

Movie & Series picker

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Before we start:

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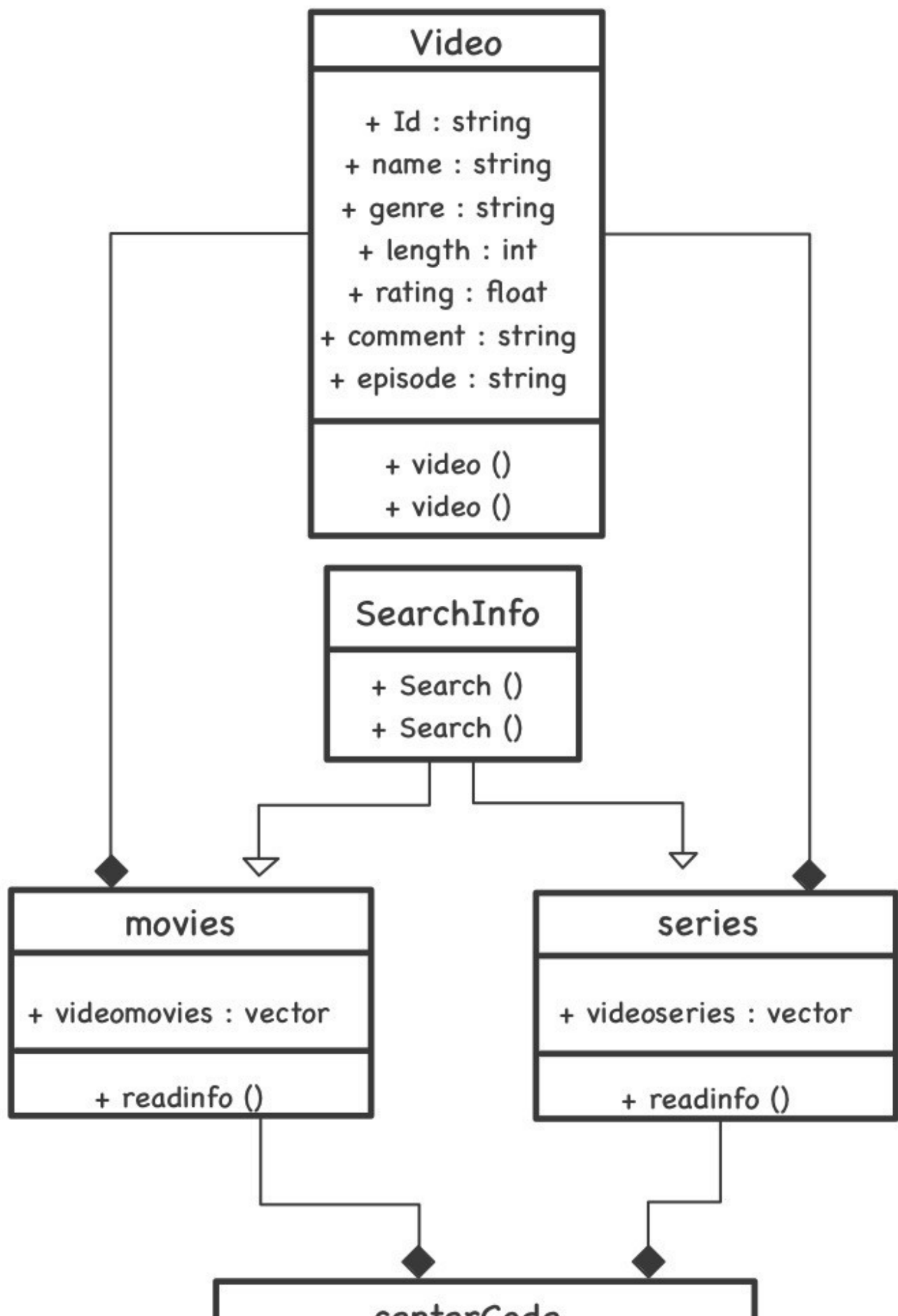
Introduction

During the last years, the technology has evolved to the point of being able to find any type of information with a single click; from personal data, photographs, movies, series, etc.

For their part, streaming services are increasingly complex, being able to predict a person's tastes and hobbies through search history, and thus being able to offer accurate options for each person in particular.

