

Bookshop

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Chapter 1

Namespace Index

1.1 Packages

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

client	9
db	9
server	9
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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
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db.DB	24
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UnicastRemoteObject	
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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
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server.data.Review	41
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Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

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src/main/java/db/ DAO.java	51
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src/main/java/server/ Server.java	53
src/main/java/server/data/ Book.java	52
src/main/java/server/data/ Review.java	52
src/main/java/server/data/ User.java	53
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Chapter 5

Namespace Documentation

5.1 Package client

Classes

- class [Client](#)

5.2 Package db

Classes

- class [DAO](#)
- class [DB](#)
- interface [IDAO](#)
- interface [IDB](#)

5.3 Package server

Packages

- package [data](#)
- package [remote](#)

Classes

- class [ContiPerfTest](#)
- class [DAOMockTest](#)
- class [RMITest](#)
- class [Server](#)

5.4 Package server.data

Classes

- class [Book](#)
- class [Review](#)
- class [User](#)

5.5 Package server.remote

Classes

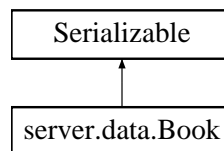
- interface [IRemote](#)
- class [Remote](#)

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

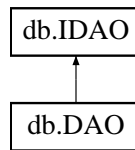
```
ContiPerfRule server.ContiPerfTest.rule = new ContiPerfRule()
```

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](#) ()

6.4.1 Constructor & Destructor Documentation

6.4.1.1 DAO()

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

6.4.2 Member Function Documentation

6.4.2.1 getAllBooks()

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

Implements [db.IDAO](#).

6.4.2.2 getAllReviews()

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

Implements [db.IDAO](#).

6.4.2.3 getAllUsers()

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

Implements [db.IDAO](#).

6.4.2.4 retrieveBook()

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

Implements [db.IDAO](#).

6.4.2.5 retrieveBookByParameter()

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

Implements [db.IDAO](#).

6.4.2.6 retrieveReview()

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

Implements [db.IDAO](#).

6.4.2.7 retrieveUser()

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

Implements [db.IDAO](#).

6.4.2.8 storeBook()

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

Implements [db.IDAO](#).

6.4.2.9 storeUser()

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

Implements [db.IDAO](#).

6.4.2.10 updateBook()

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

Implements [db.IDAO](#).

6.4.2.11 updateReview()

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

Implements [db.IDAO](#).

6.4.2.12 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()

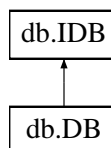
```
void server.DAOMockTest.testRegisterUserCorrectly ( )
```

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)

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 getAllBooks()

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

Implements [db.IDB](#).

6.6.2.7 getAllReviews()

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

Implements [db.IDB](#).

6.6.2.8 getAllUsers()

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

Implements [db.IDB](#).

6.6.2.9 getBookReviews()

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

Implements [db.IDB](#).

6.6.2.10 `getUserReviews()`

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

Implements [db.IDB](#).

6.6.2.11 `registerUser()` [1/2]

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

Implements [db.IDB](#).

6.6.2.12 `registerUser()` [2/2]

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

6.6.2.13 `showBookByISBN()`

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

Implements [db.IDB](#).

6.6.2.14 `showBookByTitle()`

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

Implements [db.IDB](#).

6.6.2.15 `showReview()`

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

Implements [db.IDB](#).

6.6.2.16 showUser()

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

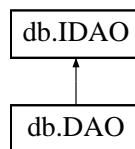
Implements [db.IDB](#).

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](#) ()

6.7.1 Member Function Documentation

6.7.1.1 getAllBooks()

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

Implemented in [db.DAO](#).

6.7.1.2 getAllReviews()

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

Implemented in [db.DAO](#).

6.7.1.3 getAllUsers()

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

Implemented in [db.DAO](#).

6.7.1.4 retrieveBook()

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

Implemented in [db.DAO](#).

6.7.1.5 retrieveBookByParameter()

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

Implemented in [db.DAO](#).

6.7.1.6 retrieveReview()

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

Implemented in [db.DAO](#).

6.7.1.7 retrieveUser()

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

Implemented in [db.DAO](#).

6.7.1.8 storeBook()

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

Implemented in [db.DAO](#).

6.7.1.9 storeUser()

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

Implemented in [db.DAO](#).

6.7.1.10 updateBook()

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

Implemented in [db.DAO](#).

6.7.1.11 updateReview()

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

Implemented in [db.DAO](#).

