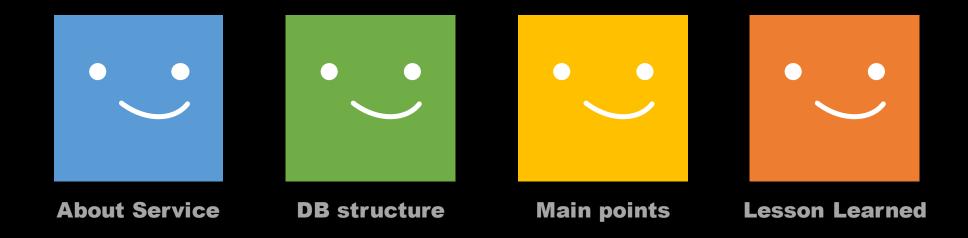


NETFLIX

Outline



START

About service

: Netflix Show Search Service

Python pandas for preprocess

MySQL for DB

Tkinter for GUI



Users Who we designed it for

- f you often use Netflix to watch movies
- If you often do not know what would be interesting to whatching
- If you are looking for a movie but you remember its director/genre/part of the name

Original CSV

Size of 12 x 8979 Show_id is StringType, changed to IntegerType

df['show_id'] = df['show_id'].apply(lambda x: int(x[1:]))

show_id 🔻	ype 🔻	title								
s1	Movie	Dick Joh								
s2	V Show	Blood &		show_id	type	title	director	cast	country	date_added
s3		Gangland	0	1	Movie	Dick Johnson Is	Kirsten	NaN	United	September
s4	TV Show	Jailbirds				Dead	Johnson		States	25, 2021
s5	TV Show	Kota Fac			TV	Blood &		Ama Qamata, Khosi Ngema,	South	September
s6	TV Show	Midnight	1	2	Show	Water	NaN	Gail Mabalane, Thaban	Africa	24, 2021
s7	Movie	My Little								
s8	Movie	Sankofa	2	3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi	NaN	September 24, 2021
s9	V Show	The Grea			SHOW		Leciercq	Samuel Jouy, Nabi		24, 2021
s10					ΤV	Jailbirds				September
s11	TV Show	Vendetta	3	4	Show	New Orleans	NaN	NaN	NaN	24, 2021
s12	™ Show	Bangkok								
s13	Movie	Je Suis K	4	5	TV Show	Kota Factory	NaN	Mayur More, Jitendra Kumar, Ranjan Raj, Alam K	India	September 24, 2021

*	duratio ₁	listed_in	description
	90 min	Documentaries	As her father nears the
	2 Seasons	International TV Shows, T	After crossing paths at a
	1 Season	Crime TV Shows, Internati	To protect his family from
	1 Season	Docuseries, Reality TV	Feuds, flirtations and toil
	2 Seasons	International TV Shows, R	In a city of coaching cen
	1 Season	TV Dramas, TV Horror, TV	The arrival of a charisma
	91 min	Children & Family Movies	Equestria's divided. But a
	125 min	Dramas, Independent Mov	On a photo shoot in Gha
	9 Seasons	British TV Shows, Reality	A talented batch of ama
	104 min	Comedies, Dramas	A woman adjusting to li-
	1 Season	Crime TV Shows, Docuser	Sicily boasts a bold "Ant
	1 Season	Crime TV Shows, Internati	Struggling to earn a living
	127 min	Dramas, International Mo	After most of her family

