Bookshop

Generated by Doxygen 1.8.13

Contents

1 Namespace Index **1**

1.1 Packages 1

2 Hierarchical Index **3**

2.1 Class Hierarchy 3

3 Class Index **5**

3.1 Class List 5

4 File Index **7**

4.1 File List 7

5 Namespace Documentation **9**

5.1 Package client 9

5.2 Package client.gui 9

5.3 Package db 9

5.4 Package server 10

5.5 Package server.data 10

5.6 Package server.remote 10

6 Class Documentation **11**

6.1 server.data.Book Class Reference 11

6.1.1 Constructor & Destructor Documentation 12

6.1.1.1 Book() [1/2] 12

6.1.1.2 Book() [2/2] 12

6.1.2 Member Function Documentation 12

6.1.2.1 addReview() 12

6.1.2.2 addUser() 12

6.1.2.3 getAuthor() 12

6.1.2.4 getCategory() 13

6.1.2.5 getDescription() 13

6.1.2.6 getEdition() 13

6.1.2.7 getImg() 13

6.1.2.8 getISBN() 13

6.1.2.9 getPrice() 13

6.1.2.10 getReviews() 13

6.1.2.11 getTitle() 13

6.1.2.12 getUsers() 14

6.1.2.13 removeReview() 14

6.1.2.14 removeUser() 14

6.1.2.15 setAuthor() 14

6.1.2.16 setCategory() 14

6.1.2.17 setDescription() 14

6.1.2.18 setEdition() 14

6.1.2.19 setImg() 15

6.1.2.20 setISBN() 15

6.1.2.21 setPrice() 15

6.1.2.22 setTitle() 15

6.1.2.23 toString() 15

6.2 client.Client Class Reference 15

6.2.1 Member Function Documentation . . . 16
6.2.1.1 buyBook() . . . 16
6.2.1.2 displayMenu() . . . 16
6.2.1.3 displaySubMenu() . . . 16
6.2.1.4 logIn() . . . 16
6.2.1.5 main() . . . 16
6.2.1.6 mainMenu() . . . 16
6.2.1.7 menuBook() . . . 17
6.2.1.8 menuReviews() . . . 17
6.2.1.9 menuSearch() . . . 17
6.2.1.10 menuShowBooks() . . . 17
6.2.1.11 searchISBN() . . . 17
6.2.1.12 searchTitle() . . . 17
6.2.1.13 showBook() . . . 17
6.2.1.14 showBooks() . . . 18
6.2.1.15 signUp() . . . 18
6.3 server.ContiPerfTest Class Reference . . . 18
6.3.1 Member Function Documentation . . . 18
6.3.1.1 registerNewUserTest() . . . 18
6.3.1.2 showBookThreads() . . . 19
6.3.1.3 showBookThreads2() . . . 19
6.3.1.4 storeBook() . . . 19
6.3.1.5 storeBookDuration() . . . 19
6.3.1.6 suite() . . . 19
6.3.2 Member Data Documentation . . . 19
6.3.2.1 rule . . . 19
6.4 db.DAO Class Reference . . . 20
6.4.1 Constructor & Destructor Documentation . . . 20
6.4.1.1 DAO() . . . 20
6.4.2 Member Function Documentation . . . 20

6.4.2.1 deleteBook() . . . 20
6.4.2.2 deleteReview() . . . 21
6.4.2.3 getAllBooks() . . . 21
6.4.2.4 getAllReviews() . . . 21
6.4.2.5 getAllUsers() . . . 21
6.4.2.6 retrieveBook() . . . 21
6.4.2.7 retrieveBookByParameter() . . . 21
6.4.2.8 retrieveReview() . . . 22
6.4.2.9 retrieveUser() . . . 22
6.4.2.10 storeBook() . . . 22
6.4.2.11 storeUser() . . . 22
6.4.2.12 updateBook() . . . 22
6.4.2.13 updateReview() . . . 22
6.4.2.14 updateUser() . . . 23
6.5 server.DAOMockTest Class Reference . . . 23
6.5.1 Member Function Documentation . . . 23
6.5.1.1 setUp() . . . 23
6.5.1.2 suite() . . . 23
6.5.1.3 testAddBookInvalidRemote() . . . 23
6.5.1.4 testAddBookValid() . . . 24
6.5.1.5 testRegisterUserAlreadyExists() . . . 24
6.5.1.6 testRegisterUserCorrectly() . . . 24
6.6 db.DB Class Reference . . . 24
6.6.1 Constructor & Destructor Documentation . . . 25
6.6.1.1 DB() [1/2] . . . 25
6.6.1.2 DB() [2/2] . . . 25
6.6.2 Member Function Documentation . . . 25
6.6.2.1 addBookToDb() . . . 25
6.6.2.2 addReview() . . . 25
6.6.2.3 averageRatingByBook() . . . 25

6.6.2.4 averageRatingByUser() . . . 26
6.6.2.5 buyBook() . . . 26
6.6.2.6 deleteBook() . . . 26
6.6.2.7 deleteReview() . . . 26
6.6.2.8 getAllBooks() . . . 26
6.6.2.9 getAllReviews() . . . 26
6.6.2.10 getAllUsers() . . . 27
6.6.2.11 getBookReviews() . . . 27
6.6.2.12 getUserReviews() . . . 27
6.6.2.13 registerUser() [1/2] . . . 27
6.6.2.14 registerUser() [2/2] . . . 27
6.6.2.15 showBookByISBN() . . . 27
6.6.2.16 showBookByTitle() . . . 28
6.6.2.17 showReview() . . . 28
6.6.2.18 showUser() . . . 28
6.7 db.IDAO Interface Reference . . . 28
6.7.1 Member Function Documentation . . . 29
6.7.1.1 deleteBook() . . . 29
6.7.1.2 deleteReview() . . . 29
6.7.1.3 getAllBooks() . . . 29
6.7.1.4 getAllReviews() . . . 29
6.7.1.5 getAllUsers() . . . 29
6.7.1.6 retrieveBook() . . . 30
6.7.1.7 retrieveBookByParameter() . . . 30
6.7.1.8 retrieveReview() . . . 30
6.7.1.9 retrieveUser() . . . 30
6.7.1.10 storeBook() . . . 30
6.7.1.11 storeUser() . . . 30
6.7.1.12 updateBook() . . . 31
6.7.1.13 updateReview() . . . 31

6.7.1.14 updateUser() . . . 31
6.8 db.IDB Interface Reference . . . 31
6.8.1 Member Function Documentation . . . 32
6.8.1.1 addBookToDb() . . . 32
6.8.1.2 addReview() . . . 32
6.8.1.3 averageRatingByBook() . . . 32
6.8.1.4 averageRatingByUser() . . . 32
6.8.1.5 buyBook() . . . 32
6.8.1.6 deleteBook() . . . 33
6.8.1.7 deleteReview() . . . 33
6.8.1.8 getAllBooks() . . . 33
6.8.1.9 getAllReviews() . . . 33
6.8.1.10 getAllUsers() . . . 33
6.8.1.11 getBookReviews() . . . 33
6.8.1.12 getUserReviews() . . . 34
6.8.1.13 registerUser() . . . 34
6.8.1.14 showBookByISBN() . . . 34
6.8.1.15 showBookByTitle() . . . 34
6.8.1.16 showReview() . . . 34
6.8.1.17 showUser() . . . 35
6.9 server.remote.IRemote Interface Reference . . . 35
6.9.1 Member Function Documentation . . . 35
6.9.1.1 addBook() [1/2] . . . 36
6.9.1.2 addBook() [2/2] . . . 36
6.9.1.3 addReview() . . . 36
6.9.1.4 averageRatingByBook() . . . 36
6.9.1.5 averageRatingByUser() . . . 36
6.9.1.6 bookTest() . . . 37
6.9.1.7 buyBook() . . . 37
6.9.1.8 deleteBook() . . . 37

6.9.1.9 deleteReview() . . . 37
6.9.1.10 getAllReviews() . . . 37
6.9.1.11 getAllUsers() . . . 37
6.9.1.12 getBookByISBN() . . . 38
6.9.1.13 getBookByTitle() . . . 38
6.9.1.14 getBookReviews() . . . 38
6.9.1.15 getReview() . . . 38
6.9.1.16 getUser() . . . 38
6.9.1.17 getUserReviews() . . . 38
6.9.1.18 registerUser() . . . 39
6.9.1.19 showBooksInStore() . . . 39
6.10 client.gui.LogIn Class Reference . . . 39
6.10.1 Constructor & Destructor Documentation . . . 39
6.10.1.1 LogIn() . . . 39
6.10.2 Member Function Documentation . . . 39
6.10.2.1 main() . . . 40
6.11 server.remote.Remote Class Reference . . . 40
6.11.1 Constructor & Destructor Documentation . . . 40
6.11.1.1 Remote() . . . 41
6.11.2 Member Function Documentation . . . 41
6.11.2.1 addBook() [1/2] . . . 41
6.11.2.2 addBook() [2/2] . . . 41
6.11.2.3 addReview() . . . 41
6.11.2.4 averageRatingByBook() . . . 42
6.11.2.5 averageRatingByUser() . . . 42
6.11.2.6 bookTest() . . . 42
6.11.2.7 buyBook() . . . 42
6.11.2.8 deleteBook() . . . 42
6.11.2.9 deleteReview() . . . 42
6.11.2.10 getAllReviews() . . . 43

