

Coursework

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7.16 src/main/java/com/mycompany/coursework/UpdateUserController.java File Reference	47
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7.18 src/main/java/com/mycompany/coursework/User.java File Reference	47
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7.21 src/main/java/com/mycompany/coursework/ViewLogsController.java File Reference	48
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Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

com	9
com.mycompany	9
com.mycompany.coursework	9

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

com.mycompany.coursework.CopyFileController	12
com.mycompany.coursework.CreateFileController	13
com.mycompany.coursework.DbConnection	14
com.mycompany.coursework.DeleteFileController	21
com.mycompany.coursework.DownloadFileController	22
com.mycompany.coursework.FileManagement	23
com.mycompany.coursework.MoveFileController	29
com.mycompany.coursework.PrimaryController	29
com.mycompany.coursework.RegisterController	29
com.mycompany.coursework.RenameFileController	30
com.mycompany.coursework.RestoreFileController	30
com.mycompany.coursework.SecondaryController	31
com.mycompany.coursework.UserManagement.SessionManager	31
com.mycompany.coursework.ShareFileController	32
com.mycompany.coursework.UpdateUserController	33
com.mycompany.coursework.UploadFilesController	33
com.mycompany.coursework.User	34
com.mycompany.coursework.UserListController	36
com.mycompany.coursework.UserManagement	37
com.mycompany.coursework.ViewLogsController	41
Application	
com.mycompany.coursework.App	11

Chapter 3

Class Index

3.1 Class List

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

com.mycompany.coursework.App	
JavaFX App (p. 11)	11
com.mycompany.coursework.CopyFileController	12
com.mycompany.coursework.CreateFileController	13
com.mycompany.coursework.DbConnection	14
com.mycompany.coursework.DeleteFileController	21
com.mycompany.coursework.DownloadFileController	22
com.mycompany.coursework.FileManagement	23
com.mycompany.coursework.MoveFileController	29
com.mycompany.coursework.PrimaryController	29
com.mycompany.coursework.RegisterController	
FXML Controller class	29
com.mycompany.coursework.RenameFileController	30
com.mycompany.coursework.RestoreFileController	30
com.mycompany.coursework.SecondaryController	31
com.mycompany.coursework.UserManagement.SessionManager	
Session manager for login, logout and isLoggedIn Login adds session to the map of active sessions, logout removes and isLoggedIn checks	31
com.mycompany.coursework.ShareFileController	32
com.mycompany.coursework.UpdateUserController	33
com.mycompany.coursework.UploadFilesController	33
com.mycompany.coursework.User	34
com.mycompany.coursework.UserListController	36
com.mycompany.coursework.UserManagement	37
com.mycompany.coursework.ViewLogsController	41

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

src/main/java/com/mycompany/coursework/ App.java	43
src/main/java/com/mycompany/coursework/ CopyFileController.java	43
src/main/java/com/mycompany/coursework/ CreateFileController.java	43
src/main/java/com/mycompany/coursework/ DbConnection.java	44
src/main/java/com/mycompany/coursework/ DeleteFileController.java	44
src/main/java/com/mycompany/coursework/ DownloadFileController.java	44
src/main/java/com/mycompany/coursework/ FileManagement.java	44
src/main/java/com/mycompany/coursework/ MoveFileController.java	45
src/main/java/com/mycompany/coursework/ PrimaryController.java	45
src/main/java/com/mycompany/coursework/ RegisterController.java	45
src/main/java/com/mycompany/coursework/ RenameFileController.java	46
src/main/java/com/mycompany/coursework/ RestoreFileController.java	46
src/main/java/com/mycompany/coursework/ SecondaryController.java	46
src/main/java/com/mycompany/coursework/ ShareFileController.java	46
src/main/java/com/mycompany/coursework/ Test.java	47
src/main/java/com/mycompany/coursework/ UpdateUserController.java	47
src/main/java/com/mycompany/coursework/ UploadFilesController.java	47
src/main/java/com/mycompany/coursework/ User.java	47
src/main/java/com/mycompany/coursework/ UserListController.java	48
src/main/java/com/mycompany/coursework/ UserManagement.java	48
src/main/java/com/mycompany/coursework/ ViewLogsController.java	48

Chapter 5

Namespace Documentation

5.1 Package com

Packages

- package **mycompany**

5.2 Package com.mycompany

Packages

- package **coursework**

5.3 Package com.mycompany.coursework

Classes

- class **App**
*JavaFX **App** (p. 11).*
- class **CopyFileController**
- class **CreateFileController**
- class **DbConnection**
- class **DeleteFileController**
- class **DownloadFileController**
- class **FileManagement**
- class **MoveFileController**
- class **PrimaryController**
- class **RegisterController**
FXML Controller class.
- class **RenameFileController**
- class **RestoreFileController**
- class **SecondaryController**
- class **ShareFileController**
- class **UpdateUserController**
- class **UploadFilesController**
- class **User**
- class **UserListController**
- class **UserManagement**
- class **ViewLogsController**

