

BankApp

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Chapter 1

Bank application as a project for SOFTWARE PROCESS AND QUALITY

This is the main Login Class

Author

BICHRI

Date

05-17-2017

Warning

This code is Just a school project, not for professional use

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1.1 Introduction

this an application to help users and managers to do their daily tasks easily

1.2 Compilation

know how to compile the code using maven

Chapter 2

Namespace Index

2.1 Packages

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

bankapp	11
bankapp.client	11
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Chapter 3

Hierarchical Index

3.1 Class Hierarchy

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

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Chapter 4

Class Index

4.1 Class List

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

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Interface IbankDAO to set function names and params	34
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File Index

5.1 File List

Here is a list of all files with brief descriptions:

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Chapter 6

Namespace Documentation

6.1 Package bankapp

Packages

- package [client](#)
- package [server](#)

6.2 Package bankapp.client

Classes

- class [AdminWindow](#)
- class [BankClient](#)
- class [BankController](#)
This is the bank controller and hundler Class.
- class [LoginWindow](#)
- class [RMIServiceLocator](#)
This is the bank RMIServices hundler Class.
- class [UserWindow](#)

6.3 Package bankapp.server

Classes

- class [Account](#)
- class [Admin](#)
This is the [Admin](#) Class extends [Account](#).
- class [BankAccount](#)
- class [bankAccountTest](#)
This is the [bankAccountTest](#) class.
- class [BankDAO](#)
This is the bank DAO Class.

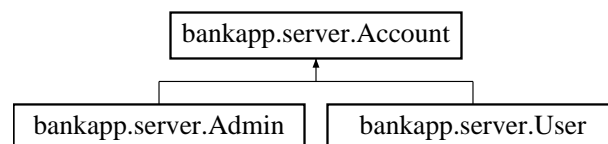
- class [BankServer](#)
This is the bank server Class.
- class [BDTest](#)
This is the [BDTest](#) class.
- class [BManager](#)
This is the bank manger Class extends [UnicastRemoteObject](#) and implements [IBManager](#).
- interface [IBankDAO](#)
Interface [IbankDAO](#) to set function names and params.
- interface [IBManager](#)
Interface [IBManager](#) extends [Remote](#) to set function names and params.
- class [Performance](#)
This is the [Performance](#) class.
- class [Report](#)
This is the [Report](#).
- class [ReportTest](#)
This is the [ReportTest](#) class.
- class [ServerTest](#)
This is the [ServerTest](#) class.
- class [User](#)
This is the [User](#).
- class [UserTest](#)
This is the [UserTest](#) class.

Chapter 7

Class Documentation

7.1 bankapp.server.Account Class Reference

Inheritance diagram for bankapp.server.Account:



Public Member Functions

- [Account](#) (String username, String pass)
Constructor.
- String [getUsername](#) ()
- String [getPass](#) ()
- void [setPass](#) (String pass)
- String [toString](#) ()

7.1.1 Detailed Description

Definition at line 10 of file Account.java.

7.1.2 Constructor & Destructor Documentation

7.1.2.1 Account()

```
bankapp.server.Account.Account (
    String username,
    String pass )
```

Constructor.

Parameters

<i>username</i>	
<i>pass</i>	

Definition at line 19 of file Account.java.

7.1.3 Member Function Documentation

7.1.3.1 `getPass()`

```
String bankapp.server.Account.getPass ( )
```

Definition at line 26 of file Account.java.

7.1.3.2 `getUsername()`

```
String bankapp.server.Account.getUsername ( )
```

Definition at line 23 of file Account.java.

7.1.3.3 `setPass()`

```
void bankapp.server.Account.setPass (
    String pass )
```

Definition at line 29 of file Account.java.

7.1.3.4 `toString()`

```
String bankapp.server.Account.toString ( )
```

Definition at line 32 of file Account.java.

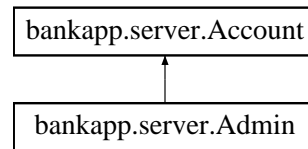
The documentation for this class was generated from the following file:

- src/main/java/bankapp/server/[Account.java](#)

7.2 bankapp.server.Admin Class Reference

This is the [Admin](#) Class extends [Account](#).

Inheritance diagram for bankapp.server.Admin:



Public Member Functions

- [Admin](#) (String username, String pass)
Constructor.

7.2.1 Detailed Description

This is the [Admin](#) Class extends [Account](#).

Author

BICHRI

Date

05-17-2017

Definition at line 11 of file Admin.java.

7.2.2 Constructor & Destructor Documentation

7.2.2.1 Admin()

```
bankapp.server.Admin.Admin (
    String username,
    String pass )
```

Constructor.

Parameters

<i>username</i>	
<i>pass</i>	

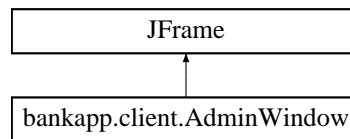
Definition at line 17 of file Admin.java.

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

- [src/main/java/bankapp/server/Admin.java](#)

7.3 bankapp.client.AdminWindow Class Reference

Inheritance diagram for bankapp.client.AdminWindow:



Public Member Functions

- [AdminWindow](#) ()

Static Public Member Functions

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

7.3.1 Detailed Description

Definition at line 17 of file AdminWindow.java.

7.3.2 Constructor & Destructor Documentation

7.3.2.1 AdminWindow()

```
bankapp.client.AdminWindow.AdminWindow ( )
```

Create the frame.

Definition at line 43 of file AdminWindow.java.

7.3.3 Member Function Documentation

7.3.3.1 main()

```
static void bankapp.client.AdminWindow.main (
    String [] args ) [static]
```

Launch the application.

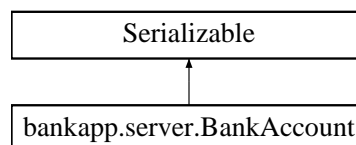
Definition at line 27 of file AdminWindow.java.

