
Choonz

Group P ITECH Design Specification 2020



Overview

Choonz will allow users to create, upload or share music playlists from external streaming sources such as Spotify¹. On the creation of a new playlist, the creator will be able to apply descriptive 'tags' to help categorise their playlist. Other users will then be able to rate and review the playlists, and will be recommended similar playlists based on tags they have rated highly.

The top rated playlists (within a user-defined time period) will be displayed on the front page. Users will also be able to search for playlists by name, or by tags, to help them find that perfect specific playlist to scratch their specific playlist itch!

¹ Spotify. (2020). <https://www.spotify.com/>



User Persona #1

Vestland. (2010). [Flickr.com](https://www.flickr.com/photos/vestland/5400000000/)

Her Name Is Rio...

... and she is a 19 year old music lover from Chihuahua City, Mexico. In her spare time Rio likes to create playlists to share with her friends. She is very proud of her excellent and eclectic music taste, and so she feels that she needs a way to share her playlists with a wider audience.

Rio is also somewhat competitive, and would love a way to prove to herself and her friends that her playlists can rank among the best in the world.

Hey Joe...

A 40 year old priest from Oslo, Joe fell deep into the Norwegian Black Metal scene as a youth and, despite his new life as a man of the cloth, still harbours a forbidden love for those rage-filled guitar riffs and shrieking vocals .

Joe is always searching for the perfect 90s Black Metal playlist, but finds that no one ever seems to capture that perfect blend of nihilism and dread. What Joe needs is a way to rate and review playlists, and guide these lost souls with constructive criticism.



Brain News Service. (ca. 1910-1915). [LoC.gov](https://www.loc.gov)

User
Persona #2

Come On Over Valerie...

Valerie is a 22 year old Scottish Literature student from Glasgow. Valerie finds that she can only study while listening to 1980s Japanese Ambient House music. She needs to find the highest ranking playlists of this description to get some work done, but realises that this is a somewhat niche request. So for this reason she needs a way to search for playlists that have specific tags (such as genre, tempo or era).



**User
Persona #3**

Duryea, T.
(ca.1850-1900). maas.museum

Specifications

- **Must**
Allow users to create an account
- **Must**
Allow account holders to create playlists
- **Must**
Allow users to rate/review others' playlists
- **Must**
- Show users the top rated playlists within a certain time period
- **Should**
Allow users to link to playlists/songs from streaming sources
- **Should**
Allow account holders to apply tags to their playlists
- **Should**
Allow users to filter playlists by tags
- **Should**
Give account holders playlist recommendations based on playlists they have rated

- **Could**
Allow users to login via Facebook¹/Twitter²
- **Could**
Allow users to follow/subscribe to other users
- **Could**
Introduce a multi-attribute rating system, so users can rate playlists on separate, distinct criteria, e.g. 'replayability'

¹ Facebook. (2020). <https://www.facebook.com/>

² Twitter. (2020). <https://about.twitter.com/>

1

Activity on your Playlists...

Mongolian Throat Singing: An Anthology

by mgdarroch

A collection of Steppe Throat Singers

Terrible taste in music. I've heard more tasteful rhythm and melody in a traffic pileup.

Rating: 1/5 Choonz

I quite liked it actually, really captures the essence of the Steppe spirit.

Rating: 4/5 Choonz

Why am I being recommended this?? Doesn't matter I love it thank you Choonz

Rating: 5/5

3

A playlist you might like...

Eclectic Postmodern Retro Jazz Hip Hop

by Calmpson

Swinging and jiving from the 1920s to the 2020s

What others are saying...

This playlist is an absolute mockery of this site.

Rating: 1/5 Choonz

6

Tags you might like...

80s

80s Tunes To Make The Ladies Swoon

by Calmpson

See Title.

For when I feel like strutting

by Dawwestk

Tunes to get your 80s strut on to

To help me remember my prime

by StuartArmit

Back when I was young

About Us

Contact Us

1

This wireframe displays the main page that will be shown when there is a user logged in. The profile picture of the user is shown. This can be clicked to access the Account Page. The Log In and Sign Up buttons have been replaced with a single Log Out button.

