

HACETTEPE UNIVERSITY
DEPARTMENT OF COMPUTER ENGINEERING
BBM104



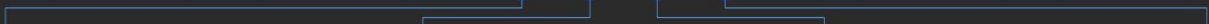
Name-Surname : Mustafa Çağrı KORKMAZ

Student ID : 2200356833

E-Mail : b2200356833@cs.hacettepe.edu.tr

Subject : Programming Assignment 2

Files	
directors	String
performers	String
allFilms	ArrayList<Films>
Files(String, String, String, String, int, String, String)	
artistIDList(String)	ArrayList<String>
artistNames(ArrayList<String>)	String
addFilms(String, String, String, String, int, String, String)	void
getAllFilms()	ArrayList<Films>
rate(String, Films, int)	void
edit(String, Films, int)	void
remove(String, Films)	void
rateChange(Films)	void
numberOfUser	int
title	String
language	String
country	String
uniqueID	String
runtime	int
rating	double
userPoints	LinkedHashMap<String, Integer>
ouRating	String



Series	
startDate	String
endDate	String
writers	String
seriesMap	LinkedHashMap<String, Series>
sortedByPoint	LinkedHashMap<String, Double>
Series(String, String, String, String, int, String, String, String, String, String, String, String)	
addSeries(String, String, String, String, String, int, String, String, String, String, String, String, String)	void
rate(String, Films, int)	void
edit(String, Films, int)	void
remove(String, Films)	void
rateChange(Films)	void
getSeriesMap()	LinkedHashMap<String, Series>
getSortedByPoint()	LinkedHashMap<String, Double>
sorting()	void
startEnd	String
directorNames	String
numberOfSeason	String
numberOfEpisode	String
writerNames	String
starsNames	String
genre	String

ShortFilm	
date	String
writers	String
shortFilmMap	LinkedHashMap<String, ShortFilm>
sortedByPoint	LinkedHashMap<String, Double>
ShortFilm(String, String, String, String, int, String, String, String, String)	
addShortFilm(String, String, String, String, int, String, String, String, String)	void
rate(String, Films, int)	void
edit(String, Films, int)	void
remove(String, Films)	void
rateChange(Films)	void
getShortFilmMap()	LinkedHashMap<String, ShortFilm>
getSortedByPoint()	LinkedHashMap<String, Double>
sorting()	void
directorNames	String
writerNames	String
year	String
starsNames	String
genre	String

FeatureFilm	
date	String
budget	String
writers	String
featureFilmMap	LinkedHashMap<String, FeatureFilm>
sortedByPoint	LinkedHashMap<String, Double>
FeatureFilm(String, String, String, String, int, String, String, String, String)	
addFeatureFilm(String, String, String, String, int, String, String, String, String, String)	void
addMethod(String, String, String, String, int, String, String, String, String, String)	String
rate(String, Films, int)	void
edit(String, Films, int)	void
remove(String, Films)	void
rateChange(Films)	void
getFeatureFilmMap()	LinkedHashMap<String, FeatureFilm>
getSortedByPoint()	LinkedHashMap<String, Double>
sorting()	void
directorNames	String
writerNames	String
compareDate	int
year	String
starsNames	String
genre	String

Documentary	
date	String
documentaryMap	LinkedHashMap<String, Documentary>
sortedByPoint	LinkedHashMap<String, Double>
Documentary(String, String, String, String, int, String, String, String)	
addDocumentary(String, String, String, String, int, String, String, String)	void
rate(String, Films, int)	void
edit(String, Films, int)	void
remove(String, Films)	void
rateChange(Films)	void
getDocumentaryMap()	LinkedHashMap<String, Documentary>
getSortedByPoint()	LinkedHashMap<String, Double>
sorting()	void
directorNames	String
year	String
starsNames	String

Person	
Person(String, String, String, String)	
name	String
country	String
uniqueID	String
surname	String

User	
userMap	LinkedHashMap<String, User>
User(String, String, String, String)	
addUser(String, String, String, String)	void
getUserMap()	LinkedHashMap<String, User>
addRatedFilms(String, int)	void
removeRatedFilms(String)	void
ratedFilms	LinkedHashMap<String, Integer>

Artist	
allArtists	LinkedHashMap<String, String>
Artist(String, String, String, String)	
addArtist(String, String)	void
getAllArtists()	LinkedHashMap<String, String>

Director	
directorMap	LinkedHashMap<String, Director>
Director(String, String, String, String, String)	
addDirector(String, String, String, String, String)	void
getDirectorMap()	LinkedHashMap<String, Director>
agent	String

