# My Project

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# Chapter 1

# Namespace Index

## 1.1 Package List

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people . . . . . 7
relationships . . . . . 7
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# Class Index

## 2.1 Class List

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people.Person . . . . . 13
relationships.Relationship . . . . . 21
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# File Index

## 3.1 File List

Here is a list of all files with brief descriptions:


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fileHandling/FileHandling.java . . . . . 29
people/People.java . . . . . 29
people/Person.java . . . . . 29
relationships/Relationship.java . . . . . 30
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# Chapter 4

# Namespace Documentation

## 4.1 Package fileHandling

### Classes

- class FileHandling

## 4.2 Package people

### Classes

- class People
- class Person

## 4.3 Package relationships

### Classes

- class Relationship
- class Relationships

## 4.4 Package tests

### Classes

- class testPeople

# Chapter 5

# Class Documentation

## 5.1 fileHandling.FileHandling Class Reference

### Static Public Member Functions

- static List< String > readFile (String fileName)
- 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 )  [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:

- 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:

- 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,filr

### 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:

- 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:

- 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:

- 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:

- relationships/Relationships.java

## 5.7 tests.testPeople Class Reference

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

- tests/testPeople.java

# Chapter 6

# File Documentation

## 6.1 fileHandling/FileHandling.java File Reference

### Classes

- class fileHandling.FileHandling

### Packages

- package fileHandling

## 6.2 Menu.java File Reference

### Classes

- class Menu

## 6.3 people/People.java File Reference

### Classes

- class people.People

### Packages

- package people

## 6.4 people/Person.java File Reference

### Classes

- class people.Person

### Packages

- package people

## 6.5 relationships/Relationship.java File Reference

### Classes

- class relationships.Relationship

### Packages

- package relationships

## 6.6 relationships/Relationships.java File Reference

### Classes

- class relationships.Relationships

### Packages

- package relationships

## 6.7 tests/testPeople.java File Reference

### Classes

- class tests.testPeople

### Packages

- package tests

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