6.11.2.11 getAllUsers() . . . 43
6.11.2.12 getBookByISBN() . . . 43
6.11.2.13 getBookByTitle() . . . 43
6.11.2.14 getBookReviews() . . . 43
6.11.2.15 getReview() . . . 43
6.11.2.16 getUser() . . . 44
6.11.2.17 getUserReviews() . . . 44
6.11.2.18 registerUser() . . . 44
6.11.2.19 showBooksInStore() . . . 44
6.12 server.data.Review Class Reference . . . 44
6.12.1 Constructor & Destructor Documentation . . . 45
6.12.1.1 Review() [1/3] . . . 45
6.12.1.2 Review() [2/3] . . . 45
6.12.1.3 Review() [3/3] . . . 45
6.12.2 Member Function Documentation . . . 45
6.12.2.1 getBook() . . . 46
6.12.2.2 getComment() . . . 46
6.12.2.3 getId_review() . . . 46
6.12.2.4 getRating() . . . 46
6.12.2.5 getUser() . . . 46
6.12.2.6 setBook() . . . 46
6.12.2.7 setComment() . . . 46
6.12.2.8 setId_review() . . . 47
6.12.2.9 setRating() . . . 47
6.12.2.10 setUser() . . . 47
6.12.2.11 toString() . . . 47
6.13 server.RMITest Class Reference . . . 47
6.13.1 Detailed Description . . . 48
6.13.2 Member Function Documentation . . . 48
6.13.2.1 bookTestValidation() . . . 48

6.13.2.2 getThings() . . . 48
6.13.2.3 registerExistingUserTest() . . . 48
6.13.2.4 registerNewUserTest() . . . 48
6.13.2.5 setUp() . . . 48
6.13.2.6 setUpClient() . . . 48
6.13.2.7 showBooksInStoreTest() . . . 49
6.13.2.8 showUserFailTest() . . . 49
6.13.2.9 showUsersTest() . . . 49
6.13.2.10 suite() . . . 49
6.13.2.11 tearDown() . . . 49
6.14 server.Server Class Reference . . . 50
6.14.1 Member Function Documentation . . . 50
6.14.1.1 main() . . . 50
6.15 client.gui.ShowBooks Class Reference . . . 50
6.15.1 Constructor & Destructor Documentation . . . 50
6.15.1.1 ShowBooks() . . . 50
6.15.2 Member Function Documentation . . . 50
6.15.2.1 main() . . . 51
6.16 client.gui.ShowDescription Class Reference . . . 51
6.16.1 Constructor & Destructor Documentation . . . 51
6.16.1.1 ShowDescription() . . . 51
6.17 server.data.User Class Reference . . . 51
6.17.1 Constructor & Destructor Documentation . . . 52
6.17.1.1 User() [1/2] . . . 52
6.17.1.2 User() [2/2] . . . 52
6.17.2 Member Function Documentation . . . 53
6.17.2.1 addBook() . . . 53
6.17.2.2 addReview() . . . 53
6.17.2.3 getAddress() . . . 53
6.17.2.4 getBooks() . . . 53

6.17.2.5 getEmail() . . . 53
6.17.2.6 getMoney() . . . 53
6.17.2.7 getName() . . . 53
6.17.2.8 getPassword() . . . 54
6.17.2.9 getReviews() . . . 54
6.17.2.10 getRole() . . . 54
6.17.2.11 removeBook() . . . 54
6.17.2.12 removeReview() . . . 54
6.17.2.13 setAddress() . . . 54
6.17.2.14 setEmail() . . . 54
6.17.2.15 setMoney() . . . 55
6.17.2.16 setName() . . . 55
6.17.2.17 setPassword() . . . 55
6.17.2.18 setRole() . . . 55
6.17.2.19 toString() . . . 55

7 File Documentation **57**

7.1 src/main/java/client/Client.java File Reference . . . 57
7.2 src/main/java/client/gui/LogIn.java File Reference . . . 57
7.3 src/main/java/client/gui/ShowBooks.java File Reference . . . 57
7.4 src/main/java/client/gui/ShowDescription.java File Reference . . . 58
7.5 src/main/java/db/DAO.java File Reference . . . 58
7.6 src/main/java/db/DB.java File Reference . . . 58
7.7 src/main/java/db/IDAO.java File Reference . . . 58
7.8 src/main/java/db/IDB.java File Reference . . . 59
7.9 src/main/java/server/data/Book.java File Reference . . . 59
7.10 src/main/java/server/data/Review.java File Reference . . . 59
7.11 src/main/java/server/data/User.java File Reference . . . 59
7.12 src/main/java/server/remote/IRemote.java File Reference . . . 60
7.13 src/main/java/server/remote/Remote.java File Reference . . . 60
7.14 src/main/java/server/Server.java File Reference . . . 60
7.15 src/test/java/server/ContiPerfTest.java File Reference . . . 60
7.16 src/test/java/server/DAOMockTest.java File Reference . . . 61
7.17 src/test/java/server/RMITest.java File Reference . . . 61

Index **63**

Chapter 1

Namespace Index

1.1 Packages

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

client 9
client.gui 9
db 9
server 10
server.data 10
server.remote 10

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

client.Client . . . 15
server.ContiPerfTest . . . 18
server.DAOMockTest . . . 23
db.IDAO . . . 28
    db.DAO . . . 20
db.IDB . . . 31
    db.DB . . . 24
server.remote.IRemote . . . 35
    server.remote.Remote . . . 40
client.gui.LogIn . . . 39
server.RMITest . . . 47
server.Server . . . 50
client.gui.ShowBooks . . . 50
client.gui.ShowDescription . . . 51
Serializable
    server.data.Book . . . 11
    server.data.Review . . . 44
    server.data.User . . . 51
UnicastRemoteObject
    server.remote.Remote . . . 40

Chapter 3

Class Index

3.1 Class List

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

server.data.Book 11
client.Client 15
server.ContiPerfTest 18
db.DAO 20
server.DAOMockTest 23
db.DB 24
db.IDAO 28
db.IDB 31
server.remote.IRemote 35
client.gui.LogIn 39
server.remote.Remote 40
server.data.Review 44
server.RMITest 47
server.Server 50
client.gui.ShowBooks 50
client.gui.ShowDescription 51
server.data.User 51

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

src/main/java/client/Client.java . . . 57
src/main/java/client/gui/LogIn.java . . . 57
src/main/java/client/gui/ShowBooks.java . . . 57
src/main/java/client/gui/ShowDescription.java . . . 58
src/main/java/db/DAO.java . . . 58
src/main/java/db/DB.java . . . 58
src/main/java/db/IDAO.java . . . 58
src/main/java/db/IDB.java . . . 59
src/main/java/server/Server.java . . . 60
src/main/java/server/data/Book.java . . . 59
src/main/java/server/data/Review.java . . . 59
src/main/java/server/data/User.java . . . 59
src/main/java/server/remote/IRemote.java . . . 60
src/main/java/server/remote/Remote.java . . . 60
src/test/java/server/ContiPerfTest.java . . . 60
src/test/java/server/DAOMockTest.java . . . 61
src/test/java/server/RMITest.java . . . 61

Chapter 5

Namespace Documentation

5.1 Package client

Packages

- package gui

Classes

- class Client

5.2 Package client.gui

Classes

- class **BookTableModel**
- class LogIn
- class **ReviewTableModel**
- class ShowBooks
- class ShowDescription

5.3 Package db

Classes

- class DAO
- class DB
- interface IDAO
- interface IDB

5.4 Package server

Packages

- package data
- package remote

Classes

- class ContiPerfTest
- class DAOMockTest
- class RMITest
- class Server

5.5 Package server.data

Classes

- class Book
- class Review
- class User

5.6 Package server.remote

Classes

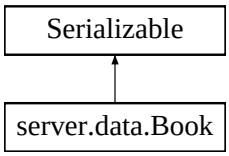
- interface IRemote
- class Remote

Chapter 6

Class Documentation

6.1 server.data.Book Class Reference

Inheritance diagram for server.data.Book:



