

# My Project

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# Chapter 1

## Namespace Index

### 1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

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----------	---





## Chapter 2

# Hierarchical Index

### 2.1 Class Hierarchy

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## Chapter 3

# Class Index

### 3.1 Class List

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## Chapter 4

# File Index

### 4.1 File List

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## Chapter 5

# Namespace Documentation

### 5.1 Ui Namespace Reference

#### Classes

- class [connecting](#)
- class [file](#)
- class [fileaccess](#)
- class [login](#)
- class [NewUserSignup](#)
- class [share](#)
- class [sharedwithothers](#)





## Chapter 6

# Class Documentation

### 6.1 Client Struct Reference

```
#include <SyncManager.h>
```

#### Public Attributes

- `std::string` [UserName](#)
- [SyncManager](#) `mang`

#### 6.1.1 Member Data Documentation

##### 6.1.1.1 `SyncManager` `Client::mang`

##### 6.1.1.2 `std::string` `Client::UserName`

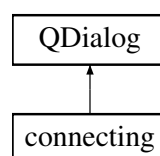
The documentation for this struct was generated from the following file:

- [SyncManager.h](#)

### 6.2 connecting Class Reference

```
#include <connecting.h>
```

Inheritance diagram for `connecting`:



#### Public Member Functions

- [connecting](#) (`QWidget *parent=0`)
- [~connecting](#) ()

## Private Slots

- void [on\\_okbutton\\_clicked](#) ()

## Private Attributes

- [Ui::connecting](#) \* [ui](#)

## 6.2.1 Constructor & Destructor Documentation

6.2.1.1 [connecting::connecting](#) ( [QWidget](#) \* *parent* = 0 ) [explicit]

6.2.1.2 [connecting::~~connecting](#) ( )

## 6.2.2 Member Function Documentation

6.2.2.1 void [connecting::on\\_okbutton\\_clicked](#) ( ) [private],[slot]

## 6.2.3 Member Data Documentation

6.2.3.1 [Ui::connecting](#)\* [connecting::ui](#) [private]

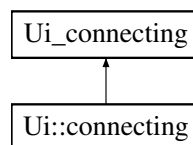
The documentation for this class was generated from the following files:

- [connecting.h](#)
- [connecting.cpp](#)

## 6.3 Ui::connecting Class Reference

```
#include <ui_connecting.h>
```

Inheritance diagram for [Ui::connecting](#):



## Additional Inherited Members

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

- [ui\\_connecting.h](#)

## 6.4 Data Class Reference

```
#include <filesongserver.h>
```

## Public Member Functions

- [Data](#) ()
- [Data](#) (std::string)
- [Data](#) (std::string, bool)
- std::string [GetName](#) ()
- std::vector< [Data](#) > [GetListFiles](#) ()
- void [SetName](#) (std::string)
- void [SetFolder](#) (bool)
- void [SetData](#) (std::vector< [Data](#) >)
- void [InsertData](#) ([Data](#))
- void [DeleteData](#) (unsigned int)
- bool [IfFileFolder](#) ()

## Private Attributes

- bool [file\\_or\\_folder](#)
- std::string [name](#)
- std::vector< [Data](#) > [list\\_of\\_files](#)

### 6.4.1 Constructor & Destructor Documentation

6.4.1.1 [Data::Data](#) ( )

6.4.1.2 [Data::Data](#) ( std::string x )

6.4.1.3 [Data::Data](#) ( std::string x, bool y )

### 6.4.2 Member Function Documentation

6.4.2.1 void [Data::DeleteData](#) ( unsigned int x )

6.4.2.2 std::vector< [Data](#) > [Data::GetListFiles](#) ( )

6.4.2.3 std::string [Data::GetName](#) ( )

6.4.2.4 bool [Data::IfFileFolder](#) ( )

6.4.2.5 void [Data::InsertData](#) ( [Data](#) y )