6.7.1.12 updateUser()

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

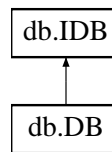
Implemented in [db.DAO](#).

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)

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 getAllBooks()

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

Implemented in [db.DB](#).

6.8.1.7 getAllReviews()

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

Implemented in [db.DB](#).

6.8.1.8 getAllUsers()

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

Implemented in [db.DB](#).

6.8.1.9 getBookReviews()

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

Implemented in [db.DB](#).

6.8.1.10 getUserReviews()

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

Implemented in [db.DB](#).

6.8.1.11 registerUser()

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

Implemented in [db.DB](#).

6.8.1.12 showBookByISBN()

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

Implemented in [db.DB](#).

6.8.1.13 showBookByTitle()

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

Implemented in [db.DB](#).

6.8.1.14 showReview()

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

Implemented in [db.DB](#).

6.8.1.15 showUser()

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

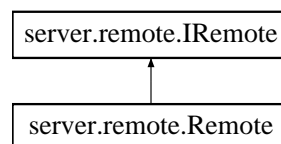
Implemented in [db.DB](#).

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

6.9.1 Member Function Documentation

6.9.1.1 addBook()

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

Implemented in [server.remote.Remote](#).

6.9.1.2 addReview()

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

Implemented in [server.remote.Remote](#).

6.9.1.3 averageRatingByBook()

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

Implemented in [server.remote.Remote](#).

6.9.1.4 averageRatingByUser()

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

Implemented in [server.remote.Remote](#).

6.9.1.5 bookTest()

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

Implemented in [server.remote.Remote](#).

6.9.1.6 buyBook()

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

Implemented in [server.remote.Remote](#).

6.9.1.7 getAllReviews()

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

Implemented in [server.remote.Remote](#).

6.9.1.8 getAllUsers()

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

Implemented in [server.remote.Remote](#).

6.9.1.9 getBookByISBN()

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

Implemented in [server.remote.Remote](#).

6.9.1.10 getBookByTitle()

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

Implemented in [server.remote.Remote](#).

6.9.1.11 getBookReviews()

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

Implemented in [server.remote.Remote](#).

6.9.1.12 `getReview()`

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

Implemented in [server.remote.Remote](#).

6.9.1.13 `getUser()`

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

Implemented in [server.remote.Remote](#).

6.9.1.14 `getUserReviews()`

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

Implemented in [server.remote.Remote](#).

6.9.1.15 `registerUser()`

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

Implemented in [server.remote.Remote](#).

6.9.1.16 `showBooksInStore()`

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

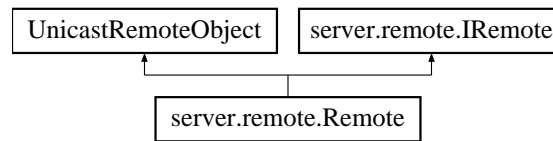
Implemented in [server.remote.Remote](#).

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

- [src/main/java/server/remote/IRemote.java](#)

6.10 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)

6.10.1 Constructor & Destructor Documentation

6.10.1.1 Remote()

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

6.10.2 Member Function Documentation

6.10.2.1 addBook()

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

Implements [server.remote.IRemote](#).

6.10.2.2 addReview()

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

Implements [server.remote.IRemote](#).

6.10.2.3 averageRatingByBook()

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

Implements [server.remote.IRemote](#).

6.10.2.4 averageRatingByUser()

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

Implements [server.remote.IRemote](#).

6.10.2.5 bookTest()

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

Implements [server.remote.IRemote](#).

6.10.2.6 buyBook()

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

Implements [server.remote.IRemote](#).

6.10.2.7 getAllReviews()

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

Implements [server.remote.IRemote](#).

6.10.2.8 getAllUsers()

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

Implements [server.remote.IRemote](#).

6.10.2.9 getBookByISBN()

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

Implements [server.remote.IRemote](#).

6.10.2.10 getBookByTitle()

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

Implements [server.remote.IRemote](#).

6.10.2.11 getBookReviews()

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

Implements [server.remote.IRemote](#).

6.10.2.12 getReview()

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

Implements [server.remote.IRemote](#).

6.10.2.13 getUser()

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

Implements [server.remote.IRemote](#).

6.10.2.14 getUserReviews()

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

Implements [server.remote.IRemote](#).

6.10.2.15 registerUser()

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

Implements [server.remote.IRemote](#).

