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Tuesday Lab Section 11

Project 3 Preliminary Design

Nouns (Classes and Variables)
Movie – Class
- Movie title
- Release year/Roman numeral
- Format
- Release year

Series – Class
- Series title
- Series start year
- Range it has aired

Episode – Class
- Series title
- Start year
- Episode title and season if specified (in curly braces)
- Broadcast year

Driver – Class
- Main method
- Variable that holds file name
- User's response to questions
- Variable that holds the desired file to save user data

Database – Class
- All search functions for all searchable classes
- Serializable functions
- Graphic Display

MediaMakers – Abstract
- Last name
- First name
- Acting credit
  - name of the series
  - by the year that the series first aired in parentheses
  - episode name and/or parenthetical episode number
  - parenthetical notes about this credit,
  - role the actor played
  - billing order

Actors –Class
- acting Credits
- get and set methods

ProducersandDirectors – Class
- acting Credits
- get and set methods
-

Verbs (Methods)
- Read text or binary data
- Parse movie file
- Parse series and episode file
- CompareTo() method
- Compare() method
- Save user data to an output file
- Take data and add to the database

Adjectives (Interfaces)
- Comparator
- Comparable
- Serializable

UML for Project 3

Movie
- romanNumeral: String
- format: String

+ Movie()

+ setMovieTitle(movieTitle:String)
+ setRomanNumeral(romanNumeral:String)
+ setFormat(format:String)
+ setReleaseYear(releaseYear:String)
+ getMovieTitle(): String
+ getRomanNumeral(): String
+ getFormat(): String
+ getReleaseYear(): String

Driver
+ database: List
+ fileName: String
+ userResponse
+ userSaveDataFile

+ main(args: String[])
+ graphicsDisplay()

«interface»
Serializable

Implements

Driver has a Databse

«interface»
Compareable

Implements

«interface»
Comparator

Implements

0..n

Database
- makers: LinkedHashMap<MediaMakers>
- media: ArrayList<Media>

+ addMedia(media:Media)
+ addMovieMaker(maker:MovieMaker)
+ readFile()
+ writeFile()
+ searchMovie(title:String)
+ searchSeries(title:String)
+ searchMovieMakers(title:String)

Media
+ title:String
year:String
name

+ Media()
+ setTitle(title:String)
+ setYear(year:String)
+ getTitle():String
+ getYear():String

Series
- rangeAired: String

+ Series(title:String,year:String, rangeAired: String)
+ setSeriesTitle(seriesTitle:String)
name
+ setStartYear(startYearl:String)
+ setRangeAired(rangeAired:String)
+ getSeriesTitle(): String
+ getStartYear(): String
+ getRangeAired(): String

MediaMakers
nameName:String
- firstName: String

DirectorsAndProducers()
+ setLastName(lastName:String)
+ setFirstName(firstName:String)
+ getLasttName():String
+ getFirstName():String

Episode
- startYear: String
- episodeTitleAndSeason:String
- broadcastYear: String

+ Episode()

+ setEpisodeTitleAndSeason(episodeTitleAndYear:S
+ setBroadcastYear(setBroadcastYear:String)
+ getSeriesTitle(): String
+ getStartYear(): String
+ getEpisodeTitleandSeason(): String
+ getBroadcastYear(): String

DirectorsAndProducers
- actingCredits:String

Actors()
+ setActingCredits(actingCredits:String)
+ getActingCredits():String

Actors
name
- actingCredits:String

Actors()
+ setActingCredits(actingCredits:String)
+ getActingCredits():String