ProyectoFinalLDH 1.0

Generated by Doxygen 1.9.5

Chapter 1

Namespace Index

1.1 Package List

Here are the packages with brief descriptions (if available):								
ull	??							

2 Namespace Index

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Comparable	
ull.Rating	?
ull.Filter	?
ull.AllFilters	?
ull.DirectorsFilter	?
ull.GenreFilter	?
ull.MinutesFilter	?
ull.TrueFilter	?
ull.YearAfterFilter	?
ull.FirstRatings	?
ull.FourthRatings	?
ull.Movie	?
ull.MovieDatabase	?
ull.MovieRunnerSimilarRatings	?
ull.Rater	?
ull.EfficientRater	?
ull.RaterDatabase	?
ull.Recommender	?
ull RecommendationRunner	2

4 Hierarchical Index

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

ull.AllFilters	?
ull.DirectorsFilter	?
ull.EfficientRater	?
ull.Filter	?
ull.FirstRatings	?
ull.FourthRatings	?
ull.GenreFilter	?
ull.MinutesFilter	-
ull.Movie ?	-
ull.MovieDatabase	-
ull.MovieRunnerSimilarRatings	-
ull.Rater	-
ull.RaterDatabase	-
ull.Rating	-
ull.RecommendationRunner	•
ull.Recommender	•
ull.TrueFilter	-
ull Year After Filter ?	?

6 Class Index

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

src/main/java/ull/AllFilters.java	?
src/main/java/ull/DirectorsFilter.java ?*	?
src/main/java/ull/EfficientRater.java	?
src/main/java/ull/Filter.java	?
src/main/java/ull/FirstRatings.java ?*	?
src/main/java/ull/FourthRatings.java	?
src/main/java/ull/GenreFilter.java	?
src/main/java/ull/MinutesFilter.java	?
src/main/java/ull/Movie.java	?
src/main/java/ull/MovieDatabase.java	?
src/main/java/ull/MovieRunnerSimilarRatings.java?	?
src/main/java/ull/Rater.java	?
src/main/java/ull/RaterDatabase.java	?
src/main/java/ull/Rating.java	?
src/main/java/ull/RecommendationRunner.java	?
src/main/java/ull/Recommender.java	?
src/main/java/ull/TrueFilter.java	?
src/main/java/ull/YearAfterFilter.java ?*	?

8 File Index

Chapter 5

Namespace Documentation

5.1 Package ull

Classes

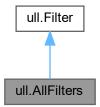
- class AllFilters
- · class DirectorsFilter
- · class EfficientRater
- interface Filter
- class FirstRatings
- class FourthRatings
- class GenreFilter
- · class MinutesFilter
- class Movie
- class MovieDatabase
- class MovieRunnerSimilarRatings
- interface Rater
- class RaterDatabase
- class Rating
- class RecommendationRunner
- interface Recommender
- class TrueFilter
- class YearAfterFilter

Chapter 6

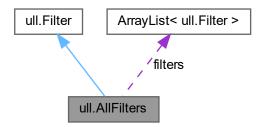
Class Documentation

6.1 ull.AllFilters Class Reference

Inheritance diagram for ull.AllFilters:



Collaboration diagram for ull.AllFilters:



Public Member Functions

- AllFilters ()
- void addFilter (Filter f)
- boolean satisfies (String id)

6.1.1 Constructor & Destructor Documentation

6.1.1.1 AllFilters()

```
ull.AllFilters.AllFilters ()
```

6.1.2 Member Function Documentation

6.1.2.1 addFilter()

```
void ull.AllFilters.addFilter (  \label{eq:filter} {\tt Filter} \ f \ )
```

6.1.2.2 satisfies()

```
boolean ull.AllFilters.satisfies ( {\tt String} \ \textit{id} \ )
```

Implements ull.Filter.

