**The proposal will contain the following information:**

**Student Name 👩👨**

Kayla Dixon

**Degree and Major 💻🔑**

Cybersecurity Major

**Project Advisor Name 👵👴**

Mr. O'Neill

**Expected Graduation Date 📅🏁**

May 2026

**Problem Statement 💡**

*Ever listened to a song and wanted to change or edit it without getting into big editing programs? I’m a big listener of music and it’s one of my favorite past times. It’s become something I do almost every day if I can help it. After a while I realized I loved changing songs to have different pitches, slowing them down and even collecting snippets of a song so I could listen to a specific part over and over. The problem was, I could never find an app that did it all and worked well. It had to be an app for me since all my music was on my phone. Currently, the best app I found was music speed changer which worked as a music player that changed the speed and pitch of songs except now it’s faulty because it crashes often and I could never save pieces of the song after or before it’s been changed. However, if I were to create an app that could take my music, change the tone and speed it up or slow it down while letting me take snippets of it and save it all to my music, I could do it all easily with a simple app on my phone. I could enjoy music from the music player with all my songs tune adjusted to my liking through the music player or save them to my phone and have them forever with a just a few buttons. An app this good would change how people listen to music and make editing so much simpler for everyday needs. This sums up to the point that what we currently have for music editor apps isn’t good enough and that my solution would create a way for anyone to edit their songs at any time on their phones.*

**Project Description 📱**

An app that changes pitch and speed to your songs and lets you loop certain sections specified by the user. It can also save the modified song to your playlist and works as another music player.

**Proposed Implementation Language(s) 🐍☕🎯**

Java

**Libraries, Packages, Development Kits, etc. to be used in in the proposed implementation languages(s) 🔧**

Java Gui

**Additional Software/Equipment Needed 💻🕹️📱**

NetBeans

**Personal Motivation 🍰**

To be capable of making more apps in the future, creating a music editor and adding to my skill set.

**Outline of Future Research Efforts 📚🚀🧪**

Demos each app builder application to test for the best fit

Creating the app

Creating testing trials and passing them

Further improvements until the app in finished

**Schedule 📆 ⌚**

|  |  |
| --- | --- |
| **Deliverable** | **Date** |
| Draft Proposal | 10/14/24 |
| ​Draft proposal and requirements | 11/17/24 |
| Completed Proposal and Requirements Document | 12/6/24 |
| Project Proposal and Requirements Document | 12/6/24 |
| Draft Test Plan & Project Update | 10/18/25 |
| Final Test Plan & Project Repository | 12/6/25 |
| ​Project Proposal and Requirements Document | 12/6/25 |
| ​Draft Test Plan & Project Update | 2/3/26 |
| Final Test Plan & Project Repository | 3/23/26 |