**CS242 FINAL PROJECT**

**Name: Aldo Sanjoto, NetID: sanjoto2, Mod: Daniel Tian**

**1. Abstract**

* 1. **Project Purpose**

To create a music player website.

* 1. **Motivation**

Listening to music is one of the thing I always do every day. I know there’s already a decent music app like Spotify but I’m keen to make a version of my own. I decide to build web-based music player because I’ve never made a website before.

1. **Technical Specifications**
   1. **Platform:** Website
   2. **Programming languages:**  ReactJS
   3. **Stylistic Conventions:** camel case
   4. **SDK:** Google Chrome
   5. **IDE:** Sublime
   6. **Tools/Interfaces:** Google Chrome
   7. **Target Audience:** Youth
2. **Functional Specifications** 
   1. **Features:**

Able to play stream music player.

* 1. **Scope of project**

Not all music will be available due to copyright law.

1. **Timeline**
   1. **Week 1**

-Part1: Tutorials

-Part2: Navigate to two different screens

-Home page

-Playlists

-Part3: Interacting with the API: Show your profile data

-Part4: Deploying to the internet using Cloud platform

-Part5: Manual Test plan

* 1. **Week 2**

-Part1: Show duration hours for each playlists and Filter is working for both songs and title.

-Part2: Oauth2 API

-Part3: Able to show list of music in playlists

-Part4: Login page

-Part5: Manual Test plan

* 1. **Week 3**

-Part1: Clickable playlists’ metadata

**-**Part2: Show list of recently played artists

**-**Part3: Able to browse for songs and add to the playlist

**-**Part4: Logout button

**-**Part5: Manual Test plan

* 1. **Week 4**

-Part1: Ability to play songs

**-**Part2: Show followers and following

**-**Part3: API POST (add songs to playlist)

**-**Part4: Data visualization

**-**Part5: Manual Test plan

1. **Future Enhancements**

I’m not sure if I will continue on working on my project in the future due to the fact that copyright law is very strict these days and it requires a lot of money to have them.