The documentation for this class was generated from the following file:

• src/main/java/ull/AllFilters.java

6.2 ull.DirectorsFilter Class Reference

Inheritance diagram for ull.DirectorsFilter:



Collaboration diagram for ull.DirectorsFilter:



Public Member Functions

- DirectorsFilter (String directors)
- boolean satisfies (String id)

6.2.1 Detailed Description

A class for filter movies by directors

Author

Stanislav Rakitov

Version

1.0

6.2.2 Constructor & Destructor Documentation

6.2.2.1 DirectorsFilter()

6.2.3 Member Function Documentation

6.2.3.1 satisfies()

```
boolean ull.DirectorsFilter.satisfies ( {\tt String} \ id \ )
```

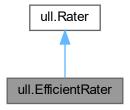
Implements ull.Filter.

The documentation for this class was generated from the following file:

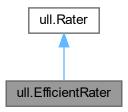
• src/main/java/ull/DirectorsFilter.java

6.3 ull.EfficientRater Class Reference

Inheritance diagram for ull. Efficient Rater:



Collaboration diagram for ull. Efficient Rater:



Public Member Functions

- EfficientRater (String id)
- void addRating (String movieID, double rating)
- boolean hasRating (String movieID)
- String getID ()
- double getRating (String movieID)
- int numRatings ()
- ArrayList< String > getItemsRated ()
- HashMap< String, Rating > getMyRatings ()

6.3.1 Detailed Description

The class EfficientRater keeps track of one rater and all their ratings.

Author

Stanislav Rakitov

Version

1.0

6.3.2 Constructor & Destructor Documentation

6.3.2.1 EfficientRater()

```
ull.EfficientRater.EfficientRater ( String\ id\ )
```

6.3.3 Member Function Documentation

6.3.3.1 addRating()

Implements ull.Rater.

6.3.3.2 getID()

```
String ull.EfficientRater.getID ( )
```

Implements ull.Rater.

6.3.3.3 getItemsRated()

```
\label{lem:arrayList} {\tt ArrayList} < {\tt String} \ > \ {\tt ull.EfficientRater.getItemsRated} \ \ (\ )
```

Implements ull.Rater.

6.3.3.4 getMyRatings()

```
{\tt HashMap} < {\tt String, Rating} > {\tt ull.EfficientRater.getMyRatings} \ \ (\ )
```

Implements ull.Rater.

6.3.3.5 getRating()

Implements ull.Rater.

6.3.3.6 hasRating()

Implements ull.Rater.

6.3.3.7 numRatings()

```
int ull.EfficientRater.numRatings ( )
```

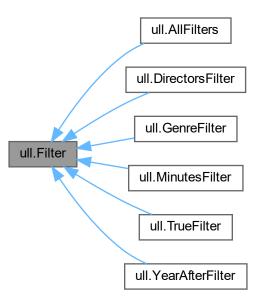
Implements ull.Rater.

The documentation for this class was generated from the following file:

• src/main/java/ull/EfficientRater.java

6.4 ull.Filter Interface Reference

Inheritance diagram for ull. Filter:



Public Member Functions

• boolean satisfies (String id)

6.4.1 Member Function Documentation

6.4.1.1 satisfies()

```
boolean ull.Filter.satisfies ( {\tt String} \ \textit{id} \ )
```

Implemented in ull.AllFilters, ull.DirectorsFilter, ull.GenreFilter, ull.MinutesFilter, ull.TrueFilter, and ull.YearAfterFilter.

The documentation for this interface was generated from the following file:

• src/main/java/ull/Filter.java

6.5 ull.FirstRatings Class Reference

Public Member Functions

- FirstRatings (String fileName)
- FirstRatings (String fileNameMovies, String fileNameRaters)
- FirstRatings ()
- void testLoadMovies ()
- void testLoadRaters (String raterID, String movieID)

6.5.1 Detailed Description

A class to process the movie and ratings data and to answer questions about them.

Author

Stanislav Rakitov

Version

1.0

6.5.2 Constructor & Destructor Documentation

6.5.2.1 FirstRatings() [1/3]

6.5.2.2 FirstRatings() [2/3]

6.5.2.3 FirstRatings() [3/3]

```
ull.FirstRatings.FirstRatings ( )
```

6.5.3 Member Function Documentation

6.5.3.1 testLoadMovies()

```
void ull.FirstRatings.testLoadMovies ( )
```

A void method for tests cases.

