

SPQ08

1.0

Generated by Doxygen 1.8.13

Contents

1 SPQ08

1

Chapter 1

SPQ08

Mail Application

Features:

- Send mail
- Read mail
- View list of recieved mails
- [Delete](#) mail

Technologies

- [IntelliJ IDEA](#)
- [MongoDB](#)
- [RMI](#)
- [Maven](#)
- [YouTrack](#)

Installation

->[MongoDB](#)

Commands Maven

0. Run clean and compile over source code: mvn clean compile

1. Run test: mvn test
2. Run cobertura: mvn cobertura:cobertura
3. Run CheckStyle plugin: mvn checkstyle:checkstyle
4. Run the JDepend plugin: mvn jdepend:generate
5. Run the Dashboard plugin: mvn dashboard:dashboard
6. Run doxygen: mvn doxygen:report

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

db.DB	??
db.IMySQL	??
db.MySQL	??
JFrame	
Window	??
Main	??
MongoDB	??
MongoMockTest	??
MySQL_mock_test	??
PerformanceTest	??
RMIServiceLocator	??
WindowTest	??
Remote	
RMIIInterface	??
Controller	??
Server	??
RMIIInterface	??
Serializable	
CreateUserRoot	??
CreateUserRoot	??
Delete	??
Delete	??
Email	??
Email	??
entities.User	??
UnicastRemoteObject	
Server	??

Chapter 3

Class Index

3.1 Class List

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

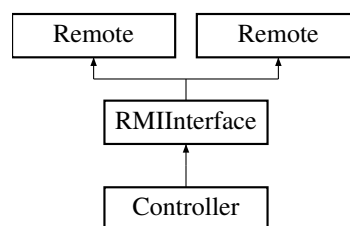
Controller	??
CreateUserRoot	??
db.DB	??
Delete	??
Email	??
db.IMySQL	??
Main	??
MongoDB	??
MongoMockTest	??
db.MySQL	??
MySQL_mock_test	??
PerformanceTest	??
RMInterface	??
RMIServiceLocator	??
Server	??
entities.User	??
Window	??
WindowTest	??

Chapter 4

Class Documentation

4.1 Controller Class Reference

Inheritance diagram for Controller:



Public Member Functions

- **Controller** (String ip, String port, String serviceName) throws RemoteException
- String **helloTo** (String name) throws RemoteException
- boolean **deleteEmail** ([Delete](#) delete) throws RemoteException
- boolean **signIn** (String user, String password) throws RemoteException
- boolean **signUp** ([CreateUserRoot](#) createUserRoot) throws RemoteException
- boolean **sendEmail** ([Email](#) email) throws RemoteException
- ArrayList< [Email](#) > **getEmails** (String user) throws RemoteException

4.1.1 Detailed Description

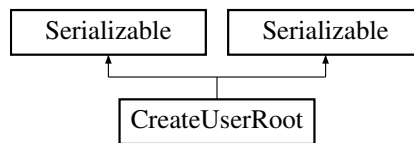
Created by inigo on 6/04/17.

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

- /Users/julenherrera/NetBeansProjects/SPQ08/User_Windows/src/main/java/Controller.java

4.2 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)
- 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)

4.2.1 Detailed Description

Created by inigo on 14/05/17.

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

- /Users/julenherrera/NetBeansProjects/SPQ08/mailServer/src/main/java/CreateUserRoot.java

4.3 db.DB Class Reference

Public Member Functions

- **DB** ([IMySQL](#) medium)
- void **storeUser** ([User](#) u)
- void **deleteUser** ([User](#) u)
- [User](#) **getUser** (String username)

Public Attributes

- [IMySQL](#) medium

4.3.1 Detailed Description

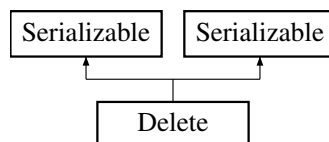
Created by inigo on 4/05/17.

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

- /Users/julenherrera/NetBeansProjects/SPQ08/mini_project_mockito/src/main/java/db/DB.java

4.4 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** ()
- **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** ()

4.4.1 Detailed Description

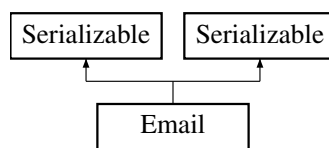
Created by Maria Blaja on 4/28/2017.