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

- src/main/java/bankapp/client/[AdminWindow.java](#)

7.4 bankapp.server.BankAccount Class Reference

Inheritance diagram for bankapp.server.BankAccount:



Public Member Functions

- [BankAccount](#) ()
- int [getnumAcc](#) ()
- long [getmoney](#) ()
- void [addmoney](#) (long money)
- void [deducemoney](#) (long money)
- String [toString](#) ()

7.4.1 Detailed Description

Definition at line 8 of file BankAccount.java.

7.4.2 Constructor & Destructor Documentation

7.4.2.1 BankAccount()

```
bankapp.server.BankAccount.BankAccount ( )
```

Definition at line 17 of file BankAccount.java.

7.4.3 Member Function Documentation

7.4.3.1 addmoney()

```
void bankapp.server.BankAccount.addmoney (
    long money )
```

Definition at line 28 of file BankAccount.java.

7.4.3.2 deducemoney()

```
void bankapp.server.BankAccount.deducemoney (
    long money )
```

Definition at line 31 of file BankAccount.java.

7.4.3.3 getmoney()

```
long bankapp.server.BankAccount.getmoney ( )
```

Definition at line 25 of file BankAccount.java.

7.4.3.4 getnumAcc()

```
int bankapp.server.BankAccount.getnumAcc ( )
```

Definition at line 22 of file BankAccount.java.

7.4.3.5 toString()

```
String bankapp.server.BankAccount.toString ( )
```

Definition at line 34 of file BankAccount.java.

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

- src/main/java/bankapp/server/[BankAccount.java](#)

7.5 bankapp.server.bankAccountTest Class Reference

This is the [bankAccountTest](#) class.

Public Member Functions

- void [validAccount](#) ()
create a valid account

7.5.1 Detailed Description

This is the [bankAccountTest](#) class.

Author

BICHRI

Date

05-17-2017

Definition at line 13 of file [bankAccountTest.java](#).

7.5.2 Member Function Documentation

7.5.2.1 validAccount()

```
void bankapp.server.bankAccountTest.validAccount ( )
```

create a valid account

Definition at line 19 of file [bankAccountTest.java](#).

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

- [src/test/java/bankapp/server/bankAccountTest.java](#)

7.6 bankapp.client.BankClient Class Reference

Static Public Member Functions

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

7.6.1 Detailed Description

Definition at line 27 of file BankClient.java.

7.6.2 Member Function Documentation

7.6.2.1 main()

```
static void bankapp.client.BankClient.main (
    String [] args ) [static]
```

Definition at line 30 of file BankClient.java.

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

- src/main/java/bankapp/client/[BankClient.java](#)

7.7 bankapp.client.BankController Class Reference

This is the bank controller and hundler Class.

Public Member Functions

- [BankController](#) (String ip, String port, String serviceName)
Constructor set the service for the RMI.
- char [login](#) (String user, String pass)
Login Function Allow or Deny access to the application.
- void [createUser](#) (String user, String pass, String email)
Create user method.
- void [transaction](#) (String user1, String user2, long money, String accNum1, String accNum2)
Make transaction method.
- int [createBankAccount](#) (String user)
Create bank account method.
- void [addFunds](#) (String user, String accNum, long money)
Adds funds to any bank account.
- void [deleteBankAccount](#) (String user, String accNum1, String accNum2)
Deletes bank account.
- void [deleteAccount](#) (String user)
Deletes account.
- [User](#) [getUser](#) (String user)
- ArrayList< [Report](#) > [getReports](#) (int accNum)

7.7.1 Detailed Description

This is the bank controller and hundler Class.

Author

BICHRI

Date

05-17-2017

Definition at line 13 of file BankController.java.

7.7.2 Constructor & Destructor Documentation

7.7.2.1 BankController()

```
bankapp.client.BankController.BankController (
    String ip,
    String port,
    String serviceName )
```

Constructor set the service for the RMI.

Parameters

<i>ip</i>	
<i>port</i>	
<i>serviceName</i>	

Definition at line 24 of file BankController.java.

7.7.3 Member Function Documentation

7.7.3.1 addFunds()

```
void bankapp.client.BankController.addFunds (
    String user,
    String accNum,
    long money )
```

Adds funds to any bank account.

Parameters

<i>user</i>	
<i>accNum</i>	
<i>money</i>	

Definition at line 75 of file BankController.java.

7.7.3.2 createBankAccount()

```
int bankapp.client.BankController.createBankAccount (
    String user )
```

Create bank account method.

Parameters

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

Returns

int

Definition at line 66 of file BankController.java.

7.7.3.3 createUser()

```
void bankapp.client.BankController.createUser (
    String user,
    String pass,
    String email )
```

Create user method.

Parameters

<i>user</i>	
<i>pass</i>	
<i>email</i>	

Definition at line 47 of file BankController.java.

7.7.3.4 deleteAccount()

```
void bankapp.client.BankController.deleteAccount (
    String user )
```

Deletes account.

Parameters

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

Definition at line 91 of file BankController.java.

7.7.3.5 deleteBankAccount()

```
void bankapp.client.BankController.deleteBankAccount (
    String user,
    String accNum1,
    String accNum2 )
```

Deletes bank account.

Parameters

<i>user</i>	
<i>accNum</i>	
<i>accNum2</i>	

Definition at line 84 of file BankController.java.

7.7.3.6 getReports()

```
ArrayList<Report> bankapp.client.BankController.getReports (
    int accNum )
```

Definition at line 99 of file BankController.java.

7.7.3.7 getUser()

```
User bankapp.client.BankController.getUser (
    String user )
```

Definition at line 95 of file BankController.java.

7.7.3.8 login()

```
char bankapp.client.BankController.login (
    String user,
    String pass )
```

Login Function Allow or Deny access to the application.

