Title: Shaux

Who: Cam Fields, Austin Cha, Max Van Sickle, Isha Karki, Xiyuan Liu

Project Description: The purpose of our application is to create an app that allows users to add songs to a queue and listen to them. Different users can create different accounts and login to them. Once there, they can look through our database of songs and add them to their queue to listen to. Our application also has a feature that allows users to add an album by providing the album name, artist, and an album cover image. Our project features a Django database of songs and their respective album names and artists, as well as users and user authentication. Our user authentication implements a SHA 256 hash function. Other things that our project has are HTML5 audio players, HTML Bootstrap features, as well as some CSS and Javascript. Our original plan had a Python-based music player, but we found the HTML audio player to fit more to our aesthetic needs.

VCS: https://github.com/ishakarki/CSCI-3308-Project-Code
https://github.com/ishakarki/CSCI-3308-Meeting-Logs
https://github.com/ishakarki/CSCI-3308-Milestones
https://github.com/vsmax72/CSCI3308-projectcode.git - Final Project Code

Contributions:

Cam

- Project manager/Team lead - keep track of each team members project status, attempted to create an equal division of labor and maintain project gantt chart.
- Python developer - created a music player in python with UI containing basic music player functions.
- Backend assistance - worked closely with Max to produce functional backend using Django.

Austin

- Front-end using HTML, Bootstrap, CSS, JS
- Designing the website homepage to be aesthetically pleasing
- Designing the logo
- Making the website responsive for all devices

Max

- Building a fully functional database with 8 albums and over 100 songs including their necessary information (title, artist, mp3, etc.)
- Integrating front end and back end to have an operating deliverable, including everything from user interface/authentication to a dynamically changing databases
- Handling queries and information extraction from the databases (POST requests)

Isha

- Front-end using HTML, CSS, and JS
- HTML5 audio player for the queue
- W3 cards for aesthetics, including the album display
- Photoshop to create a transparent logo

Xiyuan

- Building a fully functional user system and database.
- Handling POST and GET signal from database and user interfaces.
- Building fully functional register, login and logout system.
- Handling the routing connection between other databases and HTML pages with Isha, Max and Austin.
- Setting up the forms format.
- Setting up a hash method using forms from Django library.

Deployment:
-In order to deploy the app you will first need to make sure you have python and django downloaded on your local machine and you need to access all of the necessary files on github for django to run. Put all of the files from https://github.com/vsmax72/CSCI3308-projectcode.git in a single file named ‘demoapp’ or any name. Then, using a command prompt or usable command shell and navigate to the ‘demoapp’ or whatever you called it. From there run the following commands:

python manage.py migrate - *syncs up models.py code with database*
python manage.py makemigrations - *changes migrations/changes for specific app*

[these commands are probably not necessary but it is better to run them just in case]

Then,
manage.py runserver - runs the server on the local machine.

Finally go to your internet browser and navigate to http://localhost:8000/ or whichever port the server is running on.