**Product Backlog**

Version 2.0

3/7/2019

Current Features

*Resources/Tools*

* Implement options to allow users to choose between all minor, major, chromatic, and pentatonic scales

*Menu Management/GUI*

* Develop main menu UI to tab between the 3 different sections of our application (currently: Tuning/Practice/Videos)
* Implement list of buttons in Tuning tab to allow user to select the note they wish to test (for both input/output)
* Create the interface button that will start playing whatever note the user has selected
* Create the interface button that is used for user to record themself playing the note they are testing

Features to be Implemented

*Resources/Tools*

* Develop a sliding scale of varying tempos to allow for metronome customization
* Create a visual display for metronome
* Create the audio function for the metronome that plays the imported tone at the user’s selected tempo
* Implement the visual aid for playing scales
* Develop the audio aid function for playing scales
* Implement the performance analyzer to determine correct finger position for users
* Implement the tuning listening function (compares note user plays to note they are trying to play)
* Implement tuning playing function (plays selected note)

*Menu Management/GUI*

* Develop return buttons in each tab that the user can click to return to the main menu
* Tuning: Implement individual “options” buttons within each feature tab to modify their related settings
* Practice: Implement individual “options” buttons within each feature tab to modify their related settings
* Videos: Implement individual “options” buttons within each feature tab to modify their related settings
* Main Menu: Implement the “create user” and “user login” buttons that will be located on the main page
* Create the corresponding interface for user to input new user information
* Create the corresponding interface for existing users to input his/her credentials

*Miscellaneous*

* Incorporate tuning backend code with GUI code
* Incorporate videos backend code with GUI code
* Incorporate practice backend code with GUI code
* Incorporate main menu code with backend code
* Create method for verifying that new user credentials are acceptable characters (ie: check password strength and that usernames do not contain symbols,also limit length of both)
* Link user login interface with the database/list of all current users and develop the authentication method that checks their credentials with said list
* Link user creation interface with database/list and develop method for adding this new user to said list