

AlonProject

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

Main	13
MongoDB	14
Remote	
RMInterface	18
Server	22
Serializable	
CreateUserRoot	7
Delete	10
Email	12
UnicastRemoteObject	
Server	22

Chapter 2

Class Index

2.1 Class List

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

CreateUserRoot	7
Delete	10
Email	12
Main	13
MongoDB	14
RMIInterface	18
Server	22

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

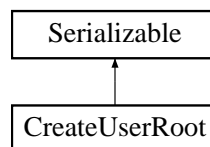
D:/ud/temp/SPQ08/mailServer/src/main/java/ CreateUserRoot.java	27
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Chapter 4

Class Documentation

4.1 CreateUserRoot Class Reference

Inheritance diagram for CreateUserRoot:



Public Member Functions

- boolean `equals` (Object o)
- int `hashCode` ()
- String `toString` ()
- String `getUserRoot` ()
- void `setUserRoot` (String userRoot)
- String `getPassRoot` ()
- void `setPassRoot` (String passRoot)
- String `getUserCreate` ()
- void `setUserCreate` (String userCreate)
- String `getPassUserCreate` ()
- void `setPassUserCreate` (String passUserCreate)
- boolean `isUserRightsRoot` ()
- void `setUserRightsRoot` (boolean userRightsRoot)
- `CreateUserRoot` (String userRoot, String passRoot, String userCreate, String passUserCreate, boolean userRightsRoot)

4.1.1 Detailed Description

Created by inigo on 14/05/17.

4.1.2 Constructor & Destructor Documentation

4.1.2.1 CreateUserRoot()

```
CreateUserRoot.CreateUserRoot (
    String userRoot,
    String passRoot,
    String userCreate,
    String passUserCreate,
    boolean userRightsRoot )
```

4.1.3 Member Function Documentation

4.1.3.1 equals()

```
boolean CreateUserRoot.equals (
    Object o )
```

4.1.3.2 getPassRoot()

```
String CreateUserRoot.getPassRoot ( )
```

4.1.3.3 getPassUserCreate()

```
String CreateUserRoot.getPassUserCreate ( )
```

4.1.3.4 getUserCreate()

```
String CreateUserRoot.getUserCreate ( )
```

4.1.3.5 getUserRoot()

```
String CreateUserRoot.getUserRoot ( )
```

4.1.3.6 hashCode()

```
int CreateUserRoot.hashCode ( )
```

4.1.3.7 isUserRightsRoot()

```
boolean CreateUserRoot.isUserRightsRoot ( )
```

4.1.3.8 setPassRoot()

```
void CreateUserRoot.setPassRoot (
    String passRoot )
```

4.1.3.9 setPassUserCreate()

```
void CreateUserRoot.setPassUserCreate (
    String passUserCreate )
```

4.1.3.10 setUserCreate()

```
void CreateUserRoot.setUserCreate (
    String userCreate )
```

4.1.3.11 setUserRightsRoot()

```
void CreateUserRoot.setUserRightsRoot (
    boolean userRightsRoot )
```

4.1.3.12 setUserRoot()

```
void CreateUserRoot.setUserRoot (
    String userRoot )
```

4.1.3.13 toString()

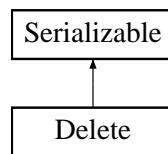
```
String CreateUserRoot.toString ( )
```

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

- D:/ud/temp/SPQ08/mailServer/src/main/java/[CreateUserRoot.java](#)

4.2 Delete Class Reference

Inheritance diagram for Delete:



Public Member Functions

- [Delete](#) (String user, String source, Long date)
- String [getUser](#) ()
- void [setUser](#) (String user)
- String [getSource](#) ()
- void [setSource](#) (String source)
- Long [getDate](#) ()
- void [setDate](#) (Long date)
- String [toString](#) ()

4.2.1 Detailed Description

Created by Maria Blaja on 4/28/2017.

4.2.2 Constructor & Destructor Documentation

4.2.2.1 Delete()

```
Delete.Delete (
    String user,
    String source,
    Long date )
```


4.2.3 Member Function Documentation

4.2.3.1 getDate()

```
Long Delete.getDate ( )
```

4.2.3.2 getSource()

```
String Delete.getSource ( )
```

4.2.3.3 getUser()

```
String Delete.getUser ( )
```

4.2.3.4 setDate()

```
void Delete.setDate (
    Long date )
```

4.2.3.5 setSource()

```
void Delete.setSource (
    String source )
```

4.2.3.6 setUser()

```
void Delete.setUser (
    String user )
```

4.2.3.7 toString()

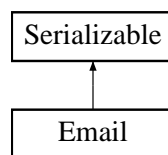
```
String Delete.toString ( )
```

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

- D:/ud/temp/SPQ08/mailServer/src/main/java/[Delete.java](#)

4.3 Email Class Reference

Inheritance diagram for Email:



Public Member Functions

- [Email](#) (String source, String target, String header, String message)
- [Email](#) (String target, String source, String header, String message, Long time)
- String [toString](#) ()

4.3.1 Detailed Description

Created by inigo on 4/04/17.