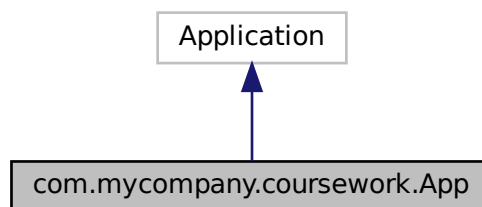
Chapter 6

Class Documentation

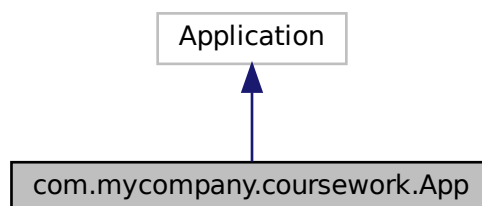
6.1 com.mycompany.coursework.App Class Reference

JavaFX **App** (p. 11).

Inheritance diagram for com.mycompany.coursework.App:



Collaboration diagram for com.mycompany.coursework.App:



Public Member Functions

- void **start** (Stage stage) throws IOException

Static Public Member Functions

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

6.1.1 Detailed Description

JavaFX **App** (p. 11).

6.1.2 Member Function Documentation

6.1.2.1 main()

```
static void com.mycompany.coursework.App.main (  
    String[] args ) [inline], [static]
```

6.1.2.2 start()

```
void com.mycompany.coursework.App.start (  
    Stage stage ) throws IOException [inline]
```

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

- src/main/java/com/mycompany/coursework/ **App.java**

6.2 com.mycompany.coursework.CopyFileController Class Reference

Public Member Functions

- void **initialise** (**User** userdata) throws SQLException, ClassNotFoundException
initialize data into controller

6.2.1 Member Function Documentation

6.2.1.1 initialise()

```
void com.mycompany.coursework.CopyFileController.initialise (  
    User userdata ) throws SQLException, ClassNotFoundException [inline]
```

initialize data into controller

Parameters

<i>userdata</i>	
-----------------	--

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

- src/main/java/com/mycompany/coursework/ **CopyFileController.java**

6.3 com.mycompany.coursework.CreateFileController Class Reference

Public Member Functions

- void **initialise** (**User** userdata)
initialize data into controller

6.3.1 Member Function Documentation

6.3.1.1 initialise()

```
void com.mycompany.coursework.CreateFileController.initialise (  
    User userdata ) [inline]
```

initialize data into controller

Parameters

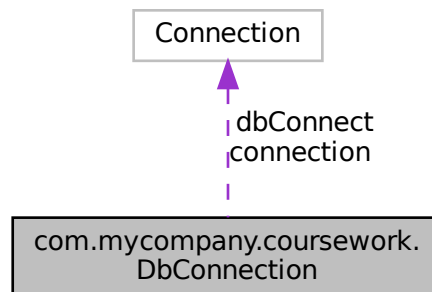
<i>userdata</i>	
-----------------	--

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

- src/main/java/com/mycompany/coursework/ **CreateFileController.java**

6.4 com.mycompany.coursework.DbConnection Class Reference

Collaboration diagram for com.mycompany.coursework.DbConnection:



Public Member Functions

- String **generateSecurePassword** (String password) throws InvalidKeySpecException
- void **log** (String message)
- ObservableList< **User** > **getDataFromTable** () throws ClassNotFoundException
delete table
- ObservableList< **User** > **getErrorsFromTable** () throws ClassNotFoundException
- **User initializeUser** (ResultSet rs) throws ClassNotFoundException
initialize user
- **User validateUser** (String username, String password) throws InvalidKeySpecException, ClassNotFoundException
decode password method to validate user
- Boolean **checkEmailExists** (String email) throws InvalidKeySpecException, ClassNotFoundException
check if an email is in use
- Boolean **checkUserExists** (String username) throws InvalidKeySpecException, ClassNotFoundException
check if a username is in use
- Boolean **createUser** (String username, String password, String firstname, String lastname, String email, Integer isAdmin) throws InvalidKeySpecException, ClassNotFoundException
create a new user
- Boolean **updateUser** (String username, String password, String firstname, String lastname, String email) throws InvalidKeySpecException, ClassNotFoundException
update a user
- **User loginUser** (**User** user) throws ClassNotFoundException
mark a user as logged In
- **User logoutUser** (**User** user) throws ClassNotFoundException
mark a user as logged out
- **User makeUserAdmin** (**User** user) throws ClassNotFoundException
mark a user as an admin
- **User removeUserAdmin** (**User** user) throws ClassNotFoundException
mark admin user as non-admin
- void **logger** (String username, String classname, String function, String level, String container_index, Exception e) throws ClassNotFoundException
- String **getTableName** ()
get table name