Original CSV

Many values in director, cast, country, listed_in

show_id 🔻	type 🔻	title 🔻	director	cast 🔻	country -	date_added	release_year	rating	duratio duratio duratio duratio duratio duratio duratio duratio duratio duratio duratio duratio durati	listed_in 🔻	description
s1	Movie	Dick Johnson Is Deac	Kirsten Johnson		United States	25-Sep-2	2020	PG-13	90 min	Documentaries	As her father nears the
s2	TV Show	Blood & Water		Ama Qamata, Khos	South Africa	24-Sep-2	202	TV-MA	2 Seasons	International TV Shows, 1	After crossing paths at a
s3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Trac	Gotoas, Samuel Jouy,	24-Sep-2	202	TV-MA	1 Season	Crime TV Shows, Internat	i <mark>To protect his family fro</mark>
s4	TV Show	Jailbirds New Orleans				24-Sep-2	202	TV-MA	1 Season	Docuseries, Reality TV	Feuds, flirtations and toi
s5	TV Show	Kota Factory		Mayur More, Jitenc	India	24-Sep-2	202	TV-MA	2 Seasons	International TV Shows, F	n a city of coaching cer
s6	TV Show	Midnight Mass	Mike Flanagan	Kate Siegel, Zach G	lford, Hamish Linklate	24-Sep-2	202	TV-MA	1 Season	TV Dramas, TV Horror, TV	The arrival of a charisma
s7	Movie	My Little Pony: A Ne	Robert Cullen, Jos찹	Vanessa Hudgens,	limiko Glenn, James M	24-Sep-2	202	l PG	91 min	Children & Family Movie	s <mark>Equestria's divided. But</mark> a
s8	Movie	Sankofa	Haile Gerima	Kofi Ghanaba, Oyat	United States, Ghana,	24-Sep-2	1993	3 TV-MA	125 min	Dramas, Independent Mo	On a photo shoot in Gh
s9	TV Show	The Great British Bak	Andy Devonshire	Mel Giedroyc, Sue	United Kingdom	24-Sep-2	202	1 TV-14	9 Seasons	British TV Shows, Reality	⁻ A talented batch of ama
s10	Movie	The Starling	Theodore Melfi	Melissa McCarthy,	United States	24-Sep-2	202	PG-13	104 min	Comedies, Dramas	A woman adjusting to li
s11	TV Show	Vendetta: Truth, Lies	and The Mafia			24-Sep-2	202	TV-MA	1 Season	Crime TV Shows, Docuse	r <mark>Sicily boasts a bold "Ant</mark>
s12	TV Show	Bangkok Breaking	Kongkiat Komesiri	Sukollawat Kanarot	Sushar Manaying, Pav	23-Sep-2	202	TV-MA	1 Season	Crime TV Shows, Internat	i <mark>Struggling to earn a livi</mark>
s13	Movie	Je Suis Karl	Christian Schwocho	Luna Wedler, Janni	Germany, Czech Repu	23-Sep-2	202	I TV-MA	127 min	Dramas, International Mo	After most of her family

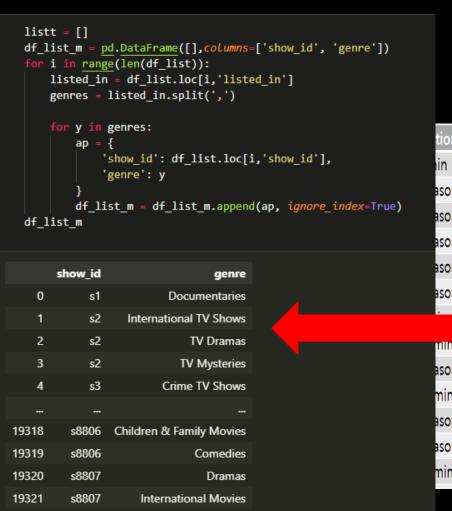
Preprocess

Separated director, cast, country, listed_in

19322

s8807

show_id 🔻	type 🔻	title	director	cast
s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	
s2	TV Show	Blood & Water		Ama Qaı
s 3	TV Show	Ganglands	Julien Leclercq	Sami Bou
s4	TV Show	Jailbirds New Orleans		
s5	TV Show	Kota Factory		Mayur M
s6	TV Show	Midnight Mass	Mike Flanagan	Kate Sieg
s7	Movie	My Little Pony: A Nev	Robert Cullen, Jos챕	Vanessa
s8	Movie	Sankofa	Haile Gerima	Kofi Gha
s9	TV Show	The Great British Baki	Andy Devonshire	Mel Gied
s10	Movie	The Starling	Theodore Melfi	Melissa 1
s11	TV Show	Vendetta: Truth, Lies a	and The Mafia	
s12	TV Show	Bangkok Breaking	Kongkiat Komesiri	Sukollaw
s13	Movie	Je Suis Karl	Christian Schwochov	Luna We

