ΠΑΝΕΠΙΣΤΗΜΙΟ ΙΩΑΝΝΙΝΩΝ

ΤΜΗΜΑ ΜΗΧ. Η/Υ & ΠΛΗΡΟΦΟΡΙΚΗΣ

ΑΝΑΠΤΥΞΗ ΛΟΓΙΣΜΙΚΟΥ

ΠΡΟΓΡΑΜΜΑΤΙΣΤΙΚΗ ΕΡΓΑΣΙΑ

ΓΙΑ ΤΟ ΑΚΑΔΗΜΑΪΚΟ ΕΤΟΣ 2017-2018

ΟΜΑΔΑ 3230-3305-3318

ΙΩΑΝΝΗΣ ΠΑΠΑΓΕΩΡΓΙΟΥ, 3305

ΘΩΜΑΣ ΠΑΤΣΑΝΗΣ, 3318

ΑΝΔΡΕΑΣ ΘΕΟΔΩΡΑΚΟΠΟΥΛΟΣ, 3230

ΑΝΑΦΟΡΑ

1) ΑΝΑΛΥΣΗ ΑΠΑΙΤΗΣΕΩΝ-USE CASES

LOADSMOVIESINFO

ID: 001

DESCRIPTION AND GOAL

The use case “LoadsMoviesInfo” loads all the information about the movies except tags and ratings.

ACTORS (ESP. PRIMARY ACTOR)

User

PRECONDITIONS

Data have to be loaded and the individual parts of data must be interconnected.

BASIC FLOW

1. The use case starts when the user runs the program.

2. The system loads the data.

EXTENSIONS / VARIATIONS

1. In case of loading error, incorrect data must be deleted.

LOADTAGSINFO

ID: 002

DESCRIPTION AND GOAL

The use case "LoadTagsInfo" loads ratings, tags or both.

ACTORS (ESP. PRIMARY ACTOR)

User

PRECONDITIONS

The movie's information must be deleted.

BASIC FLOW

1. The use case starts when the data have been loaded.

2 .System loads tags.

EXTENSIONS / VARIATIONS

In case of big amount of data, loading will take more time.

LOADRATINGSINFO

ID: 003

DESCRIPTION AND GOAL

The use case "LoadRatingsInfo" loads ratings, tags or both.

ACTORS (ESP. PRIMARY ACTOR)

User

PRECONDITIONS

The movie's information must be deleted.

BASIC FLOW

1. The use case starts when the data have been loaded.

2 .System loads ratings.

EXTENSIONS / VARIATIONS

In case of big amount of data, loading will take more time.

SEARCHMOVIEBYID

ID: 004

DESCRIPTION AND GOAL

The use case "SearchMovieByID" searches for a movie description by id.

ACTORS (ESP. PRIMARY ACTOR)

User

PRECONDITIONS

Movies data must be loaded and organized.

BASIC FLOW

1. The use case starts when the user chooses to search for a movie in the menu.

2. The system asks the user if he wants to search for a movie by id.

3. The system prints the description of the movie.

EXTENSIONS / VARIATIONS

1. Loading error due to incorrect data.
2. The user gives incorrect id. Then the system has to ask the user until he types the correct id.

SEARCHMOVIEBYTITLE

ID: 005

DESCRIPTION AND GOAL

The use case "SearchMovieTitle" searches for a movie description by title.

ACTORS (ESP. PRIMARY ACTOR)

User

PRECONDITIONS

Movies data must be loaded and organized.

BASIC FLOW

1. The use case starts when the user chooses to search for a movie in the menu.

2. The system asks the user if he wants to search for a movie by title.

3. The system prints the description of the movie.

EXTENSIONS / VARIATIONS

1. Loading error due to incorrect data.
2. The user gives incorrect title. Then the system has to ask the user until he types the correct title.

SEARCHMOVIEBYFACTOR

ID: 006

DESCRIPTION AND GOAL

The use case "SearchMovieByFactor" searches for all the movies that either have the same actor or the same director or they come from the same country or the same genre.

ACTORS (ESP. PRIMARY ACTOR)

User

PRECONDITIONS

Movie's data must be deleted.