Parameters

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

Returns

char

Definition at line 36 of file BankController.java.

7.7.3.9 transaction()

```
void bankapp.client.BankController.transaction (
    String user1,
    String user2,
    long money,
    String accNum1,
    String accNum2 )
```

Make transaction method.

Parameters

<i>user1</i>	
<i>user2</i>	
<i>money</i>	
<i>accNum1</i>	
<i>accNum2</i>	

Definition at line 58 of file BankController.java.

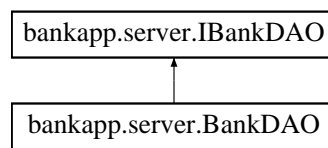
The documentation for this class was generated from the following file:

- [src/main/java/bankapp/client/BankController.java](#)

7.8 bankapp.server.BankDAO Class Reference

This is the bank DAO Class.

Inheritance diagram for bankapp.server.BankDAO:



Public Member Functions

- [BankDAO](#) ()
Constructore for class bankDAO.
- [Account](#) [getAccount](#) (String username)
function name and params
- void [storeAccount](#) ([Account](#) acc)
function name and params
- void [storeReport](#) ([Report](#) rep)
function name and params
- void [deleteAccount](#) (String username)
function name and params
- ArrayList< [Report](#) > [getReports](#) (int accNum)

7.8.1 Detailed Description

This is the bank DAO Class.

Author

BICHRI

Date

05-17-2017

Definition at line 16 of file BankDAO.java.

7.8.2 Constructor & Destructor Documentation

7.8.2.1 BankDAO()

```
bankapp.server.BankDAO.BankDAO ( )
```

Constructore for class bankDAO.

Definition at line 24 of file BankDAO.java.

7.8.3 Member Function Documentation

7.8.3.1 deleteAccount()

```
void bankapp.server.BankDAO.deleteAccount (
    String username )
```

function name and params

Parameters

<i>acc</i>	
------------	--

Implements [bankapp.server.IBankDAO](#).

Definition at line 93 of file BankDAO.java.

7.8.3.2 `getAccount()`

```
Account bankapp.server.BankDAO.getAccount (
    String username )
```

function name and params

Parameters

<i>username</i>	
-----------------	--

Returns

[Account](#)

Implements [bankapp.server.IBankDAO](#).

Definition at line 28 of file BankDAO.java.

7.8.3.3 `getReports()`

```
ArrayList<Report> bankapp.server.BankDAO.getReports (
    int accNum )
```

Implements [bankapp.server.IBankDAO](#).

Definition at line 118 of file BankDAO.java.

7.8.3.4 `storeAccount()`

```
void bankapp.server.BankDAO.storeAccount (
    Account acc )
```

function name and params

Parameters

<i>acc</i>	
------------	--

Implements [bankapp.server.IBankDAO](#).

Definition at line 53 of file BankDAO.java.

7.8.3.5 storeReport()

```
void bankapp.server.BankDAO.storeReport (
    Report rep )
```

function name and params

Parameters

<i>rep</i>	
------------	--

Implements [bankapp.server.IBankDAO](#).

Definition at line 73 of file BankDAO.java.

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

- src/main/java/bankapp/server/[BankDAO.java](#)

7.9 bankapp.server.BankServer Class Reference

This is the bank server Class.

Static Public Member Functions

- static void [main](#) (String args[])
main function that will do the server handling

7.9.1 Detailed Description

This is the bank server Class.

Author

BICHRI

Date

05-17-2017

Definition at line 10 of file BankServer.java.

7.9.2 Member Function Documentation

7.9.2.1 main()

```
static void bankapp.server.BankServer.main (
    String args[] ) [static]
```

main function that will do the server hunding

Parameters

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

Definition at line 15 of file BankServer.java.

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

- src/main/java/bankapp/server/[BankServer.java](#)

7.10 bankapp.server.BDTest Class Reference

This is the [BDTest](#) class.

Public Member Functions

- void [setup](#) ()
initialise bankDAO object
- void [validBD](#) ()
create a valid DB

7.10.1 Detailed Description

This is the [BDTest](#) class.

Author

BICHRI

Date

05-17-2017

Definition at line 14 of file BDTest.java.

7.10.2 Member Function Documentation

7.10.2.1 setup()

```
void bankapp.server.BDTest.setup ( )
```

initialise bankDAO object

Definition at line 20 of file BDTest.java.

7.10.2.2 validBD()

```
void bankapp.server.BDTest.validBD ( )
```

create a valid DB

Definition at line 28 of file BDTest.java.

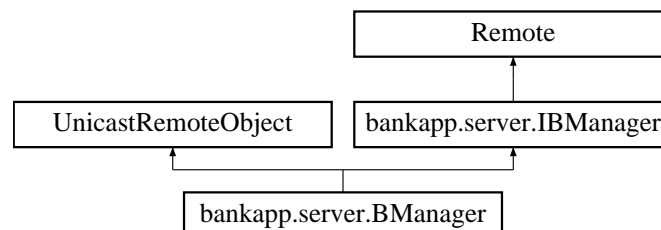
The documentation for this class was generated from the following file:

- [src/test/java/bankapp/server/BDTest.java](#)

7.11 bankapp.server.BManager Class Reference

This is the bank manger Class extends UnicastRemoteObject and implements [IBManager](#).

Inheritance diagram for bankapp.server.BManager:



Public Member Functions

- [BManager](#) (String serverAddress, String port0, String servName) throws RemoteException
BManager Constructor and also store an new user.
- char [login](#) (String username, String pass) throws RemoteException
Function Login as a bank manager allow or deny access.
- void [transaction](#) (String user1, String user2, long money, String accNum1, String accNum2) throws RemoteException
- int [createBankAccount](#) (String user) throws RemoteException
- void [addFunds](#) (String user, String accNum, long money) throws RemoteException
- void [deleteBankAccount](#) (String user, String accNum1, String accNum2) throws RemoteException
- void [deleteAccount](#) (String user) throws RemoteException
- void [createUser](#) (String username, String pass, String email) throws RemoteException
- [User](#) [getUser](#) (String user)
- ArrayList< [Report](#) > [getReports](#) (int accNum)

7.11.1 Detailed Description

This is the bank manger Class extends UnicastRemoteObject and implements [IBManager](#).