In order to offer a quick and simple search, a search system has been designed according to the interests specified by the user, analyzing the database from the genre or even the rating.

UML class diagram



```
+ mainLoop ()  
+ searchMovie ()  
+ print ()  
+ edit ()  
+ printOptionsAndWaitAnswer ()
```

Explanation

It all starts on the main program, which creates a mainClass `centerCode`. This class is in charge of running the main loop, which calls a function that asks what to do. This redirects to all the appropriate functions, calling what is necessary in order to work properly.

All the helper functions are located outside of the class, on namespace media, including classes for videos, series, and movies.

At the top, there is video, which is the core on what everything is designed on. Video is the main way different variables communicate, from printing searching, and saving. `centerCode` calls different functions with their appropriate parameters, and expects a result from them, mostly by handling arrays of videos, and giving parameters to make them work properly.

Movies and Series are practically the same, although the key difference is the way they handle videos, by giving them different parameters.

Execution example

Welcome to the GREAT movie selector!
We hope you enjoy our work.

SELECTION MENU

Please choose one of the following options

- 1)Refresh file list.
- 2)Show all
- 3)Search videos by genre/rating
- 4)Show series episodes by rating
- 5)Search movies by rating
- 6)rate a video
- 7)Exit

>>> 2

ID	EPISODE	NAME	GENRE	DURATION	RATING	COMMENT
A01	N/A	Vidas de Papel	Drama	120 2	Good movie	
A02	N/A	Perfume de Mujer	Drama	136 5	Nice	
A03	N/A	Cuestion de Tiempo	Drama	110 3	So nice	
A04	N/A	Los Hijos de la Calle	Drama	146 4	So so	
A05	N/A	El Juez	Drama	140 5	Not bad	
A06	N/A	Atrapame si Puedes	Drama	121 5	It's bad	
A07	N/A	Rompe el Paso	Drama	160 3	Very long	
A08	N/A	Milagro de la Celda 7	Drama	120 5	Saad end	
A09	N/A	Room	Drama	136 2	Very well	
A10	N/A	Amigos de Armas	Drama	110 2	Good movie	
A11	N/A	Tirador	Action	146 3	Nice	
A12	N/A	Hacker	Action	140 4	So nice	
A13	N/A	El Ascenso	Action	121 5	So so	
A14	N/A	Enola Homes	Action	160 1	Not bad	
A15	N/A	Hasta el Cielo	Action	120 4	It's bad	
A16	N/A	La Vieja Guardia	Action	136 5	Very long	
A17	N/A	12 hours	Action	110 2	Saad end	
A18	N/A	Anaconda	Action	146 3	Very well	
A19	N/A	Escuadron 6	Action	140 5	Good movie	
A20	N/A	Fuerza Trueno	Action	121 4	Nice	
A21	N/A	Descuida Yo te Cuido	Mystery	160 3	So nice	
A22	N/A	Corre	Mystery	120 2	So so	
A23	N/A	Caracortada	Mystery	136 5	Not bad	
A24	N/A	El Hoyo	Mystery	110 2	It's bad	
A25	N/A	Contratiempo	Mystery	146 2	Very long	
A26	N/A	Fragmentado	Mystery	140 1	Saad end	
A27	N/A	La Isla Siniestra	Mystery	121 4	Very well	
A28	N/A	Hannibal	Mystery	160 5	Nice	
A29	N/A	El Juego	Mystery	125 3	So nice	
A30	N/A	Bajo Instintos	Mystery	167 4	So so	