Public Member Functions

- Book (int ISBN, String title, String category, String edition, String author, double price, String description, String img)
- Book (int ISBN, String title, String author, double price)
- void addReview (Review review)
- void removeReview (Review review)
- List< Review > getReviews ()
- void addUser (User user)
- void removeUser (User user)
- List< User > getUsers ()
- int getISBN ()
- void setISBN (int ISBN)
- String getTitle ()
- void setTitle (String title)
- String getCategory ()
- void setCategory (String category)
- String getEdition ()
- void setEdition (String edition)
- String getAuthor ()
- void setAuthor (String author)
- double getPrice ()
- void setPrice (double price)
- String getDescription ()
- void setDescription (String description)
- String getImg ()
- void setImg (String img)
- String toString ()

6.1.1 Constructor & Destructor Documentation

6.1.1.1 Book() [1/2]

```
server.data.Book.Book (
            int ISBN,
            String title,
            String category,
            String edition,
            String author,
            double price,
            String description,
            String img )
```

6.1.1.2 Book() [2/2]

```
server.data.Book.Book (
            int ISBN,
            String title,
            String author,
            double price )
```

6.1.2 Member Function Documentation

6.1.2.1 addReview()

```
void server.data.Book.addReview (
            Review review )
```

6.1.2.2 addUser()

```
void server.data.Book.addUser (
            User user )
```

6.1.2.3 getAuthor()

```
String server.data.Book.getAuthor ( )
```

6.1.2.4 getCategory()

```
String server.data.Book.getCategory ( )
```

6.1.2.5 getDescription()

```
String server.data.Book.getDescription ( )
```

6.1.2.6 getEdition()

```
String server.data.Book.getEdition ( )
```

6.1.2.7 getImg()

```
String server.data.Book.getImg ( )
```

6.1.2.8 getISBN()

```
int server.data.Book.getISBN ( )
```

6.1.2.9 getPrice()

```
double server.data.Book.getPrice ( )
```

6.1.2.10 getReviews()

```
List<Review> server.data.Book.getReviews ( )
```

6.1.2.11 getTitle()

```
String server.data.Book.getTitle ( )
```

6.1.2.12 getUsers()

```
List<User> server.data.Book.getUsers ( )
```

6.1.2.13 removeReview()

```
void server.data.Book.removeReview (
            Review review )
```

6.1.2.14 removeUser()

```
void server.data.Book.removeUser (
            User user )
```

6.1.2.15 setAuthor()

```
void server.data.Book.setAuthor (
            String author )
```

6.1.2.16 setCategory()

```
void server.data.Book.setCategory (
            String category )
```

6.1.2.17 setDescription()

```
void server.data.Book.setDescription (
            String description )
```

6.1.2.18 setEdition()

```
void server.data.Book.setEdition (
            String edition )
```

6.1.2.19 setImg()

```
void server.data.Book.setImg (
            String img )
```

6.1.2.20 setISBN()

```
void server.data.Book.setISBN (
            int ISBN )
```

6.1.2.21 setPrice()

```
void server.data.Book.setPrice (
            double price )
```

6.1.2.22 setTitle()

```
void server.data.Book.setTitle (
            String title )
```

6.1.2.23 toString()

```
String server.data.Book.toString ( )
```

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

- src/main/java/server/data/Book.java

6.2 client.Client Class Reference

Static Public Member Functions

- static void displayMenu (String[ ] options)
- static void displaySubMenu (String[ ] options)
- static void mainMenu (IRemote server)
- static void menuShowBooks (IRemote server)
- static void menuSearch (IRemote server)
- static void menuBook (IRemote server)
- static void menuReviews (IRemote server)
- static void logIn (IRemote server)
- static void signUp (IRemote server)
- static void searchISBN (IRemote server)
- static void searchTitle (IRemote server)
- static void showBooks (IRemote server)
- static void showBook (IRemote server, int numBook)
- static void buyBook (IRemote server)
- static void main (String[ ] args)

6.2.1 Member Function Documentation

6.2.1.1 buyBook()

```
static void client.Client.buyBook (
            IRemote server )  [static]
```

6.2.1.2 displayMenu()

```
static void client.Client.displayMenu (
            String [] options )  [static]
```

6.2.1.3 displaySubMenu()

```
static void client.Client.displaySubMenu (
            String [] options )  [static]
```

6.2.1.4 logIn()

```
static void client.Client.logIn (
            IRemote server )  [static]
```

6.2.1.5 main()

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

6.2.1.6 mainMenu()

```
static void client.Client.mainMenu (
            IRemote server )  [static]
```

6.2.1.7 menuBook()

```
static void client.Client.menuBook (
            IRemote server )  [static]
```

6.2.1.8 menuReviews()

```
static void client.Client.menuReviews (
            IRemote server )  [static]
```

6.2.1.9 menuSearch()

```
static void client.Client.menuSearch (
            IRemote server )  [static]
```

6.2.1.10 menuShowBooks()

```
static void client.Client.menuShowBooks (
            IRemote server )  [static]
```

6.2.1.11 searchISBN()

```
static void client.Client.searchISBN (
            IRemote server )  [static]
```

6.2.1.12 searchTitle()

```
static void client.Client.searchTitle (
            IRemote server )  [static]
```

6.2.1.13 showBook()

```
static void client.Client.showBook (
            IRemote server,
            int numBook )  [static]
```

6.2.1.14 showBooks()

```
static void client.Client.showBooks (
            IRemote server )  [static]
```

6.2.1.15 signUp()

```
static void client.Client.signUp (
            IRemote server )  [static]
```

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

- src/main/java/client/Client.java

6.3 server.ContiPerfTest Class Reference

Public Member Functions

- void storeBook ()
- void registerNewUserTest ()
- void storeBookDuration ()
- void showBookThreads ()
- void showBookThreads2 ()

Static Public Member Functions

- static junit.framework.Test suite ()

Public Attributes

- ContiPerfRule rule = new ContiPerfRule()

6.3.1 Member Function Documentation

6.3.1.1 registerNewUserTest()

```
void server.ContiPerfTest.registerNewUserTest ( )
```

6.3.1.2 showBookThreads()

```
void server.ContiPerfTest.showBookThreads ( )
```

6.3.1.3 showBookThreads2()

```
void server.ContiPerfTest.showBookThreads2 ( )
```

6.3.1.4 storeBook()

```
void server.ContiPerfTest.storeBook ( )
```

6.3.1.5 storeBookDuration()

```
void server.ContiPerfTest.storeBookDuration ( )
```

6.3.1.6 suite()

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

6.3.2 Member Data Documentation

6.3.2.1 rule

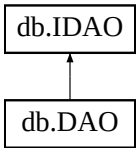
```
ContiPerfRule server.ContiPerfTest.rule = new ContiPerfRule()
```

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

- src/test/java/server/ContiPerfTest.java

6.4 db.DAO Class Reference

Inheritance diagram for db.DAO:



Public Member Functions

- DAO ()
- boolean storeUser (User u)
- User retrieveUser (String email)
- boolean updateUser (User u)
- Review retrieveReview (int id_review)
- boolean updateReview (Review review)
- boolean storeBook (Book b)
- Book retrieveBook (int ISBN)
- boolean updateBook (Book b)
- Book retrieveBookByParameter (String title)
- List< User > getAllUsers ()
- List< Review > getAllReviews ()
- List< Book > getAllBooks ()
- void deleteReview (Review r)
- void deleteBook (Book b)

6.4.1 Constructor & Destructor Documentation

6.4.1.1 DAO()

```
db.DAO.DAO ( )
```

6.4.2 Member Function Documentation

6.4.2.1 deleteBook()

```
void db.DAO.deleteBook (
            Book b )
```

Implements db.IDAO.

6.4.2.2 deleteReview()

```
void db.DAO.deleteReview (
            Review r )
```

Implements db.IDAO.

6.4.2.3 getAllBooks()

```
List<Book> db.DAO.getAllBooks ( )
```

Implements db.IDAO.

6.4.2.4 getAllReviews()

```
List<Review> db.DAO.getAllReviews ( )
```

Implements db.IDAO.

6.4.2.5 getAllUsers()

```
List<User> db.DAO.getAllUsers ( )
```

Implements db.IDAO.

6.4.2.6 retrieveBook()

```
Book db.DAO.retrieveBook (
            int ISBN )
```

Implements db.IDAO.

6.4.2.7 retrieveBookByParameter()

```
Book db.DAO.retrieveBookByParameter (
            String title )
```

Implements db.IDAO.

6.4.2.8 retrieveReview()

```
Review db.DAO.retrieveReview (
            int id_review )
```

Implements db.IDAO.

6.4.2.9 retrieveUser()

```
User db.DAO.retrieveUser (
            String email )
```

Implements db.IDAO.