Author

BICHRI

Date

05-17-2017

Definition at line 13 of file BManager.java.

7.11.2 Constructor & Destructor Documentation

7.11.2.1 BManager()

```
bankapp.server.BManager.BManager (
    String serverAddress,
    String port0,
    String servName ) throws RemoteException
```

[BManager](#) Constructor and also store an new user.

Parameters

<i>serverAddress</i>	
<i>port0</i>	
<i>servName</i>	

Exceptions

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

Definition at line 37 of file BManager.java.

7.11.3 Member Function Documentation

7.11.3.1 addFunds()

```
void bankapp.server.BManager.addFunds (
    String user,
```

```
String accNum,  
long money ) throws RemoteException
```

Implements [bankapp.server.IBManager](#).

Definition at line 98 of file BManager.java.

7.11.3.2 createBankAccount()

```
int bankapp.server.BManager.createBankAccount (  
String user ) throws RemoteException
```

Implements [bankapp.server.IBManager](#).

Definition at line 89 of file BManager.java.

7.11.3.3 createUser()

```
void bankapp.server.BManager.createUser (  
String username,  
String pass,  
String email ) throws RemoteException
```

Implements [bankapp.server.IBManager](#).

Definition at line 120 of file BManager.java.

7.11.3.4 deleteAccount()

```
void bankapp.server.BManager.deleteAccount (  
String user ) throws RemoteException
```

Implements [bankapp.server.IBManager](#).

Definition at line 115 of file BManager.java.

7.11.3.5 deleteBankAccount()

```
void bankapp.server.BManager.deleteBankAccount (  
String user,  
String accNum1,  
String accNum2 ) throws RemoteException
```

Implements [bankapp.server.IBManager](#).

Definition at line 106 of file BManager.java.

7.11.3.6 getReports()

```
ArrayList<Report> bankapp.server.BManager.getReports (
    int accNum )
```

Implements [bankapp.server.BManager](#).

Definition at line 131 of file BManager.java.

7.11.3.7 getUser()

```
User bankapp.server.BManager.getUser (
    String user )
```

Implements [bankapp.server.BManager](#).

Definition at line 126 of file BManager.java.

7.11.3.8 login()

```
char bankapp.server.BManager.login (
    String username,
    String pass ) throws RemoteException
```

Function Login as a bank manager allow or deny access.

Parameters

<i>username</i>	
<i>pass</i>	

Returns

char

Exceptions

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

Implements [bankapp.server.BManager](#).

Definition at line 52 of file BManager.java.

7.11.3.9 transaction()

```
void bankapp.server.BManager.transaction (
    String user1,
    String user2,
    long money,
    String accNum1,
    String accNum2 ) throws RemoteException
```

Implements [bankapp.server.IBManager](#).

Definition at line 73 of file BManager.java.

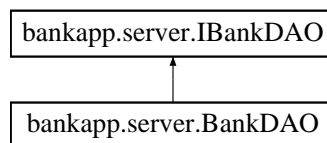
The documentation for this class was generated from the following file:

- [src/main/java/bankapp/server/BManager.java](#)

7.12 bankapp.server.IBankDAO Interface Reference

Interface IbankDAO to set function names and params.

Inheritance diagram for bankapp.server.IBankDAO:



Public Member Functions

- [Account](#) [getAccount](#) (String username)
function name and params
- void [storeAccount](#) ([Account](#) acc)
function name and params
- void [storeReport](#) ([Report](#) rep)
function name and params
- void [deleteAccount](#) (String username)
function name and params
- ArrayList< [Report](#) > [getReports](#) (int accNum)

7.12.1 Detailed Description

Interface IbankDAO to set function names and params.

Author

BICHRI

Date

05-17-2017

Definition at line 10 of file IBankDAO.java.

7.12.2 Member Function Documentation

7.12.2.1 deleteAccount()

```
void bankapp.server.IBankDAO.deleteAccount (
    String username )
```

function name and params

Parameters

<i>acc</i>	
------------	--

Implemented in [bankapp.server.BankDAO](#).

7.12.2.2 getAccount()

```
Account bankapp.server.IBankDAO.getAccount (
    String username )
```

function name and params

Parameters

<i>username</i>	
-----------------	--

Returns

[Account](#)

Implemented in [bankapp.server.BankDAO](#).

7.12.2.3 getReports()

```
ArrayList<Report> bankapp.server.IBankDAO.getReports (
    int accNum )
```

Implemented in [bankapp.server.BankDAO](#).

7.12.2.4 storeAccount()

```
void bankapp.server.IBankDAO.storeAccount (
    Account acc )
```

function name and params

Parameters

<i>acc</i>	
------------	--

Implemented in [bankapp.server.BankDAO](#).

7.12.2.5 storeReport()

```
void bankapp.server.IBankDAO.storeReport (
    Report rep )
```

function name and params

Parameters

<i>rep</i>	
------------	--

Implemented in [bankapp.server.BankDAO](#).

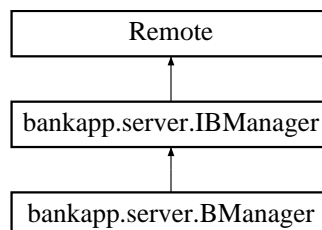
The documentation for this interface was generated from the following file:

- [src/main/java/bankapp/server/IBankDAO.java](#)

7.13 bankapp.server.IBManager Interface Reference

Interface [IBManager](#) extends Remote to set function names and params.