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

- /Users/julenherrera/NetBeansProjects/SPQ08/mailServer/src/main/java/Delete.java

4.5 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](#) ()
- [Email](#) (String source, String target, String header, String message)
- [Email](#) (String target, String source, String header, String message, Long time)
- String [toString](#) ()

4.5.1 Detailed Description

Created by inigo on 4/04/17.

4.5.2 Constructor & Destructor Documentation

4.5.2.1 Email() [1/4]

```
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>	

4.5.2.2 Email() [2/4]

```
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>	

4.5.2.3 Email() [3/4]

```
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>	

4.5.2.4 Email() [4 / 4]

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

Use on server when queried

Parameters

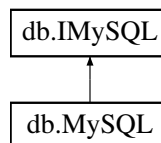
<i>source</i>	
<i>header</i>	
<i>message</i>	
<i>time</i>	

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

- /Users/julenherrera/NetBeansProjects/SPQ08/mailServer/src/main/java/Email.java

4.6 db.MySQL Interface Reference

Inheritance diagram for db.MySQL:



Public Member Functions

- void **storeUser** ([User](#) u)
- void **deleteUser** ([User](#) u)
- [User](#) **getUser** (String username)

4.6.1 Detailed Description

Created by inigo on 17/01/17.

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

- /Users/julenherrera/NetBeansProjects/SPQ08/mini_project_mockito/src/main/java/db/IMySQL.java

4.7 Main Class Reference

Static Public Member Functions

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

4.7.1 Detailed Description

Created by inigo on 30/03/17.

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

- /Users/julenherrera/NetBeansProjects/SPQ08/mailServer/src/main/java/Main.java

4.8 MongoDB Class Reference

Public Member Functions

- String **getDatabaseName** ()
- String **getDatabasePassword** ()
- String **getUserCollection** ()
- DB **getDb** ()
- void **setDb** (DB db)
- DBCollection **getDbPasswordCollection** ()
- void **setDbPasswordCollection** (DBCollection dbPasswordCollection)
- boolean **sign_up** (String user, String password, Boolean rootRights)
- 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)

4.8.1 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-examp>

4.8.2 Member Function Documentation

4.8.2.1 save_emails()

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

Parameters

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

Exceptions

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

4.8.2.2 sign_in()

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

Parameters

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

Returns

if user & password OK then true, else false

4.8.2.3 sign_in_as_root()

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

Parameters

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

Returns

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

4.8.2.4 sign_up()

