

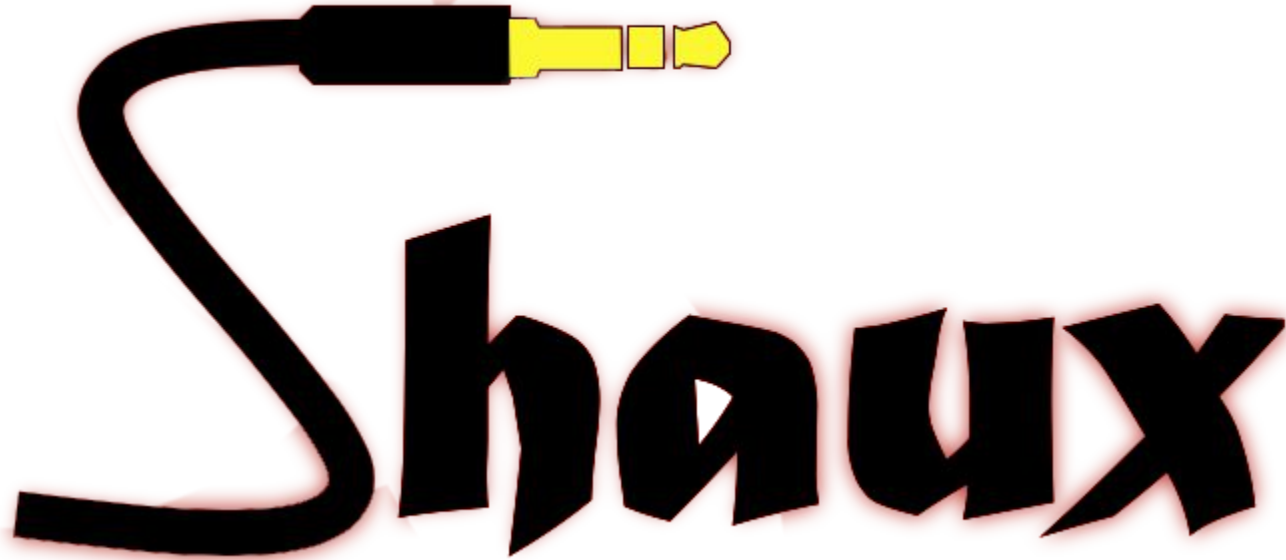
Shaux

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

Application Description

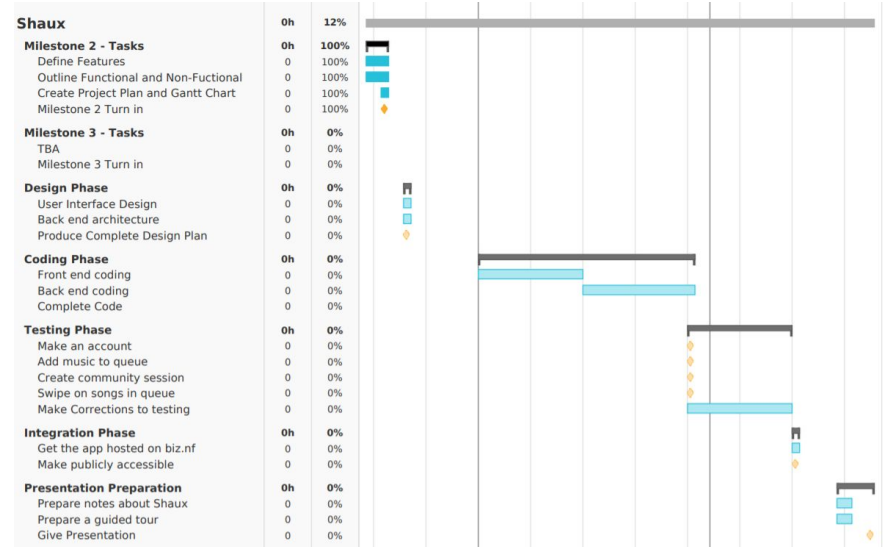
The purpose of our application is to create an app that will allow multiple users to tune into a shared music queue. The queue will be based on user feedback, allowing each member of a party the opportunity to control the music. Each member will have the option to like, dislike, or add songs on the queue so that the pressure of 'being on aux' is shared among everyone.

Application Logo



Tools Used

- Project Tracker: Gantt chart
- VCS: Github (<https://github.com/ishakarki/CSCI-3308-Project-Code>)
- Database, Framework: Django
- Deployment Environment: LocalHost
- IDEs: Atom, VS Code



Cam

Tasks

- 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.

Challenges

- At first the division of labor was clear- front end, back end and user authentication, however, once we explored Django, back end division of labor was a challenge- there was no proper version control that we implemented. Making updates difficult to communicate to the other team members.
- The python music player that I created was not used- it was not optimal to integrate into Django. We chose a much more robust alternative- HTML5 built in MP3 player.
- Lack of in person meetings made it difficult to organize weekly tasks and check ups that we originally included on our gantt chart.

Austin

Tasks

- 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

Challenges

- The most difficult part was working on the style sheets along with the endless options that Bootstrap offers to create the perfect design.
- Learning Django to organize all the CSS and JS files for easy implementation for all the HTML pages
- Making a responsive web page also took a lot of time and research

Max

Tasks

- Building a fully functional databases 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)

Challenges

- It was very difficult to learn an entirely new web application framework. At the beginning I did not realize that Django is where we were going to be integrating every part of the project
- Learning how Django calls html/css/python files and how to embed python code within them
- Especially toward the end of the project it was difficult putting everything together because we could not see each other and work together.
- Storing and extracting the mp3 files for each song was difficult especially because there was very limited documentation on it online and being new to Django it was difficult to implement.

Isha

Tasks

- 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

Challenges

- One of the challenges I faced was the HTML5 audio player. I followed a tutorial online, but it was still difficult to understand what was going on.
- Another challenge was becoming more used to CSS and JS, since I only really knew basics.
- I had to do a lot of Google searches to figure out why something wasn't formatting the way I intended it to.

Xiyuan

Tasks

- Building 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 database and HTML pages.
- Setting up the the forms format.
- Setting up hash method with using forms from Django library.

Challenges

- Checking the functioning status of system with console alert. Sometimes, the page is working but the alert does not show up.
- Trying to build a user system and database without any other page has been given.
- Doing research on different kinds of forms to satisfy our needs on building pages.
- Everyone's` schedule had been changed by the remotely schedule which made me hard to connect with other members on page setting and database setting.