Static Public Member Functions

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

6.4.1 Detailed Description

Author

ntu-user N1076622

6.4.2 Member Function Documentation

6.4.2.1 checkEmailExists()

```
Boolean com.mycompany.coursework.DbConnection.checkEmailExists (  
    String email ) throws InvalidKeySpecException, ClassNotFoundException [inline]
```

check if an email is in use

Parameters

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

Returns

Exceptions

<i>InvalidKeySpecException</i>	
<i>ClassNotFoundException</i>	

6.4.2.2 checkUserExists()

```
Boolean com.mycompany.coursework.DbConnection.checkUserExists (  
    String username ) throws InvalidKeySpecException, ClassNotFoundException [inline]
```

check if a username is in use

Parameters

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

Returns

Exceptions

<i>InvalidKeySpecException</i>	
<i>ClassNotFoundException</i>	

6.4.2.3 createUser()

```
Boolean com.mycompany.coursework.DbConnection.createUser (
    String username,
    String password,
    String firstname,
    String lastname,
    String email,
    Integer isAdmin ) throws InvalidKeySpecException, ClassNotFoundException [inline]
```

create a new user

Parameters

<i>username</i>	
<i>password</i>	
<i>firstname</i>	
<i>lastname</i>	
<i>email</i>	
<i>isAdmin</i>	

Returns

Exceptions

<i>InvalidKeySpecException</i>	
<i>ClassNotFoundException</i>	

6.4.2.4 generateSecurePassword()

```
String com.mycompany.coursework.DbConnection.generateSecurePassword (
    String password ) throws InvalidKeySpecException [inline]
```

6.4.2.5 getDataFromTable()

```
ObservableList< User> com.mycompany.coursework.DbConnection.getDataFromTable ( ) throws ClassNotFoundException [inline]
```

delete table

Parameters

<i>tableName</i>	of type String
------------------	----------------

add data to the database method

Parameters

<i>user</i>	name of type String
<i>password</i>	of type String

get data from the Database method

Exceptions

<i>ClassNotFoundException</i>	
-------------------------------	--

Returns

ResultSet

6.4.2.6 getErrorsFromTable()

```
ObservableList< User> com.mycompany.coursework.DbConnection.getErrorsFromTable ( ) throws ClassNotFoundException [inline]
```

6.4.2.7 getTableName()

```
String com.mycompany.coursework.DbConnection.getTableName ( ) [inline]
```

get table name

Returns

table name as String

6.4.2.8 initializeUser()

```
User com.mycompany.coursework.DbConnection.initializeUser (
    ResultSet rs ) throws ClassNotFoundException [inline]
```

initialize user

Parameters

<i>rs</i>	
-----------	--

Exceptions

<i>ClassNotFoundException</i>	
-------------------------------	--

Returns

ResultSet

6.4.2.9 log()

```
void com.mycompany.coursework.DbConnection.log (
    String message ) [inline]
```

6.4.2.10 logger()

```
void com.mycompany.coursework.DbConnection.logger (
    String username,
    String classname,
    String function,
    String level,
    String container_index,
    Exception e ) throws ClassNotFoundException [inline]
```

6.4.2.11 loginUser()

```
User com.mycompany.coursework.DbConnection.loginUser (
    User user ) throws ClassNotFoundException [inline]
```

mark a user as logged In

Parameters

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

Returns

Exceptions

<i>ClassNotFoundException</i>	
-------------------------------	--

6.4.2.12 logoutUser()

```
User com.mycompany.coursework.DbConnection.logoutUser (  
    User user ) throws ClassNotFoundException [inline]
```

mark a user as logged out

Parameters

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

Returns

Exceptions

<i>ClassNotFoundException</i>	
-------------------------------	--

6.4.2.13 main()

```
static void com.mycompany.coursework.DbConnection.main (  
    String[] args ) throws Exception [inline], [static]
```

6.4.2.14 makeUserAdmin()

```
User com.mycompany.coursework.DbConnection.makeUserAdmin (  
    User user ) throws ClassNotFoundException [inline]
```

mark a user as an admin

Parameters

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

Returns**Exceptions**

<i>ClassNotFoundException</i>	
-------------------------------	--

6.4.2.15 removeUserAdmin()

```
User com.mycompany.coursework.DbConnection.removeUserAdmin (
    User user ) throws ClassNotFoundException [inline]
```

mark admin user as non-admin

Parameters

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

Returns**Exceptions**

<i>ClassNotFoundException</i>	
-------------------------------	--

6.4.2.16 updateUser()

```
Boolean com.mycompany.coursework.DbConnection.updateUser (
    String username,
    String password,
    String firstname,
    String lastname,
    String email ) throws InvalidKeySpecException, ClassNotFoundException [inline]
```

update a user

Parameters

<i>username</i>	
<i>password</i>	
<i>firstname</i>	
<i>lastname</i>	
<i>email</i>	

