

## My Project

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# Chapter 1

## Namespace Index

### 1.1 Package List

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

<a href="#">fileHandling</a>	.....	<a href="#">7</a>
<a href="#">people</a>	.....	<a href="#">7</a>
<a href="#">relationships</a>	.....	<a href="#">7</a>





## Chapter 2

# Class Index

### 2.1 Class List

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

<a href="#">fileHandling.FileHandling</a>	9
<a href="#">Menu</a>	11
<a href="#">people.People</a>	13
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<a href="#">relationships.Relationship</a>	29
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<a href="#">UnitTests</a>	40



## 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 . . . . .	41
D:/Projekty/Dsa_ehu_JavaProject/src/fileHandling/FileHandling.java . . . . .	41
D:/Projekty/Dsa_ehu_JavaProject/src/people/People.java . . . . .	41
D:/Projekty/Dsa_ehu_JavaProject/src/people/Person.java . . . . .	42
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D:/Projekty/Dsa_ehu_JavaProject/src/relationships/Relationships.java . . . . .	42
D:/Projekty/Dsa_ehu_JavaProject/src/tests/UnitTests.java . . . . .	42



## 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](#)



## Chapter 5

# Class Documentation

### 5.1 fileHandling.FileHandling Class Reference

Collaboration diagram for fileHandling.FileHandling:

```
{fileHandling.FileHandling
||+ static List< String
> readFile(String fileName)
+ static void writeToFile
(String output, String
fileName)
}
```

#### 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**

<i>fileName</i>	is String parameter with a file name
-----------------	--------------------------------------

**Returns**

list of Strings

Here is the caller graph for this function:

**5.1.2.2 writeToFile()**

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

This method write String to the file.

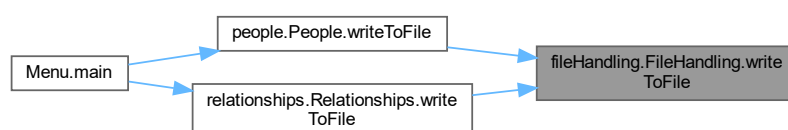
**Parameters**

<i>output</i>	String which will be written to file
<i>fileName</i>	String contains name of file where output will be written

**Exceptions**

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

Here is the caller graph for this function:



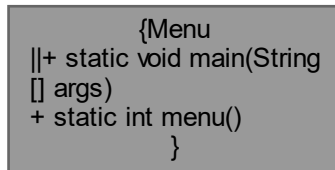


The documentation for this class was generated from the following file:

- D:/Projekty/DSA\_ehu\_JavaProject/src/fileHandling/[FileHandling.java](#)

## 5.2 Menu Class Reference

Collaboration diagram for Menu:



### 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\(\)](#)

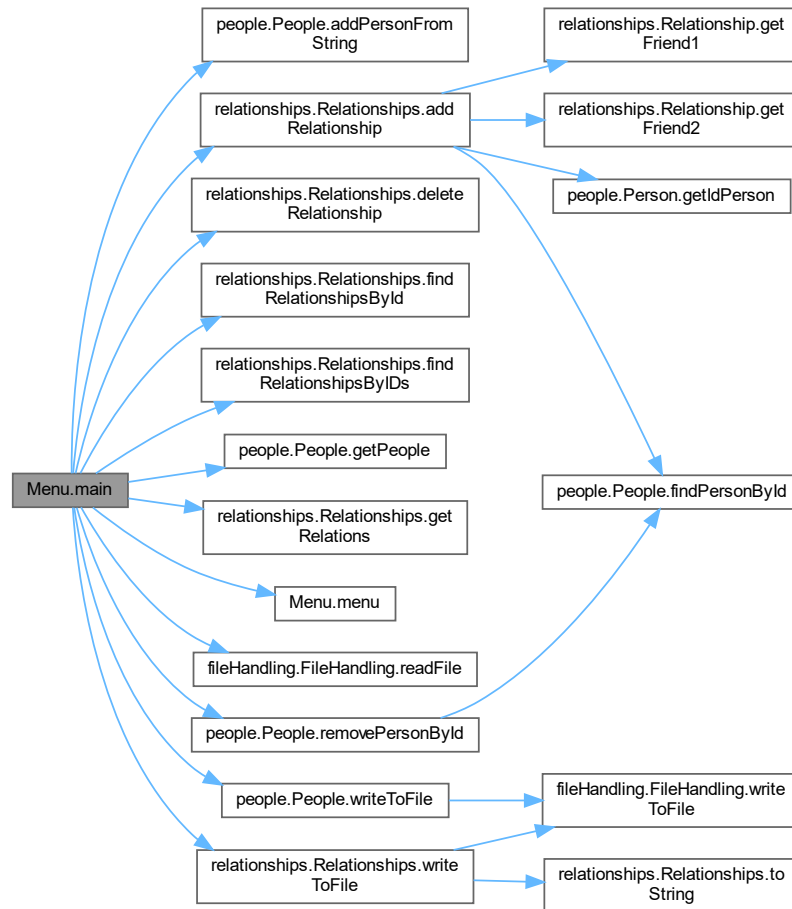
```
static void Menu.main (  
    String[] args ) [static]
```