- · determine how many movies in total.
- determine how many movies include the Comedy genre.
- determine how many movies are greater than 150 minutes in length.
- determine the maximum number of movies by any director, and who the directors are that directed that many movies.

6.5.3.2 testLoadRaters()

The documentation for this class was generated from the following file:

• src/main/java/ull/FirstRatings.java

6.6 ull.FourthRatings Class Reference

Public Member Functions

- ArrayList< Rating > getAverageRatings (int minimalRaters)
- ArrayList< Rating > getAverageRatingsByFilter (Integer minimalRaters, Filter filterCriteria)
- double dotProduct (Rater meRater, Rater otherRater)
- ArrayList< Rating > getSimilarRatings (String id, Integer numSimilarRaters, Integer minimalRaters)
- ArrayList< Rating > getSimilarRatingsByFilter (String id, Integer numSimilarRaters, Integer minimalRaters, Filter filterCriteria)

6.6.1 Detailed Description

The week 4 class

Author

Stanislav Rakitov

Version

1.0

6.6.2 Member Function Documentation

6.6.2.1 dotProduct()

6.6.2.2 getAverageRatings()

```
ArrayList< Rating > ull.FourthRatings.getAverageRatings (
    int minimalRaters )
```

6.6.2.3 getAverageRatingsByFilter()

6.6.2.4 getSimilarRatings()

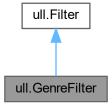
6.6.2.5 getSimilarRatingsByFilter()

The documentation for this class was generated from the following file:

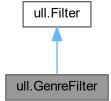
• src/main/java/ull/FourthRatings.java

6.7 ull.GenreFilter Class Reference

Inheritance diagram for ull.GenreFilter:



Collaboration diagram for ull.GenreFilter:



Public Member Functions

- GenreFilter (String genre)
- boolean satisfies (String id)

6.7.1 Detailed Description

A class for filter movies by genre

Author

Stanislav Rakitov

Version

1.0

6.7.2 Constructor & Destructor Documentation

6.7.2.1 GenreFilter()

6.7.3 Member Function Documentation

6.7.3.1 satisfies()

```
boolean ull. Genre Filter. satisfies ( {\tt String} \ id \ )
```

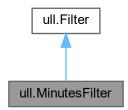
Implements ull. Filter.

The documentation for this class was generated from the following file:

• src/main/java/ull/GenreFilter.java

6.8 ull.MinutesFilter Class Reference

Inheritance diagram for ull.MinutesFilter:



Collaboration diagram for ull.MinutesFilter:



Public Member Functions

- MinutesFilter (int minMinutes, int maxMinutes)
- MinutesFilter (int minMinutes)
- boolean satisfies (String id)

6.8.1 Detailed Description

A class for filter movies by time

Author

Stanislav Rakitov

Version

1.0

6.8.2 Constructor & Destructor Documentation

6.8.2.1 MinutesFilter() [1/2]

6.8.2.2 MinutesFilter() [2/2]

6.8.3 Member Function Documentation

6.8.3.1 satisfies()

```
boolean ull.MinutesFilter.satisfies ( {\tt String} \ \textit{id} \ )
```

Implements ull.Filter.

The documentation for this class was generated from the following file:

• src/main/java/ull/MinutesFilter.java

6.9 ull.Movie Class Reference

Public Member Functions

- Movie (String anID, String aTitle, String aYear, String theGenres)
- Movie (String anID, String aTitle, String aYear, String theGenres, String aDirector, String aCountry, String aPoster, int theMinutes)
- String getID ()
- String getTitle ()
- int getYear ()
- String getGenres ()
- String getCountry ()
- String getDirector ()
- String getPoster ()
- int getMinutes ()
- String toString ()

6.9.1 Constructor & Destructor Documentation

6.9.1.1 Movie() [1/2]

6.9.1.2 Movie() [2/2]

```
ull.Movie.Movie (

String anID,

String aTitle,

String aYear,

String theGenres,

String aDirector,

String aCountry,

String aPoster,

int theMinutes )
```

