# "MixList" - DJ Mix Sharing & Listening Application

The Krusty Krab - Github Repository

| Team Member Name | Github Username | Team Member Name | Github Username |
|---|---|---|---|
| Benjamin Murphy | *benmurphy7* | Matthew Robinson | *mattrobinson125* |
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## Overview / Changes:

Our project is a website that allows users to upload and listen to DJ mixes. It is designed for long-form audio files that have more than one track in them, like a DJ mix, a radio show, or a podcast. The application allows for users to see a tracklisting of a mix and access the individual track on their preferred platform (SoundCloud, Spotify, Apple Music, YouTube, etc).

Changes since project 2:

1. Edit profile form, upload tracks, add and remove favorite tracks, follow and unfollow users, comment model, login/logout, signup form

## Design Overview:

We added login/logout functionality to our shared toolbar, as well as access to the users profile page (an extension of the default django user model) where users can see how their profile looks as any user. On these profile pages, we also added the ability to follow/unfollow users. We also added the ability to favorite/unfavorite mixes, with a list of users favorites added to their public profile. We also added a form to allow new to register an account. Lastly, we added a comment form to the mix pages.

## Problems / Successes:

For the edit profile page, we are able to let users update information. The problem is redirecting the page after submit. And username field type needs to be changed a little bit in order to let user be able to change username in edit page. Still have to figure out which name to use, User(first_name,last_name) or Profile(username).

For the signup form. New user can register account now. The problem is that user can only be registered only when all the information is correctly entered. (Need to find a way to check validation)And after user signed up, we still have to log them in.

One large problem we faced was sending data from our "Edit Mix" form to the server in a way that we could deal with it. This form has a dynamic amount of inputs, since a Mix can have many Tracks. This was dealt with by using an invisible Django form with a single input that was automatically updated with JSON data from our dynamic form. This data was then able to be parsed by the server to make changes to our data. There are still some things that need work, such as improving when we decide a track doesn't already exist in the database, deciding which provider a link comes from, and combining links if a user provides new links to an existing track.

Another issue when following users was we were using a many-many field in the profile page. We ended up having to make a new table that connected 2 profile foreign keys as the primary key. After this it was able to be implemented.

## Team Choice Plans:

1. Implement password change and reset via email
2. Cloud hosted static media files
3. Improved audio player with scrubbing, volume, and skip functionality
4. Search functionality
5. Smart Tag Parser for uploading Mixes (paste in tracklist with times rather than editing one by one)

## Individual Write Ups:

| **Team Member Name** | **Write Up** |
|---|---|
| Benjamin Murphy | I created a basic comment system for mixes which requires users to be logged in. This does not use Django's comment framework but rather a custom comment model so features such as spam control and anti-profanity filters are not used. Currently the user is brought to a separate page with a comment form, but in the future this form should exist on the same page as the comment section. I also made some changes to the charts page and fixed an issue that was preventing access to account features. |
| Daniel Maryanski | I reworked the "Edit Mix" page so the data is now stored mostly in javascript instead of in the HTML inputs. This allows us to have a dynamic form (with varying amounts of data). I also created an invisible form that will submit the javascript JSON data to the server. This JSON data is parsed on the server and DB objects are created/modified/deleted according to what the user selects on the edit page. I would say I did 17% of the work on this project because I did what I said I would before we all started working. I think this project went much smoother than the last two because we divided up the work and decided who would do which tasks *before* we started working. |
| Daniel Szymanski | I implemented the login/logout features, including the pages and the functionality in the navbar. I also implemented a base signup page that was changed later. I also made the following feature, which added a following bar to profile pages.<br>I then made the following functionality in the profiles. This, after realizing a many-many field within the profile wouldn't work, required making another table late in the game to map users to who they were following. I think I did about an even amount of work with the others. |
| Matthew Robinson | For this submission, I worked on the upload form for submitting an audio file and redirecting to the edit mix page. I also placed our audio player on the edit mix page so users can listen to the mix as they create/modify the tags. Lastly, I worked with Shipeng on getting the favorite/unfavorite functionality correctly implemented. I believe I did my equal share for this project, since we were better this time around at splitting the work and communicating our plans. |
| Shipeng Yu | I implemented the add/remove Favorite features in the mix-view detail page, this function allow user able to add and remove Mixes into their Favorite Mix into profile, and in our user profile page, it will shows the list of favorite Mixes, Matthew helps a lot, I think I did less amount of work than the others,even we splitting the work at beginning. |
| Yuzhuo Shi | This time, I did user profile edit page and signup form. User can now update profile information and signup for a new account. There are some small problems need to be fixed. Such as username change and form validation check. For example, when sign up, if password is not entered correctly, it won't give notification but fail instead. And I also fixed some small issues. Overall, I think I did about even amount work with the others. |

In order to run:
You may need to download some packages
Pip install boto3
Pip install django-storages