ID	EPISODE	NAME	GENRE	DURATION	RATING	COMMENT
A50	N/A	eps1	hellofriend.mov	Drama 50	4	Good
A50	N/A	eps2	ones-andzer0es.mpeg	Drama 50	4	Nice
A50	N/A	eps3	unm4sk-pt1.tc	Drama 50	4	So nice
A50	N/A	eps4	unm4sk-pt2.tc	Drama 50	4	So so
A53	N/A	eps1	El cyborg solitario	Drama 45	3	Not bad
A53	N/A	eps2	El cientifico obsesivo	Drama 45	3	It's bad
A53	N/A	eps3	El ninja moderno	Drama 45	2	Very long
A53	N/A	eps4	El ultimo discipulo	Drama 45	3	Saad end
A53	N/A	eps5	El dominador del universo	Drama 45	4	Very well
A57	N/A	Cumplea vera	Drama 45	5	Good	
A57	N/A	Victimas	Action 45	3	Nice	
A57	N/A	Tontos	Action 45	4	So nice	
A57	N/A	Noche de Escuela	Action 45	5	So so	
A57	N/A	Cara a Cara	Action 45	5	Not bad	
A55	N/A	Kimmy goes roller skating!	Action 60	3	It's bad	
A55	N/A	Kimmy goes on a playdate!	Action 60	3	Very long	
A55	N/A	Kimmy goes to a play!	Action 60	3	Saad end	
A55	N/A	Kimmy kidnaps Gretchen!	Action 60	3	Very well	
A55	N/A	Kimmy gives up!	Action 60	3	Good	
A54	N/A	The Bad Batch	Action 57	4	Nice	
A54	N/A	A Distant Echo	Mystery 57	3	So nice	
A54	N/A	On the Wings of Keeradaks	Mystery 57	4	So so	
A54	N/A	Unfinished Business	Mystery 57	4	Not bad	
A54	N/A	Gone with a Trace	Mystery 57	4	It's bad	
A58	N/A	The Rains of Castamere	Mystery 40	4	Very long	
A58	N/A	Hardhome	Mystery 40	4	Saad end	
A58	N/A	Battle of the Bastards	Mystery 40	4	Very well	
A58	N/A	The Winds of Winter	Mystery 40	4	Nice	
A58	N/A	The Spoils of War	Mystery 7	4	So nice	

SELECTION MENU

Please choose one of the following options

- 1)Refresh file list.
- 2)Show all
- 3)Search videos by genre/rating
- 4)Show series episodes by rating
- 5)Search movies by rating
- 6)rate a video
- 7)Exit

>>> 3

What would you like to search for?

- 1) Genre
- 2) Rating

>>>1

What Genre do you wish to search for?

>>>Drama

ID	EPISODE	NAME	GENRE	DURATION	RATING	COMMENT
A01	N/A	Vidas de Papel	Drama	120 2	Good	movie
A02	N/A	Perfume de Mujer	Drama	136	5	Nice
A03	N/A	Cuestion de Tiempo	Drama	110	3	So nice
A04	N/A	Los Hijos de la Calle	Drama	146	4	So so
A05	N/A	El Juez	Drama	140 5	Not bad	
A06	N/A	Atrapame si Puedes	Drama	121	5	It's bad
A07	N/A	Rompe el Paso	Drama	160 3	Very long	
A08	N/A	Milagro de la Celda 7	Drama	120 5	Saad end	
A09	N/A	Room	Drama	136 2	Very well	
A10	N/A	Amigos de Armas	Drama	110 2	Good	movie
A50	N/A	eps1 hellofriend.mov	Drama	50	4	Good
A50	N/A	eps2 ones-andzer0es.mpeg	Drama	50	4	Nice
A50	N/A	eps3 un4sk-pt1.tc	Drama	50	4	So nice
A50	N/A	eps4 un4sk-pt2.tc	Drama	50	4	So so
A53	N/A	eps1 El cyborg solitario	Drama	45	3	Not bad
A53	N/A	eps2 El cientifico obsesivo	Drama	45	3	It's bad
A53	N/A	eps3 El ninja moderno	Drama	45 2	Very long	
A53	N/A	eps4 El ultimo discipulo	Drama	45 3	Saad end	
A53	N/A	eps5 El dominador del universo	Drama	45 4	Very well	
A57	N/A	Cumplea/era	Drama	45 5	Good	

SELECTION MENU

Please choose one of the following options

- 1)Refresh file list.
- 2)Show all
- 3)Search videos by genre/rating
- 4)Show series episodes by rating
- 5)Search movies by rating
- 6)rate a video
- 7)Exit

>>> 4

What Rating do you want to search for in series?