Returns

Exceptions

<i>InvalidKeySpecException</i>	
<i>ClassNotFoundException</i>	

6.4.2.17 validateUser()

```
User com.mycompany.coursework.DbConnection.validateUser (
    String username,
    String password ) throws InvalidKeySpecException, ClassNotFoundException [inline]
```

decode password method to validate user

Exceptions

<i>java.security.spec.InvalidKeySpecException</i>	
<i>java.lang.ClassNotFoundException</i>	

Parameters

<i>username</i>	name as type String
<i>password</i>	plain password of type String

Returns

user if the credentials are valid, otherwise null

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

- src/main/java/com/mycompany/coursework/ **DbConnection.java**

6.5 com.mycompany.coursework.DeleteFileController Class Reference

Public Member Functions

- void **initialise** (**User** userdata) throws SQLException, ClassNotFoundException
initialize data into controller

6.5.1 Member Function Documentation

6.5.1.1 initialise()

```
void com.mycompany.coursework.DeleteFileController.initialise (  
    User userdata ) throws SQLException, ClassNotFoundException [inline]
```

initialize data into controller

Parameters

<i>userdata</i>	
-----------------	--

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

- src/main/java/com/mycompany/coursework/ **DeleteFileController.java**

6.6 com.mycompany.coursework.DownloadFileController Class Reference

Public Member Functions

- void **initialise** (**User** userdata) throws SQLException, ClassNotFoundException

6.6.1 Member Function Documentation

6.6.1.1 initialise()

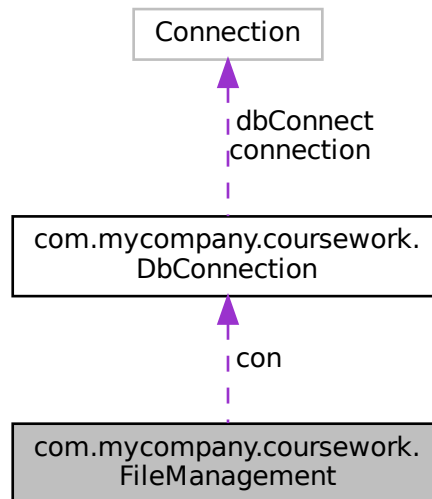
```
void com.mycompany.coursework.DownloadFileController.initialise (  
    User userdata ) throws SQLException, ClassNotFoundException [inline]
```

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

- src/main/java/com/mycompany/coursework/ **DownloadFileController.java**

6.7 com.mycompany.coursework.FileManagement Class Reference

Collaboration diagram for com.mycompany.coursework.FileManagement:



Public Member Functions

- **FileManagement** (Connection connection)
- void **createFile** (String fileName, String username, String content) throws SQLException, IOException, ClassNotFoundException
method to create file and append content to the file.
- void **appendToFile** (String fileName, String filePath, String newContent) throws IOException, SQLException
to append content to a file.
- List< String > **getFilesForUser** (String username) throws SQLException, ClassNotFoundException
method to get all files of a user
- void **uploadFile** (String fileName, String username) throws IOException, ClassNotFoundException
method to upload a file.
- File **downloadFile** (String fileName, String username) throws IOException, SQLException
method to download file from the containers.
- void **shareFile** (String fileName, String ownerUsername, List< String > recipientUsernames, boolean readPermission, boolean writePermission) throws SQLException
a method to share files among other users, specifying the read and write permissions.
- void **deleteFile** (String fileName, String username) throws SQLException, IOException, InterruptedException
method to delete files from the containers.
- void **restoreFile** (String fileName, String username) throws InterruptedException, FileNotFoundException, IOException, SQLException
- void **renameFile** (String oldName, String newName, String username) throws IOException, SQLException, InterruptedException
method to rename a file.
- void **copyFile** (String fileName, String destinationPath, String username) throws SQLException, IOException

method to copy file from a source path to a destination path.

- void **moveFile** (String fileName, String destinationPath, String username) throws SQLException, IOException

method to move a file from a source path to a destination path.

6.7.1 Constructor & Destructor Documentation

6.7.1.1 FileManagement()

```
com.mycompany.coursework.FileManagement.FileManagement (
    Connection connection ) [inline]
```

6.7.2 Member Function Documentation

6.7.2.1 appendToFile()

```
void com.mycompany.coursework.FileManagement.appendToFile (
    String fileName,
    String filePath,
    String newContent ) throws IOException, SQLException [inline]
```

to append content to a file.

Parameters

<i>fileName</i>	
<i>filePath</i>	
<i>newContent</i>	

Exceptions

<i>IOException</i>	
<i>SQLException</i>	

6.7.2.2 copyFile()

```
void com.mycompany.coursework.FileManagement.copyFile (
    String fileName,
```

```
String destinationPath,  
String username ) throws SQLException, IOException [inline]
```

method to copy file from a source path to a destination path.

Parameters

<i>fileName</i>	
<i>destinationPath</i>	
<i>username</i>	

Exceptions

<i>SQLException</i>	
<i>IOException</i>	

6.7.2.3 createFile()

```
void com.mycompany.coursework.FileManagement.createFile (  
    String fileName,  
    String username,  
    String content ) throws SQLException, IOException, ClassNotFoundException [inline]
```

method to create file and append content to the file.