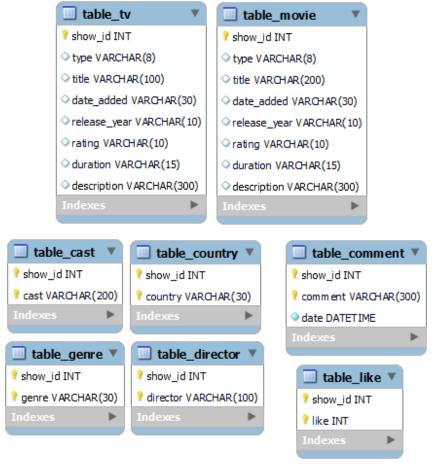


Music & Musicals

F	listed_in	1	description
	Documentaries	ı	As her father nears the
ns	International TV Shows	Ì	After crossing paths at a
n	Crime TV Shows, Intern	a	To protect his family fro
n	Docuseries, Reality TV	ı	Feuds, flirtations and toil
ns	International TV Shows		In a city of coaching cen
n	TV Dramas, TV Horror,	T	The arrival of a charisma
П	Children & Family Mov	iε	Equestria's divided. But a
ļ	Dramas, Independent N	10	On a photo shoot in Gh
ns	British TV Shows, Realit	y	A talented batch of ama
1	Comedies, Dramas	ı	A woman adjusting to li-
n	Crime TV Shows, Docus	e	Sicily boasts a bold "Ant
n	Crime TV Shows, Intern	a	iStruggling to earn a livir
ı	Dramas, International N	10	After most of her family

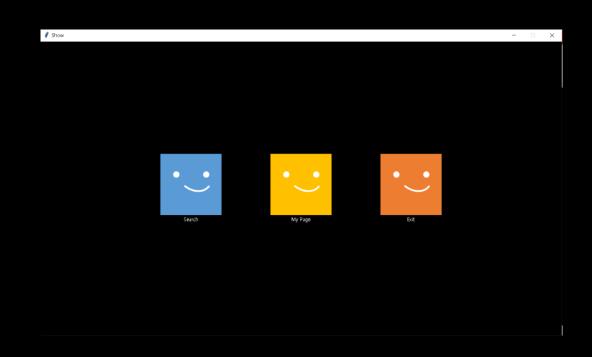
DB Model

Separated director, cast, country, listed_in



```
maketable = '''CREATE TABLE table Movie(
show id int not null primary key,
type varchar(8),
title varchar(200),
date added varchar(30),
release year varchar(10),
rating varchar(10),
duration varchar(15),
description varchar(300)
myCursor.execute("DROP TABLE IF EXISTS table Movie")
myCursor.execute(maketable)
mydb.commit()
    pd.read csv('MovieOnly.csv')
 for index, row in df.iterrows():
    tu = [row.show id, row.type, row.title, row.date added, row.release year, row.rating, row.duration, row.description]
    for i in tu:
        if(pd.isnull(i)):
            tu[tu.index(i)]=''
    myCursor.execute(
        """INSERT INTO table Movie (show_id,type,title,date_added,release_year,rating,duration,description)
    VALUES (%s,%s,%s,%s,%s,%s,%s,%s)"""
    ,tu)
    mydb.commit()
```

Main Points in our UI



1. SEARCH

Find the exact movie you want by searching and filtering.

2. EDITION

Users can change records as resources are added or subtracted

3.MY PAGE

Build your own movie collection

STEP1

- Type the key words
- Title, Director or Cast



STEP2

- Choose the country and Genre

In this situation, User wants to find movies which title has keyword 'happy' and Canada country and Comedies genre...

