Final Project Proposal Group 13

Members

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Description of Data

1. Introduction :
   The YouTube Trending Video Dataset (Updated daily) includes the different trending videos in different countries. Each country has its own table, and each country table includes tuples of different videos. The description of each video includes the unique video ID from YouTube, the title of the video. when the video was published, the channel ID of the publisher, the channel title of the publisher, and so on.
2. Source: Kaggle Dataset
3. Table description (schema): The name of the table is abbreviated
   a. [Country]_youtube_trending_data
      I. Abbreviations

BR	Brazil	CA	Canada	DE	Germany
FR	France	GB	Great Britain	IN	Indian
JP	Japan	KR	Korea	MX	Mexico
RU	Russia	US	United States		

      II. Column explanation:
         i. video_id: [primary key] unique identity for each video
         ii. title: title of the video
         iii. published_at: at which date the video was published
         iv. channel_id: the unique identity of the channel that posted the video
         v. channel_title: the title of the channel posted the video
         vi. category_id: [foreign key] category of the video

vii. trending_date: the date that the video is on the trending list
viii. tags: tags of the video
ix. view_count: view_count of the video
x. likes: likes of the video

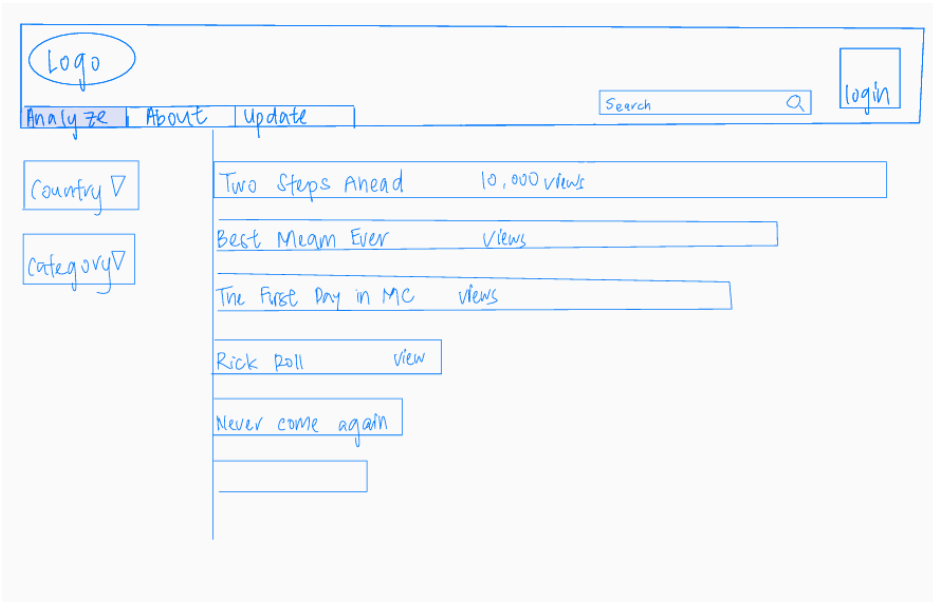
b. Countries
    I. name
    II. [primary key] country_id
c. Categories
    I. name
    II. [primary key] category_id
d. user
    I. Username
    II. user_id
    III. [primary key] user_password

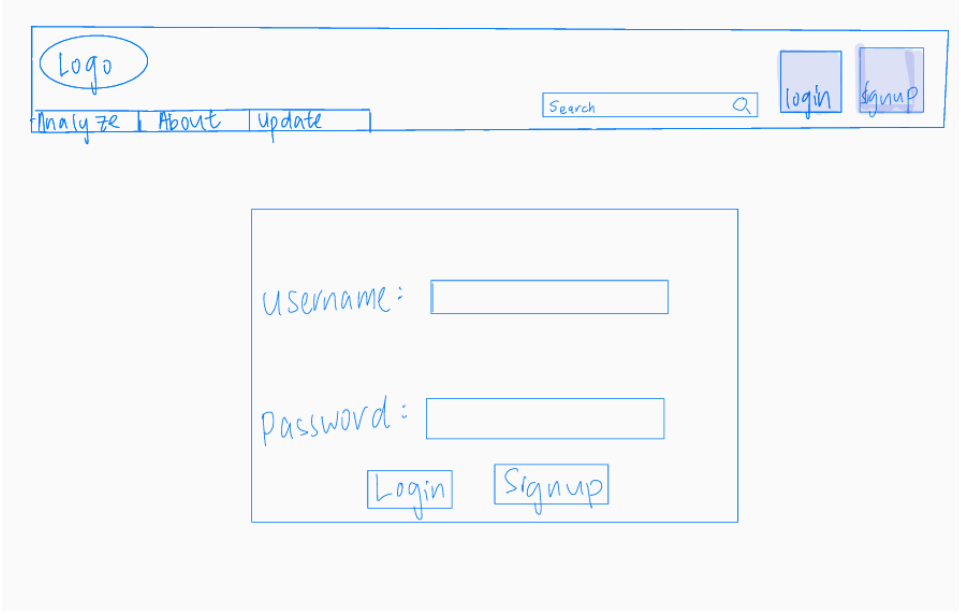
Schema below:

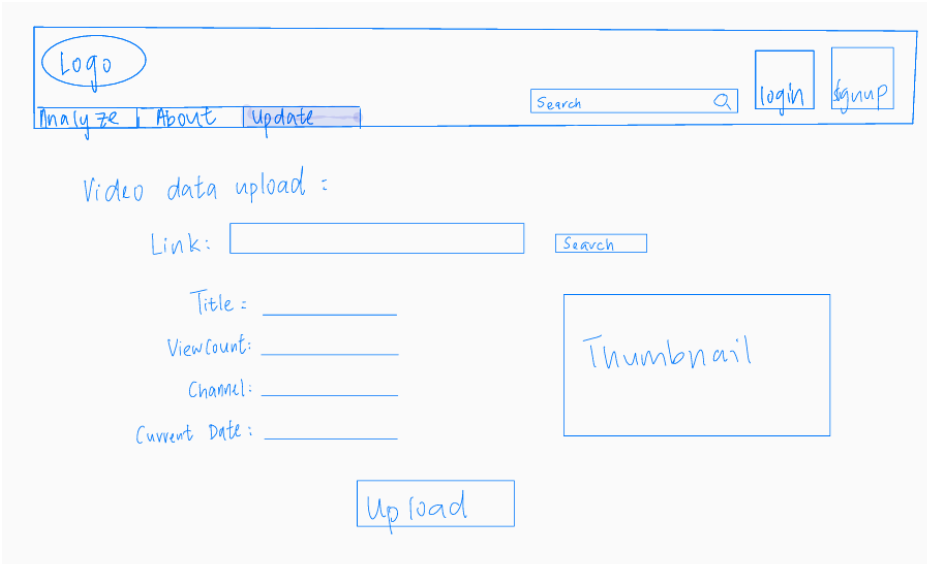
BR_youtube_trending_data
video_id text
title text
publish_at timestamp
channel_id text
channel_title text
category_id int
trending_date timestamp
tags text
view_count int
likes int
dislikes int
comment_count int
thumbnail_link text
comments_disabled bool
ratings_disabled bool
description text
country_id varchar(2)
CA_youtube_trending_data
video_id text
title text
publish_at timestamp
channel_id text
channel_title text
category_id int
trending_date timestamp
tags text
view_count int
likes int
dislikes int
comment_count int
thumbnail_link text
comments_disabled bool
ratings_disabled bool
description text
country_id varchar(2)
DE_youtube_trending_data
video_id text
title text
publish_at timestamp
channel_id text
channel_title text
category_id int
trending_date timestamp
tags text
view_count int
likes int
dislikes int
comment_count int
thumbnail_link text
comments_disabled bool
ratings_disabled bool
description text
country_id varchar(2)
FR_youtube_trending_data
video_id text
title text
publish_at timestamp
channel_id text
channel_title text
category_id int
trending_date timestamp
tags text
view_count int
likes int
dislikes int
comment_count int
thumbnail_link text
comments_disabled bool
ratings_disabled bool
description text
country_id varchar(2)
JP_youtube_trending_data
video_id text
title text
publish_at timestamp
channel_id text
channel_title text
category_id int
trending_date timestamp
tags text
view_count int
likes int
dislikes int
comment_count int
thumbnail_link text
comments_disabled bool
ratings_disabled bool
description text
country_id varchar(2)
GB_youtube_trending_data
video_id text
title text
publish_at timestamp
channel_id text
channel_title text
category_id int
trending_date timestamp
tags text
view_count int
likes int
dislikes int
comment_count int
thumbnail_link text
comments_disabled bool
ratings_disabled bool
description text
country_id varchar(2)
IN_youtube_trending_data
video_id text
title text
publish_at timestamp
channel_id text
channel_title text
category_id int
trending_date timestamp
tags text
view_count int
likes int
dislikes int
comment_count int
thumbnail_link text
comments_disabled bool
ratings_disabled bool
description text
country_id varchar(2)
Categories
name text
category_id int
Countries
name text
country_id varchar(2)
KR_youtube_trending_data
video_id text
title text
publish_at timestamp
channel_id text
channel_title text
category_id int
trending_date timestamp
tags text
view_count int
likes int
dislikes int
comment_count int
thumbnail_link text
comments_disabled bool
ratings_disabled bool
description text
country_id varchar(2)
user_upload
video_id text
title text
publish_at timestamp
channel_id text
channel_title text
category_id int
trending_date timestamp
tags text
view_count int
likes int
dislikes int
comment_count int
thumbnail_link text
comments_disabled bool
ratings_disabled bool
description text
country_id varchar(2)
MX_youtube_trending_data
video_id text
title text
publish_at timestamp
channel_id text
channel_title text
category_id int
trending_date timestamp
tags text
view_count int
likes int
dislikes int
comment_count int
thumbnail_link text
comments_disabled bool
ratings_disabled bool
description text
country_id varchar(2)
RU_youtube_trending_data
video_id text
title text
publish_at timestamp
channel_id text
channel_title text
category_id int
trending_date timestamp
tags text
view_count int
likes int
dislikes int
comment_count int
thumbnail_link text
comments_disabled bool
ratings_disabled bool
description text
country_id varchar(2)
US_youtube_trending_data
video_id text
title text
publish_at timestamp
channel_id text
channel_title text
category_id int
trending_date timestamp
tags text
view_count int
likes int
dislikes int
comment_count int
thumbnail_link text
comments_disabled bool
ratings_disabled bool
description text
country_id varchar(2)
user
username text
user_id int
user_password text
dbdiagram.io