Inheritance diagram for bankapp.server.IBManager:



Public Member Functions

- char [login](#) (String user, String pass) throws RemoteException
function name and params
- void [transaction](#) (String user1, String user2, long money, String accNum1, String accNum2) throws RemoteException
- int [createBankAccount](#) (String user) throws RemoteException
- void [addFunds](#) (String user, String accNum, long money) throws RemoteException
- void [deleteBankAccount](#) (String user, String accNum1, String accNum2) throws RemoteException
- void [deleteAccount](#) (String user) throws RemoteException
- void [createUser](#) (String username, String pass, String email) throws RemoteException
- [User](#) [getUser](#) (String user) throws RemoteException
- ArrayList< [Report](#) > [getReports](#) (int accNum) throws RemoteException

7.13.1 Detailed Description

Interface [IBManager](#) extends Remote to set function names and params.

Author

BICHRI

Date

05-17-2017

Definition at line 11 of file IBManager.java.

7.13.2 Member Function Documentation

7.13.2.1 addFunds()

```
void bankapp.server.IBManager.addFunds (
    String user,
    String accNum,
    long money ) throws RemoteException
```

Implemented in [bankapp.server.BManager](#).

7.13.2.2 createBankAccount()

```
int bankapp.server.IBManager.createBankAccount (
    String user ) throws RemoteException
```

Implemented in [bankapp.server.BManager](#).

7.13.2.3 createUser()

```
void bankapp.server.IBManager.createUser (
    String username,
    String pass,
    String email ) throws RemoteException
```

Implemented in [bankapp.server.BManager](#).

7.13.2.4 deleteAccount()

```
void bankapp.server.IBManager.deleteAccount (
    String user ) throws RemoteException
```

Implemented in [bankapp.server.BManager](#).

7.13.2.5 deleteBankAccount()

```
void bankapp.server.IBManager.deleteBankAccount (
    String user,
    String accNum1,
    String accNum2 ) throws RemoteException
```

Implemented in [bankapp.server.BManager](#).

7.13.2.6 getReports()

```
ArrayList<Report> bankapp.server.IBManager.getReports (
    int accNum ) throws RemoteException
```

Implemented in [bankapp.server.BManager](#).

7.13.2.7 getUser()

```
User bankapp.server.IBManager.getUser (
    String user ) throws RemoteException
```

Implemented in [bankapp.server.BManager](#).

7.13.2.8 login()

```
char bankapp.server.IBManager.login (
    String user,
    String pass ) throws RemoteException
```

function name and params

Parameters

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

Returns

Exceptions

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

Implemented in [bankapp.server.BManager](#).

7.13.2.9 transaction()

```
void bankapp.server.IBManager.transaction (
    String user1,
    String user2,
    long money,
    String accNum1,
    String accNum2 ) throws RemoteException
```

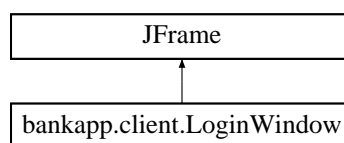
Implemented in [bankapp.server.BManager](#).

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

- [src/main/java/bankapp/server/IBManager.java](#)

7.14 bankapp.client.LoginWindow Class Reference

Inheritance diagram for bankapp.client.LoginWindow:



Public Member Functions

- [LoginWindow](#) (final [BankController](#) bc)

Static Public Member Functions

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

7.14.1 Detailed Description

Definition at line 26 of file LoginWindow.java.

7.14.2 Constructor & Destructor Documentation

7.14.2.1 LoginWindow()

```
bankapp.client.LoginWindow.LoginWindow (
    final BankController bc )
```

Create the frame.

Definition at line 61 of file LoginWindow.java.

7.14.3 Member Function Documentation

7.14.3.1 main()

```
static void bankapp.client.LoginWindow.main (
    String [] args ) [static]
```

Launch the application.

Definition at line 43 of file LoginWindow.java.

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

- [src/main/java/bankapp/client/LoginWindow.java](#)

7.15 bankapp.server.Performance Class Reference

This is the [Performance](#) class.

Static Public Member Functions

- static void [main](#) (String[] args)
initialise user and create an account , add funds and deduce account funds

7.15.1 Detailed Description

This is the [Performance](#) class.

Author

BICHRI

Date

05-17-2017

Definition at line 7 of file Performance.java.

7.15.2 Member Function Documentation

7.15.2.1 main()

```
static void bankapp.server.Performance.main (  
    String [] args ) [static]
```

initialise user and create an account , add funds and deduce account funds

Parameters

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

Definition at line 12 of file Performance.java.

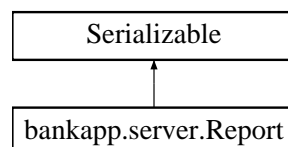
The documentation for this class was generated from the following file:

- src/test/java/bankapp/server/[Performance.java](#)

7.16 bankapp.server.Report Class Reference

This is the [Report](#).

Inheritance diagram for bankapp.server.Report:



Public Member Functions

- [Report](#) (String user1, String user2, long money, String accNum1, String accNum2)
constructor
- [Report](#) (String user1, String accNum1)
constructor 2
- [Report](#) (String user1, String accNum1, long money)
constructor 3
- char [getReportType](#) ()
get the report type
- String [getUser1](#) ()
get the user number 1
- String [getUser2](#) ()
get the user number 2
- String [getAccNum1](#) ()
get account 1 number
- String [getAccNum2](#) ()
get account 2 number
- int [getId](#) ()
- long [getMoney](#) ()
get money amount
- String [toString](#) ()

7.16.1 Detailed Description

This is the [Report](#).

Author

BICHRI

Date

05-17-2017

Definition at line 14 of file Report.java.

