes given to it through a JSON file

Pending issues:

- Nothing on Front-end side for now.

Individual Contributions

<u>Team Member</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>Total Hours</u>
Bryan Fung	Implemented a piano using react	6	31
Garrett Greenfield	Created JavaScript Piano Animation	5	25
Ricardo Faure	Created a Multitplatform version of the application	5	35
Trevin Nance	Continued work on detecting eight and quarter notes	5	25
Walter Svenddal	Worked on document screening algorithm	5	23

Plans for Coming Week:

- Whole Team:
 - Research and confirm how the audio processing will work.
 - Add mobile application to our ecosystem.
 - Add the ability to play sounds on desktop application.
- Bryan Fung:
 - Implement better animations and functions that will work better with our project.
- Ricardo Faure:
 - Work with the animation team to create a multiplatform application that can take in the JSON data and play music.
- Garrett Greenfield:
 - Improve and clean the Animation
- Trevin Nance:
 - Finish creating the method of NoteFinder which will find the moment of the head of eighth notes.
- Walter Svenddal:
 - Format incoming sheet music to reduce camera artifacts and orient correctly