BASIC FLOW

1. The use case starts when the user chooses to search for movies by director or actor or country of origin in the menu.

2. The system asks the user which director's or actor's or country of origin movies he would like to search.

3. The system prints the titles, the dates and the directors of the movies.

EXTENSIONS / VARIATIONS

1. The user gives incorrect name of the factor of a movie. Then the system has to ask the user until he types the correct name factor.

SEARCHTAGSFORMOVIES

ID: 007

DESCRIPTION AND GOAL

The use case "SearchTagsForMovies" searches for all the tags of a movie.

ACTORS (ESP. PRIMARY ACTOR)

User

PRECONDITIONS

Data of tags must be deleted.

BASIC FLOW

1. The use case starts when the user chooses to search for movie's tags in the menu.

2. The system asks the user which movie's tags he wants to find.

3. The system prints the movie's tags and the number of tags.

EXTENSIONS / VARIATIONS

1. The user gives incorrect title. Then the system has to ask the user until he types the correct title.

SEARCHRATINGSFORMOVIE

ID: 008

DESCRIPTION AND GOAL

The use case "SearchRatingsForMovie" for all the ratings of a movie.

ACTORS (ESP. PRIMARY ACTOR)

User

PRECONDITIONS

Data of tags must be loaded.

BASIC FLOW

1. The use case starts when the user chooses to search for movie's ratings in the menu.

2. The system asks the user which movie's ratings he wants to find.

3. The system prints the movie's ratings and the number of ratings.

EXTENSIONS / VARIATIONS

1. The user gives incorrect title. Then the system has to ask the user until he types the correct title.

PRINTTHEANSWER

ID: 009

DESCRIPTION AND GOAL

The use case “PrintTheAnswer” creates a file with the answers of user’s question.

ACTORS (ESP. PRIMARY ACTOR)

User

PRECONDITIONS

Data have to be loaded and the user have to submit a question.

BASIC FLOW

1. The use case starts when the user asks a question.

2. The system asks the user in which type of file(txt,html,pdf,markdown) he wants to get the answers and the name of that file.

3. The system creates the file.

EXTENSIONS / VARIATIONS

1. If the user gives a wrong type of file the system have to ask him again in which type of html, pdf, txt or markdown he wants to get the answers.
2. If the user gives an incorrect name for the file the system has to ask the user again for the name of the file.

POST CONDITIONS

A file is created.

CREATEAPDF

ID: 010

DESCRIPTION AND GOAL

The use case “CreateAPdf” creates a pdf file with the answers of user’s question.

ACTORS (ESP. PRIMARY ACTOR)

User

PRECONDITIONS

1. Data have to be loaded
2. Either the user has to submit a question or has to retrieve a file with answers from previous question and convert that into a pdf file.

BASIC FLOW

1. The use case starts when the user gets his answers.

2. The user makes a pdf file or converts another file into a pdf with a name of his preference.

EXTENSIONS / VARIATIONS

1. If the user gives a wrong name of file to be converted the system has to ask him again which file he wants to convert.
2. If the user gives an incorrect name for the file the system has to ask the user again for the name of the file.

