# CS699 Project Streaming Playlist

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#### Description:

As movie streaming is becoming more and more popular, we are seeing more and more players entering the market. Due to this, movies and tv shows are divided amongst various streaming platforms like Netflix, Amazon Prime Video, Hotstar etc. Due to this it is getting harder to find which content is available at which streaming platform. Also, as content is being divided amongst these services, there is no way to create a playlist containing content from different platforms.

Aim: We aim to create a web application through which users can know which content is available on which platform, and create custom playlists which can also be shared with the world.

#### What did we achieve:

- User management.
- TMDb APIs to search for Movies and TV Shows.
- Playlists containing any combination of movies, TV shows or specific episodes.
- Managing Playlist: option to add/delete/shuffle/share playlists.
- Everyone can view all public playlists.
- Know which streaming services is providing specific movie/series.
- Brief description of a particular movie including its casts and genre content.

#### Future work:

- Making the pages more interactive and visually appealing.
- Strict user control over modification policies of the playlists.
- Option to have a private playlists.
- Play the content directly from the playlist.
- Integrating OMDb API for get details of even more content on the web.

#### Documentation of directories, files, main libraries/functions

- manage.py: is the main django file to start the server, serve the files online.
- home-app: control the index page of the website, displays latest movies/shows.
- playlist-app: control playlist management (Creation, Updating, Deletion).
- search-app: search through the TMDb dataset to give the required results.
- templates-folder: using django templating to control the responses of the html pages.
- users-app: user management system (Sign in, Sign up, Sign out etc).

## Documentation of algorithms (if any)

No such hard named algorithm were used.

It is a simple python-based server which uses the capabilities of the APIs and the libraries which it provides to create a single-landing platform which can display the details of all the various types of movies and TV shows available online on different platforms.

And indeed provide with functionalities to create and share playlists which contains content from various platforms.

## Tools used:

- Python
- HTML/CSS
- GIT
- Postgres
- VS code
- Bash
- Makefile

## Compilation/running instructions

#### For first-time:

- pip install -r requirements.txt (Install dependencies use Conda env)
- python manage.py createsuperuser (Make admin user)
- python manage.py migrate (To make tables in the db)
- python manage.py runserver (Start the server)

#### Else:

python manage.py runserver

## **Ending Notes:**

We were just trying and playing around with the tools learned in software lab to make meaningful web applications which provides flexibility and cool functionality to our users.

We learned how python can be used as a backend framework for web servers.

We learned more about how REST API works as most of the communication on www happens through various APIs.

We learned about templating and how can we use that to control html pages to render the required content on the browser.

## Thank You