DSA_EHU_Project

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Chapter 1

Namespace Index

1.1 Package List

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

fileHandling	7
people	7
relationships	7

2 Namespace Index

Chapter 2

Class Index

2.1 Class List

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

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Menu		 									 							11
people.People		 									 							13
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4 Class Index

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

D:/Projekty/DSA_ehu_JavaProject/src/Menu.java	53
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D:/Projekty/DSA_ehu_JavaProject/src/relationships/Relationship.java	54
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6 File Index

Chapter 4

Namespace Documentation

4.1 Package fileHandling

Classes

• class FileHandling

4.2 Package people

Classes

- class People
- class Person
- class Quicksort

4.3 Package relationships

Classes

- class Relationship
- class Relationships

Chapter 5

Class Documentation

5.1 fileHandling.FileHandling Class Reference

Static Public Member Functions

- static List< String > readFile (String fileName) throws FileNotFoundException
- static void writeToFile (String output, String fileName) throws IOException

5.1.1 Detailed Description

This class responsible for handling operations related to files It has classes which writes and rides text from/to files

5.1.2 Member Function Documentation

5.1.2.1 readFile()

This method read lines from the whole file.

Parameters

fileName	is String parameter with a file name

Returns

list of Strings

Here is the caller graph for this function:



5.1.2.2 writeToFile()

This method write String to the file.

Parameters

output	String which will be written to file
fileName	String contains name of file where output will be written

Exceptions

IOException	This throws could occur when an I/O exception of some sort has occurred.
-------------	--

Here is the caller graph for this function:



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

• D:/Projekty/DSA_ehu_JavaProject/src/fileHandling/FileHandling.java

5.2 Menu Class Reference

5.2 Menu Class Reference

Static Public Member Functions

- static void main (String[] args)
- static int menu ()

5.2.1 Detailed Description

This class is currently the main class of the projects. It creates the menu that allows user to insert People and Relationships and view them.

5.2.2 Member Function Documentation

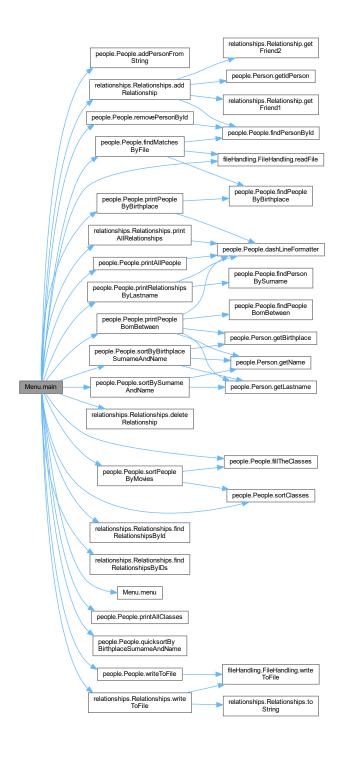
5.2.2.1 main()

This method consist of calls to all functions related to the options presented in menu.

Parameters

args

Here is the call graph for this function:



5.2.2.2 menu()

```
static int Menu.menu ( ) [static]
```

This method prints menu options of our programming project and reads input from the user.

Returns

integer

Here is the caller graph for this function:



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

D:/Projekty/DSA ehu JavaProject/src/Menu.java

5.3 people.People Class Reference

Public Member Functions

- People ()
- List< Person > getPeople ()
- void setPeople (List< Person > people)
- void printAllPeople ()
- · void addPersonFromString (String data) throws ParseException
- Person findPersonByld (String id)
- List< Person > findPersonBySurname (String surname)
- void printRelationshipsByLastname (String lastname, Relationships relationships)
- List< Person > findPeopleByHome (String home)
- void printPeopleByHome (String home)
- List< Person > findPeopleByBirthplace (String birthplace)
- void printPeopleByBirthplace (String birthplace)
- List< Person > findPeopleBornBetween (int yearMin, int yearMax)
- void printPeopleBornBetween (int yearMin, int yearMax)
- void writeToFile (String filename) throws IOException
- void removePersonByld (String id)
- void findMatchesByFile (String filename) throws IOException
- void sortBySurnameAndName ()
- void sortByBirthplaceSurnameAndName ()
- void quicksortByBirthplaceSurnameAndName ()
- · void fillTheClasses ()
- void printAllClasses ()
- void sortClasses ()
- void sortPeopleByMovies ()

