

CS6852-Assignment 2

Group 5

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1 Domain Description

The domain which we chose for this project is related to currently airing movies and TV shows. Data related to this domain is obtained from open themovieDB api and it is displayed on a Google map according to the region.

2 Mash-up details

We used themovieDB and Google Maps api and created a mash-up out of them we queried the api about the currently airing movies and TV shows and it returns a JSON object we used the details in the object and displayed the result on the World map using Google maps api.

3 API themovieDB

The Movie Database (TMDb) is a community built movie and TV database. It provides a public API to access its database. Description of the movie JSON object is as follows

```
{
  "vote_count": 2234,
  "id": 399055,
  "video": false,
  "vote_average": 7.4,
  "title": "The Shape of Water",
  "popularity": 452.295995, "original_language": "en",
  "original_title": "The Shape of Water",
  "genre_ids": [18,14,10749],
  "adult": false, "release_date": "2017-12-01"
},
```

Figure 1: The movie JSON

Description of the TV show JSON is as follows

```
{
  "original_name": "The Walking Dead",
  "genre_ids": [18,10759,10765],
  "name": "The Walking Dead",
  "popularity": 248.813492,
  "origin_country": ["US"],
  "vote_count": 3099,
  "first_air_date": "2010-10-31", "original_language": "en",
  "id": 1402,
  "vote_average": 7.4,
},
```

Figure 2: The tvshow JSON

TMDB contains a list of top Movies now playing in theaters. There are approximately 470 movies now playing. And the Tvshows on the air are approximately 260. We are displaying all these shows on google map with font size according to its popularity.

4 Issues with Data Integration

Tvshows has origin_country as an attribute which makes it easier to locate in the map. But movies has no attribute for location. Instead we have to append a condition for region.

The default marker has icon which takes up a lot of space in the map. So, we had to make custom marker. But the custom marker overrides the addEventListener. We thought of displaying the poster of movie or Tvshow upon clicking its corresponding label.