6.4.2.10 storeBook()

```
boolean db.DAO.storeBook (
            Book b )
```

Implements db.IDAO.

6.4.2.11 storeUser()

```
boolean db.DAO.storeUser (
            User u )
```

Implements db.IDAO.

6.4.2.12 updateBook()

```
boolean db.DAO.updateBook (
            Book b )
```

Implements db.IDAO.

6.4.2.13 updateReview()

```
boolean db.DAO.updateReview (
            Review review )
```

Implements db.IDAO.

6.4.2.14 updateUser()

```
boolean db.DAO.updateUser (
            User u )
```

Implements db.IDAO.

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

- src/main/java/db/DAO.java

6.5 server.DAOMockTest Class Reference

Public Member Functions

- void setUp () throws Exception
- void testRegisterUserCorrectly ()
- void testRegisterUserAlreadyExists ()
- void testAddBookValid () throws RemoteException
- void testAddBookInvalidRemote () throws RemoteException

Static Public Member Functions

- static junit.framework.Test suite ()

6.5.1 Member Function Documentation

6.5.1.1 setUp()

```
void server.DAOMockTest.setUp ( ) throws Exception
```

6.5.1.2 suite()

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

6.5.1.3 testAddBookInvalidRemote()

```
void server.DAOMockTest.testAddBookInvalidRemote ( ) throws RemoteException
```

6.5.1.4 testAddBookValid()

```
void server.DAOMockTest.testAddBookValid ( ) throws RemoteException
```

6.5.1.5 testRegisterUserAlreadyExists()

```
void server.DAOMockTest.testRegisterUserAlreadyExists ( )
```

6.5.1.6 testRegisterUserCorrectly()

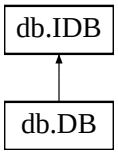
```
void server.DAOMockTest.testRegisterUserCorrectly ( )
```

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

- src/test/java/server/DAOMockTest.java

6.6 db.DB Class Reference

Inheritance diagram for db.DB:



Public Member Functions

- DB ()
- DB (IDAO udao)
- List< User > getAllUsers ()
- List< Review > getAllReviews ()
- List< Book > getAllBooks ()
- boolean buyBook (String email, String book_title)
- boolean addReview (Book b, Review r, User u)
- boolean registerUser (String email, String password, boolean role)
- boolean registerUser (User u)
- boolean addBookToDb (Book b)
- Book showBookByISBN (int ISBN)
- Book showBookByTitle (String title)
- Review showReview (int id_review)
- User showUser (String email)
- List< Review > getUserReviews (String email)
- List< Review > getBookReviews (String title)
- double averageRatingByBook (String title)
- double averageRatingByUser (String email)
- boolean deleteReview (int id_review)
- boolean deleteBook (int ISBN)

6.6.1 Constructor & Destructor Documentation

6.6.1.1 DB() [1/2]

```
db.DB.DB ( )
```

6.6.1.2 DB() [2/2]

```
db.DB.DB (
            IDAO udao )
```

6.6.2 Member Function Documentation

6.6.2.1 addBookToDb()

```
boolean db.DB.addBookToDb (
            Book b )
```

Implements db.IDB.

6.6.2.2 addReview()

```
boolean db.DB.addReview (
            Book b,
            Review r,
            User u )
```

Implements db.IDB.

6.6.2.3 averageRatingByBook()

```
double db.DB.averageRatingByBook (
            String title )
```

Implements db.IDB.

6.6.2.4 averageRatingByUser()

```
double db.DB.averageRatingByUser (
            String email )
```

Implements db.IDB.

6.6.2.5 buyBook()

```
boolean db.DB.buyBook (
            String email,
            String book_title )
```

Implements db.IDB.

6.6.2.6 deleteBook()

```
boolean db.DB.deleteBook (
            int ISBN )
```

Implements db.IDB.

6.6.2.7 deleteReview()

```
boolean db.DB.deleteReview (
            int id_review )
```

Implements db.IDB.

6.6.2.8 getAllBooks()

```
List<Book> db.DB.getAllBooks ( )
```

Implements db.IDB.

6.6.2.9 getAllReviews()

```
List<Review> db.DB.getAllReviews ( )
```

Implements db.IDB.

6.6.2.10 getAllUsers()

```
List<User> db.DB.getAllUsers ( )
```

Implements db.IDB.

6.6.2.11 getBookReviews()

```
List<Review> db.DB.getBookReviews (
            String title )
```

Implements db.IDB.

6.6.2.12 getUserReviews()

```
List<Review> db.DB.getUserReviews (
            String email )
```

Implements db.IDB.

6.6.2.13 registerUser() [1/2]

```
boolean db.DB.registerUser (
            String email,
            String password,
            boolean role )
```

Implements db.IDB.

6.6.2.14 registerUser() [2/2]

```
boolean db.DB.registerUser (
            User u )
```

6.6.2.15 showBookByISBN()

```
Book db.DB.showBookByISBN (
            int ISBN )
```

Implements db.IDB.

6.6.2.16 showBookByTitle()

```
Book db.DB.showBookByTitle (
            String title )
```

Implements db.IDB.

6.6.2.17 showReview()

```
Review db.DB.showReview (
            int id_review )
```

Implements db.IDB.

6.6.2.18 showUser()

```
User db.DB.showUser (
            String email )
```

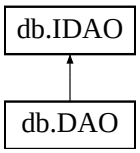
Implements db.IDB.

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

- src/main/java/db/DB.java

6.7 db.IDAO Interface Reference

Inheritance diagram for db.IDAO:



Public Member Functions

- boolean storeUser (User u)
- User retrieveUser (String email)
- boolean updateUser (User u)
- Review retrieveReview (int id_review)
- boolean updateReview (Review r)
- boolean storeBook (Book b)
- Book retrieveBook (int ISBN)
- boolean updateBook (Book b)
- Book retrieveBookByParameter (String title)
- List< User > getAllUsers ()
- List< Review > getAllReviews ()
- List< Book > getAllBooks ()
- void deleteReview (Review r)
- void deleteBook (Book b)

6.7.1 Member Function Documentation

6.7.1.1 deleteBook()

```
void db.IDAO.deleteBook (
            Book b )
```

Implemented in db.DAO.

6.7.1.2 deleteReview()

```
void db.IDAO.deleteReview (
            Review r )
```

Implemented in db.DAO.

6.7.1.3 getAllBooks()

```
List<Book> db.IDAO.getAllBooks ( )
```

Implemented in db.DAO.

6.7.1.4 getAllReviews()

```
List<Review> db.IDAO.getAllReviews ( )
```

Implemented in db.DAO.

6.7.1.5 getAllUsers()

```
List<User> db.IDAO.getAllUsers ( )
```

Implemented in db.DAO.

6.7.1.6 retrieveBook()

```
Book db.IDAO.retrieveBook (
            int ISBN )
```

Implemented in db.DAO.

6.7.1.7 retrieveBookByParameter()

```
Book db.IDAO.retrieveBookByParameter (
            String title )
```

Implemented in db.DAO.

6.7.1.8 retrieveReview()

```
Review db.IDAO.retrieveReview (
            int id_review )
```

Implemented in db.DAO.

6.7.1.9 retrieveUser()

```
User db.IDAO.retrieveUser (
            String email )
```

Implemented in db.DAO.

6.7.1.10 storeBook()

```
boolean db.IDAO.storeBook (
            Book b )
```

Implemented in db.DAO.

6.7.1.11 storeUser()

```
boolean db.IDAO.storeUser (
            User u )
```

Implemented in db.DAO.

6.7.1.12 updateBook()

```
boolean db.IDAO.updateBook (
            Book b )
```

Implemented in db.DAO.

6.7.1.13 updateReview()

```
boolean db.IDAO.updateReview (
            Review r )
```

Implemented in db.DAO.

6.7.1.14 updateUser()

```
boolean db.IDAO.updateUser (
            User u )
```

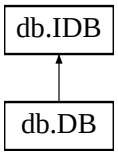
Implemented in db.DAO.

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

- src/main/java/db/IDAO.java

6.8 db.IDB Interface Reference

Inheritance diagram for db.IDB:



Public Member Functions

- List< User > getAllUsers ()
- List< Review > getAllReviews ()
- List< Book > getAllBooks ()
- boolean buyBook (String email, String book_title)
- boolean registerUser (String email, String password, boolean role)
- boolean addBookToDb (Book b)
- boolean addReview (Book b, Review r, User user)
- Book showBookByISBN (int ISBN)
- Book showBookByTitle (String title)
- Review showReview (int id_review)
- User showUser (String email)
- List< Review > getUserReviews (String email)
- List< Review > getBookReviews (String title)
- double averageRatingByBook (String title)
- double averageRatingByUser (String email)
- boolean deleteReview (int id_review)
- boolean deleteBook (int ISBN)

6.8.1 Member Function Documentation

6.8.1.1 addBookToDb()

```
boolean db.IDB.addBookToDb (
            Book b )
```

Implemented in db.DB.