Static Public Member Functions

- static String dashLineFormatter (String line)
- static String anySymbolLineFormatter (String line, String symbol)

Public Attributes

HashMap < List < String >, List < Person > > profiles = new HashMap <>()

Static Public Attributes

• static final String FIRST_LINE_PEOPLE = "idperson,name,lastname,birthdate,gender,birthplace,home,studiedat,workplaces,fill

5.3.1 Constructor & Destructor Documentation

5.3.1.1 People()

```
people.People ( )
```

Constructor for a People class.

5.3.2 Member Function Documentation

5.3.2.1 addPersonFromString()

This method check if the user ID is already in list of people, if not - add person from string to list of people

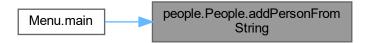
Parameters

data is string containing data for creating a new object of Person class.

Exceptions

ParseException | Signals that an error has been reached unexpectedly while parsing.

Here is the caller graph for this function:



5.3.2.2 anySymbolLineFormatter()

```
static String people.People.anySymbolLineFormatter ( String \ line, \\ String \ symbol \ ) \ \ [static]
```

A little function that takes a line containing column names and returns a line of dashes adjusted to the length of passed line

Parameters

line	String with column names
symbol	String to be used as a delimiter line

Returns

String of passed symbol

5.3.2.3 dashLineFormatter()

```
static String people.People.dashLineFormatter ( {\tt String\ \it line}\ ) \quad [{\tt static}]
```

A little function that takes a line containing column names and returns a line of dashes adjusted to the length of passed line

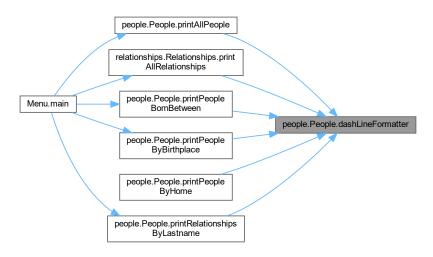
Parameters

line	String with column names

Returns

String of dashes

Here is the caller graph for this function:



5.3.2.4 fillTheClasses()

```
void people.People.fillTheClasses ( )
```

This function builds a classes of movies containing peoples who likes the same sets of movies Here is the caller graph for this function:



5.3.2.5 findMatchesByFile()

```
void people.People.findMatchesByFile ( {\tt String} \ filename \ ) \ {\tt throws} \ {\tt IOException}
```

The function takes the name of the .txt file, reads the contents of the file being the ID's of people and prints the lists of people whose birthplace is equal to hometown of people from file

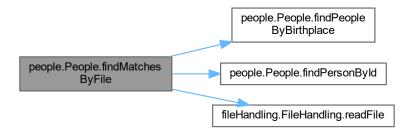
Parameters

filename String - name of the file without extension
--

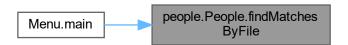
Exceptions

ception in case the file causes issues
--

Here is the call graph for this function:



Here is the caller graph for this function:



5.3.2.6 findPeopleBornBetween()

This method finds a list of people born between passed years

Parameters

yearMin	int
yearMax	int

Returns

List<Person> list of found people

Here is the caller graph for this function:



5.3.2.7 findPeopleByBirthplace()

```
List< Person > people.People.findPeopleByBirthplace ( String \ birthplace \ )
```

This method finds a list of people with the passed birthplace

Parameters

```
birthplace String
```

Returns

List<Person> list of found people

Here is the caller graph for this function:



5.3.2.8 findPeopleByHome()

This method finds a list of people with the passed hometown

Parameters

home	String
------	--------

Returns

List<Person> list of found people

Here is the caller graph for this function:



5.3.2.9 findPersonByld()

```
Person people.People.findPersonById ( {\tt String} \ \textit{id} \ )
```

This method finds Person object with corresponding ID in people list.