2

Now that a user has logged in, the search bar now displays a button that allows the user to browse the playlists on the site, browse the users and a search bar that can be used to search for playlists and users on the site.

3

This box will now display any activity that has taken place concerning the user playlists. Comments and ratings will be displayed here along with the header which will show which playlist is being discussed.

4

Here is an example of what a comment from another user may look like. The profile picture is displayed alongside a text box containing an optional comment and a rating.

5

When there is an account logged in, this box will recommend a playlist to the user. This recommendation is based on which tags the account logged in is most associated with.

6

This box will display playlists linked with tags that are common on playlists the user rates highly but that the user does not use on his own playlists.



3 Public Playlists

4 Draft Playlists

5 Imported Playlists

Mongolian Throat Singing: An Anthology

A collection of Steppe Throat Singers

Tags:

Status: Published

Average Rating: 5/5 Choonz

View Comments

Edit Playlist

Share Playlist

Peter Gabriel and the Prog Rockers

Peter Gabriel and other Prog Rockers

Tags:

Status: Unpublished

Edit Playlist

Peter Gabriel and the Prog Rockers

Peter Gabriel and other Prog Rockers

Tags:

Status: Unpublished

Edit Playlist

Peter Gabriel and the Prog Rockers

Peter Gabriel and other Prog Rockers

Tags:

From: Spotify

Publish

6 Create New Playlist

Import Playlists

1 When the user has left the main page, it can the Choonz logo can be pressed to return to it.

2 This window features tabs which will allow the user to access their playlists, the ratings they have left on other playlists and any links to their social media.

3 Inside the 'My Playlists' tab, the user can view lists of his published playlists, his draft playlists and playlists he has imported. Each item in the list comes with options to allow the user to edit, share, make public and view the comments of his playlists. We also show here an example of a playlist with a header image.

4 The draft playlists are playlists which the user has started to put together inside the playlist workshop page but has not yet finished and are awaiting publication. Playlists in this list can be edited. Pressing the 'Edit Playlist' button will also take the user to the Playlist Creator but will open the specified playlist in the Edit Playlists tab.

5 This list will feature playlists that have been imported from sources such as Spotify, Soundcloud or YouTube. They can be made viewable and displayed with the users public playlists.

6 The create new playlist button will take the user to the Playlist Workshop page which will allow the user to build playlists.



Create A New Playlist

My Drafts

1

2

Song Name: Artist: YouTube Link Spotify Link:

Add Song

3

Playlist Name: Playlist Tags: Playlist Description: Playlist Image:

Browse

Save Details

Save For Later

Publish List

5

4



Mongolian Throat Singing: An Anthology

by mgsderrish

A collection of Steppes Throat Singers

Song Name - Artist - Hyperlink(If Provided)

X

Song Name - Artist - Hyperlink(If Provided)

X

Song Name - Artist - Hyperlink(If Provided)

X

Song Name - Artist - Hyperlink(If Provided)

X

1 This box contains two tabs here, the first will display the playlist creator tool, which will enable the user to create or edit playlists, the second will show saved drafts.

2 This window requires the user to enter a song name and an artist. The link fields are both optional inputs and are not required.

