Moogle

A simple Movie Search Engine

Features

Advance Searching

a customizable search using Title, Tags, Years, and Rating with selective range by Combining these Commands

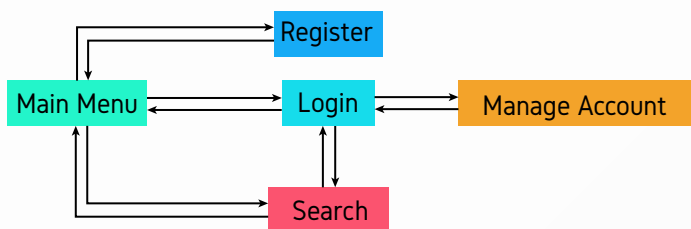|	Command	Meaning	Purpose	Usage
Basic Commands	-m	Title	to search by Title	-m <Title>
	-t	Tag	to search by Tags	-t <aux> <Tag1>,<Tag2> <aux2> <Tag3>,<Tag4>
	-y	Year	to search by Year	-y <aux> <Year>
	-r	Rating	to search by Rating	-r <aux> <Rating>
Auxiliary Commands	/i	Include	to include Tags	-t /i <Tag1>,<Tag2>
	/x	Exclude	to exclude Tags	-t /x <Tag1>,<Tag2>
	=	Equal	to get Exact Value	-y = <Year> or -r = <Rating>
	<	Less Than	to get less than or equal	-y < <Year> or -r < <Rating>
	>	More Than	to get more than or equal	-y > <Year> or -r > <Rating>
	|	Between	to get from ... to	-y | <Year>,<Year> or -r | <Rating>,<Rating>

UserAccounts

a system to rate your favourite movie

For the predefined User password is "root"

Improved UI

a Retro CMD program easy to use

Register

Main Menu — Login — Manage Account

Search

No more Input Error

Controlled by "MoogleIOController.class" new way to shorten and control input stream

Controlled Menu Selection	Char	Int	
Controlled Text Input:	Line	Sub String	
Controlled UI:	Spacing bewteen Page		Seperator Line

Security

Protect Password with MD5 Encryption

n-Level Searching

Search can be done again and again

Classes Change

User
```
    int: userID
+ String: userName
+ String: password
```

Movie
```
int: movieID
String: title
int: year
Set<String>: tags
Map<Integer,Rating>: ratings
double: avgRating
```

Rating
```
Movie: m
User: u
double: rating
long: timestamp
```

Moogle

Main class to start the program (MoogleS).

MoogleS

This Class read the movie, rating, user data if the data exsist then show navigation to register, login, search page.

This Class also write the movie, rating, user data right before the program terminated.

MoogleRegister

This Class let user to register their account with userID and password.

MoogleLogin

This Class let user to login to the system only if userID and password are matched to the loaded data

MoogleHome

This Class let user to navigate to edit user's profile (MoogleAccountManager) or search movie (MoogleSearchEngine)

MoogleSearchEngine

This Class let user search the loaded movie by combining the given commands located in the first page

MoogleAccountManager

This Class let user edit his profile username and change his password

MoogleIOController

This Class only recive input from user if any class need inpput from user, that class must call a reading method from this class.

This Class also print spacing and section seperator

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Test Cases and Output

all possible test cases are provided in TestCases.txt file   (if checked there will be a comment "//OK")

Case 1

" Search for movie which Title contain "the" Year from 2010 to 2012 with Drama tags but not contain Comedy tag and rating more than 4.0"

Commands: -m the -y | 2012,2010 -t /x Comedy /i Drama -r > 4.0

Results

[0] [mid: 88125:Harry Potter and the Deathly Hallows: Part 2 (2011) [Action, Adventure, Drama, Fantasy, IMAX, Mystery]] -> avg rating: 4.053571428571429
[1] [mid: 88810:Help, The (2011) [Drama]] -> avg rating: 4.0
[2] [mid: 90738:Double, The (2011) [Action, Drama, Thriller, Crime, Mystery]] -> avg rating: 4.0

Case 2

"   Search for movie which Year is 2010 with Thriller or Adventure tags but not contain War or Mystery tag and rating more than 4.0"

Commands: -y = 2010 -t /i Thriller,Adventure /x Mystery,War -r > 4.0

Results

[0] [mid: 84189:I Spit on Your Grave (2010) [Horror, Thriller, Crime]] -> avg rating: 4.0
[1] [mid: 102275:Afflicted, The (2010) [Horror, Thriller]] -> avg rating: 4.5
[2] [mid: 86244:Easy Money (Snabba Cash) (2010) [Action, Thriller]] -> avg rating: 4.0
[3] [mid: 87079:Trust (2010) [Drama, Thriller]] -> avg rating: 4.0
[4] [mid: 90421:Brighton Rock (2010) [Drama, Thriller, Crime]] -> avg rating: 4.0
[5] [mid: 78499:Toy Story 3 (2010) [Adventure, Fantasy, Animation, IMAX, Comedy, Children]] -> avg rating: 4.142857142857143
[6] [mid: 79860:Experiment, The (2010) [Drama, Thriller]] -> avg rating: 4.0

Case 3

"   Search for movie which Title contain dad which not older than 1990 and rating less than 4.0"

Commands: -m dad -y > 1990 -r < 4.0

Results

[0] [mid: 460:Getting Even with Dad (1994) [Comedy]] -> avg rating: 2.75
[1] [mid: 51082:Tyler Perry's Daddy's Little Girls (2007) [Romance, Comedy]] -> avg rating: 3.5
[2] [mid: 2694:Big Daddy (1999) [Comedy]] -> avg rating: 2.965909090909091
[3] [mid: 70355:Daddy Nostalgia (Daddy Nostalgie) (1990) [Drama]] -> avg rating: 2.5
[4] [mid: 71429:World's Greatest Dad (2009) [Drama, Comedy]] -> avg rating: 3.25
[5] [mid: 6338:Daddy Day Care (2003) [Comedy, Children]] -> avg rating: 3.0
[6] [mid: 58351:City of Men (Cidade dos Homens) (2007) [Drama]] -> avg rating: 3.75
[7] [mid: 26686:Ghost Dad (1990) [Fantasy, Comedy]] -> avg rating: 1.0
[8] [mid: 111732:Dance of Reality, The (Danza de la realidad, La) (2013) [Drama, Fantasy]] -> avg rating: 4.0
[9] [mid: 49110:Mom and Dad Save the World (1992) [Sci-Fi, Comedy]] -> avg rating: 1.75