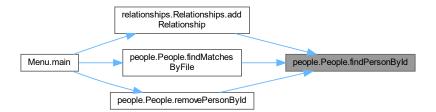
Parameters



Returns

Person object

Here is the caller graph for this function:



5.3.2.10 findPersonBySurname()

```
List< Person > people.People.findPersonBySurname ( String \ surname \ )
```

This method finds List of Person objects with corresponding surname in people list.

Parameters

surname string

Returns

List<Person> object

Here is the caller graph for this function:



5.3.2.11 getPeople()

```
List < Person > people.People.getPeople ( )
```

Getter for a people field.

Returns

list of Person type objects.

5.3.2.12 printAllClasses()

```
void people.People.printAllClasses ( )
```

This function prints all movies classes and all the people who like them Here is the caller graph for this function:



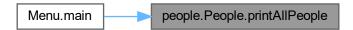
5.3.2.13 printAllPeople()

```
void people.People.printAllPeople ( )
```

This method prints out the list of all the people loaded to the program. Here is the call graph for this function:



Here is the caller graph for this function:



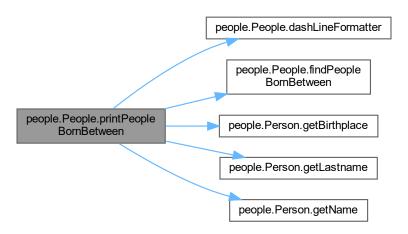
5.3.2.14 printPeopleBornBetween()

This method prints people born between passed years

Parameters

yearMin	int
yearMax	int

Here is the call graph for this function:



Here is the caller graph for this function:



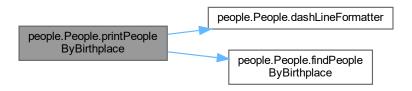
5.3.2.15 printPeopleByBirthplace()

This method prints people with a given birthplace

Parameters

birthplace	String

Here is the call graph for this function:



Here is the caller graph for this function:



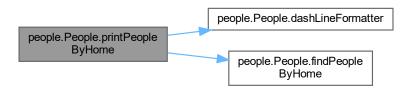
5.3.2.16 printPeopleByHome()

This method prints people with a given hometown

Parameters

home String

Here is the call graph for this function:



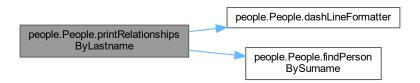
5.3.2.17 printRelationshipsByLastname()

This method prints relationships of people with a given lastname

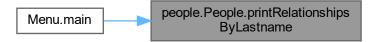
Parameters

lastname	String
relationships	Relationships

Here is the call graph for this function:



Here is the caller graph for this function:



5.3.2.18 quicksortByBirthplaceSurnameAndName()

```
\verb"void people.People.quicksortByBirthplaceSurnameAndName" ( )\\
```

This function sorts people by birthplace surname and name with QuickSort Here is the caller graph for this function:



5.3.2.19 removePersonByld()

```
void people.People.removePersonById ( {\tt String} \ id \ )
```

This method removes person with a certain id from the list of people If person with that id does not exist, prints out a message

Parameters



Here is the call graph for this function:



Here is the caller graph for this function:



5.3.2.20 setPeople()

```
void people.
People.setPeople ( \label{eq:people} {\tt List} < {\tt Person} \, > \, people \; )
```

Setter for a people field.

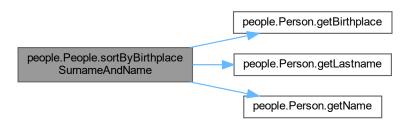
Parameters

people is list of Person type objects.

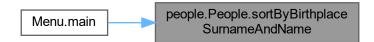
5.3.2.21 sortByBirthplaceSurnameAndName()

```
void people.People.sortByBirthplaceSurnameAndName ( )
```

This function sorts people by birthplace surname and name with build-in sort Here is the call graph for this function:



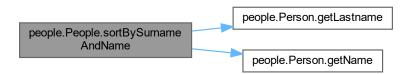
Here is the caller graph for this function:



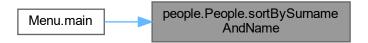
5.3.2.22 sortBySurnameAndName()

```
void people.People.sortBySurnameAndName ( )
```

This function sorts people by surname and name with build-in sort Here is the call graph for this function:



Here is the caller graph for this function:



5.3.2.23 sortClasses()

```
void people.People.sortClasses ( )
```

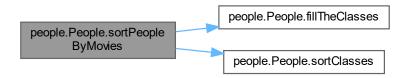
This function sorts the classes of movies by number of people who likes them Here is the caller graph for this function:



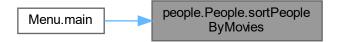
5.3.2.24 sortPeopleByMovies()

```
void people.People.sortPeopleByMovies ( )
```

This function sorts people by most common movies sets it creates the classes, sort them and then get sorted people from hashmap Here is the call graph for this function:



Here is the caller graph for this function:



5.3.2.25 writeToFile()

```
void people.People.writeToFile ( {\tt String} \ \textit{filename} \ ) \ {\tt throws} \ {\tt IOException}
```

This method writes string to given file name.

Parameters

filename	string
----------	--------

Exceptions

IOException	This throws could occur when writing to a file
-------------	--

Here is the call graph for this function:



Here is the caller graph for this function:



5.3.3 Member Data Documentation

5.3.3.1 FIRST_LINE_PEOPLE

final String people.People.FIRST_LINE_PEOPLE = "idperson, name, lastname, birthdate, gender, birthplace, home, studie
[static]

5.3.3.2 profiles

```
HashMap<List<String>, List<Person> > people.People.profiles = new HashMap<>()
```

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

• D:/Projekty/DSA_ehu_JavaProject/src/people/People.java

5.4 people.Person Class Reference

Public Member Functions

- boolean equals (Object o)
- int hashCode ()
- Person (String idPerson, String name, String lastname, Date birthdate, char gender, String birthplace, String home, List< String > studiedAt, List< String > workplaces, List< String > films, String groupCode)
- String getIdPerson ()
- void setIdPerson (String idPerson)
- String getName ()
- void setName (String name)
- String getLastname ()
- void setLastname (String lastname)
- Date getBirthdate ()
- void setBirthdate (Date birthdate)
- char getGender ()
- void setGender (char gender)
- String getBirthplace ()
- void setBirthplace (String birthplace)
- String getHome ()
- void setHome (String home)
- List< String > getStudiedAt ()
- void setStudiedAt (List< String > studiedAt)
- List< String > getWorkplaces ()
- void setWorkplaces (List< String > workplaces)
- List< String > getFilms ()
- void setFilms (List< String > films)
- String getGroupCode ()
- void setGroupCode (String groupCode)
- String toString ()

5.4.1 Constructor & Destructor Documentation

5.4.1.1 Person()

All-argument constructor for a Person class.

Parameters

idPerson	String contains user ID
name	String contains username
lastname	String contains lastname
birthdate	Date contains birthdate
gender	char contains 'M' as 'male' / 'F' as 'female'
birthplace	String contains birthplace
home	String contains name of hometown
studiedAt	list of Strings contains name of university
workplaces	list of Strings contains workplaces
films	list of Strings contains favourites movie titles
groupCode	String contains group code

5.4.2 Member Function Documentation

5.4.2.1 equals()

```
boolean people.Person.equals ( {\tt Object} \ o \ )
```

This method compares this object with object given in parameter. It overrides default method and allows us to use '==' operator.

Parameters

o is an object of undefined type

Returns

boolean

Here is the call graph for this function:



Here is the caller graph for this function:



5.4.2.2 getBirthdate()

Date people.Person.getBirthdate ()

Getter for a birthdate field.

Returns

Date type object.

5.4.2.3 getBirthplace()

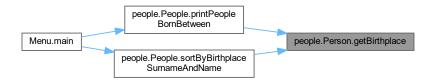
String people.Person.getBirthplace ()

Getter for a birthplace field.

Returns

String type object.

Here is the caller graph for this function:



5.4.2.4 getFilms()

```
List< String > people.Person.getFilms ( )
```

Getter for a films field.

Returns

List of String type objects.

5.4.2.5 getGender()

```
char people.Person.getGender ( )
```

Getter for a gender field.

Returns

char type object.

5.4.2.6 getGroupCode()

String people.Person.getGroupCode ()

Getter for a groupCode field.

Returns

String type object.

5.4.2.7 getHome()

```
String people.Person.getHome ( )
```

Getter for a getHome field.