4.3.2 Constructor & Destructor Documentation

4.3.2.1 Email() [1/2]

```
Email.Email (
    String source,
    String target,
    String header,
    String message )
```

Use on user

Parameters

<i>source</i>	
<i>target</i>	
<i>header</i>	
<i>message</i>	

4.3.2.2 Email() [2/2]

```
Email.Email (
    String target,
    String source,
    String header,
    String message,
    Long time )
```

Use on server when queried

Parameters

<i>source</i>	
<i>header</i>	
<i>message</i>	
<i>time</i>	

4.3.3 Member Function Documentation

4.3.3.1 toString()

```
String Email.toString ( )
```

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

- D:/ud/temp/SPQ08/mailServer/src/main/java/[Email.java](#)

4.4 Main Class Reference

Static Public Member Functions

- static void [main](#) (String[] args)

4.4.1 Detailed Description

Created by inigo on 30/03/17.

4.4.2 Member Function Documentation

4.4.2.1 main()

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

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

- D:/ud/temp/SPQ08/mailServer/src/main/java/[Main.java](#)

4.5 MongoDB Class Reference

Public Member Functions

- String [getDatabaseName](#) ()
- String [getDatabasePassword](#) ()
- String [getUserCollection](#) ()
- [MongoDB](#) ()
- DB [getDb](#) ()
- void [setDb](#) (DB db)
- DBCollection [getDbPasswordCollection](#) ()
- void [setDbPasswordCollection](#) (DBCollection dbPasswordCollection)
- boolean [sign_up](#) (String user, String password, Boolean rootRights)
- boolean [updatePassword](#) (String user, String oldPass, String pass)
- boolean [sign_in](#) (String user, String password)
- boolean [sign_in_as_root](#) (String user, String password)
- void [save_emails](#) ([Email](#) email) throws Exception
- ArrayList< [Email](#) > [getEmails](#) (String user)
- boolean [delete_message](#) ([Delete](#) del)

4.5.1 Detailed Description

Created by inigo on 30/03/17. <http://www.mkyong.com/mongodb/java-mongodb-hello-world-example/>
<http://howtodoinjava.com/nosql/mongodb/java-mongodb-insert-documents-in-collection-example/>
 Crear 1 colección por usuario -> los documentos serán los correos

4.5.2 Constructor & Destructor Documentation

4.5.2.1 MongoDB()

```
MongoDB.MongoDB ( )
```

4.5.3 Member Function Documentation

4.5.3.1 delete_message()

```
boolean MongoDB.delete_message (
    Delete del )
```

[Delete](#) the message from the system

Parameters

<i>del</i>	
------------	--

Returns**4.5.3.2 getDatabaseName()**

```
String MongoDB.getDatabaseName ( )
```

4.5.3.3 getDatabasePassword()

```
String MongoDB.getDatabasePassword ( )
```

4.5.3.4 getDb()

```
DB MongoDB.getDb ( )
```

4.5.3.5 getDbPasswordCollection()

```
DBCollection MongoDB.getDbPasswordCollection ( )
```

4.5.3.6 getEmails()

```
ArrayList<Email> MongoDB.getEmails (
    String user )
```

Get all the emails from an user

Parameters

<i>user</i>	
-------------	--

Returns

4.5.3.7 getUserCollection()

```
String MongoDB.getUserCollection ( )
```

4.5.3.8 save_emails()

```
void MongoDB.save_emails (
    Email email ) throws Exception
```

Introduce the message in the system

Parameters

<i>email</i>	
--------------	--

Exceptions

<i>Exception</i>	If target doesn't exist, throws an exception
------------------	--

4.5.3.9 setDb()

```
void MongoDB.setDb (
    DB db )
```

4.5.3.10 setDbPasswordCollection()

```
void MongoDB.setDbPasswordCollection (
    DBCollection dbPasswordCollection )
```

4.5.3.11 sign_in()

```
boolean MongoDB.sign_in (
    String user,
    String password )
```

