Criterion A - Planning

Word Count: 486

Problem statement:

- Mr.Suttiphan, waste time every day in dealing with the music analysis, as a music producer and teacher.

Word Count: 18

Description of Scenario:

- As a music producer and teacher, Mr. Sutthiphan has used music programs online like chordTabs. However, these current programs are unsatisfactory, as he states in interview #1, that he feels like "there aren't enough functionalities in these apps, like changing the key of the music"[1]. This makes him have to analyze pieces by hand and manually transpose the chords. The problem with music analysis is that it is doable but is a very repetitive task, and as he states "tedious and impractical work" in the same interview[2]. After the discussion with Mr.Sutthiphan, I have decided to create a music analysis program with functionalities to help assist him with his daily work.

Word Count: 114

Rationale for the Proposed Subject:

- The solution for this task is to make a music analysis program that will help Mr.Suttiphan do his work, without wasting time. This computer program will be coded using Java Netbeans, to help the client do their daily tasks with more ease. I have chosen to use the programming language Java, as I have most comfort using this language, with the object-oriented approach. Java itself also gives coders access to its libraries which would provide other functionalities for the program. Java can work on many platforms and would help the client use it on different devices as well. GUI is also appropriate as the user will be able to easily interact with the program

Word Count: 115

[1] Art Sutthiphan, interview by author, Bangkok, November 5, 2019, audio recording 5:25, Appendix 2
[2] Art Sutthiphan, interview by author, Bangkok, November 5, 2019, audio recording 7:20, Appendix 2

Prototype:

After having my second interview with my client, several aspects of the program could be improved. My client requested several more functions which could be added to the program. He wanted the parameters of “album” and “genre” to be added to help him search and sort for songs. Additionally he requested to include buttons to increase and decrease the key on the transpose page, for ease of use. He also requested for the program to be compatible with different platforms, like his IPad, as the program would be usable for him during live performances. Being online was also one of the requests, as many different people can input songs they’ve analyzed on the program. This gives all the clients an abundance of songs to use in the database, increasing satisfaction when using the program.

Word Count: 134

Success Criteria:

What the program will do

- The program will help analyze any music piece, by putting in chords of a song.
- It can turn the song help transpose the key of the song
- It can turn the song into chord progressions for analysis
- Users can then store the analyzed pieces, saving it for future use.

User-friendly features

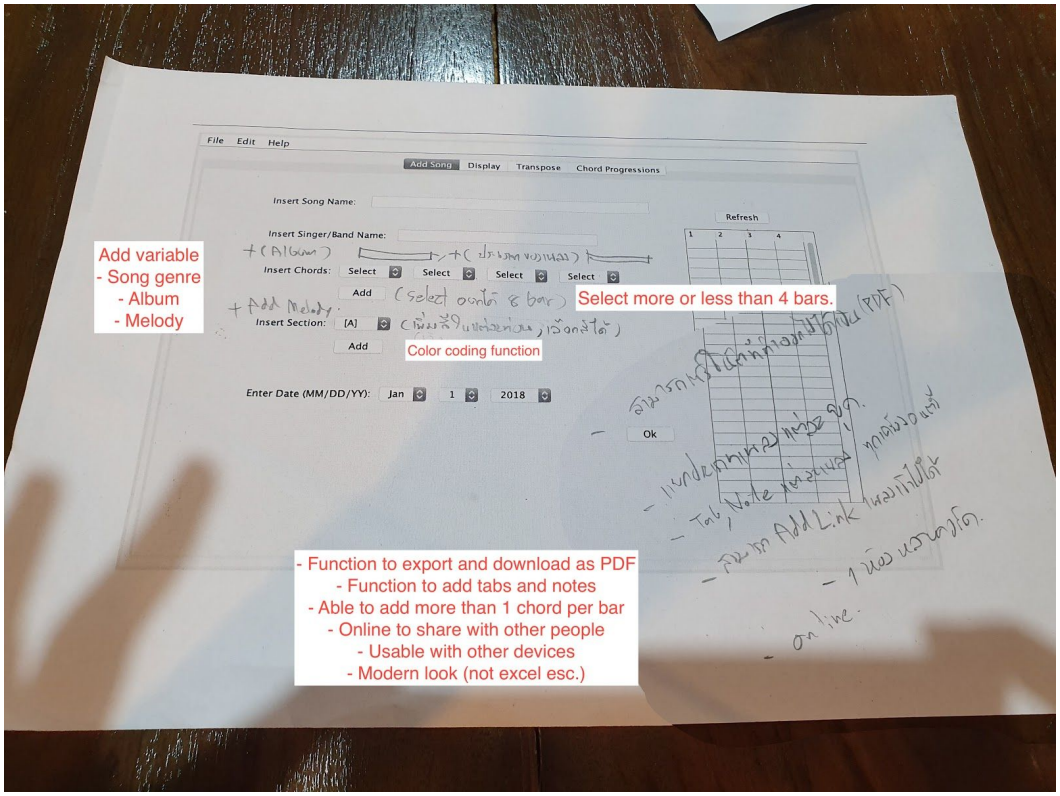
- The program will have a help window which may provide instructions for the users
- Simple buttons and other GUI features will allow for easy use
- Save button to store songs for the clients