POST CONDITIONS

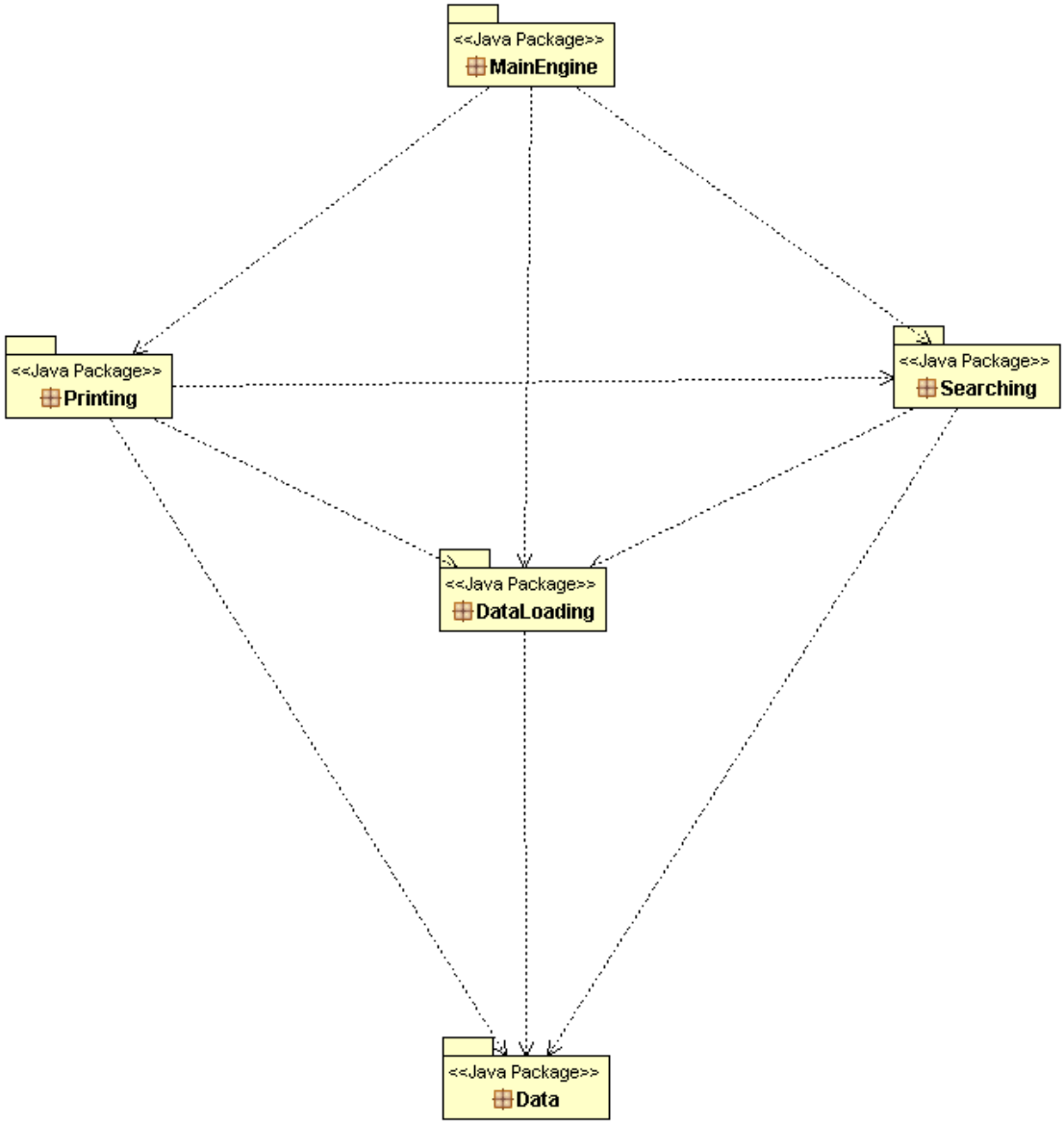
A pdf file is created.