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

##### Parameters

<i>args</i>	
-------------	--

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:

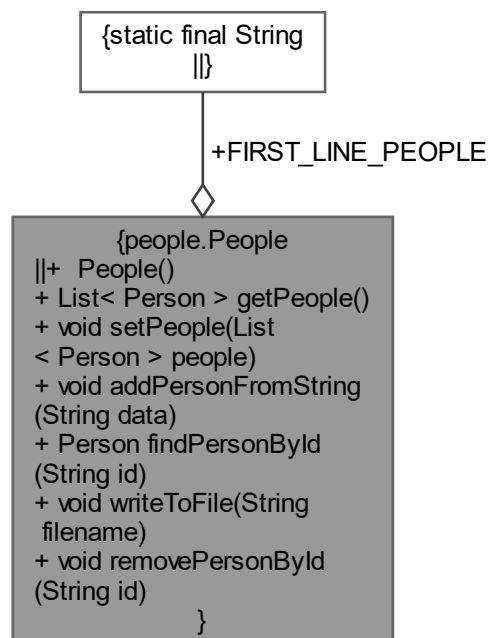


The documentation for this class was generated from the following file:

- [D:/Projekty/DSA\\_ehu\\_JavaProject/src/Menu.java](#)

## 5.3 people.People Class Reference

Collaboration diagram for people.People:



## 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
- void [removePersonById](#) (String id)

## Static Public Attributes

- static final String [FIRST\\_LINE\\_PEOPLE](#) = "idperson,name,lastname,birthdate,gender,birthplace,home,studiedat,workplaces,fil

## 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

<i>data</i>	is string containing data for creating a new object of <a href="#">Person</a> class.
-------------	--

#### Exceptions

<i>ParseException</i>	Signals that an error has been reached unexpectedly while parsing.
-----------------------	--

Here is the caller graph for this function:



### 5.3.2.2 findPersonById()

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

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

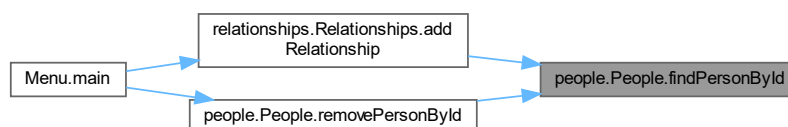
#### Parameters

<i>id</i>	string
-----------	--------

#### Returns

`Person` object

Here is the caller graph for this function:



### 5.3.2.3 getPeople()

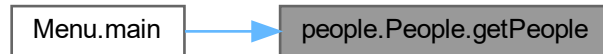
```
List< Person > people.People.getPeople ( )
```

Getter for a people field.

**Returns**

list of [Person](#) type objects.

Here is the caller graph for this function:

**5.3.2.4 removePersonById()**

```
void people.People.removePersonById (  
    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.

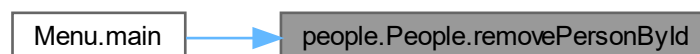
**Parameters**

<i>id</i>	String
-----------	--------

Here is the call graph for this function:



Here is the caller graph for this function:



### 5.3.2.5 setPeople()

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

Setter for a people field.

#### Parameters

<i>people</i>	is list of <a href="#">Person</a> type objects.
---------------	---

### 5.3.2.6 writeToFile()

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

This method writes string to given file name.

#### Parameters

<i>filename</i>	string
-----------------	--------

#### 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:



### 5.3.3 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

Collaboration diagram for people.Person:

```
{people.Person
||+ 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()
}
```

### 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

<i>idPerson</i>	String contains user ID
<i>name</i>	String contains username
<i>lastname</i>	String contains lastname
<i>birthdate</i>	Date contains birthdate

## Parameters

<i>gender</i>	char contains 'M' as 'male' / 'F' as 'female'
<i>birthplace</i>	String contains birthplace
<i>home</i>	String contains name of hometown
<i>studiedAt</i>	list of Strings contains name of university
<i>workplaces</i>	list of Strings contains workplaces
<i>films</i>	list of Strings contains favourites movie titles
<i>groupCode</i>	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

<i>o</i>	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.

#### 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()

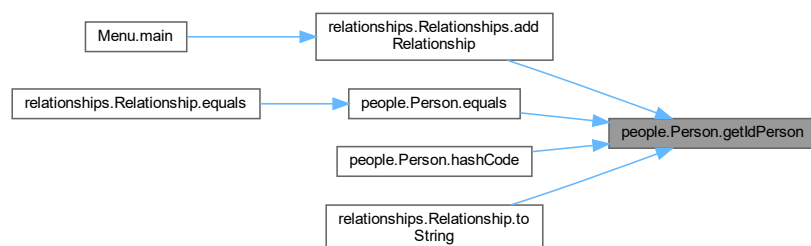
```
String people.Person.getIdPerson ( )
```

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.

#### 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

Here is the call graph for this function:



#### 5.4.2.14 setBirthdate()

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

Setter for a birthdate field.

##### Parameters

<i>birthdate</i>	is a Date type object.
------------------	------------------------

#### 5.4.2.15 setBirthplace()

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

Setter for a birthplace field.

##### Parameters

<i>birthplace</i>	is a String type object.
-------------------	--------------------------

#### 5.4.2.16 setFilms()

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

Setter for a films field.

##### Parameters

<i>films</i>	is a list of String type object.
--------------	----------------------------------

#### 5.4.2.17 setGender()

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

Setter for a gender field.

##### Parameters

<i>gender</i>	is a char type object.
---------------	------------------------

#### 5.4.2.18 setGroupCode()

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

Setter for a groupCode field.

##### Parameters

<i>groupCode</i>	is a String type object.
------------------	--------------------------

#### 5.4.2.19 setHome()

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

Setter for a home field.



## Parameters

<i>home</i>	is a String type object.
-------------	--------------------------

**5.4.2.20 setIdPerson()**

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

Setter for a idPerson field.

## Parameters

<i>idPerson</i>	is a String type object.
-----------------	--------------------------

**5.4.2.21 setLastname()**

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

Setter for a lastname field.

## Parameters

<i>lastname</i>	is a String type object.
-----------------	--------------------------

**5.4.2.22 setName()**

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

Setter for a name field.

## Parameters

<i>name</i>	is a String type object.
-------------	--------------------------

#### 5.4.2.23 setStudiedAt()

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

Setter for a *studiedAt* field.

##### Parameters

<i>studiedAt</i>	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

<i>workplaces</i>	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

Collaboration diagram for relationships.Relationship:

```
{relationships.Relationship
||+ 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)
}
```

### 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

<i>friend1</i>	is parameter of Person type.
<i>friend2</i>	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.

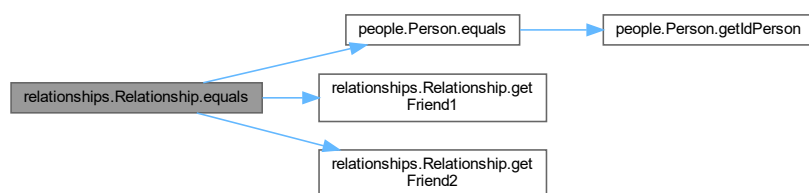
## Parameters

<i>o</i>	is an object of undefined type
----------	--------------------------------

## Returns

boolean

Here is the call graph for this function:



#### 5.5.3.2 getFriend1()

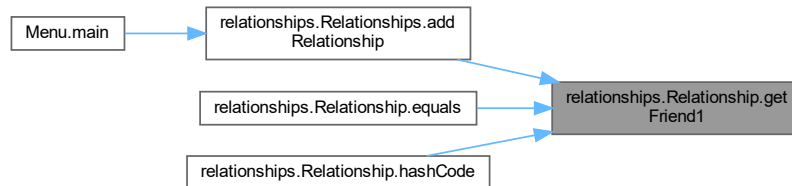
```
Person relationships.Relationship.getFriend1 ( )
```

Getter for a friend1 field.

**Returns**

object of Person type.

Here is the caller graph for this function:

**5.5.3.3 getFriend2()**

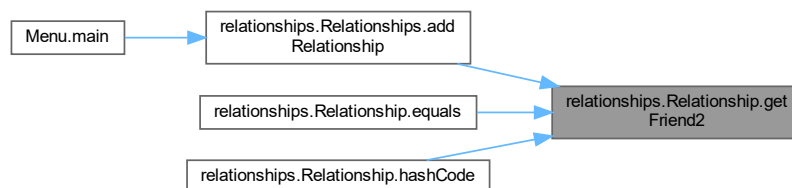
```
Person relationships.Relationship.getFriend2 ( )
```

Getter for a friend2 field.

**Returns**

object of Person type.

Here is the caller graph for this function:



#### 5.5.3.4 hashCode()

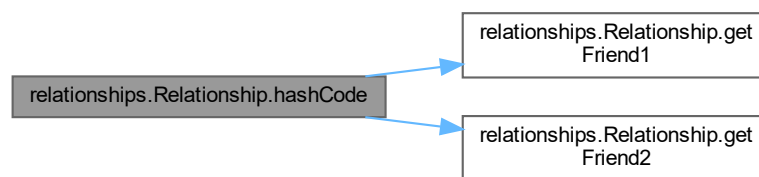
```
int relationships.Relationship.hashCode ( )
```

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

##### Returns

integer

Here is the call graph for this function:



#### 5.5.3.5 setFriend1()

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

Setter for a friend1 field.

##### Parameters

<i>friend1</i>	is parameter of Person type.
----------------	------------------------------

#### 5.5.3.6 setFriend2()

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

Setter for a friend2 field.

##### Parameters

<i>friend2</i>	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

Here is the call graph for this function:

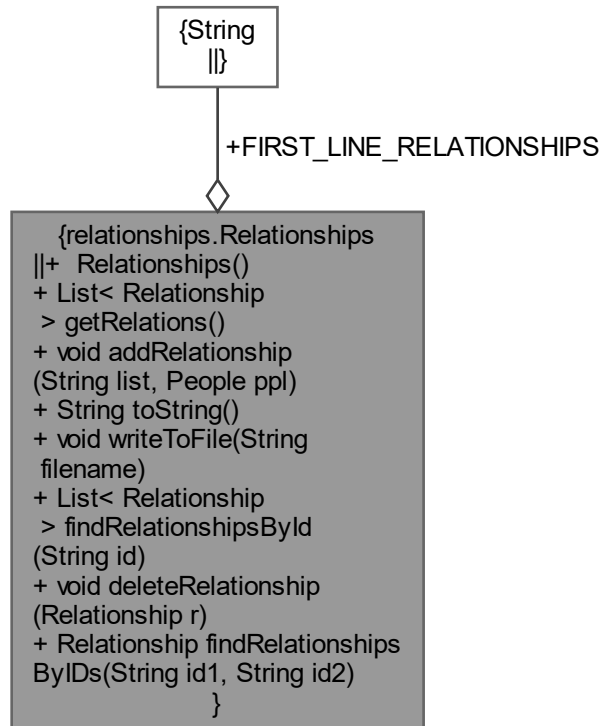


The documentation for this class was generated from the following file:

- [D:/Projekty/DSA\\_ehu\\_JavaProject/src/relationships/Relationship.java](#)

## 5.6 relationships.Relationships Class Reference

Collaboration diagram for relationships.Relationships:



### Public Member Functions

- [Relationships \(\)](#)
- [List< Relationship > getRelations \(\)](#)
- [void addRelationship \(String list, People ppl\)](#)
- [String toString \(\)](#)
- [void writeToFile \(String filename\) throws IOException](#)
- [List< Relationship > findRelationshipsById \(String id\)](#)
- [void deleteRelationship \(Relationship r\)](#)
- [Relationship findRelationshipsByIDs \(String id1, String id2\)](#)

### 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()

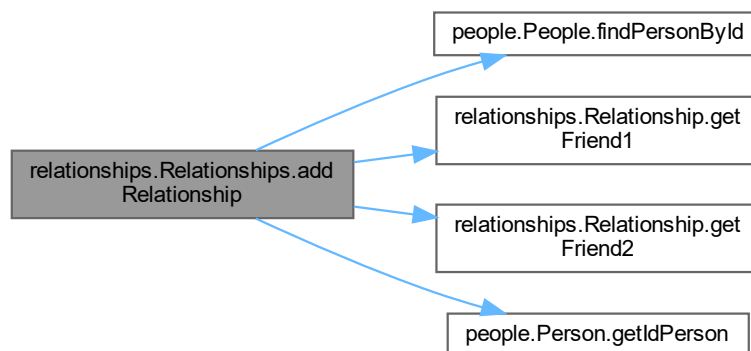
```
void relationships.Relationships.addRelationship (
    String list,
    People ppl )
```

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

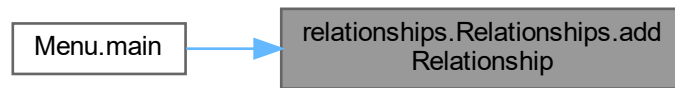
#### Parameters

<i>list</i>	This parameter is string list which consists two user IDs.
<i>ppl</i>	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:



#### 5.6.2.2 deleteRelationship()

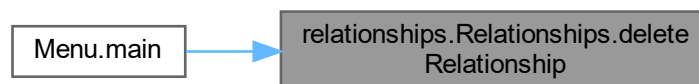
```
void relationships.Relationships.deleteRelationship (
    Relationship r )
```

Removes passed relationship from the list of relationships

##### Parameters

<i>r</i>	Relation
----------	----------

Here is the caller graph for this function:



#### 5.6.2.3 findRelationshipsById()

