Plumid

A midi software interface for NEURAL DSP's ARCHETYPE PLINI

Developed by Nathan Jose

Week #1 Report

August 26, 2019

Application Development

- Completed project proposal document that outlines the purpose, goals, context, resources, challenges and further details about this project.
    - Check proposal document for more specific information.
    - Researched python libraries for GUI automation required by the software and MIDI interfacing capabilities.
    - Looked at various MIDI based python projects for interfacing with Behringer FCB1010 (MIDI pedal to be used in this project) on GitHub.

Executive Section

To: Prof. Patrick Shepherd
From: Nathan S. Jose
Subject: Plumid - Week #1 Report
Date: August 26th, 2019

This week was the official inception of Plumid as the idea for a software solution catering to guitarists who want studio sounds accessible in a live setting. This version of the software will be designed to specifically work with Neural DSP's Archetype Plini software and the Behringer FCB1010 MIDI controller pedal. Below are specific details pertaining to the execution of this project.

- Accomplishments:
    - Completed and submitted project proposal.
    - Found python code for GUI automation that could possibly be integrated into this project.
- Challenges:
    - Discovered that the GUI automation for this software might be ruined if PC is plugged into external display and changes resolution. This will result in the specific GUI automation co-ordinates being rendered useless due to the new resolution of the monitor when plugged into an external display. Even moving the Archetype software window around within the desktop could render the software dysfunctional.
    - Will have to research more options for controlling screen resolution changes when plugged into external displays.
    - Controlling certain parameters such as delay time might be a challenge since it requires clicking and dragging virtual rotary knobs to specify a set tempo for the delay fx.
- Time spent:
    - This week was dedicated to realizing the purpose and parameters of the software, the audience it will cater to and creating the proposal for this project.
    - Time in class was spent searching and learning more about the python code that will help interact with MIDI devices and receive messages from them and parse them.
- Goals:

- The following week will be spent finding and testing code that will receive MIDI messages from the Behringer FCB1010 MIDI controller pedal.