Project Title: **House_Cloud : Best DJ in the city** (SF electronic music events rating app)

Project Members: Inna

Project Goal: Build an app that is rating DJ artists of electronic music events in SF (performing on a day of interest), then presents top clubs where DJs with the highest rating are performing on this day.

Motivation:

There is a large community of electronic music (particularly house) funs in the city of SF; and there are up to 20 different clubs hosting best DJs from around the world every weekend. What club should you choose to have the best experience for your weekend?

(Typically, house-music funs need to find what DJs are performing at each club, then locate them on SoundCloud.com and identify their rating (number of followers and albums released), which is a manual, long and tedious process, can take up to few hours of precious weekend time)).

So that, it would be great to have a quick weekend projection from an app flask server with the top clubs where DJs with the highest rating are performing.

Process flow:

1. Build a data scraper from the https://19hz.info/eventlisting_BayArea.php website (electronic music events, SF Bay Area), extracting DJs artists names performing at what clubs on a day of interest; demonstrated below on Fig. 1:

Fig. 1: How to find DJs and their clubs

2. Create pandas DataFrame with DJ and Clubs columns; create a separate list of DJs.

3. Build a data scraper from the SoundCloud searching DJ's number of followers and number of albums/tracks released: loop through the DJs list and build searching urls based on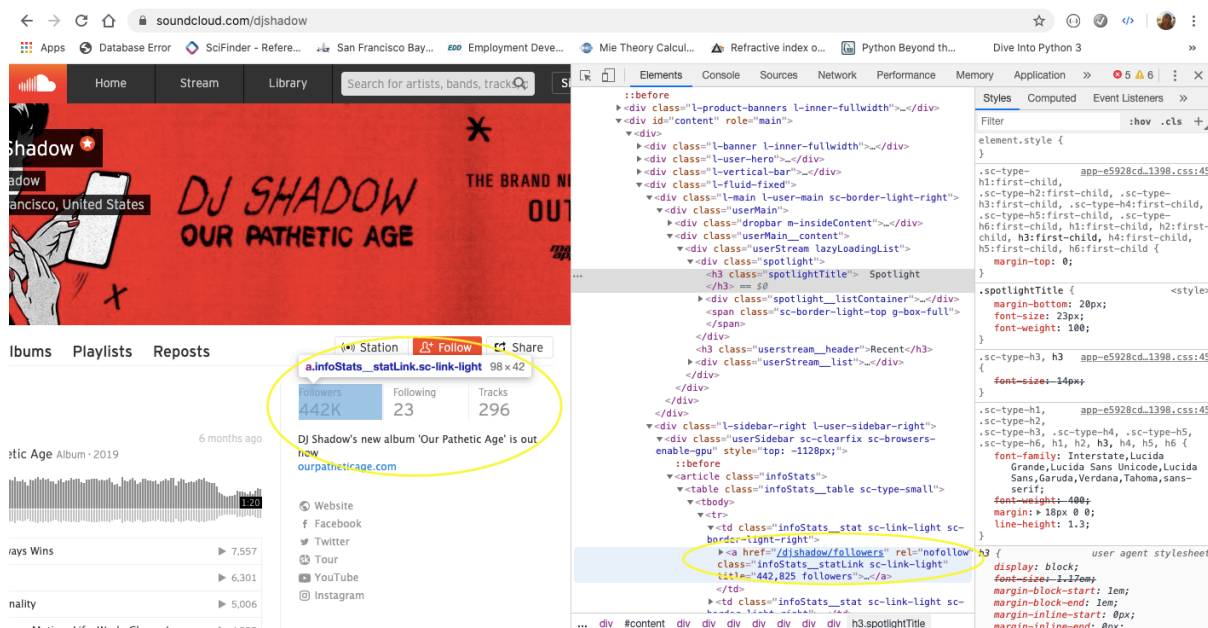 their names, then extract the information, for example: https://soundcloud.com/djshadow (https://soundcloud.com/<name>); demonstrated below on Fig. 2:

Fig. 2: How to find DJ rating information

4. Add new columns (number of followers and number of tracks released) to the pandas DataFrame, sort in a descending order.

5. Build a server flask collecting and demonstrating the results.

6. Optional (if time /resources allow): perform local search on Gmaps for the club addresses, then present them on the SF map as a heat layer of the clubs with highest rated DJs.

Data Sources:

1. https://19hz.info/eventlisting_BayArea.php
2. https://soundcloud.com