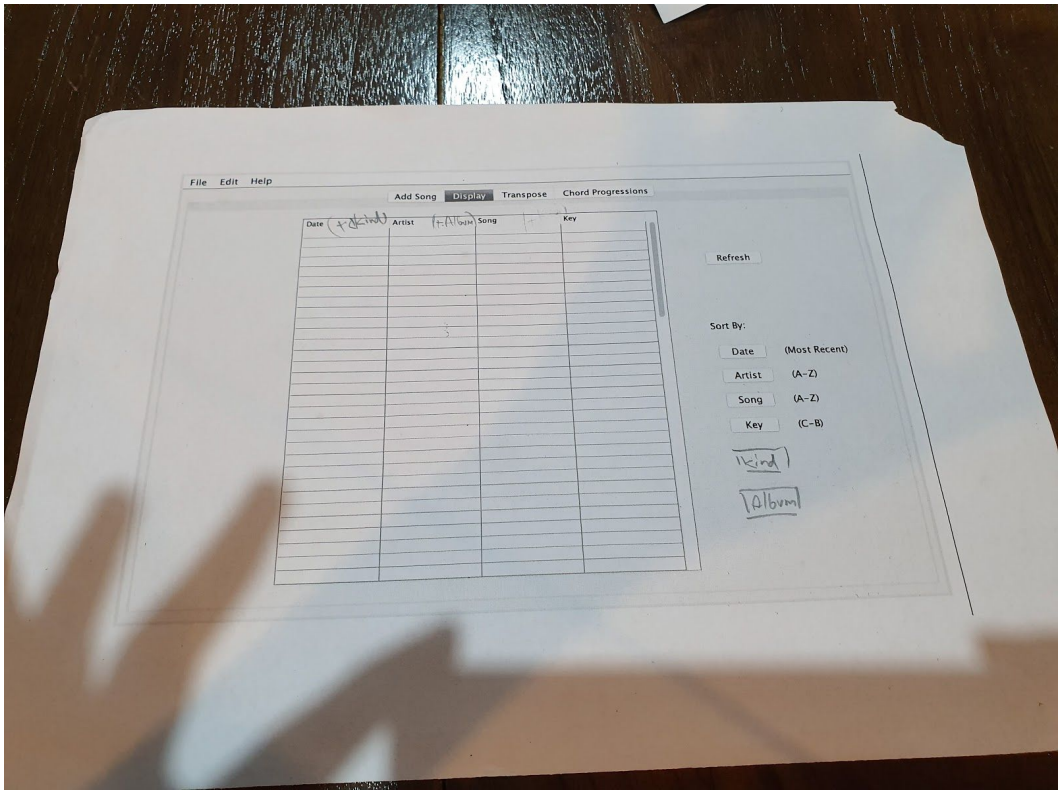
Error/exception handling

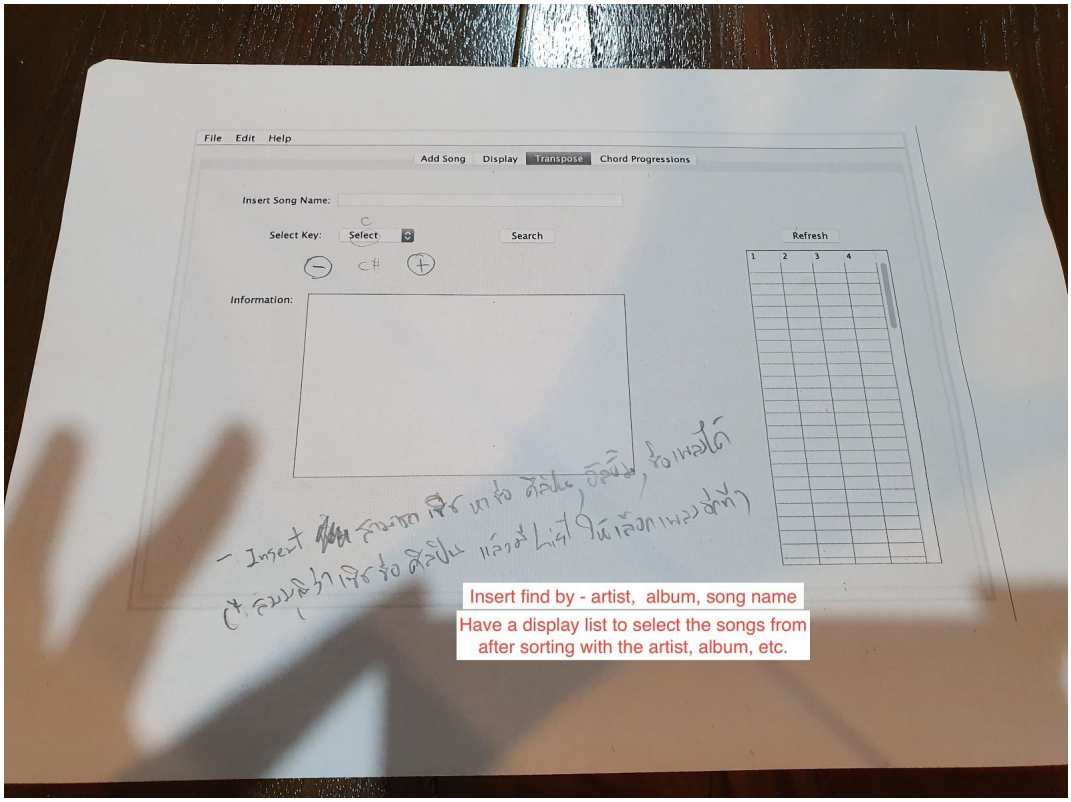
- Leaving the text field empty, so it can respond with an error message

