My Project

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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()

```
static List< String > fileHandling.FileHandling.readFile (
            String fileName ) throws FileNotFoundException  [static]
```

This method read lines from the whole file.

Parameters

fileName	is String parameter with a file name

Returns

list of Strings

5.1.2.2 writeToFile()

```
static void fileHandling.FileHandling.writeToFile (
            String output,
            String fileName ) throws IOException  [static]
```

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.

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

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()

```
static void Menu.main (
            String[ ] args )  [static]
```

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

Parameters

args	

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

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 addPersonFromString (String data) throws ParseException
- Person findPersonById (String id)
- void writeToFile (String filename) throws IOException

Static Public Attributes

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

5.3.1 Constructor & Destructor Documentation

5.3.1.1 People()

```
people.People.People ( )
```

Constructor for a People class.

5.3.2 Member Function Documentation

5.3.2.1 addPersonFromString()

```
void people.People.addPersonFromString (
            String data ) throws ParseException
```

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.

5.3.2.2 findPersonById()

```
Person people.People.findPersonById (
             String id )
```

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

Parameters

id	string

Returns

Person object

5.3.2.3 getPeople()

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

Getter for a people field.

Returns

list of Person type objects.

5.3.2.4 setPeople()

```
void people.People.setPeople (
             List< Person > people )
```

Setter for a people field.

Parameters

people	is list of Person type objects.

5.3.2.5 writeToFile()

```
void people.People.writeToFile (
             String filename ) throws IOException
```

This method writes string to given file name.

Parameters

filename	string

Exceptions

IOException	This throws could occur when writing to a file

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]
```

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()

```
people.Person.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 )
```

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 (
            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

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.

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.

5.4.2.9 getLastname()

```
String people.Person.getLastname ( )
```

Getter for a lastname field.

Returns

String type object.

5.4.2.10 getName()

```
String people.Person.getName ( )
```

Getter for a name field.

Returns

String type object.

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

5.4.2.14 setBirthdate()

```
void people.Person.setBirthdate (
             Date birthdate )
```

Setter for a birthdate field.

Parameters

birthdate	is a Date type object.

5.4.2.15 setBirthplace()

```
void people.Person.setBirthplace (
             String birthplace )
```

Setter for a birthplace field.

Parameters

birthplace	is a String type object.

5.4.2.16 setFilms()

```
void people.Person.setFilms (
             List< String > films )
```

Setter for a films field.

Parameters

films	is a list of String type object.

5.4.2.17 setGender()

```
void people.Person.setGender (
             char gender )
```

Setter for a gender field.

Parameters

gender	is a char type object.

5.4.2.18 setGroupCode()

```
void people.Person.setGroupCode (
             String groupCode )
```

Setter for a groupCode field.

Parameters

groupCode	is a String type object.

5.4.2.19 setHome()

```
void people.Person.setHome (
             String home )
```

Setter for a home field.

Parameters

home	is a String type object.

5.4.2.20 setIdPerson()

```
void people.Person.setIdPerson (
             String idPerson )
```

Setter for a idPerson field.

Parameters

idPerson	is a String type object.

5.4.2.21 setLastname()

```
void people.Person.setLastname (
             String lastname )
```

Setter for a lastname field.

Parameters

lastname	is a String type object.

5.4.2.22 setName()

```
void people.Person.setName (
             String name )
```

Setter for a name field.

Parameters

name	is a String type object.

5.4.2.23 setStudiedAt()

```
void people.Person.setStudiedAt (
            List< String > studiedAt )
```

Setter for a studiedAt field.

Parameters

studied↩ At	is a list of String type object.

5.4.2.24 setWorkplaces()

```
void people.Person.setWorkplaces (
            List< String > 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 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)

5.5.1 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

5.5.2 Constructor & Destructor Documentation

5.5.2.1 Relationship()

```
relationships.Relationship.Relationship (
            Person friend1,
            Person friend2 )
```

Constructor for a Relationships class.

Parameters

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

5.5.3 Member Function Documentation

5.5.3.1 equals()

```
boolean relationships.Relationship.equals (
            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

5.5.3.2 getFriend1()

```
Person relationships.Relationship.getFriend1 ( )
```

Getter for a friend1 field.

Returns

object of Person type.

5.5.3.3 getFriend2()

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

Getter for a friend2 field.

Returns

object of Person type.

5.5.3.4 hashCode()

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

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

Returns

integer

5.5.3.5 setFriend1()

```
void relationships.Relationship.setFriend1 (
            Person friend1 )
```

Setter for a friend1 field.

Parameters

friend1	is parameter of Person type.

5.5.3.6 setFriend2()

```
void relationships.Relationship.setFriend2 (
            Person friend2 )
```

Setter for a friend2 field.

Parameters

friend2	is parameter of Person type.

5.5.3.7 toString()

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

This method 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/relationships/Relationship.java

5.6 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

Static Public Attributes

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

5.6.1 Constructor & Destructor Documentation

5.6.1.1 Relationships()

```
relationships.Relationships.Relationships ( )
```

Constructor for a Relationships class.

5.6.2 Member Function Documentation

5.6.2.1 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

5.6.2.2 getRelations()

```
List< Relationship > relationships.Relationships.getRelations ( )
```

Getter for a relations field.

Returns

list of Relationship objects

5.6.2.3 toString()

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

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

Returns

string

5.6.2.4 writeToFile()

```
void relationships.Relationships.writeToFile (
             String filename ) throws IOException
```

This method writes string to given file name.

Parameters

filename	string

Exceptions

IOException	This throws could occur when writing to a file

5.6.3 Member Data Documentation

5.6.3.1 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

5.7 UnitTests Class Reference

Classes

- class **FileHandlingTest**
- class **MenuTests**
- class **PeopleTest**
- class **PersonTest**
- class **RelationshipsTest**

Public Member Functions

- void done ()

5.7.1 Member Function Documentation

5.7.1.1 done()

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

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

- D:/Projekty/DSA_ehu_JavaProject/src/tests/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

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/relationships/↩ Relationship.java File Reference

Classes

- class relationships.Relationship

Packages

- package relationships

6.6 D:/Projekty/DSA_ehu_JavaProject/src/relationships/↩ Relationships.java File Reference

Classes

- class relationships.Relationships

Packages

- package relationships

6.7 D:/Projekty/DSA_ehu_JavaProject/src/tests/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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