6.8.1.2 addReview()

```
boolean db.IDB.addReview (
            Book b,
            Review r,
            User user )
```

Implemented in db.DB.

6.8.1.3 averageRatingByBook()

```
double db.IDB.averageRatingByBook (
            String title )
```

Implemented in db.DB.

6.8.1.4 averageRatingByUser()

```
double db.IDB.averageRatingByUser (
            String email )
```

Implemented in db.DB.

6.8.1.5 buyBook()

```
boolean db.IDB.buyBook (
            String email,
            String book_title )
```

Implemented in db.DB.

6.8.1.6 deleteBook()

```
boolean db.IDB.deleteBook (
            int ISBN )
```

Implemented in db.DB.

6.8.1.7 deleteReview()

```
boolean db.IDB.deleteReview (
            int id_review )
```

Implemented in db.DB.

6.8.1.8 getAllBooks()

```
List<Book> db.IDB.getAllBooks ( )
```

Implemented in db.DB.

6.8.1.9 getAllReviews()

```
List<Review> db.IDB.getAllReviews ( )
```

Implemented in db.DB.

6.8.1.10 getAllUsers()

```
List<User> db.IDB.getAllUsers ( )
```

Implemented in db.DB.

6.8.1.11 getBookReviews()

```
List<Review> db.IDB.getBookReviews (
            String title )
```

Implemented in db.DB.

6.8.1.12 getUserReviews()

```
List<Review> db.IDB.getUserReviews (
            String email )
```

Implemented in db.DB.

6.8.1.13 registerUser()

```
boolean db.IDB.registerUser (
            String email,
            String password,
            boolean role )
```

Implemented in db.DB.

6.8.1.14 showBookByISBN()

```
Book db.IDB.showBookByISBN (
            int ISBN )
```

Implemented in db.DB.

6.8.1.15 showBookByTitle()

```
Book db.IDB.showBookByTitle (
            String title )
```

Implemented in db.DB.

6.8.1.16 showReview()

```
Review db.IDB.showReview (
            int id_review )
```

Implemented in db.DB.

6.8.1.17 showUser()

```
User db.IDB.showUser (
            String email )
```

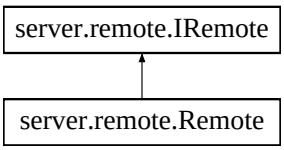
Implemented in db.DB.

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

- src/main/java/db/IDB.java

6.9 server.remote.IRemote Interface Reference

Inheritance diagram for server.remote.IRemote:



Public Member Functions

- boolean registerUser (String email, String password, boolean role) throws RemoteException
- boolean addBook (Book book) throws RemoteException
- List< Book > showBooksInStore () throws RemoteException
- List< User > getAllUsers () throws RemoteException
- List< Review > getAllReviews () throws RemoteException
- Book bookTest () throws RemoteException
- Book getBookByISBN (int ISBN) throws RemoteException
- Book getBookByTitle (String title) throws RemoteException
- Review getReview (int id_review) throws RemoteException
- User getUser (String email) throws RemoteException
- boolean buyBook (String email, String book_title) throws RemoteException
- boolean addReview (Book b, Review r, User u) throws RemoteException
- List< Review > getUserReviews (String email) throws RemoteException
- List< Review > getBookReviews (String title) throws RemoteException
- double averageRatingByBook (String title) throws RemoteException
- double averageRatingByUser (String email) throws RemoteException
- void deleteReview (int id_review) throws RemoteException
- void deleteBook (int ISBN) throws RemoteException
- boolean addBook (int ISBN, String title, String category, String edition, String author, double price, String description, String img) throws RemoteException

6.9.1 Member Function Documentation

6.9.1.1 addBook() [1/2]

```
boolean server.remote.IRemote.addBook (
            Book book ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.2 addBook() [2/2]

```
boolean server.remote.IRemote.addBook (
            int ISBN,
            String title,
            String category,
            String edition,
            String author,
            double price,
            String description,
            String img ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.3 addReview()

```
boolean server.remote.IRemote.addReview (
            Book b,
            Review r,
            User u ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.4 averageRatingByBook()

```
double server.remote.IRemote.averageRatingByBook (
            String title ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.5 averageRatingByUser()

```
double server.remote.IRemote.averageRatingByUser (
            String email ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.6 bookTest()

```
Book server.remote.IRemote.bookTest ( ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.7 buyBook()

```
boolean server.remote.IRemote.buyBook (
            String email,
            String book_title ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.8 deleteBook()

```
void server.remote.IRemote.deleteBook (
            int ISBN ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.9 deleteReview()

```
void server.remote.IRemote.deleteReview (
            int id_review ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.10 getAllReviews()

```
List<Review> server.remote.IRemote.getAllReviews ( ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.11 getAllUsers()

```
List<User> server.remote.IRemote.getAllUsers ( ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.12 getBookByISBN()

```
Book server.remote.IRemote.getBookByISBN (
            int ISBN ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.13 getBookByTitle()

```
Book server.remote.IRemote.getBookByTitle (
            String title ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.14 getBookReviews()

```
List<Review> server.remote.IRemote.getBookReviews (
            String title ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.15 getReview()

```
Review server.remote.IRemote.getReview (
            int id_review ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.16 getUser()

```
User server.remote.IRemote.getUser (
            String email ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.17 getUserReviews()

```
List<Review> server.remote.IRemote.getUserReviews (
            String email ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.18 registerUser()

```
boolean server.remote.IRemote.registerUser (
            String email,
            String password,
            boolean role ) throws RemoteException
```

Implemented in server.remote.Remote.

6.9.1.19 showBooksInStore()

```
List<Book> server.remote.IRemote.showBooksInStore ( ) throws RemoteException
```

Implemented in server.remote.Remote.

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

- src/main/java/server/remote/IRemote.java

6.10 client.gui.LogIn Class Reference

Public Member Functions

- LogIn ()

Static Public Member Functions

- static void main (String[ ] args)

6.10.1 Constructor & Destructor Documentation

6.10.1.1 LogIn()

```
client.gui.LogIn.LogIn ( )
```

Create the application.

6.10.2 Member Function Documentation

6.10.2.1 main()

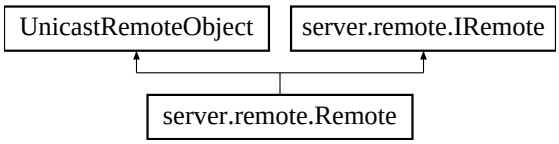
```
static void client.gui.LogIn.main (
            String [] args )  [static]
```

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

- src/main/java/client/gui/LogIn.java

6.11 server.remote.Remote Class Reference

Inheritance diagram for server.remote.Remote:



Public Member Functions

- Remote () throws RemoteException
- boolean registerUser (String email, String password, boolean role) throws RemoteException
- List< Book > showBooksInStore () throws RemoteException
- List< User > getAllUsers () throws RemoteException
- boolean addBook (Book book) throws RemoteException
- List< Review > getAllReviews () throws RemoteException
- Book bookTest ()
- Book getBookByISBN (int ISBN) throws RemoteException
- Book getBookByTitle (String title) throws RemoteException
- Review getReview (int id_review) throws RemoteException
- User getUser (String email) throws RemoteException
- boolean buyBook (String email, String book_title) throws RemoteException
- boolean addReview (Book b, Review r, User u)
- List< Review > getUserReviews (String email)
- List< Review > getBookReviews (String title)
- double averageRatingByBook (String title)
- double averageRatingByUser (String email)
- void deleteReview (int id_review)
- void deleteBook (int ISBN)
- boolean addBook (int ISBN, String title, String category, String edition, String author, double price, String description, String img)

6.11.1 Constructor & Destructor Documentation

6.11.1.1 Remote()

```
server.remote.Remote.Remote ( ) throws RemoteException
```

6.11.2 Member Function Documentation

6.11.2.1 addBook() [1/2]

```
boolean server.remote.Remote.addBook (
            Book book ) throws RemoteException
```

Implements server.remote.IRemote.

6.11.2.2 addBook() [2/2]

```
boolean server.remote.Remote.addBook (
            int ISBN,
            String title,
            String category,
            String edition,
            String author,
            double price,
            String description,
            String img )
```

Returns

boolean true if the book is created and stored in db

Implements server.remote.IRemote.

6.11.2.3 addReview()

```
boolean server.remote.Remote.addReview (
            Book b,
            Review r,
            User u )
```

Implements server.remote.IRemote.

6.11.2.4 averageRatingByBook()