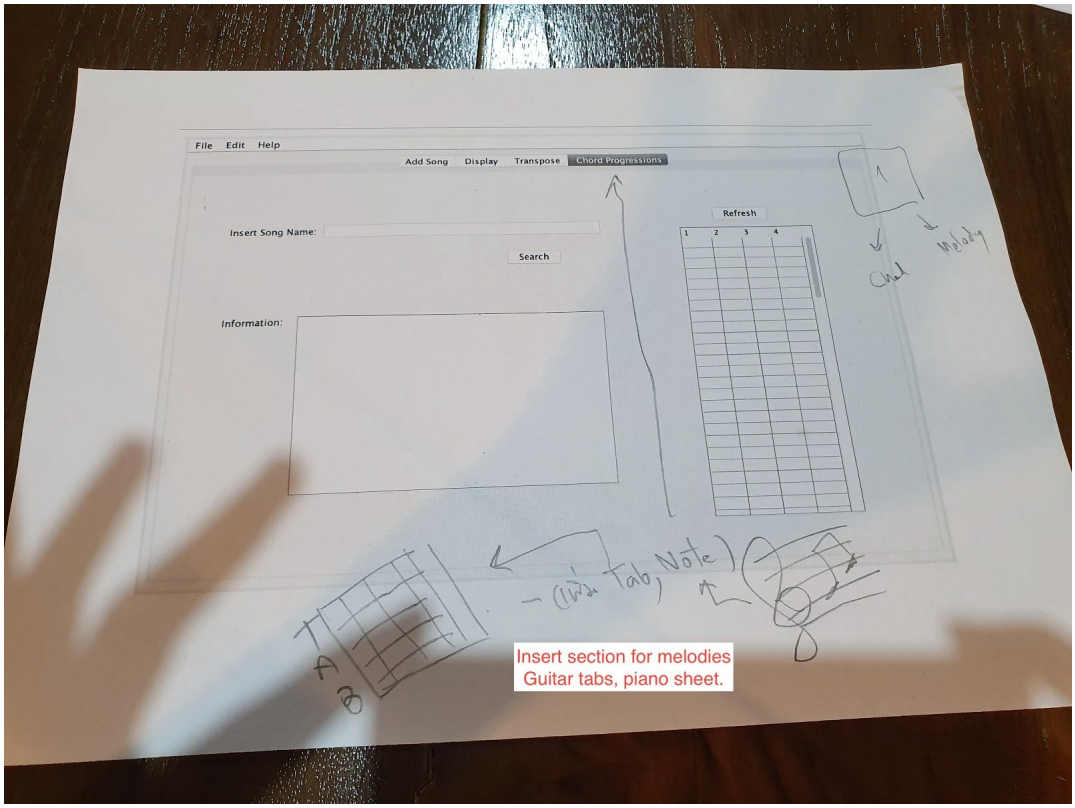
Word Count: 105

Appendix 3


File Edit Help
Add Song
Display
Transpose
Chord Progressions
Insert Song Name:
Insert Singer/Band Name:
Insert Chords:
Select
Add
Insert Section:
[A]
Add
Enter Date (MM/DD/YY):
Jan
1
2018
Ok
Refresh
Add variable
- Song genre
- Album
- Melody
Color coding function
Select more or less than 4 bars.
- Function to export and download as PDF
- Function to add tabs and notes
- Able to add more than 1 chord per bar
- Online to share with other people
- Usable with other devices
- Modern look (not excel esc.)


File Edit Help
Add Song
Display
Transpose
Chord Progressions
Date
Artist
Song
Key
Refresh
Sort By:
Date
(Most Recent)
Artist
(A-Z)
Song
(A-Z)
Key
(C-B)


File Edit Help
Add Song
Display
Transpose
Chord Progressions
Insert Song Name:
Select Key:
Select
Search
Refresh
Information:
Insert find by - artist, album, song name
Have a display list to select the songs from after sorting with the artist, album, etc.


File Edit Help
Add Song
Display
Transpose
Chord Progressions
Insert Song Name:
Search
Refresh
Information:
Insert section for melodies
Guitar tabs, piano sheet.

grade