**Project 3 - Visualizing Data**

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PROJECT GOAL:

Video streaming is now the dominant channel for online entertainment sources to enter viewers’ virtual doorsteps. Our goal is to provide a one-stop shop to enhance overall user experience within four most popular streaming platforms: Netflix, Amazon Prime, Disney+, and Hulu.

We provide an easy search option across 4 platforms for current subscribers to find their desired content at their fingertips, without the restriction of specific devices. Additionally, for potential subscribers who are still deciding which streaming service is best for them, they can find their answers by viewing our detailed comparisons without feeling overwhelmed.

PROCESS:

1. Find data sources:

a. Kaggle

·  [Netflix Movies and TV Shows| Kaggle](https://www.kaggle.com/datasets/shivamb/netflix-shows)

·  [Amazon Prime Movies and TV Shows | Kaggle](https://www.kaggle.com/datasets/shivamb/amazon-prime-movies-and-tv-shows)

·  [Disney+ Movies and TV Shows| Kaggle](https://www.kaggle.com/datasets/shivamb/disney-movies-and-tv-shows)

·  [Hulu Movies and TV Shows |Kaggle](https://www.kaggle.com/datasets/shivamb/hulu-movies-and-tv-shows)

b. Neilsen Insights: Video-On-Demand Consumer Behavior Report

2. ETL:

a. Extract data from CSV files

b. Transformation using python, pandas

c. Load data into Postgres

3. Deployment:

a. Creating python flask powered a restful API to deploy data into the web

b. Via Heroku or Github Pages

\*\*Bonus: Provide API links that stored cleaned and transformed data in json format that can be publicly accessed for visitors in our website

4. Web-Visualization:

a. Create index.html

b. Create app.py

c. Create style.css/plot.js/static.js

d. Includes plotly, leaflet, GEOMapping in JS

5. Presentation:

1. Create a Readme File
2. Create slide deck which includes charts/graphs/maps/images

\*\*\*Note:

· Remember to hide Postgres Password in gitignore file, do not upload into repo

· Include new JS library/function we did not learn in class

· Web visualizations ust includes three views (graphs/tabs/data)

· Web interaction must have menus, dropdowns, textboxes (search box, contact info?)