7.16.2 Constructor & Destructor Documentation

7.16.2.1 [Report\(\)](#) [1/3]

```
bankapp.server.Report.Report (
    String user1,
    String user2,
    long money,
    String accNum1,
    String accNum2 )
```

constructor

Parameters

<i>user1</i>	
<i>user2</i>	
<i>money</i>	
<i>accNum1</i>	
<i>accNum2</i>	

Definition at line 36 of file Report.java.

7.16.2.2 Report() [2/3]

```
bankapp.server.Report.Report (
    String user1,
    String accNum1 )
```

constructor 2

Parameters

<i>user1</i>	
--------------	--

Definition at line 50 of file Report.java.

7.16.2.3 Report() [3/3]

```
bankapp.server.Report.Report (
    String user1,
    String accNum1,
    long money )
```

constructor 3

Parameters

<i>user1</i>	
<i>accNum1</i>	
<i>money</i>	

Definition at line 63 of file Report.java.

7.16.3 Member Function Documentation

7.16.3.1 `getAccNum1()`

```
String bankapp.server.Report.getAccNum1 ( )
```

get account 1 number

Returns

accNum1

Definition at line 96 of file Report.java.

7.16.3.2 `getAccNum2()`

```
String bankapp.server.Report.getAccNum2 ( )
```

get account 2 number

Returns

accNum2

Definition at line 103 of file Report.java.

7.16.3.3 `getId()`

```
int bankapp.server.Report.getId ( )
```

id

Returns

id

Definition at line 110 of file Report.java.

7.16.3.4 `getMoney()`

```
long bankapp.server.Report.getMoney ( )
```

get money amount

Returns

money

Definition at line 117 of file Report.java.

7.16.3.5 getReportType()

```
char bankapp.server.Report.getReportType ( )
```

get the report type

Returns

reportType

Definition at line 75 of file Report.java.

7.16.3.6 getUser1()

```
String bankapp.server.Report.getUser1 ( )
```

get the user number 1

Returns

user1

Definition at line 82 of file Report.java.

7.16.3.7 getUser2()

```
String bankapp.server.Report.getUser2 ( )
```

get the user number 2

Returns

user2

Definition at line 89 of file Report.java.

7.16.3.8 toString()

```
String bankapp.server.Report.toString ( )
```

Definition at line 121 of file Report.java.

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

- src/main/java/bankapp/server/[Report.java](#)

7.17 bankapp.server.ReportTest Class Reference

This is the [ReportTest](#) class.

Public Member Functions

- void [validReport](#) ()
create a valid report

7.17.1 Detailed Description

This is the [ReportTest](#) class.

Author

BICHRI

Date

05-17-2017

Definition at line 12 of file ReportTest.java.

7.17.2 Member Function Documentation

7.17.2.1 validReport()

```
void bankapp.server.ReportTest.validReport ( )
```

create a valid report

Definition at line 18 of file ReportTest.java.

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

- src/test/java/bankapp/server/[ReportTest.java](#)

7.18 bankapp.client.RMIServiceLocator Class Reference

This is the bank RMIServices hundler Class.

Public Member Functions

- void [setService](#) (String ip, String port, String serviceName)
set the service of an RMI
- char [login](#) (String user, String pass)
Login to RMIService.
- void [createUser](#) (String user, String pass, String email)
RMI create user method call.
- void [transaction](#) (String user1, String user2, long money, String accNum1, String accNum2)
RMI transaction method call.
- int [createBankAccount](#) (String user)
RMI create bank account method call.
- void [addFunds](#) (String user, String accNum, long money)
RMI add funds method call.
- void [deleteBankAccount](#) (String user, String accNum1, String accNum2)
RMI delete bank account method call.
- void [deleteAccount](#) (String user)
RMI delete account method call.
- [User](#) [getUser](#) (String user)
- ArrayList< [Report](#) > [getReports](#) (int accNum)

7.18.1 Detailed Description

This is the bank RMIServices hundler Class.

Author

BICHRI

Date

05-17-2017

Definition at line 16 of file RMIServiceLocator.java.

7.18.2 Member Function Documentation

7.18.2.1 addFunds()

```
void bankapp.client.RMIServiceLocator.addFunds (  
    String user,  
    String accNum,  
    long money )
```

RMI add funds method call.

Parameters

<i>user</i>	
<i>accNum</i>	
<i>money</i>	

Definition at line 102 of file RMIServiceLocator.java.

7.18.2.2 createBankAccount()

```
int bankapp.client.RMIServiceLocator.createBankAccount (
    String user )
```

RMI create bank account method call.

Parameters

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

Returns

int

Definition at line 86 of file RMIServiceLocator.java.

7.18.2.3 createUser()

```
void bankapp.client.RMIServiceLocator.createUser (
    String user,
    String pass,
    String email )
```

RMI create user method call.

Parameters

<i>user</i>	
<i>pass</i>	
<i>email</i>	

Definition at line 57 of file RMIServiceLocator.java.

7.18.2.4 deleteAccount()

```
void bankapp.client.RMIServiceLocator.deleteAccount (
    String user )
```

RMI delete account method call.

Parameters

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

Definition at line 129 of file RMIServiceLocator.java.

7.18.2.5 deleteBankAccount()

```
void bankapp.client.RMIServiceLocator.deleteBankAccount (
    String user,
    String accNum1,
    String accNum2 )
```

RMI delete bank account method call.

Parameters

<i>user</i>	
<i>accNum</i>	
<i>accNum2</i>	

Definition at line 117 of file RMIServiceLocator.java.

7.18.2.6 getReports()

```
ArrayList<Report> bankapp.client.RMIServiceLocator.getReports (
    int accNum )
```

Definition at line 148 of file RMIServiceLocator.java.

7.18.2.7 getUser()

```
User bankapp.client.RMIServiceLocator.getUser (
    String user )
```

Definition at line 138 of file RMIServiceLocator.java.

7.18.2.8 login()

```
char bankapp.client.RMIServiceLocator.login (
    String user,
    String pass )
```

Login to RMIService.