```
double server.remote.Remote.averageRatingByBook (
            String title )
```

Implements server.remote.IRemote.

6.11.2.5 averageRatingByUser()

```
double server.remote.Remote.averageRatingByUser (
            String email )
```

Implements server.remote.IRemote.

6.11.2.6 bookTest()

```
Book server.remote.Remote.bookTest ( )
```

Implements server.remote.IRemote.

6.11.2.7 buyBook()

```
boolean server.remote.Remote.buyBook (
            String email,
            String book_title ) throws RemoteException
```

Implements server.remote.IRemote.

6.11.2.8 deleteBook()

```
void server.remote.Remote.deleteBook (
            int ISBN )
```

Implements server.remote.IRemote.

6.11.2.9 deleteReview()

```
void server.remote.Remote.deleteReview (
            int id_review )
```

Implements server.remote.IRemote.

6.11.2.10 getAllReviews()

```
List<Review> server.remote.Remote.getAllReviews ( ) throws RemoteException
```

Implements server.remote.IRemote.

6.11.2.11 getAllUsers()

```
List<User> server.remote.Remote.getAllUsers ( ) throws RemoteException
```

Implements server.remote.IRemote.

6.11.2.12 getBookByISBN()

```
Book server.remote.Remote.getBookByISBN (
            int ISBN ) throws RemoteException
```

Implements server.remote.IRemote.

6.11.2.13 getBookByTitle()

```
Book server.remote.Remote.getBookByTitle (
            String title ) throws RemoteException
```

Implements server.remote.IRemote.

6.11.2.14 getBookReviews()

```
List<Review> server.remote.Remote.getBookReviews (
            String title )
```

Implements server.remote.IRemote.

6.11.2.15 getReview()

```
Review server.remote.Remote.getReview (
            int id_review ) throws RemoteException
```

Implements server.remote.IRemote.

6.11.2.16 getUser()

```
User server.remote.Remote.getUser (
            String email ) throws RemoteException
```

Implements server.remote.IRemote.

6.11.2.17 getUserReviews()

```
List<Review> server.remote.Remote.getUserReviews (
            String email )
```

Implements server.remote.IRemote.

6.11.2.18 registerUser()

```
boolean server.remote.Remote.registerUser (
            String email,
            String password,
            boolean role ) throws RemoteException
```

Implements server.remote.IRemote.

6.11.2.19 showBooksInStore()

```
List<Book> server.remote.Remote.showBooksInStore ( ) throws RemoteException
```

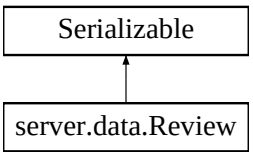
Implements server.remote.IRemote.

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

- src/main/java/server/remote/Remote.java

6.12 server.data.Review Class Reference

Inheritance diagram for server.data.Review:



Public Member Functions

- Review (User user, Book book, String comment, double rating)
- Review ()
- Review (String comment, double rating)
- User getUser ()
- void setUser (User user)
- Book getBook ()
- void setBook (Book book)
- String getComment ()
- void setComment (String comment)
- double getRating ()
- void setRating (double rating)
- int getId_review ()
- String toString ()
- void setId_review (int id_review)

6.12.1 Constructor & Destructor Documentation

6.12.1.1 Review() [1/3]

```
server.data.Review.Review (
            User user,
            Book book,
            String comment,
            double rating )
```

6.12.1.2 Review() [2/3]

```
server.data.Review.Review ( )
```

6.12.1.3 Review() [3/3]

```
server.data.Review.Review (
            String comment,
            double rating )
```

6.12.2 Member Function Documentation

6.12.2.1 getBook()

```
Book server.data.Review.getBook ( )
```

6.12.2.2 getComment()

```
String server.data.Review.getComment ( )
```

6.12.2.3 getId_review()

```
int server.data.Review.getId_review ( )
```

6.12.2.4 getRating()

```
double server.data.Review.getRating ( )
```

6.12.2.5 getUser()

```
User server.data.Review.getUser ( )
```

6.12.2.6 setBook()

```
void server.data.Review.setBook (
            Book book )
```

6.12.2.7 setComment()

```
void server.data.Review.setComment (
            String comment )
```

6.12.2.8 setId_review()

```
void server.data.Review.setId_review (
            int id_review )
```

6.12.2.9 setRating()

```
void server.data.Review.setRating (
            double rating )
```

6.12.2.10 setUser()

```
void server.data.Review.setUser (
            User user )
```

6.12.2.11 toString()

```
String server.data.Review.toString ( )
```

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

- src/main/java/server/data/Review.java

6.13 server.RMITest Class Reference

Public Member Functions

- void setUpClient ()
- void registerNewUserTest ()
- void registerExistingUserTest ()
- void bookTestValidation ()
- void showBooksInStoreTest ()
- void showUsersTest ()
- void getThings ()
- void showUserFailTest () throws RemoteException

Static Public Member Functions

- static junit.framework.Test suite ()
- static void setUp ()
- static void tearDown ()

6.13.1 Detailed Description

RMI Unit test for Simple Client / Server RMI Testing. Testing the only the Remoteness

6.13.2 Member Function Documentation

6.13.2.1 bookTestValidation()

```
void server.RMITest.bookTestValidation ( )
```

6.13.2.2 getThings()

```
void server.RMITest.getThings ( )
```

6.13.2.3 registerExistingUserTest()

```
void server.RMITest.registerExistingUserTest ( )
```

6.13.2.4 registerNewUserTest()

```
void server.RMITest.registerNewUserTest ( )
```

6.13.2.5 setUp()

```
static void server.RMITest.setUp ( )  [static]
```

6.13.2.6 setUpClient()

```
void server.RMITest.setUpClient ( )
```

6.13.2.7 showBooksInStoreTest()

```
void server.RMITest.showBooksInStoreTest ( )
```

6.13.2.8 showUserFailTest()

```
void server.RMITest.showUserFailTest ( ) throws RemoteException
```

6.13.2.9 showUsersTest()

```
void server.RMITest.showUsersTest ( )
```

6.13.2.10 suite()

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

6.13.2.11 tearDown()

```
static void server.RMITest.tearDown ( )  [static]
```

public void deleteDatabase() { PersistenceManagerFactory pmf = JDOHelper.getPersistenceManager↩ Factory("datanucleus.properties"); PersistenceManager pm = pmf.getPersistenceManager(); Transaction tx = pm.currentTransaction(); try { tx.begin();

logger.info("Deleting test users from persistence. Cleaning up."); Query<User> q1 = pm.newQuery(User.↩ class); Query<Book> q2 = pm.newQuery(Book.class); Query<Review> q3 = pm.newQuery(Review.class); long numberInstancesDeleted1 = q1.deletePersistentAll(); long numberInstancesDeleted2 = q2.deletePersistentAll(); long numberInstancesDeleted3 = q3.deletePersistentAll();

```
    tx.commit();
}
finally
{
    if (tx.isActive())
    {
        tx.rollback();
    }
    pm.close();
}
```

}

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

- src/test/java/server/RMITest.java

6.14 server.Server Class Reference

Static Public Member Functions

- static void main (String[ ] args)

6.14.1 Member Function Documentation

6.14.1.1 main()

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

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

- src/main/java/server/Server.java

6.15 client.gui.ShowBooks Class Reference

Public Member Functions

- ShowBooks (String email, boolean role)

Static Public Member Functions

- static void main (String[ ] args)

6.15.1 Constructor & Destructor Documentation

6.15.1.1 ShowBooks()

```
client.gui.ShowBooks.ShowBooks (
            String email,
            boolean role )
```

Create the application.

6.15.2 Member Function Documentation

6.15.2.1 main()

```
static void client.gui.ShowBooks.main (
            String [] args )  [static]
```

Launch the application.

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

- src/main/java/client/gui/ShowBooks.java

6.16 client.gui.ShowDescription Class Reference

Public Member Functions

- ShowDescription (String title, String email, boolean role) throws RemoteException

6.16.1 Constructor & Destructor Documentation

6.16.1.1 ShowDescription()

```
client.gui.ShowDescription.ShowDescription (
            String title,
            String email,
            boolean role ) throws RemoteException
```

Launch the application. Create the application.

Parameters

user	
user	

Exceptions

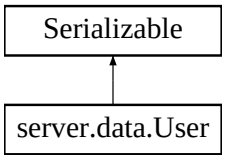
RemoteException	

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

- src/main/java/client/gui/ShowDescription.java

6.17 server.data.User Class Reference

Inheritance diagram for server.data.User:



Public Member Functions

- double getMoney ()
- void setMoney (double money)
- User (String email, String password, String name, String address, boolean role)
- User (String email, String password, boolean role)
- void addReview (Review review)
- void removeReview (Review review)
- List< Review > getReviews ()
- void addBook (Book book)
- void removeBook (Book book)
- List< Book > getBooks ()
- String getEmail ()
- void setEmail (String email)
- String getPassword ()
- void setPassword (String password)
- String getName ()
- void setName (String name)
- String getAddress ()
- void setAddress (String address)
- boolean getRole ()
- void setRole (boolean role)
- String toString ()

6.17.1 Constructor & Destructor Documentation

6.17.1.1 User() [1/2]