```
List< Relationship > relationships.Relationships.findRelationshipsById (
    String id )
```

This method finds every relationship containing passed id

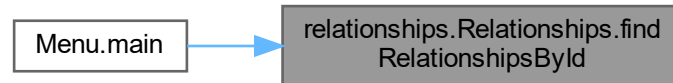
##### Parameters

<i>id</i>	String
-----------	--------

**Returns**

List<Relationship> List of relationships containing that id

Here is the caller graph for this function:

**5.6.2.4 findRelationshipsByIds()**

```
Relationship relationships.Relationships.findRelationshipsByIds (
    String id1,
    String id2 )
```

This method finds relationship containing passed IDs

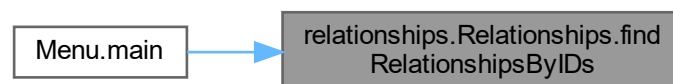
**Parameters**

<i>id1</i>	String
<i>id2</i>	String

**Returns**

Relationship containing passed IDs

Here is the caller graph for this function:



### 5.6.2.5 getRelations()

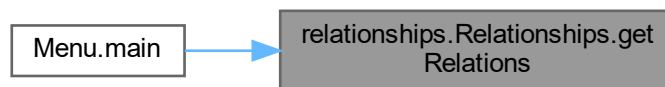
```
List< Relationship > relationships.Relationships.getRelations ( )
```

Getter for a relations field.

#### Returns

list of [Relationship](#) objects

Here is the caller graph for this function:



### 5.6.2.6 toString()

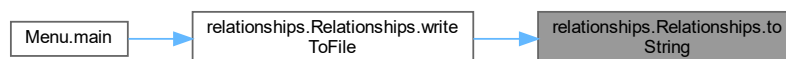
```
String relationships.Relationships.toString ( )
```

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

#### Returns

string

Here is the caller graph for this function:



### 5.6.2.7 writeToFile()

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

This method writes string to given file name.

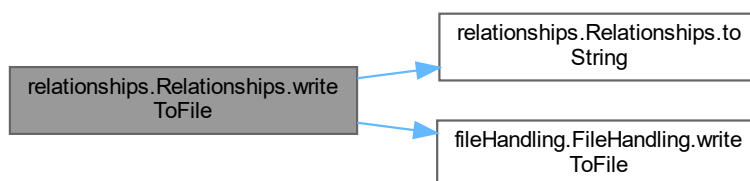
## Parameters

<i>filename</i>	string
-----------------	--------

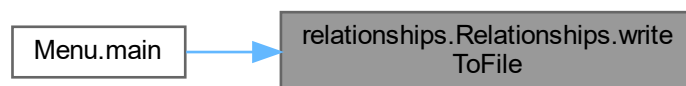
## Exceptions

<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:



### 5.6.3 Member Data Documentation

#### 5.6.3.1 FIRST\_LINE\_RELATIONSHIPS

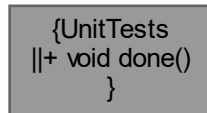
```
final String relationships.Relationships.FIRST_LINE_RELATIONSHIPS = "friend1,friend2\n" [static]
```

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

Collaboration diagram for UnitTests:



### 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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