6.9.2 Member Function Documentation

6.9.2.1 getCountry()

```
String ull.Movie.getCountry ( )
```

6.9.2.2 getDirector()

```
String ull.Movie.getDirector ( )
```

6.9.2.3 getGenres()

```
String ull.Movie.getGenres ( )
```

6.9.2.4 getID()

```
String ull.Movie.getID ( )
```

6.9.2.5 getMinutes()

```
int ull.Movie.getMinutes ( )
```

6.9.2.6 getPoster()

```
String ull.Movie.getPoster ( )
```

6.9.2.7 getTitle()

```
String ull.Movie.getTitle ( )
```

6.9.2.8 getYear()

```
int ull.Movie.getYear ( )
```

6.9.2.9 toString()

```
String ull.Movie.toString ( )
```

The documentation for this class was generated from the following file:

• src/main/java/ull/Movie.java

6.10 ull.MovieDatabase Class Reference

Static Public Member Functions

- static void initialize (String moviefile)
- static boolean containsID (String id)
- static int getYear (String id)
- static String getGenres (String id)
- static String getTitle (String id)
- static Movie getMovie (String id)
- static String getPoster (String id)
- static int getMinutes (String id)
- static String getCountry (String id)
- static String getDirector (String id)
- static int size ()
- static ArrayList< String > filterBy (Filter f)

6.10.1 Member Function Documentation

6.10.1.1 containsID()

6.10.1.2 filterBy()

6.10.1.3 getCountry()

```
static String ull.MovieDatabase.getCountry ( String \ id \ ) \quad [static]
```

6.10.1.4 getDirector()

```
static String ull.MovieDatabase.getDirector ( String \ id \ ) \quad [static]
```

6.10.1.5 getGenres()

```
static String ull.MovieDatabase.getGenres ( {\tt String} \ id \ ) \quad [{\tt static}]
```

6.10.1.6 getMinutes()

```
static int ull.MovieDatabase.getMinutes ( {\tt String} \ id \ ) \quad [{\tt static}]
```

6.10.1.7 getMovie()

6.10.1.8 getPoster()

6.10.1.9 getTitle()

```
static String ull.MovieDatabase.getTitle ( {\tt String} \ id \ ) \quad [{\tt static}]
```

6.10.1.10 getYear()

```
static int ull.MovieDatabase.getYear ( {\tt String} \ id \ ) \ \ [{\tt static}]
```

6.10.1.11 initialize()

```
static void ull.MovieDatabase.initialize ( String\ \textit{moviefile}\ ) \quad [static]
```

6.10.1.12 size()

```
static int ull.MovieDatabase.size ( ) [static]
```

The documentation for this class was generated from the following file:

• src/main/java/ull/MovieDatabase.java

6.11 ull.MovieRunnerSimilarRatings Class Reference

Public Member Functions

- void printAverageRatings (int minimalRatings)
- void printAverageRatingsByYearAfterAndGenre (int minimalRatings, int year, String genre)
- void printSimilarRatings ()
- void printSimilarRatingsByGenre ()
- void printSimilarRatingsByDirector ()
- void printSimilarRatingsByGenreAndMinutes ()
- void printSimilarRatingsByYearAfterAndMinutes ()

6.11.1 Detailed Description

Author

Stanislav Rakitov

6.11.2 Member Function Documentation

6.11.2.1 printAverageRatings()

Print a list of movies and their average ratings sorted by averages

Parameters

minimalRatings int specified number of ratings

6.11.2.2 printAverageRatingsByYearAfterAndGenre()

 $\verb|void ull.MovieRunnerSimilarRatings.printAverageRatingsByYearAfterAndGenre| ($

```
int minimalRatings,
int year,
String genre )
```

6.11.2.3 printSimilarRatings()

```
void ull.MovieRunnerSimilarRatings.printSimilarRatings ( )
```

6.11.2.4 printSimilarRatingsByDirector()

```
void ull.MovieRunnerSimilarRatings.printSimilarRatingsByDirector ( )
```