Returns

String type object.

5.4.2.8 getIdPerson()

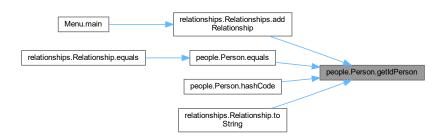
```
String people.Person.getIdPerson ( )
```

Getter for a idPerson field.

Returns

String type object.

Here is the caller graph for this function:



5.4.2.9 getLastname()

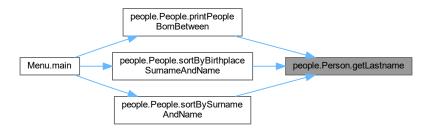
String people.Person.getLastname ()

Getter for a lastname field.

Returns

String type object.

Here is the caller graph for this function:



5.4.2.10 getName()

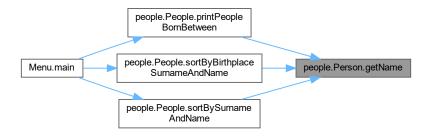
String people.Person.getName ()

Getter for a name field.

Returns

String type object.

Here is the caller graph for this function:



5.4.2.11 getStudiedAt()

```
List< String > people.Person.getStudiedAt ( )
```

Getter for a studiedAt field.

Returns

List of String type objects.

5.4.2.12 getWorkplaces()

```
List< String > people.Person.getWorkplaces ( )
```

Getter for a workplaces field.

Returns

List of String type objects.

5.4.2.13 hashCode()

```
int people.Person.hashCode ( )
```

This method overrides default method and returns the integer hash code value of the object.

Returns

integer

Here is the call graph for this function:



5.4.2.14 setBirthdate()

Setter for a birthdate field.

Parameters

birthdate is a Date type object.

5.4.2.15 setBirthplace()

Setter for a birthplace field.

Parameters

birthplace is a String type object.

5.4.2.16 setFilms()

```
void people.Person.setFilms ( \label{eq:list} \mbox{List} < \mbox{String} \ > \mbox{\it films} \ )
```

Setter for a films field.

Parameters

films is a list of String type object.

5.4.2.17 setGender()

```
void people.Person.setGender ( {\tt char} \ {\it gender} \ )
```

Setter for a gender field.

Parameters

gender is a char type object.

5.4.2.18 setGroupCode()

Setter for a groupCode field.

Parameters

```
groupCode is a String type object.
```

5.4.2.19 setHome()

Setter for a home field.

Parameters

```
home is a String type object.
```

5.4.2.20 setIdPerson()

Setter for a idPerson field.

Parameters

```
idPerson is a String type object.
```

5.4.2.21 setLastname()

Setter for a lastname field.

Parameters

lastname	is a String type object.
----------	--------------------------

5.4.2.22 setName()

Setter for a name field.

Parameters

name	is a String type object.
------	--------------------------

5.4.2.23 setStudiedAt()

```
void people.Person.setStudiedAt ( \label{eq:list} \mbox{List} < \mbox{String} > studiedAt \mbox{ )}
```

Setter for a studiedAt field.

Parameters

studied←	is a list of String type object.
At	

5.4.2.24 setWorkplaces()

```
void people.Person.setWorkplaces ( \label{eq:person} \mbox{List} < \mbox{String} \ > \mbox{\it workplaces} \ )
```

Setter for a workplaces field.

Parameters

workplaces	is a list of String type object.

5.4.2.25 toString()

```
String people.Person.toString ( )
```

This method overrides default method and returns a string representation of this object.

Returns

string

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

• D:/Projekty/DSA_ehu_JavaProject/src/people/Person.java

5.5 people.Quicksort Class Reference

Static Public Member Functions

• static< T extends Comparable< T > void sort (List< Person > list)

5.5.1 Member Function Documentation

5.5.1.1 sort()

```
static< T extends Comparable< T > void people.Quicksort.sort ( List< Person > list ) [static]
```

first method of sorting

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

• D:/Projekty/DSA_ehu_JavaProject/src/people/Quicksort.java

5.6 relationships. Relationship Class Reference

Public Member Functions

- String toString ()
- boolean equals (Object o)
- int hashCode ()
- Relationship (Person friend1, Person friend2)
- Person getFriend1 ()
- void setFriend1 (Person friend1)
- Person getFriend2 ()
- void setFriend2 (Person friend2)

5.6.1 Detailed Description

This class represents a single relationship between two people. Consists of two objects of type Person. @field friend1 an absolute URL giving the base location of the image @field friend2 the location of the image, relative to the url argument

5.6.2 Constructor & Destructor Documentation

5.6.2.1 Relationship()

Constructor for a Relationships class.