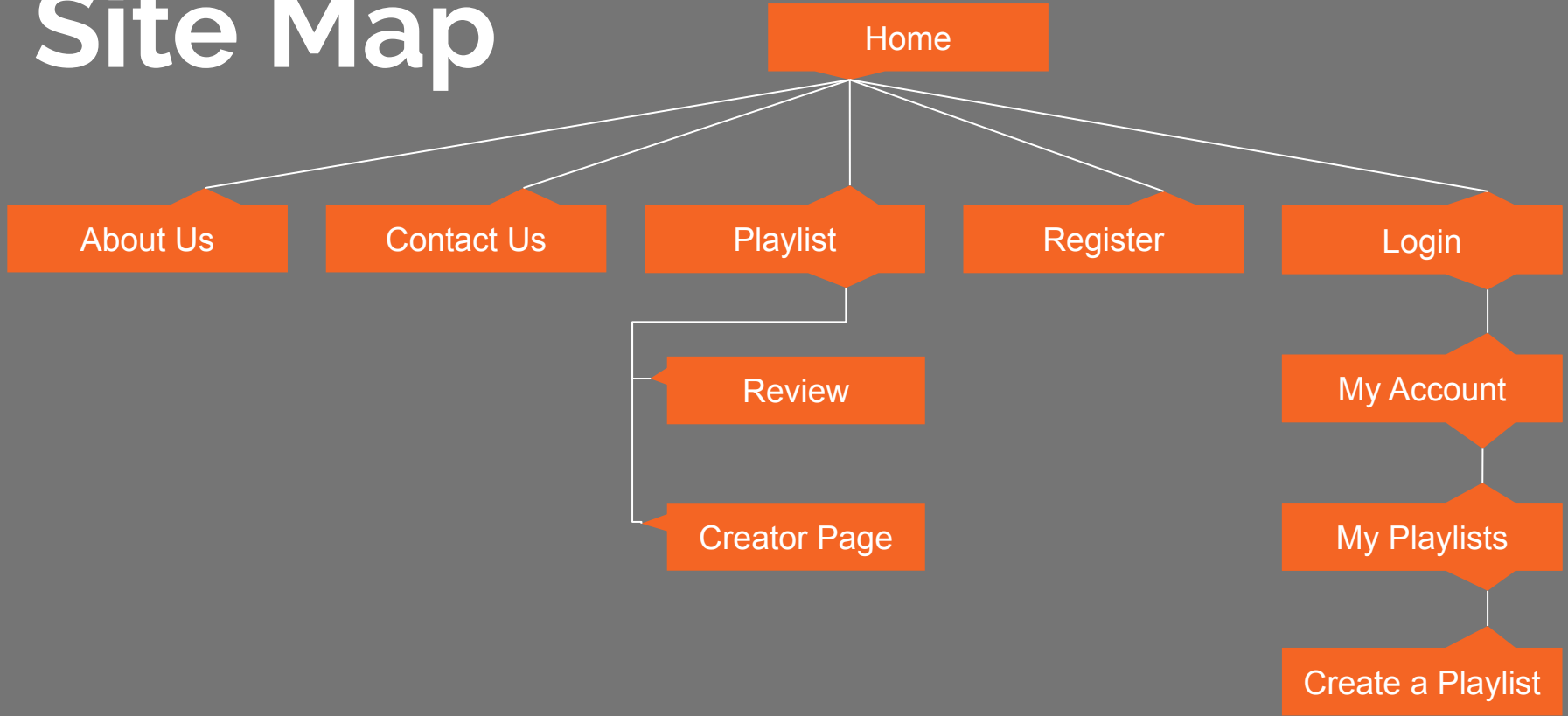
This window will allow the user to enter the name of the playlist, define the tags they wish the playlist to be associated with, enter a description and finally provide a playlist image. The save details button will apply these input fields to the playlist.

4 This window will show a list of the added songs, as well as a header box which will show how the playlist will be shown in other areas of the site.

5 Each song can be easily removed from the playlist by clicking this X.

6 The Save for Later button will save the playlist as a draft and store it with the others. The user can return later to finish building the playlist. The Publish list will make the playlist public and it will be viewable to other users based on the tags the user provided.