2) TRACEABILITY MATRIX

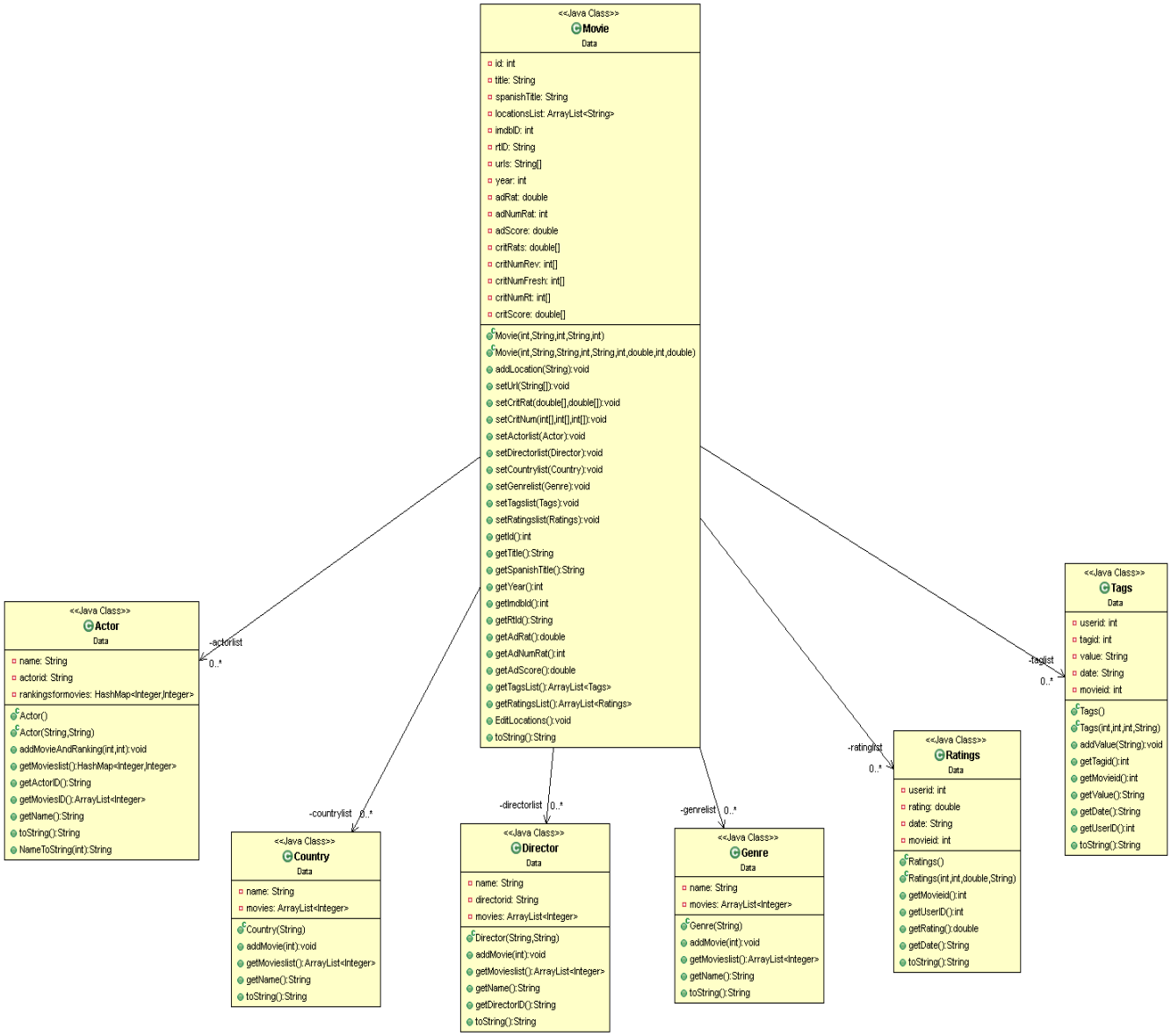
USE CASE TEST CASE	UC 001	UC 002	UC 003	UC 004	UC 005	UC 006	UC 007	UC 008	UC 009	UC 010
INCORRECT DATA	X	X	X	X	X	X	X	X		
INCORRECT ID				X						
INCORRECT TITLE					X	X	X	X		
INCORRECT FACTOR						X				
INCORRECT FILE TYPE									X	X
INCORRECT CONVERT FILE										X
INCORRECT FILE NAME									X	X