6.11.2.5 printSimilarRatingsByGenre()

```
void ull.MovieRunnerSimilarRatings.printSimilarRatingsByGenre ( )
```

6.11.2.6 printSimilarRatingsByGenreAndMinutes()

```
\verb"void ull.Movie Runner Similar Ratings.print Similar Ratings By Genre And Minutes ()\\
```

6.11.2.7 printSimilarRatingsByYearAfterAndMinutes()

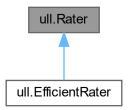
```
void ull.MovieRunnerSimilarRatings.printSimilarRatingsByYearAfterAndMinutes ( )
```

The documentation for this class was generated from the following file:

• src/main/java/ull/MovieRunnerSimilarRatings.java

6.12 ull.Rater Interface Reference

Inheritance diagram for ull.Rater:



Public Member Functions

- void addRating (String movieID, double rating)
- boolean hasRating (String item)
- String getID ()
- double getRating (String item)
- int numRatings ()
- ArrayList< String > getItemsRated ()
- HashMap< String, Rating > getMyRatings ()

6.12.1 Member Function Documentation

6.12.1.1 addRating()

```
void ull.Rater.addRating ( {\tt String}\ {\tt movieID}, {\tt double}\ {\tt rating}\ )
```

Implemented in ull.EfficientRater.

6.12.1.2 getID()

```
String ull.Rater.getID ( )
```

Implemented in ull.EfficientRater.

6.12.1.3 getItemsRated()

```
\label{eq:arrayList} {\tt ArrayList} < {\tt String} \ > \ {\tt ull.Rater.getItemsRated} \ \ (\ \ )
```

Implemented in ull.EfficientRater.

6.12.1.4 getMyRatings()

```
{\tt HashMap} < {\tt String}, {\tt Rating} > {\tt ull.Rater.getMyRatings} ( )
```

Implemented in ull.EfficientRater.

6.12.1.5 getRating()

Implemented in ull.EfficientRater.

6.12.1.6 hasRating()

Implemented in ull.EfficientRater.

6.12.1.7 numRatings()

```
int ull.Rater.numRatings ( )
```

Implemented in ull.EfficientRater.

The documentation for this interface was generated from the following file:

• src/main/java/ull/Rater.java

6.13 ull.RaterDatabase Class Reference

Static Public Member Functions

- static void initialize (String filename)
- static void addRatings (String filename)
- static void addRaterRating (String raterID, String movieID, double rating)
- static Rater getRater (String id)
- static ArrayList< Rater > getRaters ()
- static int size ()

6.13.1 Member Function Documentation

6.13.1.1 addRaterRating()

6.13.1.2 addRatings()

6.13.1.3 getRater()

6.13.1.4 getRaters()

```
static ArrayList< Rater > ull.RaterDatabase.getRaters ( ) [static]
```

6.13.1.5 initialize()

6.13.1.6 size()

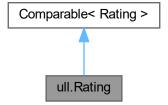
```
static int ull.RaterDatabase.size ( ) [static]
```

The documentation for this class was generated from the following file:

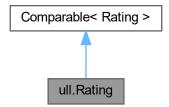
• src/main/java/ull/RaterDatabase.java

6.14 ull.Rating Class Reference

Inheritance diagram for ull.Rating:



Collaboration diagram for ull.Rating:



Public Member Functions

- Rating (String anItem, double aValue)
- String getItem ()
- double getValue ()
- String toString ()
- int compareTo (Rating other)

6.14.1 Constructor & Destructor Documentation

6.14.1.1 Rating()

```
ull.Rating.Rating (
String anItem,
double aValue)
```

6.14.2 Member Function Documentation

6.14.2.1 compareTo()

```
\begin{tabular}{ll} \beg
```

6.14.2.2 getItem()

```
String ull.Rating.getItem ( )
```

6.14.2.3 getValue()

```
double ull.Rating.getValue ( )
```

6.14.2.4 toString()

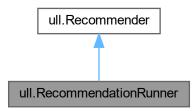
```
String ull.Rating.toString ( )
```

The documentation for this class was generated from the following file:

