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| CI601- House Party Interim Report |

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| Alexander wood |

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# Aims and objectives:

In this project I aim to create a website that will allow someone to link their Spotify account and then invite people to a session allowing them to add songs to the queue while limiting their control over the music without the need to download an app or an account to join. I aim to do this as there are multiple music streaming services.

# Research and literature review:

## Spotify API Documentation:

The First research I started with was the Spotify Web API documentation to first see if what I had planned was possible to do from the API that is publicly available to use.

## Spotify API terms of service:

I read through the terms of service to make sur that the website I was making would not pose any legal issues or go against the terms of service of Spotify

# Requirements:

A screenshot of a computer

Description automatically generatedWhen it came to figuring out the requirements for my website I decided to use the MSCW method to help me prioritize the features and functionality that I will be adding to my project. This method is used to categorise the importance of each feature of the project into four different categories must have, should have, could have and won’t have.

## Must have:

### Ability to log into Spotify:

Allow the host to sign into their Spotify account so that it can be used in the session creation process.

### Ability to join sessions and add songs:

Allow users to join the session created by the host and add songs to the hosts queue through the website.

### Ability to create and host a session:

Allow the hosts once signed into their Spotify account to create and link their Spotify account to a session which will then be used by the guests to add songs to the queue.

## Should have:

### Ability for the host to filter out explicit songs:

Make it so the host can enable and disable a setting which either allows for guests to search and add explicit songs to the queue or hides the songs and does not allow them to add them depending on what the hosts decides.

### Ability for the host to set a duration for the party to expire after:

Add a setting when creating the session which allows the host to specify how long the session will last for and after the designated amount of time the session ends itself so people can’t keep using the session to add songs to the queue indefinitely.

### The ability to generate and join a session using a QR code:

Make it so a QR code can be generated and used as the way for guests to join the session.

## Could have:

### Ability for the hosts to disable duplicate songs:

Make it so the hosts can toggle on and off a setting which makes it so when a guest adds a song a check is made that makes sure the song being added is not already in the queue and if it is does not add the song to the queue.

### Ability for a guest to hear a preview of the song they are going to add:

Add a feature that makes it so the guest can search the name of the song select the song and then to check to make sure it’s the right song the guests can then listen to a short preview of the song.

### Ability for the hosts to make it so the queue automatically when the session ends:

Add a setting the host can enable or disable making it so when the session is ended or expires automatically the hosts song queue is cleared and set back to how it was before the session so there are no songs remaining from the session.

### Ability for the hosts to extend the duration of the session:

Make it so the hosts can increase the time they have remaining on their session in case the time they decided when creating the session was not enough so that a second session does not need to be created, and they can stay using the original one.

### Ability for the guests to see items being added to the queue in real time:

Add the ability for the guests to see the song queue and when a guests or the hosts adds a song to the queue either using Spotify or the website have it update showing the current queue.

### Guests to see what songs are currently playing:

Add the ability for the guests to see the song that is currently playing so that if they like the song they can save it to their own playlist.

## Won’t have:

### Limit how many songs guests can add:

Add the ability for the hosts to restrict the number of songs each guest can add to the queue of the session and then after they hit the limit they are then unable to add anymore.

### Voting system to push songs up the queue:

A voting system to be implemented that will allow for the guests to vote on songs in the queue and move them up the queue bases on how many votes the song gets.

### More music platforms:

As the website uses APIs to handle the playlists and song searching it would be possible to add support for more music platforms such as YouTube, SoundCloud and Apple Music.

# Chosen approach:

## GitHub:

To store and manage my code I will be using GitHub with two branches a stable branch and a dev branch. The stable branch will contain the code which has been tested and the dev branch will be used to contain the code which is currently being worked on and tested this is done so that I can use the stable branch as a point to revert to in case of any changes which break the code.

To protect the stable branch from changes that could be damaging, I have also decided to implement branch protection on it this means that to add code to the stable branch you must open a pull request from the dev branch it must then be reviewed before it can be pushed to the stable branch this it to monitor what’s being added to the stable branch and to prevent any untested code from being added.

## Project management methodology and tools:

The tools I will being using to mange the development is the projects function on GitHub which allows you to create lists of items and priorities them depending on their importance and then move them to a section to show that the task has been completed.

I have used this feature to create a Todo list listing out what’s currently being worked on, what’s been finished, what’s left Todo and an extra section that has features I could add if I have the time to near to the end of development. I have also created a MSWC to help identify the key parts of the project and to also identify what is not important for the project’s development.

# Plan:

# Deliverables:

## A green and black sign Description automatically generatedLogo:

For my project I designed a logo which is going to be used as the favicon for the website

# References:

*Spotify Web API (no date) Web API | Spotify for Developers. Available at:* [*https://developer.spotify.com/documentation/web-api*](https://developer.spotify.com/documentation/web-api) *(Accessed: 20 September 2024).*

*Spotify developer terms (no date) Spotify Developer Terms | Spotify for Developers. Available at:* [*https://developer.spotify.com/terms*](https://developer.spotify.com/terms) *(Accessed: 20 September 2024).*