3) ΔΙΑΓΡΑΜΜΑΤΑ ΚΛΑΣΕΩΝ

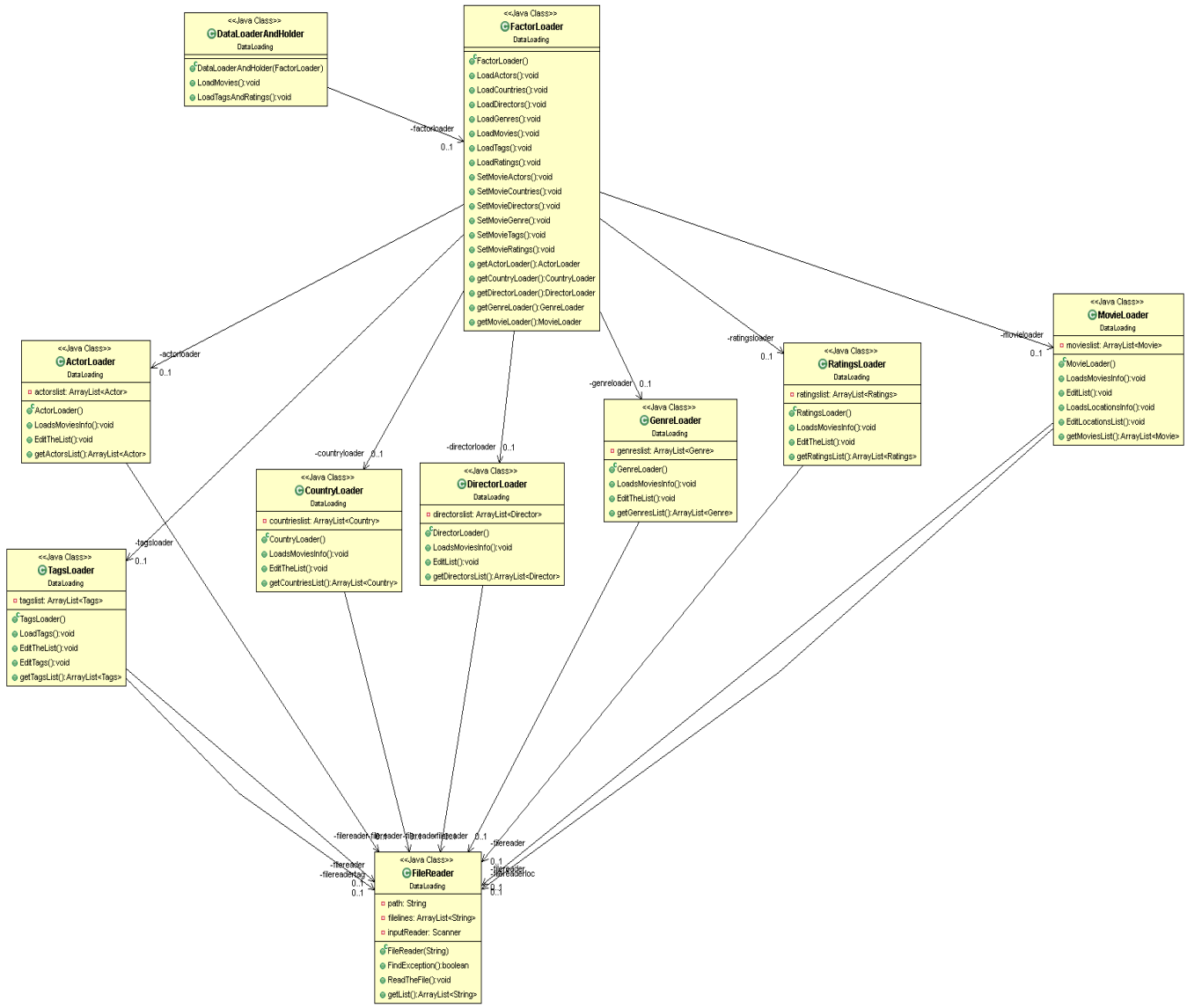
PACKAGES UML DIAGRAM



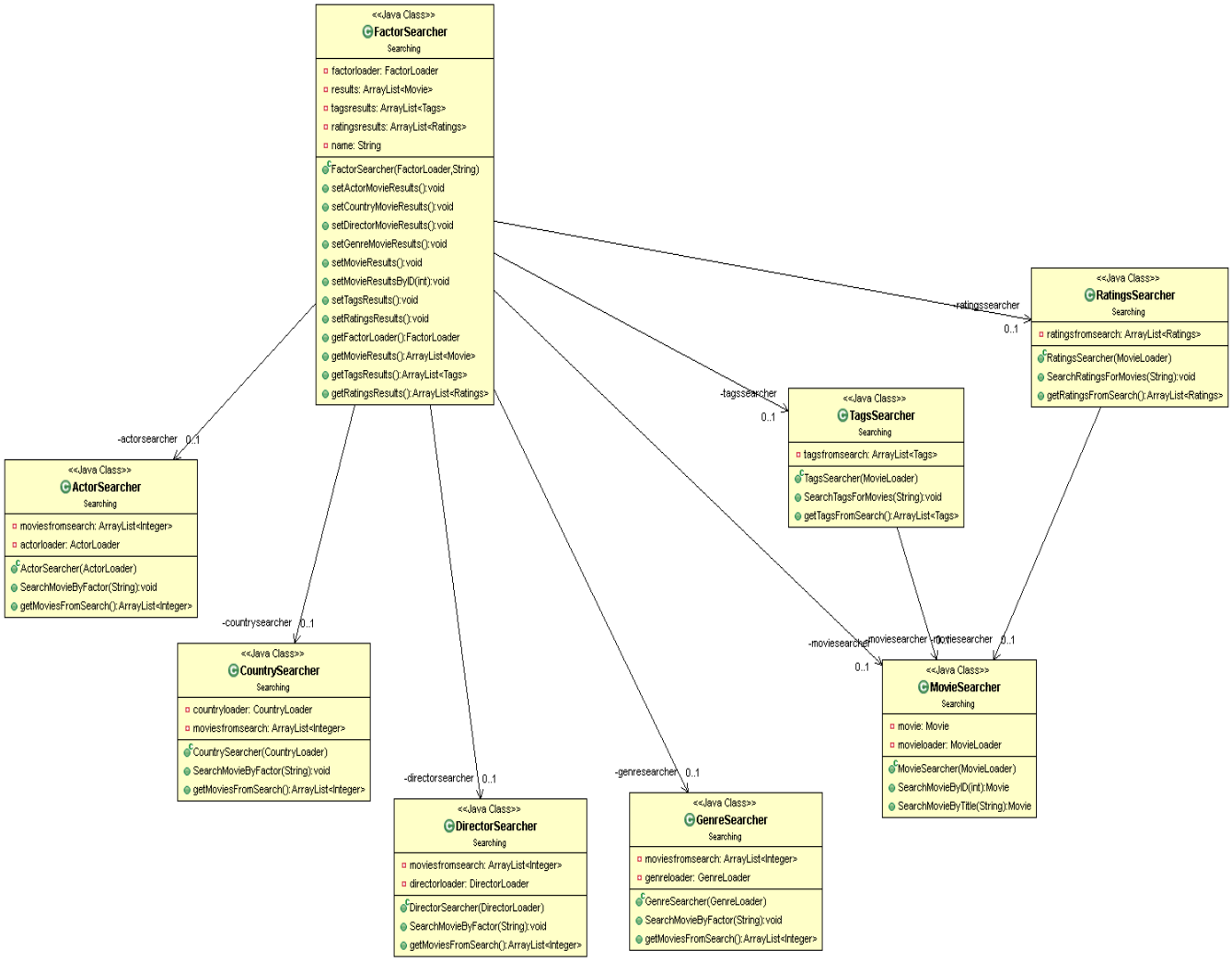
DATA UML DIAGRAM