```
server.data.User.User (
            String email,
            String password,
            String name,
            String address,
            boolean role )
```

6.17.1.2 User() [2/2]

```
server.data.User.User (
            String email,
            String password,
            boolean role )
```

6.17.2 Member Function Documentation

6.17.2.1 addBook()

```
void server.data.User.addBook (
            Book book )
```

6.17.2.2 addReview()

```
void server.data.User.addReview (
            Review review )
```

6.17.2.3 getAddress()

```
String server.data.User.getAddress ( )
```

6.17.2.4 getBooks()

```
List<Book> server.data.User.getBooks ( )
```

6.17.2.5 getEmail()

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

6.17.2.6 getMoney()

```
double server.data.User.getMoney ( )
```

6.17.2.7 getName()

```
String server.data.User.getName ( )
```

6.17.2.8 getPassword()

```
String server.data.User.getPassword ( )
```

6.17.2.9 getReviews()

```
List<Review> server.data.User.getReviews ( )
```

6.17.2.10 getRole()

```
boolean server.data.User.getRole ( )
```

6.17.2.11 removeBook()

```
void server.data.User.removeBook (
            Book book )
```

6.17.2.12 removeReview()

```
void server.data.User.removeReview (
            Review review )
```

6.17.2.13 setAddress()

```
void server.data.User.setAddress (
            String address )
```

6.17.2.14 setEmail()

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

6.17.2.15 setMoney()

```
void server.data.User.setMoney (
            double money )
```

6.17.2.16 setName()

```
void server.data.User.setName (
            String name )
```

6.17.2.17 setPassword()

```
void server.data.User.setPassword (
            String password )
```

6.17.2.18 setRole()

```
void server.data.User.setRole (
            boolean role )
```

6.17.2.19 toString()