Site Map

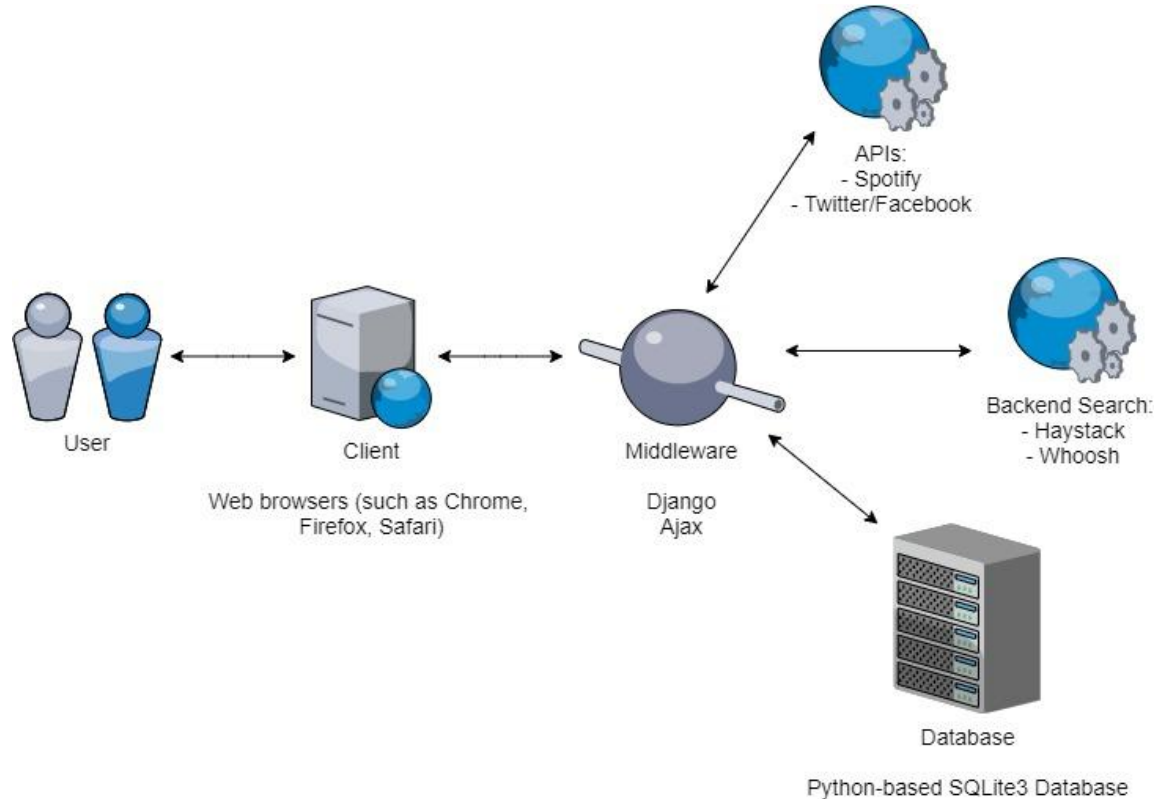




URLs

- /home
- /about
- /contact
- /register
- /login
- /myaccount
- /myaccount/myplaylists
- /myaccount/myplaylists/create
- /<playlist-name>
- /<playlist-name>/review
- /<username> (Note: for particular user's page)

System Architecture Diagram



Entity-Relationship Diagram

User	
id	IntegerField(6)
username	CharField(30)
password	CharField(30)
picture	FileField

Playlist	
id	IntegerField(8)
name	CharField(30)
songs	ForeignKey
averageRating	FloatField
tags	oneToMany
ratings	ForeignKey
user	ForeignKey
createdDate	DateField
lastUpdated	DateField
numberOfRatings	IntegerField(8)
description	CharField(200)
image	FileField
published	boolean

Rating	
user	ForeignKey
playlist	ForeignKey
stars	IntegerField(2)
comment	CharField(200)
date	DateField

Artist	
name	CharField(30)
songs	ForeignKey
webpage	URLField
linkToSpotify	URLField
numberOfPlaylists	IntegerField(5)

Song	
name	CharField(30)
artist	ForeignKey
linkToSpotify	URLField
numberOfPlaylists	IntegerField(5)
linkElsewhere	URLField

Tag	
description	CharField(30)
numberOfPlaylists	IntegerField(5)

