

## Criterion E - Evaluation

### Criteria for Success

Legend: ✓ - Fully working, ○ - Partially working, ✗ - Not working

Criterion	Status	Notes
Can add songs with different attributes that the client wants.	✓	Works as intended
Can add the chords that the songs use, with minors and different variance.	✓	Works as intended
Can add sections into the chord chart to make different sections of the song more easily viewable	✓	Works as intended
Can store songs- attributes are viewable in the display table	✓	Works as intended
Sorting for all the attributes works as intended	○	Works for all attributes except Date and Key
Transposing the song to chord progression	✓	Given that the song is in key. If the song has out of key chords this would not work.
Transposing the song to other keys	✓	Given that the song is in key. If the song has out of key chords this would not work.
Information text area displays original key and other attributes which have been added to the song	✓	Works as intended
Increase and decrease Key button functions	✗	This function was not added due to the complexity of code
Song print or save as PDF function	✗	This function was not added due to the complexity of code
Usable online/Shareable with other users as well	✗	This function could not be added due to constraints from the coding program
Adapting a more fashionable GUI	✗	This function could not be added due to constraints from the coding program

## Feedback from Client

The client viewed the product through a video recording. The program was able to create songs by adding different attributes, such as song or artist name and could input the chords which the song used, they could be then searched and changed into chord progressions or into another key. Most features that the client requested during the prototype interview were unable to be added, due to time or programming constraints. This was informed to the client prior to this interview.

During the run through the client noticed a minor issue with the program. When chords were added to the program a “-” was displayed on each chord at the end. The client noted that in music a “-” is equivalent to a minor, which may cause misunderstanding for users.

The client also pointed out an issue with the program when transposing out of key chords within a song<sup>1</sup>. With the program’s error handling feature, an “N/A” appeared when transposing out of key chords, as the program was not able to recognize it’s progression.

Overall the client was satisfied with the program and its features which could help him with his job<sup>2</sup>. Specifically, he pointed out the core function of the program (save songs and transpose) to be very accurate and consistent, which would be helpful for him to use in his daily tasks.

## Recommendations for Improvement

### Minor Improvements:

- Fixing the “-” which is displayed behind chords when adding songs
- Fixing transposing bug with inserting sections
- Fixing transposing bug with variances
- Fixing the increase and decrease key button
- Creating a function to print or save a song as PDF after transposing to another key

Most of these are minor fixes which could be done to help enhance the experience for users to use. The problem with these improvements is that they may take some time to code, while not being a core part of the program. Hence, they were left out for this version of the program. As most of these fixes are not complex, they are a realistic improvement for future versions of the program.

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<sup>1</sup> Art Sutthiphan, interview by author, Bangkok, May 5, 2019, audio recording 0:40, Appendix 4

<sup>2</sup> Art Sutthiphan, interview by author, Bangkok, May 5, 2019, audio recording 0:10, Appendix 4

### Major Improvements:

- Making the transposing work with out of key chords
  - Developing a better way to analyze the key of a song and analyzing chord progressions (in a way that would also take in out of key chords)
- Creating the feature to have more than one chord in a single bar

These improvements were left out due to requiring more complexity, specifically in the core analyzing key and transposing functions of the code. However, due to the client's work, it would be essential to have in the program to really enhance their experience with the program. As multiple songs do require these functions, it would be worth investing time to develop them, making it also a realistic improvement as well.

Word Count: 456

**Final Word Count: 1948**