Parameters

friend1	is parameter of Person type.
friend2	is parameter of Person type.

5.6.3 Member Function Documentation

5.6.3.1 equals()

This method compares this object with object given in parameter. It overrides default method and allows us to use '==' operator.

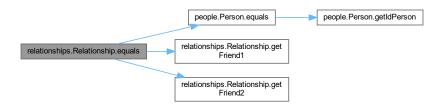
Parameters

o is an object of undefined type

Returns

boolean

Here is the call graph for this function:



5.6.3.2 getFriend1()

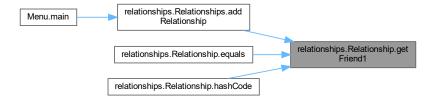
Person relationships.Relationship.getFriend1 ()

Getter for a friend1 field.

Returns

object of Person type.

Here is the caller graph for this function:



5.6.3.3 getFriend2()

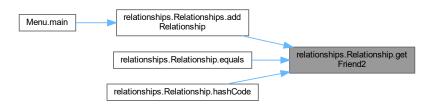
```
Person relationships.Relationship.getFriend2 ( )
```

Getter for a friend2 field.

Returns

object of Person type.

Here is the caller graph for this function:



5.6.3.4 hashCode()

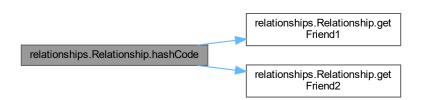
```
int relationships.Relationship.hashCode ( )
```

This method overrides default method and returns the integer hash code value of the object.

Returns

integer

Here is the call graph for this function:



5.6.3.5 setFriend1()

Setter for a friend1 field.

Parameters

friend1	is parameter of Person type.
---------	------------------------------

5.6.3.6 setFriend2()

Setter for a friend2 field.

Parameters

friend2 is parameter of Person	type.
--------------------------------	-------

5.6.3.7 toString()

```
String relationships.Relationship.toString ( )
```

This method returns a string representation of this object.

Returns

string

Here is the call graph for this function:



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

• D:/Projekty/DSA_ehu_JavaProject/src/relationships/Relationship.java

5.7 relationships.Relationships Class Reference

Public Member Functions

- · Relationships ()
- List< Relationship > getRelations ()
- void addRelationship (String list, People ppl)
- String toString ()
- void writeToFile (String filename) throws IOException
- List< Relationship > findRelationshipsByld (String id)
- void deleteRelationship (Relationship r)
- Relationship findRelationshipsByIDs (String id1, String id2)
- void printAllRelationships ()

Static Public Attributes

• static final String FIRST_LINE_RELATIONSHIPS = "friend1,friend2\n"

5.7.1 Constructor & Destructor Documentation

5.7.1.1 Relationships()

```
relationships.Relationships ( )
```

Constructor for a Relationships class.

5.7.2 Member Function Documentation

5.7.2.1 addRelationship()

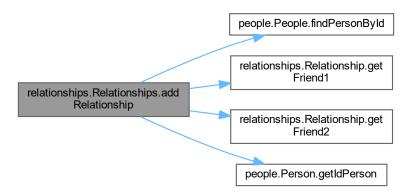
```
void relationships.Relationships.addRelationship ( String \ list, People \ ppl \ )
```

This method check if relationship for two people exists. If not - create relationship between two people and add this relationship to list of relationships.