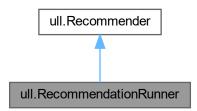
• src/main/java/ull/Rating.java

6.15 ull.RecommendationRunner Class Reference

Inheritance diagram for ull.RecommendationRunner:



Collaboration diagram for ull.RecommendationRunner:



Public Member Functions

- ArrayList< String > getItemsToRate ()
- void printRecommendationsFor (String webRaterID)

6.15.1 Detailed Description

Author

Stanislav Rakitov

6.15.2 Member Function Documentation

6.15.2.1 getItemsToRate()

```
ArrayList< String > ull.RecommendationRunner.getItemsToRate ()
```

This method returns a list of movie IDs that will be used to look up the movies in the MovieDatabase and present them to users to rate.

The movies returned in the list will be displayed on a web page, so the number you choose may affect how long the page takes to load and how willing users are to rate the movies. For example, 10-20 should be fine, 50 or more would be too many.

There are no restrictions on the method you use to generate this list of movies: the most recent movies, movies from a specific genre, randomly chosen movies, or simply your favorite movies.

The ratings for these movies will make the profile for a new Rater that will be used to compare to for finding recommendations.

Implements ull.Recommender.

6.15.2.2 printRecommendationsFor()

```
void ull.RecommendationRunner.printRecommendationsFor ( {\tt String} \ \textit{webRaterID} \ )
```

This method returns nothing, but prints out an HTML table of the movies recommended for the given rater.

The HTML printed will be displayed on a web page, so the number you choose to display may affect how long the page takes to load. For example, you may want to limit the number printed to only the top 20-50 movies recommended or to movies not rater by the given rater.

You may also include CSS styling for your table using the <style> tag before you print the table. There are no restrictions on which movies you print, what order you print them in, or what information you include about each movie.

Parameters

webRaterID

the ID of a new Rater that has been already added to the RaterDatabase with ratings for the movies returned by the method getItemsToRate

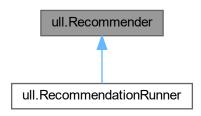
Implements ull.Recommender.

The documentation for this class was generated from the following file:

• src/main/java/ull/RecommendationRunner.java

6.16 ull.Recommender Interface Reference

Inheritance diagram for ull.Recommender:



Public Member Functions

- ArrayList< String > getItemsToRate ()
- void printRecommendationsFor (String webRaterID)

6.16.1 Detailed Description

Implement this interface to allow your code to be integrated with our web site.

When users first visit the recommender website, our code will call the method <code>getItemsToRate()</code> to get a list of movies to display on the web page for users to rate.

When a user submits their ratings, our code will call the method printRecommendationsFor to get your recommendations based on the user's ratings. The ID given to this method is for a new Rater that we have already added to the RaterDatabase with ratings for the movies returned by the first method. Whatever is printed from that method will be displayed on the web page: HTML, plain text, or debugging information.

6.16.2 Member Function Documentation

6.16.2.1 getItemsToRate()

 $\label{lem:arrayList} {\tt ArrayList} < {\tt String} > {\tt ull.Recommender.getItemsToRate} \ \ (\)$

This method returns a list of movie IDs that will be used to look up the movies in the MovieDatabase and present them to users to rate.

The movies returned in the list will be displayed on a web page, so the number you choose may affect how long the page takes to load and how willing users are to rate the movies. For example, 10-20 should be fine, 50 or more would be too many.

There are no restrictions on the method you use to generate this list of movies: the most recent movies, movies from a specific genre, randomly chosen movies, or simply your favorite movies.

The ratings for these movies will make the profile for a new Rater that will be used to compare to for finding recommendations.

Implemented in ull.RecommendationRunner.

6.16.2.2 printRecommendationsFor()

```
void ull.Recommender.printRecommendationsFor ( String \ webRaterID \ )
```

This method returns nothing, but prints out an HTML table of the movies recommended for the given rater.

The HTML printed will be displayed on a web page, so the number you choose to display may affect how long the page takes to load. For example, you may want to limit the number printed to only the top 20-50 movies recommended or to movies not rater by the given rater.