Parameters

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

Returns

char

Definition at line 41 of file RMIServiceLocator.java.

7.18.2.9 setService()

```
void bankapp.client.RMIServiceLocator.setService (
    String ip,
    String port,
    String serviceName )
```

set the service of an RMI

Parameters

<i>ip</i>	
<i>port</i>	
<i>serviceName</i>	

Definition at line 27 of file RMIServiceLocator.java.

7.18.2.10 transaction()

```
void bankapp.client.RMIServiceLocator.transaction (
    String user1,
    String user2,
    long money,
    String accNum1,
    String accNum2 )
```

RMI transaction method call.

Parameters

<i>user1</i>	
<i>user2</i>	
<i>money</i>	
<i>accNum1</i>	
<i>accNum2</i>	

Definition at line 73 of file RMIServiceLocator.java.

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

- src/main/java/bankapp/client/RMIServiceLocator.java

7.19 bankapp.server.ServerTest Class Reference

This is the [ServerTest](#) class.

Public Member Functions

- void [setup](#) () throws RemoteException
initialise bankDAO , [BManager](#)
- void [testLogin](#) () throws RemoteException
Test login.
- void [testTransaction](#) () throws RemoteException

Static Public Member Functions

- static junit.framework.Test [suite](#) ()

7.19.1 Detailed Description

This is the [ServerTest](#) class.

Author

BICHRI

Date

05-17-2017

Definition at line 18 of file ServerTest.java.

7.19.2 Member Function Documentation

7.19.2.1 setup()

void bankapp.server.ServerTest.setup () throws RemoteException
initialise bankDAO , [BManager](#)

Exceptions

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

Definition at line 33 of file ServerTest.java.

7.19.2.2 suite()

```
static junit.framework.Test bankapp.server.ServerTest.suite ( ) [static]
```

Definition at line 24 of file ServerTest.java.

7.19.2.3 testLogin()

```
void bankapp.server.ServerTest.testLogin ( ) throws RemoteException
```

Test login.

Exceptions

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

Definition at line 44 of file ServerTest.java.

7.19.2.4 testTransaction()

```
void bankapp.server.ServerTest.testTransaction ( ) throws RemoteException
```

Definition at line 50 of file ServerTest.java.

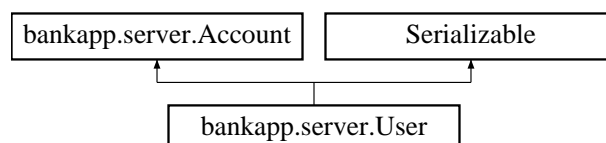
The documentation for this class was generated from the following file:

- [src/test/java/bankapp/server/ServerTest.java](#)

7.20 bankapp.server.User Class Reference

This is the [User](#).

Inheritance diagram for bankapp.server.User:



Public Member Functions

- [User](#) (String username, String pass, String email)
constructor
- void [deduceAccountFunds](#) (String accNum, long money)
- void [addFundstoAccount](#) (String accNum, long money)
- int [createAccount](#) ()
- void [addAccount](#) ([BankAccount](#) acc)
- String [getEmail](#) ()
- void [setEmail](#) (String email)
- void [deleteAccount](#) (String accNum)
- [BankAccount](#) [getAccount](#) (String accNum)
- HashMap< String, [BankAccount](#) > [getAccounts](#) ()

7.20.1 Detailed Description

This is the [User](#).

Author

BICHRI

Date

05-17-2017

Definition at line 19 of file User.java.

7.20.2 Constructor & Destructor Documentation

7.20.2.1 User()

```
bankapp.server.User.User (  
    String username,  
    String pass,  
    String email )
```

constructor

Parameters

<i>username</i>	
<i>pass</i>	
<i>email</i>	

Definition at line 34 of file User.java.

7.20.3 Member Function Documentation

7.20.3.1 addAccount()

```
void bankapp.server.User.addAccount (
    BankAccount acc )
```

Definition at line 50 of file User.java.

7.20.3.2 addFundstoAccount()

```
void bankapp.server.User.addFundstoAccount (
    String accNum,
    long money )
```

Definition at line 42 of file User.java.

7.20.3.3 createAccount()

```
int bankapp.server.User.createAccount ( )
```

Definition at line 45 of file User.java.

7.20.3.4 deduceAccountFunds()

```
void bankapp.server.User.deduceAccountFunds (
    String accNum,
    long money )
```

Definition at line 39 of file User.java.

7.20.3.5 deleteAccount()

```
void bankapp.server.User.deleteAccount (
    String accNum )
```

Definition at line 59 of file User.java.

7.20.3.6 `getAccount()`

```
BankAccount bankapp.server.User.getAccount (
    String accNum )
```

Definition at line 62 of file User.java.

7.20.3.7 `getAccounts()`

```
HashMap<String, BankAccount> bankapp.server.User.getAccounts ( )
```

Definition at line 65 of file User.java.

7.20.3.8 `getEmail()`

```
String bankapp.server.User.getEmail ( )
```

Definition at line 53 of file User.java.

7.20.3.9 `setEmail()`

```
void bankapp.server.User.setEmail (
    String email )
```

Definition at line 56 of file User.java.

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

- `src/main/java/bankapp/server/User.java`

7.21 bankapp.server.UserTest Class Reference

This is the `UserTest` class.

Public Member Functions

- void `validUser` ()
create valid user
- void `testAddFunds` ()
test the add funds
- void `testTransaction` ()
test a transaction

7.21.1 Detailed Description

This is the [UserTest](#) class.

Author

BICHRI

Date

05-17-2017

Definition at line 12 of file UserTest.java.

7.21.2 Member Function Documentation

7.21.2.1 testAddFunds()

```
void bankapp.server.UserTest.testAddFunds ( )
```

test the add funds

Definition at line 33 of file UserTest.java.