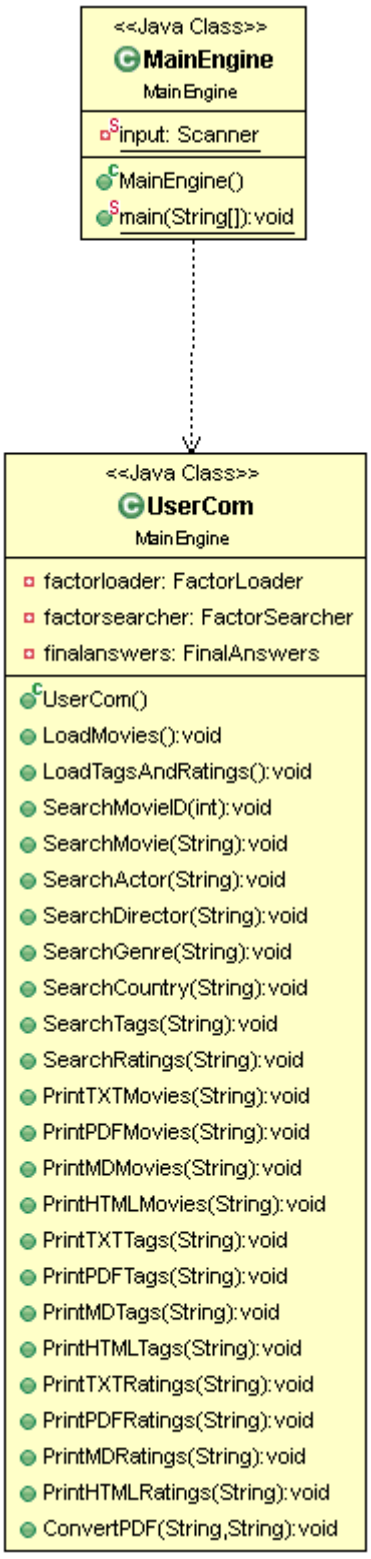


DATA LOADING UML DIAGRAM



SEARCHING UML DIAGRAM



PRINTING UML DIAGRAM

MAIN ENGINE UML DIAGRAM