Parameters

<i>fileName</i>	
<i>username</i>	
<i>content</i>	

Exceptions

<i>SQLException</i>	
<i>IOException</i>	
<i>ClassNotFoundException</i>	

6.7.2.4 deleteFile()

```
void com.mycompany.coursework.FileManagement.deleteFile (  
    String fileName,  
    String username ) throws SQLException, IOException, InterruptedException [inline]
```

method to delete files from the containers.

Files will be deleted permanently after 30 days of being deleted.

Parameters

<i>fileName</i>	
<i>username</i>	

Exceptions

<i>SQLException</i>	
<i>IOException</i>	
<i>InterruptedException</i>	

6.7.2.5 downloadFile()

```
File com.mycompany.coursework.FileManagement.downloadFile (  
    String fileName,  
    String username ) throws IOException, SQLException [inline]
```

method to download file from the containers.

Parameters

<i>fileName</i>	
<i>username</i>	

Returns**Exceptions**

<i>IOException</i>	
<i>SQLException</i>	

6.7.2.6 getFilesForUser()

```
List<String> com.mycompany.coursework.FileManagement.getFilesForUser (  
    String username ) throws SQLException, ClassNotFoundException [inline]
```

method to get all files of a user

Parameters

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

Returns

Exceptions

<i>SQLException</i>	
<i>ClassNotFoundException</i>	

6.7.2.7 moveFile()

```
void com.mycompany.coursework.FileManagement.moveFile (  
    String fileName,  
    String destinationPath,  
    String username ) throws SQLException, IOException [inline]
```

method to move a file from a source path to a destination path.

Parameters

<i>fileName</i>	
<i>destinationPath</i>	
<i>username</i>	

Exceptions

<i>SQLException</i>	
<i>IOException</i>	

6.7.2.8 renameFile()

```
void com.mycompany.coursework.FileManagement.renameFile (  
    String oldName,  
    String newName,  
    String username ) throws IOException, SQLException, InterruptedException [inline]
```

method to rename a file.

Parameters

<i>oldName</i>	
<i>newName</i>	
<i>username</i>	

Exceptions

<i>IOException</i>	
<i>SQLException</i>	
<i>InterruptedException</i>	

6.7.2.9 restoreFile()

```
void com.mycompany.coursework.FileManagement.restoreFile (  
    String fileName,  
    String username ) throws InterruptedException, FileNotFoundException, IOException,  
    SQLException [inline]
```

6.7.2.10 shareFile()

```
void com.mycompany.coursework.FileManagement.shareFile (  
    String fileName,  
    String ownerUsername,  
    List< String > recipientUsernames,  
    boolean readPermission,  
    boolean writePermission ) throws SQLException [inline]
```

a method to share files among other users, specifying the read and write permissions.

Parameters

<i>fileName</i>	
<i>ownerUsername</i>	
<i>recipientUsernames</i>	
<i>readPermission</i>	
<i>writePermission</i>	

Exceptions

<i>SQLException</i>	
---------------------	--

6.7.2.11 uploadFile()

```
void com.mycompany.coursework.FileManagement.uploadFile (  
    String fileName,  
    String username ) throws IOException, ClassNotFoundException [inline]
```

method to upload a file.

Parameters

<i>fileName</i>	
<i>username</i>	

Exceptions

<i>IOException</i>	
<i>ClassNotFoundException</i>	

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

- src/main/java/com/mycompany/coursework/ **FileManagement.java**

6.8 com.mycompany.coursework.MoveFileController Class Reference

Public Member Functions

- void **initialise** (**User** userdata) throws SQLException, ClassNotFoundException

6.8.1 Member Function Documentation

6.8.1.1 initialise()

```
void com.mycompany.coursework.MoveFileController.initialise (
    User userdata ) throws SQLException, ClassNotFoundException [inline]
```

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

- src/main/java/com/mycompany/coursework/ **MoveFileController.java**

6.9 com.mycompany.coursework.PrimaryController Class Reference

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

- src/main/java/com/mycompany/coursework/ **PrimaryController.java**

6.10 com.mycompany.coursework.RegisterController Class Reference

FXML Controller class.

6.10.1 Detailed Description

FXML Controller class.