```
String server.data.User.toString ( )
```

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

- src/main/java/server/data/User.java

Chapter 7

File Documentation

7.1 src/main/java/client/Client.java File Reference

Classes

- class client.Client

Packages

- package client

7.2 src/main/java/client/gui/LogIn.java File Reference

Classes

- class client.gui.LogIn

Packages

- package client.gui

7.3 src/main/java/client/gui/ShowBooks.java File Reference

Classes

- class client.gui.ShowBooks
- class **client.gui.BookTableModel**

Packages

- package client.gui

7.4 src/main/java/client/gui/ShowDescription.java File Reference

Classes

- class client.gui.ShowDescription
- class **client.gui.ReviewTableModel**

Packages

- package client.gui

7.5 src/main/java/db/DAO.java File Reference

Classes

- class db.DAO

Packages

- package db

7.6 src/main/java/db/DB.java File Reference

Classes

- class db.DB

Packages

- package db

7.7 src/main/java/db/IDAO.java File Reference

Classes

- interface db.IDAO

Packages

- package db

7.8 src/main/java/db/IDB.java File Reference

Classes

- interface db.IDB

Packages

- package db

7.9 src/main/java/server/data/Book.java File Reference

Classes

- class server.data.Book

Packages

- package server.data

7.10 src/main/java/server/data/Review.java File Reference

Classes

- class server.data.Review

Packages

- package server.data

7.11 src/main/java/server/data/User.java File Reference

Classes

- class server.data.User

Packages

- package server.data

7.12 src/main/java/server/remote/IRemote.java File Reference

Classes

- interface server.remote.IRemote

Packages

- package server.remote

7.13 src/main/java/server/remote/Remote.java File Reference

Classes

- class server.remote.Remote

Packages

- package server.remote

7.14 src/main/java/server/Server.java File Reference

Classes

- class server.Server

Packages

- package server

7.15 src/test/java/server/ContiPerfTest.java File Reference

Classes

- class server.ContiPerfTest

Packages

- package server

7.16 src/test/java/server/DAOMockTest.java File Reference

Classes

- class server.DAOMockTest

Packages

- package server

7.17 src/test/java/server/RMITest.java File Reference

Classes

- class server.RMITest

Packages

- package server

Index

addBook
    server::data::User, 53
    server::remote::IRemote, 35, 36
    server::remote::Remote, 41
addBookToDb
    db::DB, 25
    db::IDB, 32
addReview
    db::DB, 25
    db::IDB, 32
    server::data::Book, 12
    server::data::User, 53
    server::remote::IRemote, 36
    server::remote::Remote, 41
addUser
    server::data::Book, 12
averageRatingByBook
    db::DB, 25
    db::IDB, 32
    server::remote::IRemote, 36
    server::remote::Remote, 41
averageRatingByUser
    db::DB, 25
    db::IDB, 32
    server::remote::IRemote, 36
    server::remote::Remote, 42

Book
    server::data::Book, 12
bookTest
    server::remote::IRemote, 36
    server::remote::Remote, 42
bookTestValidation
    server::RMITest, 48
buyBook
    client::Client, 16
    db::DB, 26
    db::IDB, 32
    server::remote::IRemote, 37
    server::remote::Remote, 42

client, 9
client.Client, 15
client.gui, 9
client.gui.LogIn, 39
client.gui.ShowBooks, 50
client.gui.ShowDescription, 51
client::Client
    buyBook, 16
    displayMenu, 16
    displaySubMenu, 16
    logIn, 16
    main, 16
    mainMenu, 16
    menuBook, 16
    menuReviews, 17
    menuSearch, 17
    menuShowBooks, 17
    searchISBN, 17
    searchTitle, 17
    showBook, 17
    showBooks, 17
    signUp, 18
client::gui::LogIn
    LogIn, 39
    main, 39
client::gui::ShowBooks
    main, 50
    ShowBooks, 50
client::gui::ShowDescription
    ShowDescription, 51

DAO
    db::DAO, 20
DB
    db::DB, 25
db, 9
db.DAO, 20
db.DB, 24
db.IDAO, 28
db.IDB, 31
db::DAO
    DAO, 20
    deleteBook, 20
    deleteReview, 20
    getAllBooks, 21
    getAllReviews, 21
    getAllUsers, 21
    retrieveBook, 21
    retrieveBookByParameter, 21
    retrieveReview, 21
    retrieveUser, 22
    storeBook, 22
    storeUser, 22
    updateBook, 22
    updateReview, 22
    updateUser, 22
db::DB
    addBookToDb, 25
    addReview, 25

averageRatingByBook, 25
averageRatingByUser, 25
buyBook, 26
DB, 25
deleteBook, 26
deleteReview, 26
getAllBooks, 26
getAllReviews, 26
getAllUsers, 26
getBookReviews, 27
getUserReviews, 27
registerUser, 27
showBookByISBN, 27
showBookByTitle, 27
showReview, 28
showUser, 28
db::IDAO
deleteBook, 29
deleteReview, 29
getAllBooks, 29
getAllReviews, 29
getAllUsers, 29
retrieveBook, 29
retrieveBookByParameter, 30
retrieveReview, 30
retrieveUser, 30
storeBook, 30
storeUser, 30
updateBook, 30
updateReview, 31
updateUser, 31
db::IDB
addBookToDb, 32
addReview, 32
averageRatingByBook, 32
averageRatingByUser, 32
buyBook, 32
deleteBook, 32
deleteReview, 33
getAllBooks, 33
getAllReviews, 33
getAllUsers, 33
getBookReviews, 33
getUserReviews, 33
registerUser, 34
showBookByISBN, 34
showBookByTitle, 34
showReview, 34
showUser, 34
deleteBook
db::DAO, 20
db::DB, 26
db::IDAO, 29
db::IDB, 32
server::remote::IRemote, 37
server::remote::Remote, 42
deleteReview
db::DAO, 20
db::DB, 26
db::IDAO, 29
db::IDB, 33
server::remote::IRemote, 37
server::remote::Remote, 42
displayMenu
client::Client, 16
displaySubMenu
client::Client, 16

getAddress
server::data::User, 53
getAllBooks
db::DAO, 21
db::DB, 26
db::IDAO, 29
db::IDB, 33
getAllReviews
db::DAO, 21
db::DB, 26
db::IDAO, 29
db::IDB, 33
server::remote::IRemote, 37
server::remote::Remote, 42
getAllUsers
db::DAO, 21
db::DB, 26
db::IDAO, 29
db::IDB, 33
server::remote::IRemote, 37
server::remote::Remote, 43
getAuthor
server::data::Book, 12
getBook
server::data::Review, 45
getBookByISBN
server::remote::IRemote, 37
server::remote::Remote, 43
getBookByTitle
server::remote::IRemote, 38
server::remote::Remote, 43
getBookReviews
db::DB, 27
db::IDB, 33
server::remote::IRemote, 38
server::remote::Remote, 43
getBooks
server::data::User, 53
getCategory
server::data::Book, 12
getComment
server::data::Review, 46
getDescription
server::data::Book, 13
getEdition
server::data::Book, 13
getEmail
server::data::User, 53
getISBN

server::data::Book, 13
getId_review
server::data::Review, 46
getImg
server::data::Book, 13
getMoney
server::data::User, 53
getName
server::data::User, 53
getPassword
server::data::User, 53
getPrice
server::data::Book, 13
getRating
server::data::Review, 46
getReview
server::remote::IRemote, 38
server::remote::Remote, 43
getReviews
server::data::Book, 13
server::data::User, 54
getRole
server::data::User, 54
getThings
server::RMITest, 48
getTitle
server::data::Book, 13
getUser
server::data::Review, 46
server::remote::IRemote, 38
server::remote::Remote, 43
getUserReviews
db::DB, 27
db::IDB, 33
server::remote::IRemote, 38
server::remote::Remote, 44
getUsers
server::data::Book, 13

LogIn
client::gui::LogIn, 39
logIn
client::Client, 16

main
client::Client, 16
client::gui::LogIn, 39
client::gui::ShowBooks, 50
server::Server, 50
mainMenu
client::Client, 16
menuBook
client::Client, 16
menuReviews
client::Client, 17
menuSearch
client::Client, 17
menuShowBooks
client::Client, 17

registerExistingUserTest
server::RMITest, 48
registerNewUserTest
server::ContiPerfTest, 18
server::RMITest, 48
registerUser
db::DB, 27
db::IDB, 34
server::remote::IRemote, 38
server::remote::Remote, 44
Remote
server::remote::Remote, 40
removeBook
server::data::User, 54
removeReview
server::data::Book, 14
server::data::User, 54
removeUser
server::data::Book, 14
retrieveBook
db::DAO, 21
db::IDAO, 29
retrieveBookByParameter
db::DAO, 21
db::IDAO, 30
retrieveReview
db::DAO, 21
db::IDAO, 30
retrieveUser
db::DAO, 22
db::IDAO, 30
Review
server::data::Review, 45
rule
server::ContiPerfTest, 19

searchISBN
client::Client, 17
searchTitle
client::Client, 17
server, 10
server.ContiPerfTest, 18
server.DAOMockTest, 23
server.data, 10
server.data.Book, 11
server.data.Review, 44
server.data.User, 51
server.RMITest, 47
server.remote, 10
server.remote.IRemote, 35
server.remote.Remote, 40
server.Server, 50
server::ContiPerfTest
registerNewUserTest, 18
rule, 19
showBookThreads, 18
showBookThreads2, 19
storeBook, 19
storeBookDuration, 19

suite, 19
server::DAOMockTest
setUp, 23
suite, 23
testAddBookInvalidRemote, 23
testAddBookValid, 23
testRegisterUserAlreadyExists, 24
testRegisterUserCorrectly, 24
server::RMITest
bookTestValidation, 48
getThings, 48
registerExistingUserTest, 48
registerNewUserTest, 48
setUp, 48
setUpClient, 48
showBooksInStoreTest, 48
showUserFailTest, 49
showUsersTest, 49
suite, 49
tearDown, 49
server::Server
main, 50
server::data::Book
addReview, 12
addUser, 12
Book, 12
getAuthor, 12
getCategory, 12
getDescription, 13
getEdition, 13
getISBN, 13
getImg, 13
getPrice, 13
getReviews, 13
getTitle, 13
getUsers, 13
removeReview, 14
removeUser, 14
setAuthor, 14
setCategory, 14
setDescription, 14
setEdition, 14
setISBN, 15
setImg, 14
setPrice, 15
setTitle, 15
toString, 15
server::data::Review
getBook, 45
getComment, 46
getId_review, 46
getRating, 46
getUser, 46
Review, 45
setBook, 46
setComment, 46
setId_review, 46
setRating, 47
setUser, 47
toString, 47
server::data::User
addBook, 53
addReview, 53
getAddress, 53
getBooks, 53
getEmail, 53
getMoney, 53
getName, 53
getPassword, 53
getReviews, 54
getRole, 54
removeBook, 54
removeReview, 54
setAddress, 54
setEmail, 54
setMoney, 54
setName, 55
setPassword, 55
setRole, 55
toString, 55
User, 52
server::remote::IRemote
addBook, 35, 36
addReview, 36
averageRatingByBook, 36
averageRatingByUser, 36
bookTest, 36
buyBook, 37
deleteBook, 37
deleteReview, 37
getAllReviews, 37
getAllUsers, 37
getBookByISBN, 37
getBookByTitle, 38
getBookReviews, 38
getReview, 38
getUser, 38
getUserReviews, 38
registerUser, 38
showBooksInStore, 39
server::remote::Remote
addBook, 41
addReview, 41
averageRatingByBook, 41
averageRatingByUser, 42
bookTest, 42
buyBook, 42
deleteBook, 42
deleteReview, 42
getAllReviews, 42
getAllUsers, 43
getBookByISBN, 43
getBookByTitle, 43
getBookReviews, 43
getReview, 43
getUser, 43

getUserReviews, 44
registerUser, 44
Remote, 40
showBooksInStore, 44
setAddress
server::data::User, 54
setAuthor
server::data::Book, 14
setBook
server::data::Review, 46
setCategory
server::data::Book, 14
setComment
server::data::Review, 46
setDescription
server::data::Book, 14
setEdition
server::data::Book, 14
setEmail
server::data::User, 54
setISBN
server::data::Book, 15
setId_review
server::data::Review, 46
setImg
server::data::Book, 14
setMoney
server::data::User, 54
setName
server::data::User, 55
setPassword
server::data::User, 55
setPrice
server::data::Book, 15
setRating
server::data::Review, 47
setRole
server::data::User, 55
setTitle
server::data::Book, 15
setUp
server::DAOMockTest, 23
server::RMITest, 48
setUpClient
server::RMITest, 48
setUser
server::data::Review, 47
showBook
client::Client, 17
showBookByISBN
db::DB, 27
db::IDB, 34
showBookByTitle
db::DB, 27
db::IDB, 34
showBookThreads
server::ContiPerfTest, 18
showBookThreads2
server::ContiPerfTest, 19
ShowBooks
client::gui::ShowBooks, 50
showBooks
client::Client, 17
showBooksInStore
server::remote::IRemote, 39
server::remote::Remote, 44
showBooksInStoreTest
server::RMITest, 48
ShowDescription
client::gui::ShowDescription, 51
showReview
db::DB, 28
db::IDB, 34
showUser
db::DB, 28
db::IDB, 34
showUserFailTest
server::RMITest, 49
showUsersTest
server::RMITest, 49
signUp
client::Client, 18
src/main/java/client/Client.java, 57
src/main/java/client/gui/LogIn.java, 57
src/main/java/client/gui/ShowBooks.java, 57
src/main/java/client/gui/ShowDescription.java, 58
src/main/java/db/DAO.java, 58
src/main/java/db/DB.java, 58
src/main/java/db/IDAO.java, 58
src/main/java/db/IDB.java, 59
src/main/java/server/Server.java, 60
src/main/java/server/data/Book.java, 59
src/main/java/server/data/Review.java, 59
src/main/java/server/data/User.java, 59
src/main/java/server/remote/IRemote.java, 60
src/main/java/server/remote/Remote.java, 60
src/test/java/server/ContiPerfTest.java, 60
src/test/java/server/DAOMockTest.java, 61
src/test/java/server/RMITest.java, 61
storeBook
db::DAO, 22
db::IDAO, 30
server::ContiPerfTest, 19
storeBookDuration
server::ContiPerfTest, 19
storeUser
db::DAO, 22
db::IDAO, 30
suite
server::ContiPerfTest, 19
server::DAOMockTest, 23
server::RMITest, 49

tearDown
server::RMITest, 49
testAddBookInvalidRemote
server::DAOMockTest, 23

testAddBookValid
server::DAOMockTest, 23
testRegisterUserAlreadyExists
server::DAOMockTest, 24
testRegisterUserCorrectly
server::DAOMockTest, 24
toString
server::data::Book, 15
server::data::Review, 47
server::data::User, 55

updateBook
db::DAO, 22
db::IDAO, 30
updateReview
db::DAO, 22
db::IDAO, 31
updateUser
db::DAO, 22
db::IDAO, 31
User
server::data::User, 52