6.10.2.16 showBooksInStore()

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

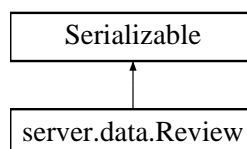
Implements [server.remote.IRemote](#).

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

- [src/main/java/server/remote/Remote.java](#)

6.11 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)

6.11.1 Constructor & Destructor Documentation

6.11.1.1 [Review\(\)](#) [1/3]

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

6.11.1.2 [Review\(\)](#) [2/3]

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

6.11.1.3 [Review\(\)](#) [3/3]

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

6.11.2 Member Function Documentation

6.11.2.1 getBook()

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

6.11.2.2 getComment()

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

6.11.2.3 getId_review()

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

6.11.2.4 getRating()

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

6.11.2.5 getUser()

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

6.11.2.6 setBook()

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

6.11.2.7 setComment()

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

6.11.2.8 setId_review()

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

6.11.2.9 setRating()

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

6.11.2.10 setUser()

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

6.11.2.11 toString()

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

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

- [src/main/java/server/data/Review.java](#)

6.12 server.RMTest 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](#) ()

6.12.1 Detailed Description

RMI Unit test for Simple Client / [Server](#) RMI Testing. Testing the only the Remoteness

6.12.2 Member Function Documentation

6.12.2.1 bookTestValidation()

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

6.12.2.2 getThings()

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

6.12.2.3 registerExistingUserTest()

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

6.12.2.4 registerNewUserTest()

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

6.12.2.5 setUp()

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

6.12.2.6 setUpClient()

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

6.12.2.7 showBooksInStoreTest()

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

6.12.2.8 showUserFailTest()

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

6.12.2.9 showUsersTest()

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

6.12.2.10 suite()

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

6.12.2.11 tearDown()

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

```
public void deleteDatabase() { PersistenceManagerFactory pmf = JDOHelper.getPersistenceManagerFactory("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](#)

6.13 server.Server Class Reference

Static Public Member Functions

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

6.13.1 Member Function Documentation

6.13.1.1 main()

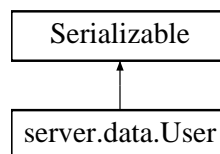
```
static void server.Server.main (
    String [] args ) [static]
```

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

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

6.14 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](#) ()

6.14.1 Constructor & Destructor Documentation

6.14.1.1 User() [1/2]

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

6.14.1.2 User() [2/2]

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

6.14.2 Member Function Documentation

6.14.2.1 addBook()

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

6.14.2.2 addReview()

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

6.14.2.3 getAddress()

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

6.14.2.4 getBooks()

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

6.14.2.5 getEmail()

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

6.14.2.6 getMoney()

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

6.14.2.7 getName()

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

6.14.2.8 getPassword()

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

6.14.2.9 getReviews()

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

6.14.2.10 getRole()

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

6.14.2.11 removeBook()

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

6.14.2.12 removeReview()

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

6.14.2.13 setAddress()

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

6.14.2.14 setEmail()

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

6.14.2.15 setMoney()

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

6.14.2.16 setName()

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

6.14.2.17 setPassword()

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

6.14.2.18 setRole()

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

6.14.2.19 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/db/DAO.java File Reference

Classes

- class [db.DAO](#)

Packages

- package [db](#)

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

Classes

- class [db.DB](#)

Packages

- package [db](#)

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

Classes

- interface [db.IDAO](#)

Packages

- package [db](#)

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

Classes

- interface [db.IDB](#)

Packages

- package [db](#)

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

Classes

- class [server.data.Book](#)

Packages

- package [server.data](#)

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

Classes

- class [server.data.Review](#)

Packages

- package [server.data](#)

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

Classes

- class [server.data.User](#)

Packages

- package [server.data](#)

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

Classes

- interface [server.remote.IRemote](#)

Packages

- package [server.remote](#)

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

Classes

- class [server.remote.Remote](#)

Packages

- package [server.remote](#)

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

Classes

- class [server.Server](#)

Packages

- package [server](#)

7.12 `src/test/java/server/ContiPerfTest.java` File Reference

Classes

- class [server.ContiPerfTest](#)

Packages

- package [server](#)

7.13 `src/test/java/server/DAOMockTest.java` File Reference

Classes

- class [server.DAOMockTest](#)

Packages

- package [server](#)

7.14 `src/test/java/server/RMTest.java` File Reference

Classes

- class [server.RMTest](#)

Packages

- package [server](#)

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