Check if the user + password exist in the system

Parameters

<i>user</i>	
<i>password</i>	

Returns

if user & password OK then true, else false

4.5.3.12 sign_in_as_root()

```
boolean MongoDB.sign_in_as_root (
    String user,
    String password )
```

Check if the user + password exist in the system + check is it is an admin

Parameters

<i>user</i>	
<i>password</i>	

Returns

if user & password & rootRights OK then true, else false

4.5.3.13 sign_up()

```
boolean MongoDB.sign_up (
    String user,
    String password,
    Boolean rootRights )
```

Sign up introduces the user in the system

Parameters

<i>user</i>	string that resembles the username of that new user
<i>password</i>	
<i>rootRights</i>	

Returns

if user exists -> false, else -> true

4.5.3.14 updatePassword()

```
boolean MongoDB.updatePassword (
    String user,
    String oldPass,
    String pass )
```

Changes the password

Parameters

<i>user</i>	
<i>pass</i>	
<i>oldPass</i>	

Returns

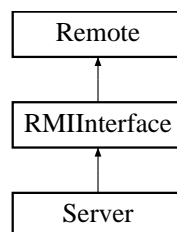
if user exists does not exist -> false, else -> true and change password if user and pass OK then change password

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

- D:/ud/temp/SPQ08/mailServer/src/main/java/[MongoDB.java](#)

4.6 RMIIInterface Interface Reference

Inheritance diagram for RMIIInterface:



Public Member Functions

- String [helloTo](#) (String name) throws RemoteException
- boolean [signIn](#) (String user, String password) throws RemoteException
- boolean [signUp](#) ([CreateUserRoot](#) createUserRoot) throws RemoteException
- boolean [sendEmail](#) ([Email](#) email) throws RemoteException
- boolean [deleteEmail](#) ([Delete](#) delete) throws RemoteException
- ArrayList< [Email](#) > [getEmails](#) (String user) throws RemoteException
- boolean [updatePassword](#) (String user, String oldPass, String pass) throws RemoteException

4.6.1 Member Function Documentation

4.6.1.1 deleteEmail()

```
boolean RMIInterface.deleteEmail (
    Delete delete ) throws RemoteException
```

[Delete](#) the message from the system

Parameters

<i>delete</i>	
---------------	--

Returns

Exceptions

<i>RemoteException</i>	
------------------------	--

Implemented in [Server](#).

4.6.1.2 getEmails()

```
ArrayList<Email> RMIInterface.getEmails (
    String user ) throws RemoteException
```

Get all the emails from an user

Parameters

<i>user</i>	
-------------	--

Returns

-

Exceptions

<i>RemoteException</i>	
------------------------	--

Implemented in [Server](#).

4.6.1.3 helloTo()

```
String RMIInterface.helloTo (  
    String name ) throws RemoteException
```

Implemented in [Server](#).

4.6.1.4 sendEmail()

```
boolean RMIInterface.sendEmail (  
    Email email ) throws RemoteException
```

Introduce the message in the system

Parameters

<i>email</i>	
--------------	--

Exceptions

<i>RemoteException</i>	
------------------------	--

Implemented in [Server](#).

4.6.1.5 signIn()

```
boolean RMIInterface.signIn (  
    String user,  
    String password ) throws RemoteException
```

Check if the user + password exist in the system

Parameters

<i>user</i>	
<i>password</i>	

Returns

if user & password OK then true, else false

-

Exceptions

<i>RemoteException</i>	
------------------------	--

Implemented in [Server](#).

4.6.1.6 signUp()

```
boolean RMInterface.signUp (
    CreateUserRoot createUserRoot ) throws RemoteException
```

Checks if the admin is correct and introduces the user in the system

Parameters

<i>createUserRoot</i>	
-----------------------	--

Returns

Exceptions

<i>RemoteException</i>	
------------------------	--

Implemented in [Server](#).

4.6.1.7 updatePassword()

```
boolean RMInterface.updatePassword (
    String user,
    String oldPass,
    String pass ) throws RemoteException
```

Update the user password from the DB

Parameters

<i>user</i>	
-------------	--

<i>oldPass</i>	
----------------	--

<i>pass</i>	
-------------	--

Returns

Exceptions

<i>RemoteException</i>	
------------------------	--

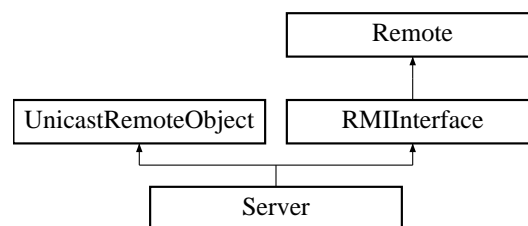
Implemented in [Server](#).