Author

ntu-user

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

- `src/main/java/com/mycompany/coursework/ RegisterController.java`

6.11 com.mycompany.coursework.RenameFileController Class Reference

Public Member Functions

- void **initialise** (**User** userdata) throws SQLException, ClassNotFoundException

6.11.1 Member Function Documentation

6.11.1.1 initialise()

```
void com.mycompany.coursework.RenameFileController.initialise (  
    User userdata ) throws SQLException, ClassNotFoundException [inline]
```

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

- `src/main/java/com/mycompany/coursework/ RenameFileController.java`

6.12 com.mycompany.coursework.RestoreFileController Class Reference

Public Member Functions

- void **initialise** (**User** userdata) throws SQLException, ClassNotFoundException

6.12.1 Member Function Documentation

6.12.1.1 initialise()

```
void com.mycompany.coursework.RestoreFileController.initialise (
    User userdata ) throws SQLException, ClassNotFoundException [inline]
```

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

- src/main/java/com/mycompany/coursework/ **RestoreFileController.java**

6.13 com.mycompany.coursework.SecondaryController Class Reference

Public Member Functions

- void **initialise** (**User** userdata)

6.13.1 Member Function Documentation

6.13.1.1 initialise()

```
void com.mycompany.coursework.SecondaryController.initialise (
    User userdata ) [inline]
```

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

- src/main/java/com/mycompany/coursework/ **SecondaryController.java**

6.14 com.mycompany.coursework.UserManagement.SessionManager Class Reference

Session manager for login, logout and isLoggedIn Login adds session to the map of active sessions, logout removes and isLoggedIn checks.

Public Member Functions

- **SessionManager** ()
- void **login** (String username, String sessionId)
- void **logout** (String username)
- boolean **isLoggedIn** (String username, String sessionId)

6.14.1 Detailed Description

Session manager for login, logout and isLoggedIn Login adds session to the map of active sessions, logout removes and isLoggedIn checks.

6.14.2 Constructor & Destructor Documentation

6.14.2.1 SessionManager()

```
com.mycompany.coursework.UserManagement.SessionManager.SessionManager ( ) [inline]
```

6.14.3 Member Function Documentation

6.14.3.1 isLoggedIn()

```
boolean com.mycompany.coursework.UserManagement.SessionManager.isLoggedIn (
    String username,
    String sessionId ) [inline]
```

6.14.3.2 login()

```
void com.mycompany.coursework.UserManagement.SessionManager.login (
    String username,
    String sessionId ) [inline]
```

6.14.3.3 logout()

```
void com.mycompany.coursework.UserManagement.SessionManager.logout (
    String username ) [inline]
```

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

- src/main/java/com/mycompany/coursework/ **UserManagement.java**

6.15 com.mycompany.coursework.ShareFileController Class Reference

Public Member Functions

- void **initialise** (**User** userdata) throws SQLException, ClassNotFoundException

6.15.1 Member Function Documentation

6.15.1.1 initialise()

```
void com.mycompany.coursework.ShareFileController.initialise (
    User userdata ) throws SQLException, ClassNotFoundException [inline]
```

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

- src/main/java/com/mycompany/coursework/ **ShareFileController.java**

6.16 com.mycompany.coursework.UpdateUserController Class Reference

Public Member Functions

- void **initialise** (**User** userdata)

6.16.1 Member Function Documentation

6.16.1.1 initialise()

```
void com.mycompany.coursework.UpdateUserController.initialise (
    User userdata ) [inline]
```

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

- src/main/java/com/mycompany/coursework/ **UpdateUserController.java**

6.17 com.mycompany.coursework.UploadFilesController Class Reference

Public Member Functions

- void **initialise** (**User** userdata)

6.17.1 Member Function Documentation

6.17.1.1 initialise()

```
void com.mycompany.coursework.UploadFilesController.initialise (
    User userdata ) [inline]
```

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

- src/main/java/com/mycompany/coursework/ **UploadFilesController.java**

6.18 com.mycompany.coursework.User Class Reference

Public Member Functions

- String **getUsername** ()
- void **setUsername** (String username)
- String ()
- void **(String email)**
- String **()**
- void **(String password)**
- String **()**
- void **(String firstname)**
- String **()**
- void **(String lastname)**
- void **(Integer value)**
- Integer **()**
- void **(Integer value)**
- Integer **()**

6.18.1 Detailed Description

Author

ntu-user N1076622

6.18.2 Member Function Documentation

6.18.2.1 getEmail()

```
String com.mycompany.coursework.User.getEmail ( ) [inline]
```

6.18.2.2 getFirstname()

```
String com.mycompany.coursework.User.getFirstname ( ) [inline]
```


6.18.2.3 getIsAdmin()

```
Integer com.mycompany.coursework.User.getIsAdmin ( ) [inline]
```

6.18.2.4 getIsLoggedIn()

```
Integer com.mycompany.coursework.User.getIsLoggedIn ( ) [inline]
```

6.18.2.5 getLastName()

```
String com.mycompany.coursework.User.getLastName ( ) [inline]
```

6.18.2.6 getPassword()

```
String com.mycompany.coursework.User.getPassword ( ) [inline]
```

6.18.2.7 getUsername()

```
String com.mycompany.coursework.User.getUsername ( ) [inline]
```

6.18.2.8 setEmail()

```
void com.mycompany.coursework.User.setEmail (
    String email ) [inline]
```

