

Application Name: Valence

Application Description:

Our app takes two Spotify users top tracks/artists and creates a new collaborative playlist that both users can enjoy. The playlist will be created based on the listening tastes of both the users. This would allow users to create playlists for road trips, parties and other events that match the tastes of the people involved. The functionality of this app would allow for users to filter which factors the app will use to create playlists and allow users to create different playlists for different genres.

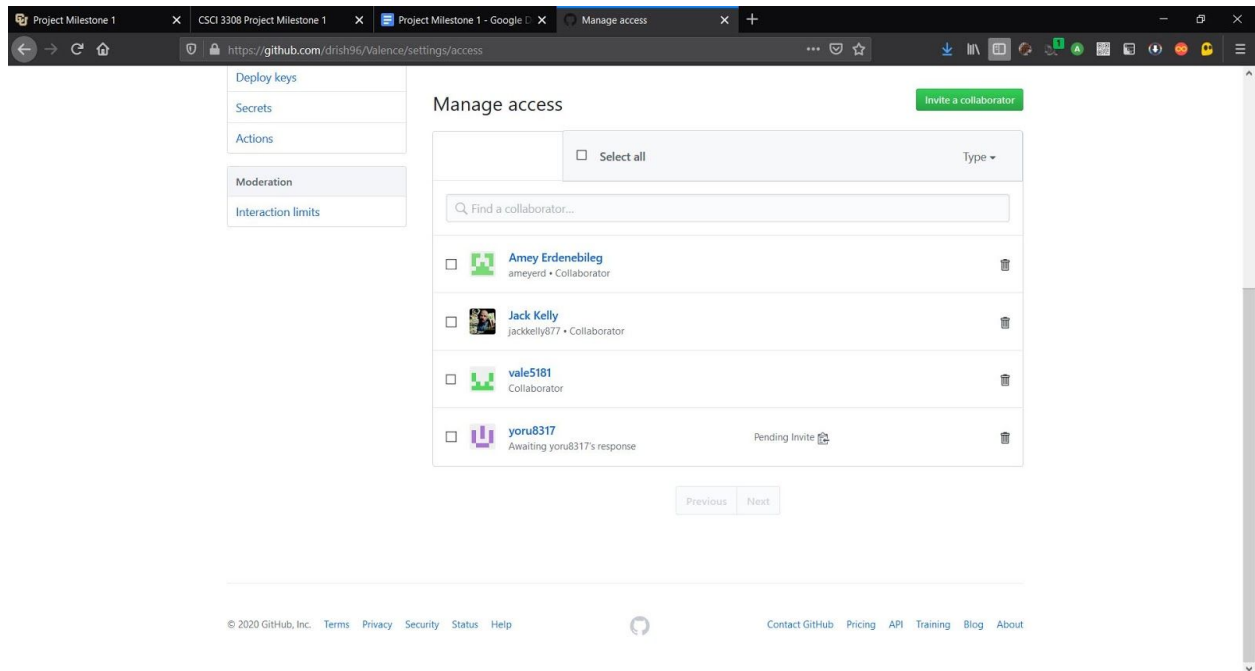
The app itself will be a HTML page where users can log in to spotify and create playlists with their friends. This will allow the users to find new music they may have not heard of before and listen to a new playlist with their friends. Using the information the spotify API gives us we can find artists and other information like where they are touring to give recommendations to the user. The goal of this app is to get the user more involved in their listening experience and allow for more unique playlists.

Vision Statement: With Valence, users can have the ease of sharing and enjoying music with friends and family or people from across the globe because music is universal.

This application will be targeted to anyone who listens to music online who wants an easy way to combine their favorite tracks/artists with other users and enjoy music together. Unlike other music streaming platforms, Valence will be more interactive and has the ability to gather information from other users to create new playlists everybody can enjoy.

Version Control:

1. https://github.com/drish96/valence_logs
2. https://github.com/drish96/valence_milestone
3. <https://github.com/drish96/Valence>



Development Method: A methodology that we are going to use is agile since it is effective for our time period. Waterfall would be hard for us since it would need more time and three months is not enough. We are able to move quickly and easily using agile method. We divide the task into short phases. Our highest priority is to satisfy our customer with our given time period. Simplicity is one of the key principles of agile and that is what we are looking for. At regular intervals, we will reflect on what we have done and come up with solutions on improving our product. This method helps us increase our collaboration and communication skills.

Communication Method: We will be using iMessenger to communicate with each other. It provides for faster and more direct communication. To share files, we are planning to use GitHub. Our work files and plans will also be saved in a shared folder on Google Drive.

Proposed Architecture Plan: We will use [Spotify's Web API](#) to pull information about the users favorite music and relevant JSON metadata. We will use HTML5 for the front end and SQL for the back end. Once the user grants us a valid access token, we can communicate with Spotify and get the user's data.

Meeting Plan: We are meeting face-to-face every week on Tuesday and Thursday from 2pm -3pm in the Engineering Center. If it comes to be that more work needs to be done, we will plan to extend the meeting time on Tuesday.