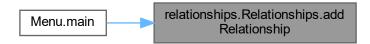
Parameters

list	This parameter is string list which consists two user IDs.
ppl	This parameter is People type object which have list of all users

Here is the call graph for this function:



Here is the caller graph for this function:



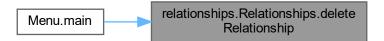
5.7.2.2 deleteRelationship()

Removes passed relationship from the list of relationships

Parameters

r Relation

Here is the caller graph for this function:



5.7.2.3 findRelationshipsByld()

```
List< Relationship > relationships. Relationships. find Relationships By Id ( String id )
```

This method finds every relationship containing passed id

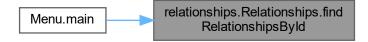
Parameters



Returns

List<Relationship> List of relationships containing that id

Here is the caller graph for this function:



5.7.2.4 findRelationshipsByIDs()

```
Relationship relationships.Relationships.findRelationshipsByIDs ( {\tt String} \ id1, \\ {\tt String} \ id2 \ )
```

This method finds relationship containing passed IDs

Parameters

id1	String
id2	String

Returns

Relationship containing passed IDs

Here is the caller graph for this function:



5.7.2.5 getRelations()

List< Relationship > relationships.Relationships.getRelations ()

Getter for a relations field.

Returns

list of Relationship objects

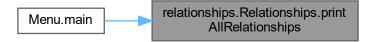
5.7.2.6 printAllRelationships()

void relationships.Relationships.printAllRelationships ()

This method prints out every relationship stored in the program Here is the call graph for this function:



Here is the caller graph for this function:



5.7.2.7 toString()

```
String relationships.Relationships.toString ( )
```

This method overrides default method and returns a string representation of this object.

Returns

string

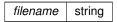
Here is the caller graph for this function:



5.7.2.8 writeToFile()

This method writes string to given file name.

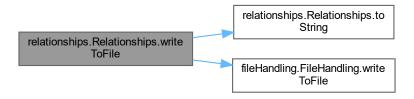
Parameters



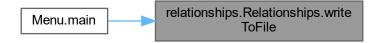
Exceptions

<i>IOException</i>	This throws could occur when writing to a file
--------------------	--

Here is the call graph for this function:



Here is the caller graph for this function:



5.7.3 Member Data Documentation

5.7.3.1 FIRST_LINE_RELATIONSHIPS

final String relationships.Relationships.FIRST_LINE_RELATIONSHIPS = "friend1,friend2\n" [static]

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

• D:/Projekty/DSA_ehu_JavaProject/src/relationships/Relationships.java

5.8 UnitTests Class Reference

Classes

- · class FileHandlingTest
- class MenuTests
- · class PeopleTest
- class PersonTest
- class RelationshipsTest

Public Member Functions

• void done ()

5.8.1 Member Function Documentation

5.8.1.1 done()

```
void UnitTests.done ( )
```

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

• D:/Projekty/DSA_ehu_JavaProject/src/UnitTests.java

Chapter 6

File Documentation

6.1 D:/Projekty/DSA_ehu_JavaProject/src/fileHandling/FileHandling.java File Reference

Classes

• class fileHandling.FileHandling

Packages

- · package fileHandling
- 6.2 D:/Projekty/DSA_ehu_JavaProject/src/Menu.java File Reference

Classes

- class Menu
- 6.3 D:/Projekty/DSA_ehu_JavaProject/src/people/People.java File Reference

Classes

· class people.People

Packages

• package people

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6.4 D:/Projekty/DSA_ehu_JavaProject/src/people/Person.java File Reference

Classes

• class people.Person

Packages

- · package people
- 6.5 D:/Projekty/DSA_ehu_JavaProject/src/people/Quicksort.java File Reference

Classes

· class people.Quicksort

Packages

- · package people
- 6.6 D:/Projekty/DSA_ehu_JavaProject/src/relationships/

 Relationship.java File Reference

Classes

• class relationships.Relationship

Packages

- · package relationships
- 6.7 D:/Projekty/DSA_ehu_JavaProject/src/relationships/

 Relationships.java File Reference

Classes

· class relationships. Relationships

Packages

• package relationships

6.8 D:/Projekty/DSA_ehu_JavaProject/src/UnitTests.java File Reference

Classes

- class UnitTests
- class UnitTests.MenuTests
- · class UnitTests.FileHandlingTest
- class UnitTests.PeopleTest
- class UnitTests.PersonTest
- class UnitTests.RelationshipsTest
- class UnitTests.RelationshipsTest.RelationTest

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