6.18.2.9 setFirstname()

```
void com.mycompany.coursework.User.setFirstname (
    String firstname ) [inline]
```

6.18.2.10 `setIsAdmin()`

```
void com.mycompany.coursework.User.setIsAdmin (
    Integer value ) [inline]
```

6.18.2.11 `setIsLoggedIn()`

```
void com.mycompany.coursework.User.setIsLoggedIn (
    Integer value ) [inline]
```

6.18.2.12 `setLastname()`

```
void com.mycompany.coursework.User.setLastname (
    String firstname ) [inline]
```

6.18.2.13 `setPassword()`

```
void com.mycompany.coursework.User.setPassword (
    String password ) [inline]
```

6.18.2.14 `setUsername()`

```
void com.mycompany.coursework.User.setUsername (
    String username ) [inline]
```

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

- `src/main/java/com/mycompany/coursework/ User.java`

6.19 `com.mycompany.coursework.UserListController` Class Reference

Public Member Functions

- void `initialise (User userdata)`

6.19.1 Member Function Documentation

6.19.1.1 initialise()

```
void com.mycompany.coursework.UserListController.initialise (
    User userdata ) [inline]
```

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

- src/main/java/com/mycompany/coursework/ **UserListController.java**

6.20 com.mycompany.coursework.UserManagement Class Reference

Classes

- class **SessionManager**

Session manager for login, logout and isLoggedIn Login adds session to the map of active sessions, logout removes and isLoggedIn checks.

Public Member Functions

- void **UserManager** ()
get table name Load the SQLite driver Connect to the database Create a session manager
- String **createUser** (String firstName, String lastName, String email, String username, String pass) throws InvalidKeySpecException, SQLException, ClassNotFoundException
method to create user Insert statement into DB Create a session manager
- String **deleteUser** (String username) throws SQLException, ClassNotFoundException
delete user method
- String **updateUser** (int id, String firstName, String lastName, String email, String username, String pass, String isAdmin, String isLoggedIn) throws InvalidKeySpecException, SQLException, ClassNotFoundException
get table name
- void **userLogin** (String username, String password) throws InvalidKeySpecException, SQLException, ClassNotFoundException
user login method
- void **userLogout** (String username) throws SQLException, ClassNotFoundException
user logout method

6.20.1 Detailed Description

Author

ntu-user N1076622

6.20.2 Member Function Documentation

6.20.2.1 createUser()

```
String com.mycompany.coursework.UserManagement.createUser (
    String firstName,
    String lastName,
    String email,
    String username,
    String pass ) throws InvalidKeySpecException, SQLException, ClassNotFoundException
[inline]
```

method to create user Insert statement into DB Create a session manager

Parameters

<i>firstName</i>	
<i>lastName</i>	
<i>email</i>	
<i>username</i>	
<i>pass</i>	

Exceptions

<i>java.security.spec.InvalidKeySpecException</i>	
<i>java.sql.SQLException</i>	
<i>java.lang.ClassNotFoundException</i>	

Returns

account created successfully as String

6.20.2.2 deleteUser()

```
String com.mycompany.coursework.UserManagement.deleteUser (  
    String username ) throws SQLException, ClassNotFoundException [inline]
```

delete user method

Parameters

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

Returns

Exceptions

<i>java.sql.SQLException</i>	
<i>java.lang.ClassNotFoundException</i>	

6.20.2.3 updateUser()

```
String com.mycompany.coursework.UserManagement.updateUser (  
    int id,  
    String firstName,
```

```

        String lastName,
        String email,
        String username,
        String pass,
        String isAdmin,
        String isLoggedIn ) throws InvalidKeySpecException, SQLException, ClassNotFoundException←
Exception [inline]

```

get table name

Parameters

<i>id</i>	
<i>firstName</i>	
<i>email</i>	
<i>lastName</i>	
<i>username</i>	
<i>pass</i>	
<i>isAdmin</i>	
<i>is↵ LoggedIn</i>	

Returns

user update information as String

Exceptions

<i>java.security.spec.InvalidKeySpecException</i>	
<i>java.sql.SQLException</i>	
<i>java.lang.ClassNotFoundException</i>	

6.20.2.4 userLogin()

```

void com.mycompany.coursework.UserManagement.userLogin (
        String username,
        String password ) throws InvalidKeySpecException, SQLException, ClassNotFoundException←
Exception [inline]

```

user login method

Parameters

<i>username</i>	
<i>password</i>	

Exceptions

<i>InvalidKeySpecException</i>	
--------------------------------	--

Exceptions

<i>SQLException</i>	
<i>ClassNotFoundException</i>	

6.20.2.5 userLogout()

```
void com.mycompany.coursework.UserManagement.userLogout (
    String username ) throws SQLException, ClassNotFoundException [inline]
```

user logout method

Parameters

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

Exceptions

<i>SQLException</i>	
<i>ClassNotFoundException</i>	

6.20.2.6 UserManager()

```
void com.mycompany.coursework.UserManagement.UserManager ( ) [inline]
```

get table name Load the SQLite driver Connect to the database Create a session manager