Option menu consisting of value in the prior output result table

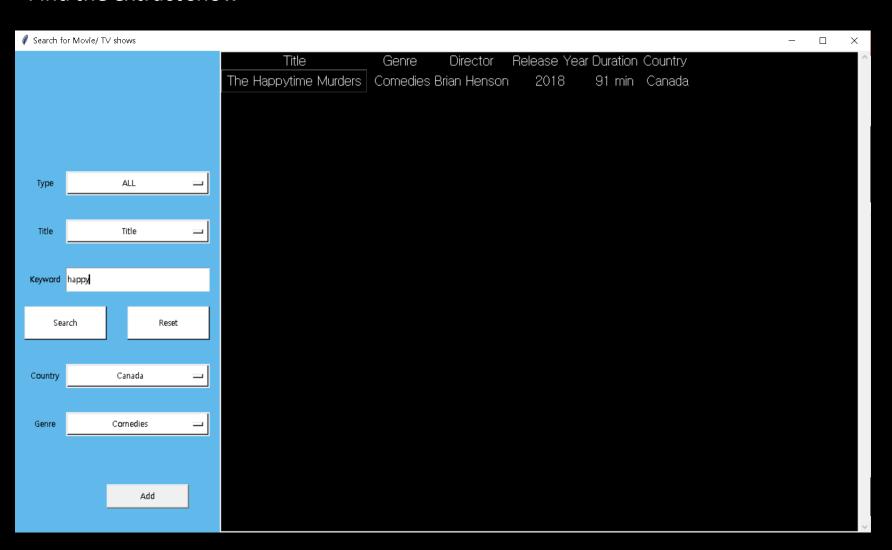


STEP3

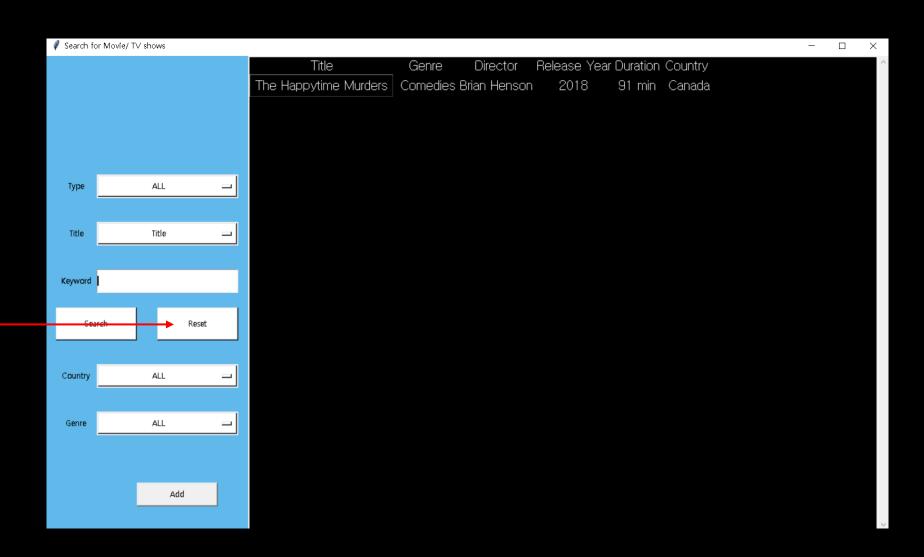
- Find the extract show

In this situation, User wants to find movies which title has keyword 'happy' and Canada country and Comedies genre...

Result

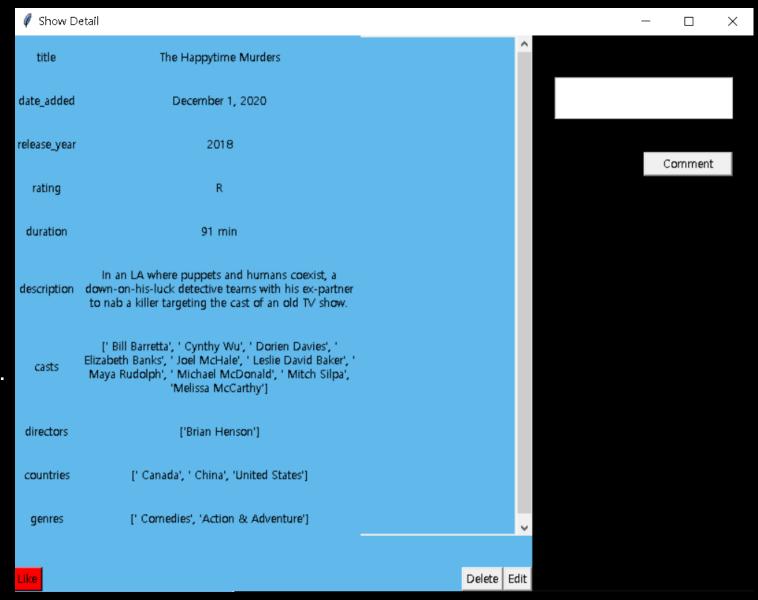


pressing the reset button makes to return all selected values back to their default values.



