

# Songs of Studying



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## Overview

### ➤ Objective

- To create an application that transforms written text documents into song format matched with songs / catchy jingles to assist auditory studying purposes.

### ➤ Required Applications

- Microsoft Visual Studios
  - C#
  - Where the application will be built
- Garage Band / Pro Tools
  - Song Creating Software of the sorts
  - Where the music will be created to be imported into the application for use

### ➤ Real World Use / Justification

- Listening to songs on repeat get lyrics stuck in people's head. Why not do the same with students' notes?
- People of all ages still remember the ABC's, Happy Birthday, etc.
- Application creates a new means for people to study for projects

### ➤ Project Scope

- The Condition of Satisfied Completion
  - Reads text documents/files (for example wiki pages)
  - Removes unnecessary words from the text
  - Matches words / important phrases with correct notes of selected song
  - Plays back a song that can get stuck in someone's head
  - Ability to save and deleted created songs
  - Minimum of two songs to match text too
- Total team members: 2
  - Members
    - Tona Henderson
      - The evaluator and analyst of the application
      - Offers insight, new ideas, and guidance when needed throughout the project
    - Jacob Marcovecchio
      - Transforms the ideas into action
      - Responsible for creating the songs and functional application

### ➤ Overall Project Description

The core concept of this project is to create an application that takes text from documents and transforms into a catchy song format that is meant to assist in auditory studying. This application consists of three major parts: the creation of the songs, the creation of the application, and the polishing of the application. The application is to be created with the freedom of being transformed from a C# Application into a proper app that can be download and tested on phones, as this would be the way the application is meant to be used.

The application is being completed using C#, as there is comfort and background using this language.

The application must be able to save songs and delete songs, deem words and phrases as important or non-important, and match words to the proper notes based on length of the notes. It is likely that the application will involve seeking open-source code to aid playing back a song. (Text to speech). There may also be a need to determine total number of syllabus per words to help match words with notes.

The songs will be constructed in proper software that allows musical construction. The preferred programs would be either Pro Tools (which is industry standard and slight background in using) or Garage Band (which may not be industry standard but is a heavier background in). Information stating the length of the different types of notes used in making pieces must be made available. The instruments chosen in the music is also meant to complement and text-to-speech program, rather than overpower or distract the listener from it.

### ➤ Required Song Specifics

- Minimum of Two Songs / Jingles
- Length (in seconds) of the types of notes used in the songs are needed
- Songs / Jingles should be unique and original
- Instruments should not overtake any text-to-speech voice
- Access to Pro Tools or Garage Band is likely needed

### ➤ Required Application Specifics

- Ability to save & delete
- Distinguish important text from unnecessary text
- Convert text to audible-speech
- Ability to match available songs to text
- Must be coded with the intent to be improved in the future
- Must be well commented

### ➤ Timeline

- Before October 31<sup>st</sup>, it's expected to have a functional application that has the barebones requirements of this project.
- By the mid November, it is expected to polish this application as needed for it work smoothly.
- Every Wednesday, there will be a brief meeting discussing what was recently completed for the project and the next step being tackled, unless either party is notified otherwise.
- Any documents meant to be referenced on these Wednesdays should be sent ***before 11:59PM on Fridays***. This provides both parties time to review any content and come prepared with questions, thoughts, concerns, etc.

### ➤ By Sept 21st | Milestone 0 | Preparation

- Goals
  - Develop Attack Strategy to Complete Application
  - Discuss hours per week, money, clarify goals, etc.
  - Complete "Logistics talks"

### ➤ By Oct 6<sup>th</sup> | Milestone I | Songs

- Goals
  - Songs 1 & 2 Completed
  - Obtain necessary information from notes within the song
  - Begun searching for open source text-to-speech
  - Begun building the application

### ➤ By October 31<sup>st</sup> | Milestone II | Application

- Goals
  - Functional Application
  - Barebones Completed
  - May not be the smoothest, but functional

### ➤ By Mid-November | Milestone III | Application

- Goals
  - Polished Application
  - Easy GUI to use
  - Smooth functions

### ➤ Means of Communication

- Personal email: [jxm5725@rit.edu](mailto:jxm5725@rit.edu) or [Jmarco@mail.rit.edu](mailto:Jmarco@mail.rit.edu)
- Available before 6:00 PM on Tuesday / Thursday
- Available between 12:00 PM and 1:00 PM or between 2:00 PM and 3:00 PM on M/W/F

### ➤ Personal Thoughts / Goals

- On-top of creating the application, I'll intentionally experiment within C# and expand my expertise in the language.
- I'll also be playing within whatever song-creation program that is being used, to intentionally refresh myself on proper use of the program
- When creating the application, I'll be continually looking for a solution to keep words that would normally be "unnecessary" somehow. This seems important as certain phrases / topics simply need some of these words to sound correct and be referenced properly.
- I'm honestly looking forward to creating this neat app. Although it may not be done perfectly, I do think it has reasonable use and should serve as a small challenge to complete. I'll get to work again in music software, expand my expertise of C#, and create something unique.
- I do think the project will start slow. Partially because of how busy the timeline is before the career fair, but also because I'll be "creating with caution" at first. By "creating with caution," I mean double checking and triple checking whatever I am completing during an individual week to assure that the work done is truly beneficial towards the application. Despite the slow start, I think I'll be in full stride by the beginning of October.
- There is truthfully this fear of completing something "wrong" at first, that may result in backtracking later down the timeline. My goal is to always move forward each week, keep a steady pace in completing this project, and be proud though both the process and finished product.

### ➤ Questions?

- Feel free to bring up anything that sticks out in this design document. This is also the only time any sort of file will be sent after the "Friday-File" check-in date clarified under the **timeline**. Inquiries may be brought up in person or sent via email to [jxm5725@rit.edu](mailto:jxm5725@rit.edu)