Application (website)

1. Main Idea
   In modern society, YouTube is one of the most popular worldwide platforms where streamers can upload videos and viewers can enjoy different kinds of content. Without a doubt, due to the large quantity of videos, every creator tries their best to provide attractive content and a lot of videos go viral every day. Therefore, we want to analyze the type or category of videos that are currently trending to predict the trends in different regions and provide a website for YouTube lovers to search for information. In addition, users can also update the information about the videos they love on the website.
2. Target
   We target the average YouTube enjoyer like you and I, who spend much of our free time watching videos. We hope that the website can help viewers find more interesting videos to watch and broaden their horizons. On the other hand, our website also provides a platform for YouTube channel analytics to visualize how trending videos rise and fall in different areas of the world.
4. Functionality (CRUD)
   a. Create: Create new video listings, including video links and categories. Users can also add new video categories or add new country categories.
   b. Read: Users can see what the current trending videos are under each category or country.
   c. Update: Users can update video links or categories to fit video themes better, or replace videos that might be removed.
   d. Delete: Users can delete video listings when videos have been deleted from YouTube.
5. Exception handling
   a. Invalid video ID: Search YouTube to check if the video is available online, if not, the user will not be able to upload the video listing.
   b. If a user updates a video that is not currently trending: we provide a new table or category to include the new video listing.
6. Interface
   Picture visualization included below:


Logo
Analyze
About
Update
Search
login
Country
Category
Two Steps Ahead
10,000 views
Best Meam Ever
views
The First Day in MC
views
Rick Roll
view
Never come again


Logo
Analyze
About
Update
Search
login
Signup
username:
password:
Login
Signup


Logo
Analyze
About
Update
Search
login
Signup
Video data upload :
Link:
Search
Title :
Viewcount:
Channel:
Current Date :
Thumbnail
Upload

Work plan

1. Time schedule
    a. 第10周~第12周
        i. 完成基本SQL操作
        ii. 完成database基本結構（挑選出來需要的column）
    b. 第12周~第14周
        i. 設計及修改使用者可能會用到的query
    c. 第14周後
        i. 完成展示用的網頁跟debug
2. Discussion
    a. HackMD
3. Repo
    a. GITHUB