You may also include CSS styling for your table using the <style> tag before you print the table. There are no restrictions on which movies you print, what order you print them in, or what information you include about each movie.

Parameters

webRaterID

the ID of a new Rater that has been already added to the RaterDatabase with ratings for the movies returned by the method getItemsToRate

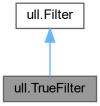
Implemented in ull.RecommendationRunner.

The documentation for this interface was generated from the following file:

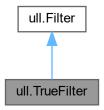
• src/main/java/ull/Recommender.java

6.17 ull.TrueFilter Class Reference

Inheritance diagram for ull. True Filter:



Collaboration diagram for ull. True Filter:



Public Member Functions

• boolean satisfies (String id)

6.17.1 Member Function Documentation

6.17.1.1 satisfies()

```
boolean ull.TrueFilter.satisfies ( {\tt String} \ \textit{id} \ )
```

Implements ull.Filter.

The documentation for this class was generated from the following file:

• src/main/java/ull/TrueFilter.java

6.18 ull. Year After Filter Class Reference

Inheritance diagram for ull. Year After Filter:



Collaboration diagram for ull. Year After Filter:



Public Member Functions

- YearAfterFilter (int year)
- boolean satisfies (String id)

6.18.1 Constructor & Destructor Documentation

6.18.1.1 YearAfterFilter()

```
ull.YearAfterFilter.YearAfterFilter ( int \ year \ )
```

6.18.2 Member Function Documentation

6.18.2.1 satisfies()

```
boolean ull.YearAfterFilter.satisfies ( {\tt String} \ id \ )
```

Implements ull.Filter.

The documentation for this class was generated from the following file:

• src/main/java/ull/YearAfterFilter.java

Chapter 7

File Documentation

7.1 src/main/java/ull/A	III-IIters.java	FIIE	Reference
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Classes

class ull.AllFilters

Packages

package ull

7.2 src/main/java/ull/DirectorsFilter.java File Reference

Classes

• class ull.DirectorsFilter

Packages

• package ull

7.3 src/main/java/ull/EfficientRater.java File Reference

Classes

• class ull.EfficientRater

Packages

44 File Documentation

7.4 src/main/java/ull/Filter.java File Reference

Classes

interface ull.Filter

Packages

package ull

7.5 src/main/java/ull/FirstRatings.java File Reference

Classes

• class ull.FirstRatings

Packages

• package ull

7.6 src/main/java/ull/FourthRatings.java File Reference

Classes

• class ull.FourthRatings

Packages

package ull

7.7 src/main/java/ull/GenreFilter.java File Reference

Classes

class ull.GenreFilter

Packages

7.8 src/main/java/ull/MinutesFilter.java File Reference

Classes

· class ull.MinutesFilter

Packages

package ull

7.9 src/main/java/ull/Movie.java File Reference

Classes

· class ull.Movie

Packages

package ull

7.10 src/main/java/ull/MovieDatabase.java File Reference

Classes

· class ull.MovieDatabase

Packages

• package ull

7.11 src/main/java/ull/MovieRunnerSimilarRatings.java File Reference

Classes

• class ull.MovieRunnerSimilarRatings

Packages

46 File Documentation

7.12 src/main/java/ull/Rater.java File Reference

Classes

interface ull.Rater

Packages

package ull

7.13 src/main/java/ull/RaterDatabase.java File Reference

Classes

· class ull.RaterDatabase

Packages

• package ull

7.14 src/main/java/ull/Rating.java File Reference

Classes

· class ull.Rating

Packages

package ull

7.15 src/main/java/ull/RecommendationRunner.java File Reference

Classes

• class ull.RecommendationRunner

Packages

7.16 src/main/java/ull/Recommender.java File Reference

Classes

• interface ull.Recommender

Packages

package ull

7.17 src/main/java/ull/TrueFilter.java File Reference

Classes

· class ull.TrueFilter

Packages

• package ull

7.18 src/main/java/ull/YearAfterFilter.java File Reference

Classes

· class ull.YearAfterFilter

Packages

48 File Documentation