Specific information

When users click the title of the show in the table,
A page containing detailed information about the show appears.



2. EDITION

Users can change records as resources are added or subtracted



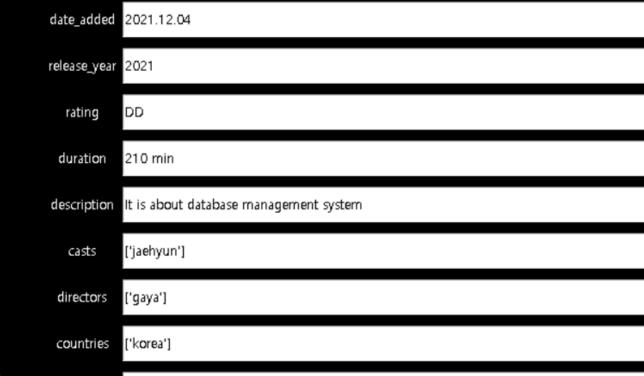
When new TV shows and movies are released, users can add program recordings



When some of the movies are not available for viewing due to copyright expiration, users can delete the records themselves



If the content of the record is incorrect, the record can be modified



Туре 🗀

Save

Add show

DBMS2

['comedies']

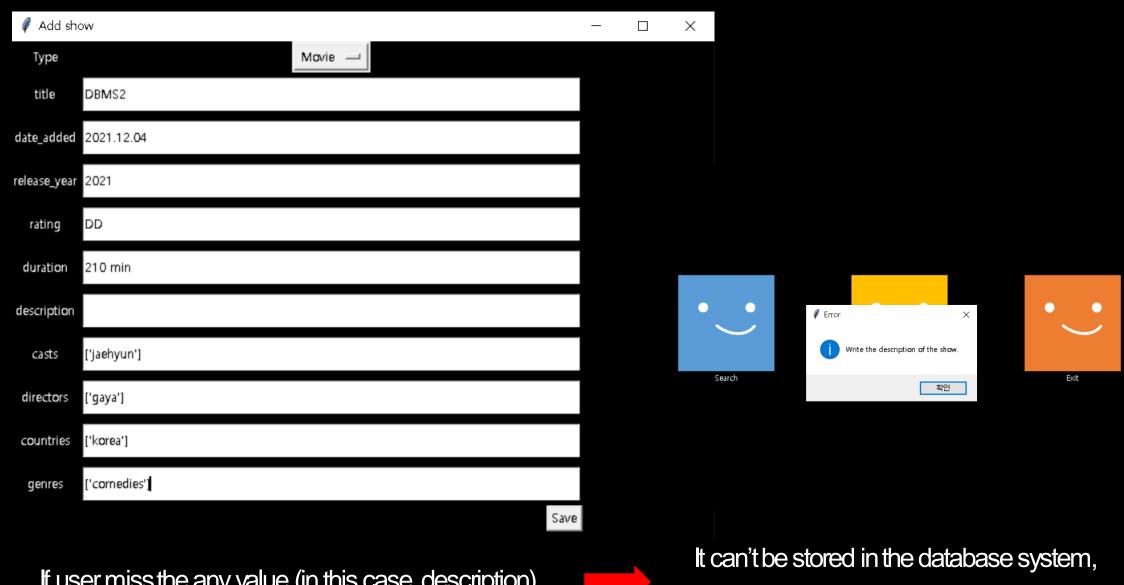
genres

Type

title



When new TV shows and movies are released, users can add program recordings



If user miss the any value (in this case, description)

and error message pop up



When some of the movies are not available for viewing due to copyright expiration, users can delete the records themselves