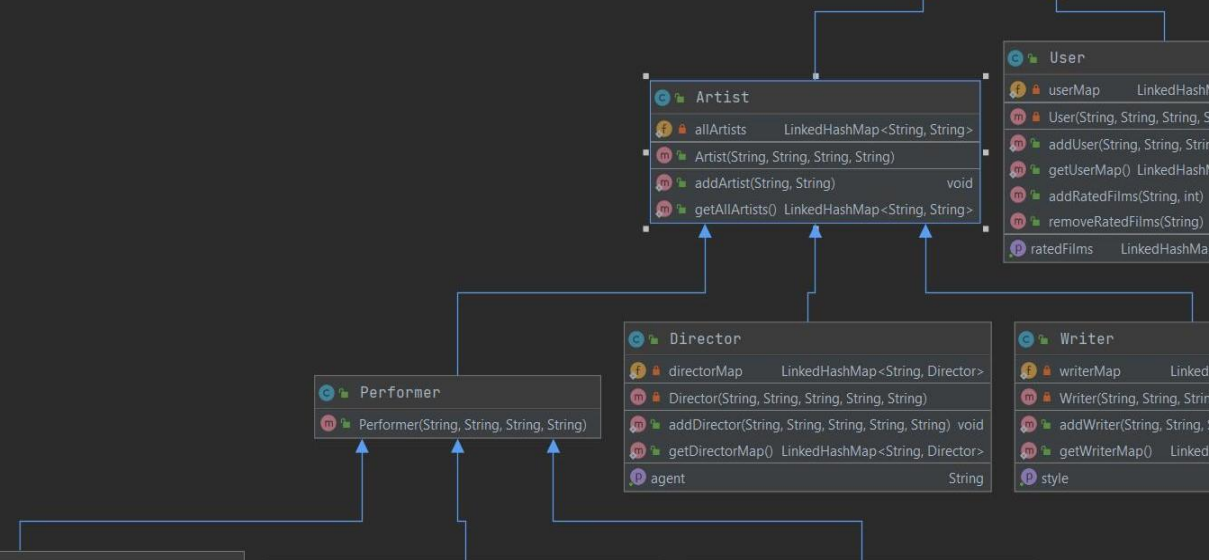
Writer	
writerMap	LinkedHashMap<String, Writer>
Writer(String, String, String, String, String)	
addWriter(String, String, String, String, String)	void
getWriterMap()	LinkedHashMap<String, Writer>
style	String

Performer	
Performer(String, String, String, String)	

StuntPerformer	
stuntPerformerMap	LinkedHashMap<String, StuntPerformer>
StuntPerformer(String, String, String, String, String, String, String)	
addStuntPerformer(String, String, String, String, String, String, String)	void
getStuntPerformerMap()	LinkedHashMap<String, StuntPerformer>
realActorID	String
height	String

ChildActor	
childActorMap	LinkedHashMap<String, ChildActor>
ChildActor(String, String, String, String, String)	
addChildActor(String, String, String, String, String)	void
getChildActorMap()	LinkedHashMap<String, ChildActor>
age	String

Actor	
actorMap	LinkedHashMap<String, Actor>
Actor(String, String, String, String, String)	
addActor(String, String, String, String, String)	void
getActorMap()	LinkedHashMap<String, Actor>
height	String



SOLUTION

I have used inheritance and properties of the access modifiers to figure out this assignment. Firstly, I have started from the backend side and created all class files. Then, I have created all fields and methods of the classes according to their requirements. Secondly, I have coded the reading and writing txt file codes in the Main class.

When I was creating the objects of the classes, I have added them to the static LinkedHashMap of their classes (User, Director, Writer, Actor, ChildActor, StuntPerformer, ShortFilm, FeatureFilm, Documentary, Series). Furthermore, When I was creating new objects in subclasses of the Films and Artist classes, I have created Films and Artist objects and added them to the static allFilms ArrayList and static allArtist LinkedHashMap at the same time, respectively. Therefore, I both have broken the problem into the pieces and have created general collections to reach all objects at the same time. Almost all fields of the classes are final fields because they will not be changed. Additionally, while I have used private access modifiers for all fields of the classes, I have used public access modifiers for the methods of the classes.

COMMENTS

In this assignment, we had to control so many conditions at the same time. We had to create several objects and assign their specific properties to their variables correctly. When I was doing this, I have used so many if-else conditions and a lot of methods that are connected to each other. Although constraints made easier the assignment for us, I have struggled with this situation to manage all of the code properly. Therefore, I have obtained new skills to manage this kind of complex problem. Also, I have consolidated my knowledge about inheritance and access modifiers thanks to this assignment.

REFERENCES

<https://www.geeksforgeeks.org/>

<https://stackoverflow.com/>

<https://www.udemy.com/course/java-the-complete-java-developer-course/>

Lecture Notes Of BBM102