```
boolean MongoDB.sign_up (  
    String user,
```

```
String password,  
Boolean rootRights )
```

Parameters

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

Returns

if user exists -> false, else -> true

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

- /Users/julenherrera/NetBeansProjects/SPQ08/mailServer/src/main/java/MongoDB.java

4.9 MongoMockTest Class Reference

Public Member Functions

- void **setUp** () throws Exception
- void **tearDown** () throws Exception
- void **sign_up** () throws Exception
- void **sign_in** () throws Exception
- void **save_emails_AND_getEmails** () throws Exception
- void **save_email_crash** ()
- void **getEmails** () throws Exception
- .junit.Test void **delete_message** () throws Exception

Static Public Member Functions

- static junit.framework.Test **suite** ()

4.9.1 Detailed Description

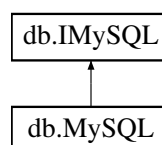
Created by inigo on 3/05/17.

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

- /Users/julenherrera/NetBeansProjects/SPQ08/mailServer/src/test/java/MongoMockTest.java

4.10 db.MySQL Class Reference

Inheritance diagram for db.MySQL:



Public Member Functions

- void **storeUser** ([User](#) u)
- void **deleteUser** ([User](#) u)
- [User](#) **getUser** (String username)

4.10.1 Detailed Description

Created by inigo on 17/01/17.

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

- /Users/julenherrera/NetBeansProjects/SPQ08/mini_project_mockito/src/main/java/db/MySQL.java

4.11 MySQL_mock_test Class Reference

Public Member Functions

- void **setUp** () throws Exception
- void **testLogin_AND_getUser** ()

Static Public Member Functions

- static junit.framework.Test **suite** ()

Public Attributes

- MockitoRule **mrule** = MockitoJUnit.rule().silent()

4.11.1 Detailed Description

Created by inigo on 4/05/17.

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

- /Users/julenherrera/NetBeansProjects/SPQ08/mini_project_mockito/src/test/java/MySQL_mock_test.java

4.12 PerformanceTest Class Reference

Public Member Functions

- void **testSignUp** () throws Exception
- void **testSendEmails** () throws Exception
- void **testGetEmails** () throws Exception

Static Public Member Functions

- static junit.framework.Test **suite** ()
- static void **setUp** () throws RemoteException

Public Attributes

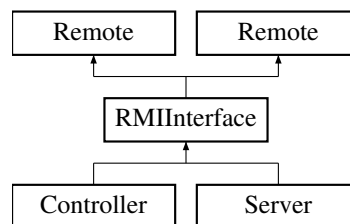
- ContiPerfRule **rule** = new ContiPerfRule()

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

- /Users/julenherrera/NetBeansProjects/SPQ08/User_Windows/src/test/java/PerformanceTest.java

4.13 RMIInterface Interface Reference

Inheritance diagram for RMIInterface:



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
- 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

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

- /Users/julenherrera/NetBeansProjects/SPQ08/mailServer/src/main/java/RMIInterface.java

4.14 RMIServiceLocator Class Reference

Public Member Functions

- void **setService** (String ip, String port, String serviceName)
- [RMIIInterface](#) **getService** ()

Public Attributes

- [RMIIInterface](#) **service**

4.14.1 Detailed Description

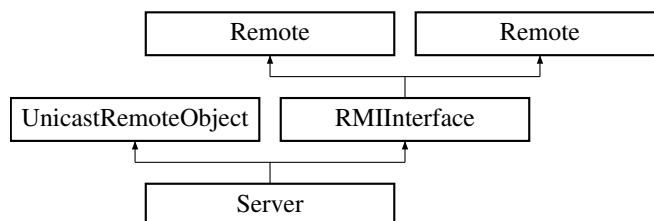
Created by inigo on 6/04/17.

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

- /Users/julenherrera/NetBeansProjects/SPQ08/User_Windows/src/main/java/RMIServiceLocator.java

4.15 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 **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)

4.15.1 Detailed Description

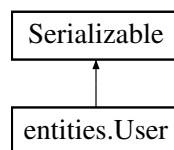
Created by inigo on 6/04/17.

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

- /Users/julenherrera/NetBeansProjects/SPQ08/mailServer/src/main/java/Server.java

4.16 entities.User Class Reference

Inheritance diagram for entities.User:



Public Member Functions

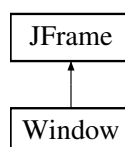
- **User** (String username, String password, int age, int income)
- String **getUsername** ()
- void **setUsername** (String username)
- String **getPassword** ()
- void **setPassword** (String password)
- int **getAge** ()
- void **setAge** (int age)
- int **getIncome** ()
- void **setIncome** (int income)

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

- /Users/julenherrera/NetBeansProjects/SPQ08/mini_project_mockito/src/main/java/entities/User.java

4.17 Window Class Reference

Inheritance diagram for Window:



Public Member Functions

- [Window](#) ()
- void **login** ()
- [Email](#) **find** (String query)
- boolean **delete** ([Email](#) email)
- void **setModel** ()
- void **load** ()
- void **refresh** ()

Static Public Member Functions

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

4.17.1 Detailed Description

Author

gotzon gerrikabeitia

4.17.2 Constructor & Destructor Documentation

4.17.2.1 [Window](#)()

```
Window.Window ( )
```

Creates new form [Window](#)

4.17.3 Member Function Documentation

4.17.3.1 [main](#)()

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

Parameters

<i>args</i>	the command line arguments
-------------	----------------------------

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

- /Users/julenherrera/NetBeansProjects/SPQ08/User_Windows/src/main/java/Window.java

4.18 WindowTest Class Reference

Public Member Functions

- void **setUp** ()
- void **signUpTest** () throws RemoteException
- void **loginTest** () throws RemoteException
- void **getEmailTest** () throws RemoteException
- void **deleteEmailTest** () throws RemoteException
- void **sendEmailTest** () throws RemoteException
- void **helloTest** () throws RemoteException
- void **deleteClassTest** () throws RemoteException
- void **emailClassTest** ()

Static Public Member Functions

- static junit.framework.Test **suite** ()

4.18.1 Detailed Description

Author

gotzon gerrikabeitia

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

- /Users/julenherrera/NetBeansProjects/SPQ08/User_Windows/src/test/java/WindowTest.java