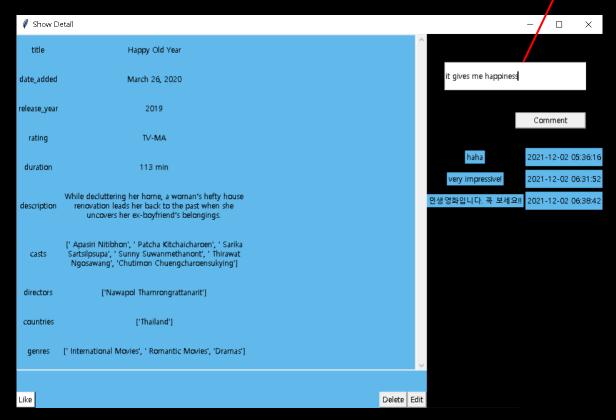


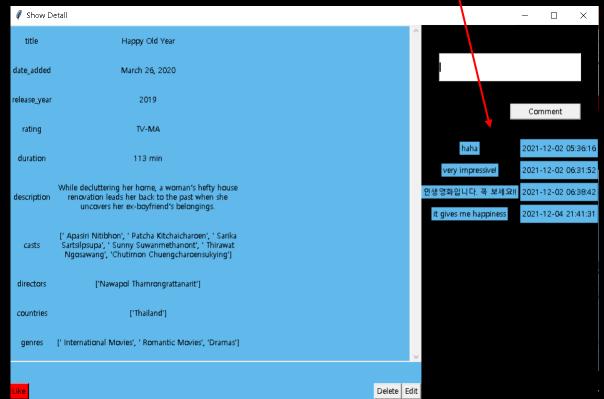


If the content of the record is incorrect, the record can be modified

3. MY PAGE

If user want to comment the show, they can write the comments and it is stored in the database

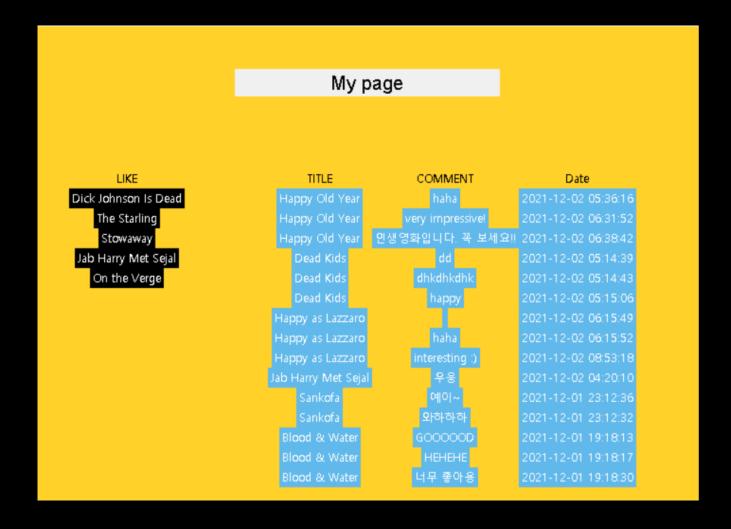




If user likes the show or want to save to see later, user could press the 'like button' and it is stored in the database.

If user press the button last time, it would be maintained.

3. MY PAGE Build your own movie collection



User can see the data of likes that user has pressed and comments that user has left before at a glance

What do we learned from this project:

It's a long way from learning a skill to applying it better.



Develop more features of the program

One of the first challenges we encountered was how to use the limited data to provide more services to our customers. With different query methods, data can be used in different combinations to solve various problems. In order to design a logical and reasonable way to query data, we tried to look at data from multiple perspectives. For example, the viewer perspective for finding movie information, the developer perspective for studying the characteristics of Netflix content.



Generate more interest of people

The second problem we encountered was how we could make our customers happy with the results of their queries. This involves the amount of information that needs to be presented in each layer of the query, and the need to make the customer confirm that the result is what they specified as much as possible within the amount of information that is as concise as possible, and to be able to explain the target content clearly at the same time, which is something worth thinking about



Explore more possibilities of data

Exploring more possibilities in limited data is the third challenge we encountered. By designing different types of data query patterns, providing users with the possibility of secondary data development through different combinations of data, and finally being able to find more value from the data, is also one of the things we have repeatedly thought about.

Thank you for listening