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

- src/main/java/com/mycompany/coursework/ **UserManagement.java**

6.21 com.mycompany.coursework.ViewLogsController Class Reference**Public Member Functions**

- void **initialise** (**User** userdata)

6.21.1 Member Function Documentation

6.21.1.1 initialise()

```
void com.mycompany.coursework.ViewLogsController.initialise (  
    User userdata ) [inline]
```

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

- src/main/java/com/mycompany/coursework/ **ViewLogsController.java**

Chapter 7

File Documentation

7.1 src/main/java/com/mycompany/coursework/App.java File Reference

Classes

- class **com.mycompany.coursework.App**
*JavaFX **App** (p. 11).*

Packages

- package **com.mycompany.coursework**

7.2 src/main/java/com/mycompany/coursework/CopyFileController.java File Reference

Classes

- class **com.mycompany.coursework.CopyFileController**

Packages

- package **com.mycompany.coursework**

7.3 src/main/java/com/mycompany/coursework/CreateFileController.java File Reference

Classes

- class **com.mycompany.coursework.CreateFileController**

Packages

- package `com.mycompany.coursework`

7.4 `src/main/java/com/mycompany/coursework/DbConnection.java` File Reference

Classes

- class `com.mycompany.coursework.DbConnection`

Packages

- package `com.mycompany.coursework`

7.5 `src/main/java/com/mycompany/coursework/DeleteFileController.java` File Reference

Classes

- class `com.mycompany.coursework.DeleteFileController`

Packages

- package `com.mycompany.coursework`

7.6 `src/main/java/com/mycompany/coursework/DownloadFileController.java` File Reference

Classes

- class `com.mycompany.coursework.DownloadFileController`

Packages

- package `com.mycompany.coursework`

7.7 `src/main/java/com/mycompany/coursework/FileManagement.java` File Reference

Classes

- class `com.mycompany.coursework.FileManagement`

Packages

- package `com.mycompany.coursework`

7.8 src/main/java/com/mycompany/coursework/MoveFileController.java File Reference

Classes

- class `com.mycompany.coursework.MoveFileController`

Packages

- package `com.mycompany.coursework`

7.9 src/main/java/com/mycompany/coursework/PrimaryController.java File Reference

Classes

- class `com.mycompany.coursework.PrimaryController`

Packages

- package `com.mycompany.coursework`

7.10 src/main/java/com/mycompany/coursework/RegisterController.java File Reference

Classes

- class `com.mycompany.coursework.RegisterController`
FXML Controller class.

Packages

- package `com.mycompany.coursework`

7.11 [src/main/java/com/mycompany/coursework/RenameFileController.java File Reference](#)

Classes

- class `com.mycompany.coursework.RenameFileController`

Packages

- package `com.mycompany.coursework`

7.12 [src/main/java/com/mycompany/coursework/RestoreFileController.java File Reference](#)

Classes

- class `com.mycompany.coursework.RestoreFileController`

Packages

- package `com.mycompany.coursework`

7.13 [src/main/java/com/mycompany/coursework/SecondaryController.java File Reference](#)

Classes

- class `com.mycompany.coursework.SecondaryController`

Packages

- package `com.mycompany.coursework`

7.14 [src/main/java/com/mycompany/coursework/ShareFileController.java File Reference](#)

Classes

- class `com.mycompany.coursework.ShareFileController`

Packages

- package `com.mycompany.coursework`

7.15 src/main/java/com/mycompany/coursework/Test.java File Reference

7.16 src/main/java/com/mycompany/coursework/UpdateUserController.java File Reference

Classes

- class `com.mycompany.coursework.UpdateUserController`

Packages

- package `com.mycompany.coursework`

7.17 src/main/java/com/mycompany/coursework/UploadFilesController.java File Reference

Classes

- class `com.mycompany.coursework.UploadFilesController`

Packages

- package `com.mycompany.coursework`

7.18 src/main/java/com/mycompany/coursework/User.java File Reference

Classes

- class `com.mycompany.coursework.User`

Packages

- package `com.mycompany.coursework`

7.19 src/main/java/com/mycompany/coursework/UserListController.java File Reference

Classes

- class `com.mycompany.coursework.UserListController`

Packages

- package `com.mycompany.coursework`

7.20 src/main/java/com/mycompany/coursework/UserManagement.java File Reference

Classes

- class `com.mycompany.coursework.UserManagement`
- class `com.mycompany.coursework.UserManagement.SessionManager`

Session manager for login, logout and isLoggedIn Login adds session to the map of active sessions, logout removes and isLoggedIn checks.

Packages

- package `com.mycompany.coursework`

7.21 src/main/java/com/mycompany/coursework/ViewLogsController.java File Reference

Classes

- class `com.mycompany.coursework.ViewLogsController`

Packages

- package `com.mycompany.coursework`

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