**AmazingMusic Project**

**1. Project Member:**

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**2. Project Abstract:**

**AmazingMusic** is a website which allows its users to play, edit and share their music.

**3. Project Description:**

Many music lovers are facing a problem that they can't create and share their music as they want because they need to open at least 2 or more software or websites at the same time to achieve their goals. And AmazingMusic will be a solution to this problem.

AmazingMusic will combines music playing, editing and sharing together, so that the music lovers can create and share their music without having to open at least 2 or more software or websites at the same time, and provide a platform that gives music lovers the freedom to create and share their music by using different devices (such as Android, Windows and iOS).

The product in this project will has six parts as below

1. **Server Architecture (Back End)** --- will be implemented using **python** and **web2py**.

**(1) Data Base**: will be implemented using **Amazon Web Services Cloud** or **Alibaba Cloud** and **MySQL**

**(2) File Storage**: will be implemented using **Amazon Web Services Cloud** or **Alibaba cloud**

2. **User Interface** --- will be achieved by **vue.js** and **html** technology

3. **Audio Playback** --- will be achieved by **html** technology

4. **Audio Editing** --- will be achieved by **pydub** and **FFMPEG** technologies

5. **Audio Sharing** --- implemented using **python**, **web2py** and **html** technologies.

6. **Version Control** --- **GitHub**

**4. Data Stored:**

1. User Account Information

(1) User Account name

--- Automatically generate a username using the email address entered by the user

(2) User Password

--- Entered by User

2. User Music Files

(1) Wav Files

(2) More supported file if I have time

3. User Editing Values

(1) The values which used to change the pitch of the music

(2) The values which used to change the play speed of the music

(3) Support more user inputs for editing part if I have time.

**5. Relationship To Other Projects:**

The idea of this project come from my project in CMPS115. Here is the link of the project at that time ---<https://github.com/leemanwhelan/AmazingMusic>. I, as the project owner of AmazingMusic, successfully created a windows app that can play, edit and share music with the help from other four team members. In this project, I want to implement my previous ideas on the webpage because I want to let the people to use my product in any devices they have and give the project a better UI and editing capabilities.

**6. Plan For Division Of Work:**

**Phase 1: 10/16/2018 - 10/27/2018**

Finish the UI design.

**Phase 2: 10/28/2018-11/17/2018**

Build the Server and achieve Audio Sharing.

**Phase 3: 11/18/2018-11/24/2018**

Achieve Audio Playback and Editing.

**Phase 4: 11/25/2018-12/2/2018**

Fix the bugs and test the whole website.

**7. Git URL:**

https://github.com/czhao35/AmazingMusic-web