>>>3

ID	EPISODE	NAME	GENRE	DURATION	RATING	COMMENT
A53	N/A	eps1 El cyborg solitario	Drama	45	3	Not bad
A53	N/A	eps2 El cientifico obsesivo	Drama	45	3	It's bad
A53	N/A	eps4 El ultimo discipulo	Drama	45	3	Saad end
A57	N/A	Victimas	Action	45	3	Nice
A55	N/A	Kimmy goes roller skating!	Action	60	3	It's bad
A55	N/A	Kimmy goes on a playdate!	Action	60	3	Very long
A55	N/A	Kimmy goes to a play!	Action	60	3	Saad end
A55	N/A	Kimmy kidnaps Gretchen!	Action	60	3	Very well
A55	N/A	Kimmy gives up!	Action	60	3	Good
A54	N/A	A Distant Echo	Mystery	57	3	So nice

SELECTION MENU

Please choose one of the following options

- 1)Refresh file list.
- 2)Show all
- 3)Search videos by genre/rating
- 4)Show series episodes by rating
- 5)Search movies by rating
- 6)rate a video
- 7)Exit

>>> 5

What Rating do you want to search for in movies?

>>>5

ID	EPISODE	NAME	GENRE	DURATION	RATING	COMMENT
A02	N/A	Perfume de Mujer	Drama	136	5	Nice
A05	N/A	El Juez	Drama	140	5	Not bad
A06	N/A	Atrapame si Puedes	Drama	121	5	It's bad
A08	N/A	Milagro de la Celda 7	Drama	120	5	Saad end
A13	N/A	El Ascenso	Action	121	5	So so
A16	N/A	La Vieja Guardia	Action	136	5	Very long
A19	N/A	Escuadron 6	Action	140	5	Good movie
A23	N/A	Caracortada	Mystery	136	5	Not bad
A28	N/A	Hannibal	Mystery	160	5	Nice


```

    4)Show series episodes by rating
    5)Search movies by rating
    6)rate a video
    7)Exit
>>> 6
What title do you want to change?
>>>Perfume de Mujer
Edit (0) Movie/ (1) Series
>>>0
What is your rating?
>>>4
What comment do you want to leave?
>>>Okay I guess
Changes saved!SELECTION MENU
Please choose one of the following options
    1)Refresh file list.
    2)Show all
    3)Search videos by genre/rating
    4)Show series episodes by rating
    5)Search movies by rating
    6)rate a video
    7)Exit
>>> 5
What Rating do you want to search for in movies?
>>>4
ID      |EPISODE      |NAME      |GENRE      |DURATION      |RATING |COMMENT
A02     N/A      Perfume de Mujer      Drama      136      4      Okay I guess
A04     N/A      Los Hijos de la Calle Drama      146      4      So so
A12     N/A      Hacker Action      140      4      So nice
A15     N/A      Hasta el Cielo Action      120      4      It's bad
A20     N/A      Fuerza Trueno Action      121      4      Nice
A27     N/A      La Isla Sinistra      Mystery      121      4      Very well
A30     N/A      Bajo Instintos Mystery      167      4      So so
SELECTION MENU
Please choose one of the following options
    1)Refresh file list.
    2)Show all
    3)Search videos by genre/rating
    4)Show series episodes by rating
    5)Search movies by rating
    6)rate a video
    7)Exit
>>> 7
Exiting... Hope to see you soon! c:

```

Why we took this approach

The main reason why we took this approach, is because the way this is built means that anything can be edited, and it will still work correctly. We took many precautions to build everything modularly, that we, we can reuse code where needed, we can edit things without breaking other

things, and most importantly, we could collaborate better.

We used namespaces and classes to make a difference in different parts of the code, ones where more tool focused, while the others where more user focused.

To add on top of this, many classes where used as holders, or as ways to enhance other classes, such as video, that was used to store from one to many videos all at once.

The code is also built in a way that can really take in any amount of movies, searches for many things are possible (but not active since it was not required), and an extra option to help with corrupted data was added.

Finally, in case this should be improved upon, lots of commenting was done, using Oxygen, to facilitate the reading by others.

Cases where there is an error

We found that if the CSV file is not correct, it will fail.

Other errors include OS errors, and permission errors (i.e. not enough privileges to read file) that land far from our scope.

Otherwise, it is a pretty resilient piece of code, correct error try and catch is handled, with care to explain what happened.

Vigorous tests have been done, including random inputs.

Conclusions

While a small challenge, it was fun trying to figure out all the challenges, to make the UI as intuitive as possible, while still holding reach features that can satisfy and go over what was required in the assignment.

Overall, it was a small little project that while might not be very useful on the real world, it does help with many proof of concept

References

All code was built and designed by us.