7.21.2.2 testTransaction()

```
void bankapp.server.UserTest.testTransaction ( )
```

test a transaction

Definition at line 44 of file UserTest.java.

7.21.2.3 validUser()

```
void bankapp.server.UserTest.validUser ( )
```

create valid user

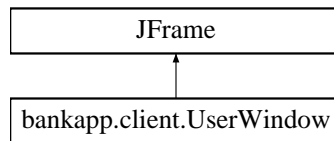
Definition at line 18 of file UserTest.java.

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

- [src/test/java/bankapp/server/UserTest.java](#)

7.22 bankapp.client.UserWindow Class Reference

Inheritance diagram for bankapp.client.UserWindow:



Public Member Functions

- `UserWindow` (final `BankController` bc, String name)

Static Public Member Functions

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

7.22.1 Detailed Description

Definition at line 28 of file `UserWindow.java`.

7.22.2 Constructor & Destructor Documentation

7.22.2.1 UserWindow()

```
bankapp.client.UserWindow.UserWindow (
    final BankController bc,
    String name )
```

Create the frame.

Definition at line 51 of file `UserWindow.java`.

7.22.3 Member Function Documentation

7.22.3.1 main()

```
static void bankapp.client.UserWindow.main (
    String [] args ) [static]
```

Launch the application.

Definition at line 45 of file `UserWindow.java`.

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

- `src/main/java/bankapp/client/UserWindow.java`

Chapter 8

File Documentation

8.1 `src/main/java/bankapp/client/AdminWindow.java` File Reference

Classes

- class [bankapp.client.AdminWindow](#)

Packages

- package [bankapp.client](#)

8.2 `src/main/java/bankapp/client/BankClient.java` File Reference

Classes

- class [bankapp.client.BankClient](#)

Packages

- package [bankapp.client](#)

8.3 `src/main/java/bankapp/client/BankController.java` File Reference

Classes

- class [bankapp.client.BankController](#)
This is the bank controller and hundler Class.

Packages

- package [bankapp.client](#)

8.4 src/main/java/bankapp/client/LoginWindow.java File Reference

Classes

- class [bankapp.client.LoginWindow](#)

Packages

- package [bankapp.client](#)

8.5 src/main/java/bankapp/client/RMIServiceLocator.java File Reference

Classes

- class [bankapp.client.RMIServiceLocator](#)
This is the bank RMIServices hundler Class.

Packages

- package [bankapp.client](#)

8.6 src/main/java/bankapp/client/UserWindow.java File Reference

Classes

- class [bankapp.client.UserWindow](#)

Packages

- package [bankapp.client](#)

8.7 src/main/java/bankapp/server/Account.java File Reference

Classes

- class [bankapp.server.Account](#)

Packages

- package [bankapp.server](#)

8.8 src/main/java/bankapp/server/Admin.java File Reference

Classes

- class [bankapp.server.Admin](#)
This is the [Admin](#) Class extends [Account](#).

Packages

- package [bankapp.server](#)

8.9 src/main/java/bankapp/server/BankAccount.java File Reference

Classes

- class [bankapp.server.BankAccount](#)

Packages

- package [bankapp.server](#)

8.10 src/main/java/bankapp/server/BankDAO.java File Reference

Classes

- class [bankapp.server.BankDAO](#)
This is the bank DAO Class.

Packages

- package [bankapp.server](#)

8.11 src/main/java/bankapp/server/BankServer.java File Reference

Classes

- class [bankapp.server.BankServer](#)
This is the bank server Class.

Packages

- package [bankapp.server](#)

8.12 src/main/java/bankapp/server/BManager.java File Reference

Classes

- class [bankapp.server.BManager](#)

This is the bank manger Class extends [UnicastRemoteObject](#) and implements [IBManager](#).

Packages

- package [bankapp.server](#)

8.13 src/main/java/bankapp/server/IBankDAO.java File Reference

Classes

- interface [bankapp.server.IBankDAO](#)

Interface [IbankDAO](#) to set function names and params.

Packages

- package [bankapp.server](#)

8.14 src/main/java/bankapp/server/IBManager.java File Reference

Classes

- interface [bankapp.server.IBManager](#)

Interface [IBManager](#) extends [Remote](#) to set function names and params.

Packages

- package [bankapp.server](#)

8.15 src/main/java/bankapp/server/Report.java File Reference

Classes

- class [bankapp.server.Report](#)

This is the [Report](#).

Packages

- package [bankapp.server](#)

8.16 src/main/java/bankapp/server/User.java File Reference

Classes

- class [bankapp.server.User](#)
This is the [User](#).

Packages

- package [bankapp.server](#)

8.17 src/test/java/bankapp/server/bankAccountTest.java File Reference

Classes

- class [bankapp.server.bankAccountTest](#)
This is the [bankAccountTest](#) class.

Packages

- package [bankapp.server](#)

8.18 src/test/java/bankapp/server/BDTest.java File Reference

Classes

- class [bankapp.server.BDTest](#)
This is the [BDTest](#) class.

Packages

- package [bankapp.server](#)

8.19 src/test/java/bankapp/server/Performance.java File Reference

Classes

- class [bankapp.server.Performance](#)
This is the [Performance](#) class.

Packages

- package [bankapp.server](#)

8.20 src/test/java/bankapp/server/ReportTest.java File Reference

Classes

- class [bankapp.server.ReportTest](#)
This is the [ReportTest](#) class.

Packages

- package [bankapp.server](#)

8.21 src/test/java/bankapp/server/ServerTest.java File Reference

Classes

- class [bankapp.server.ServerTest](#)
This is the [ServerTest](#) class.

Packages

- package [bankapp.server](#)

8.22 src/test/java/bankapp/server/UserTest.java File Reference

Classes

- class [bankapp.server.UserTest](#)
This is the [UserTest](#) class.

Packages

- package [bankapp.server](#)

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