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

- D:/ud/temp/SPQ08/mailServer/src/main/java/[RMIIInterface.java](#)

4.7 Server Class Reference

Inheritance diagram for Server:



Public Member Functions

- String [helloTo](#) (String name) throws RemoteException
- boolean [deleteEmail](#) ([Delete](#) delete) throws RemoteException
- boolean [signIn](#) (String user, String password) throws RemoteException
- boolean [updatePassword](#) (String user, String oldPass, String pass) throws RemoteException
- boolean [signUp](#) ([CreateUserRoot](#) createUserRoot) throws RemoteException
- boolean [sendEmail](#) ([Email](#) email) throws RemoteException
- ArrayList< [Email](#) > [getEmails](#) (String user) throws RemoteException

Static Public Member Functions

- static void [runServer](#) (String ip, String port, String serviceName)

Protected Member Functions

- [Server](#) () throws RemoteException

4.7.1 Detailed Description

Created by inigo on 6/04/17.

4.7.2 Constructor & Destructor Documentation

4.7.2.1 Server()

`Server.Server ()` throws `RemoteException` [protected]

4.7.3 Member Function Documentation

4.7.3.1 deleteEmail()

`boolean Server.deleteEmail (
 Delete delete)` throws `RemoteException`

[Delete](#) the message from the system

Parameters

<i>delete</i>	
---------------	--

Returns

Exceptions

<i>RemoteException</i>	
------------------------	--

Implements [RMIInterface](#).

4.7.3.2 getEmails()

`ArrayList<Email> Server.getEmails (
 String user)` throws `RemoteException`

Get all the emails from an user

Parameters

<i>user</i>	
-------------	--

Returns

-

Exceptions

<i>RemoteException</i>	
------------------------	--

Implements [RMIIInterface](#).

4.7.3.3 helloTo()

```
String Server.helloTo (  
    String name ) throws RemoteException
```

Implements [RMIIInterface](#).

4.7.3.4 runServer()

```
static void Server.runServer (  
    String ip,  
    String port,  
    String serviceName ) [static]
```

4.7.3.5 sendEmail()

```
boolean Server.sendEmail (  
    Email email ) throws RemoteException
```

Introduce the message in the system

Parameters

<i>email</i>	
--------------	--

Exceptions

<i>RemoteException</i>	
------------------------	--

Implements [RMIIInterface](#).

4.7.3.6 signIn()

```
boolean Server.signIn (
    String user,
    String password ) throws RemoteException
```

Check if the user + password exist in the system

Parameters

<i>user</i>	
<i>password</i>	

Returns

if user & password OK then true, else false

-

Exceptions

<i>RemoteException</i>	
------------------------	--

Implements [RMIInterface](#).

4.7.3.7 signUp()

```
boolean Server.signUp (
    CreateUserRoot createUserRoot ) throws RemoteException
```

Checks if the admin is correct and introduces the user in the system

Parameters

<i>createUserRoot</i>	
-----------------------	--

Returns

Exceptions

<i>RemoteException</i>	
------------------------	--

Implements [RMIInterface](#).

4.7.3.8 updatePassword()

```
boolean Server.updatePassword (
    String user,
    String oldPass,
    String pass ) throws RemoteException
```

Update the user password from the DB

Parameters

<i>user</i>	
<i>oldPass</i>	
<i>pass</i>	

Returns

Exceptions

<i>RemoteException</i>	
------------------------	--

Implements [RMIInterface](#).

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

- D:/ud/temp/SPQ08/mailServer/src/main/java/[Server.java](#)

Chapter 5

File Documentation

5.1 D:/ud/temp/SPQ08/mailServer/src/main/java/CreateUserRoot.java File Reference

Classes

- class [CreateUserRoot](#)

5.2 D:/ud/temp/SPQ08/mailServer/src/main/java/Delete.java File Reference

Classes

- class [Delete](#)

5.3 D:/ud/temp/SPQ08/mailServer/src/main/java/Email.java File Reference

Classes

- class [Email](#)

5.4 D:/ud/temp/SPQ08/mailServer/src/main/java/Main.java File Reference

Classes

- class [Main](#)

5.5 D:/ud/temp/SPQ08/mailServer/src/main/java/MongoDB.java File Reference

Classes

- class [MongoDB](#)

5.6 D:/ud/temp/SPQ08/mailServer/src/main/java/RMIInterface.java File Reference

Classes

- interface [RMIInterface](#)

5.7 D:/ud/temp/SPQ08/mailServer/src/main/java/Server.java File Reference

Classes

- class [Server](#)

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