6.4.2.6 void [Data::SetData](#) ( std::vector< [Data](#) > y )

6.4.2.7 void [Data::SetFolder](#) ( bool x )

6.4.2.8 void [Data::SetName](#) ( std::string x )

### 6.4.3 Member Data Documentation

6.4.3.1 bool [Data::file\\_or\\_folder](#) [private]

6.4.3.2 std::vector<[Data](#)> [Data::list\\_of\\_files](#) [private]

6.4.3.3 std::string [Data::name](#) [private]

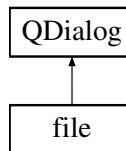
The documentation for this class was generated from the following files:

- [filesnserver.h](#)
- [filesnserver.cpp](#)

## 6.5 file Class Reference

```
#include <file.h>
```

Inheritance diagram for file:



### Public Member Functions

- [file](#) (QWidget \*parent=0)
- [~file](#) ()

### Private Slots

- void [on\\_movetodrive\\_clicked](#) ()
- void [on\\_openfile\\_clicked](#) ()
- void [on\\_deletefile\\_clicked](#) ()
- void [on\\_share\\_clicked](#) ()
- void [on\\_AddFileInClientSide\\_clicked](#) ()
- void [on\\_OpenFileInDrive\\_clicked](#) ()
- void [makechange](#) ()
- void [on\\_GoingBackInDrive\\_clicked](#) ()
- void [on\\_GetFromDrive\\_clicked](#) ()
- void [on\\_logout\\_clicked](#) ()
- void [on\\_changepassword\\_clicked](#) ()
- void [on\\_DeleteFromDrive\\_clicked](#) ()
- void [on\\_ViewSharedFiles\\_clicked](#) ()
- void [on\\_sync\\_clicked](#) ()

### Private Attributes

- [Ui::file](#) \* [ui](#)
- QFileSystemModel \* [dirmodel](#)

#### 6.5.1 Constructor & Destructor Documentation

6.5.1.1 `file::file ( QWidget * parent = 0 )` `[explicit]`

6.5.1.2 `file::~file ( )`

#### 6.5.2 Member Function Documentation

6.5.2.1 `void file::makechange ( )` `[private], [slot]`

6.5.2.2 void file::on\_AddFileInClientSide\_clicked ( ) [private],[slot]

6.5.2.3 void file::on\_changepassword\_clicked ( ) [private],[slot]

6.5.2.4 void file::on\_deletefile\_clicked ( ) [private],[slot]

6.5.2.5 void file::on\_DeleteFromDrive\_clicked ( ) [private],[slot]

6.5.2.6 void file::on\_GetFromDrive\_clicked ( ) [private],[slot]

6.5.2.7 void file::on\_GoingBackInDrive\_clicked ( ) [private],[slot]

6.5.2.8 void file::on\_logout\_clicked ( ) [private],[slot]

6.5.2.9 void file::on\_movetodrive\_clicked ( ) [private],[slot]

6.5.2.10 void file::on\_openfile\_clicked ( ) [private],[slot]

6.5.2.11 void file::on\_OpenFileInDrive\_clicked ( ) [private],[slot]

6.5.2.12 void file::on\_share\_clicked ( ) [private],[slot]

6.5.2.13 void file::on\_sync\_clicked ( ) [private],[slot]

6.5.2.14 void file::on\_ViewSharedFiles\_clicked ( ) [private],[slot]

### 6.5.3 Member Data Documentation

6.5.3.1 QFileSystemModel\* file::dirmodel [private]

6.5.3.2 Ui::file\* file::ui [private]

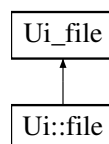
The documentation for this class was generated from the following files:

- [file.h](#)
- [file.cpp](#)

## 6.6 Ui::file Class Reference

```
#include <ui_file.h>
```

Inheritance diagram for Ui::file:



### Additional Inherited Members

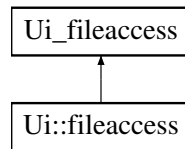
The documentation for this class was generated from the following file:

- [ui\\_file.h](#)

## 6.7 Ui::fileaccess Class Reference

```
#include <ui_fileaccess.h>
```

Inheritance diagram for Ui::fileaccess:



### Additional Inherited Members

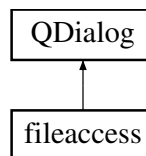
The documentation for this class was generated from the following file:

- [ui\\_fileaccess.h](#)

## 6.8 fileaccess Class Reference

```
#include <fileaccess.h>
```

Inheritance diagram for fileaccess:



### Public Member Functions

- [fileaccess](#) (QWidget \*parent=0)
- [~fileaccess](#) ()

### Private Slots

- void [customSlot2](#) (const QString &)
- void [customSlot3](#) (const QString &)
- void [on\\_applychange\\_clicked](#) ()
- void [on\\_cancel\\_clicked](#) ()

### Private Attributes

- [Ui::fileaccess](#) \* [ui](#)

### 6.8.1 Constructor & Destructor Documentation

6.8.1.1 [fileaccess::fileaccess](#) ( QWidget \* *parent* = 0 ) [explicit]

6.8.1.2 `fileaccess::~~fileaccess ( )`

## 6.8.2 Member Function Documentation

6.8.2.1 `void fileaccess::customSlot2 ( const QString & y ) [private],[slot]`

6.8.2.2 `void fileaccess::customSlot3 ( const QString & x ) [private],[slot]`

6.8.2.3 `void fileaccess::on_applychange_clicked ( ) [private],[slot]`

6.8.2.4 `void fileaccess::on_cancel_clicked ( ) [private],[slot]`

## 6.8.3 Member Data Documentation

6.8.3.1 `Ui::fileaccess* fileaccess::ui [private]`

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

- [fileaccess.h](#)
- [fileaccess.cpp](#)

## 6.9 FileChanges Class Reference

```
#include <FileChanges.h>
```

### Public Member Functions

- [FileChanges \(\)](#)
- [FileChanges \(std::string, std::string\)](#)
- [FileChanges \(FileHistory, FileHistory\)](#)
- [FileChanges \(FileHistory, FileHistory, UserFiles\)](#)
- [UserFiles GetFileLinking \(\)](#)
- [FileHistory GetClientFiles \(\)](#)
- [FileHistory GetServerFiles \(\)](#)
- [void SetFileLinking \(UserFiles\)](#)
- [void SetClientFiles \(FileHistory\)](#)
- [void SetServerFiles \(FileHistory\)](#)
- [void LoadFileLinkingClient \(std::string\)](#)
- [void LoadFileLinkingServer \(std::string\)](#)
- [void StoreFileLinkingClient \(std::string\)](#)
- [void StoreFileLinkingServer \(std::string\)](#)
- [void LoadClientHistory \(std::string\)](#)
- [void LoadServerHistory \(std::string\)](#)
- [void StoreClientHistory \(std::string\)](#)
- [void StoreServerHistory \(std::string\)](#)
- [void RefreshClient \(\)](#)
- [std::string GetCLMapping \(std::string\)](#)
- [std::string GetSEMapping \(std::string\)](#)
- [void RemoveFromClient \(std::string\)](#)
- [void RemoveFromServer \(std::string\)](#)
- [void AddFilesToFileChanges \(std::string, std::string\)](#)
- [void SetTimeChanges \(int\)](#)

## Private Attributes

- [UserFiles](#) [FileLinking](#)
- [FileHistory](#) [ClientHistory](#)
- [FileHistory](#) [ServerHistory](#)

## 6.9.1 Constructor & Destructor Documentation

6.9.1.1 `FileChanges::FileChanges ( )`

6.9.1.2 `FileChanges::FileChanges ( std::string cl, std::string se )`

6.9.1.3 `FileChanges::FileChanges ( FileHistory clhist, FileHistory sehist )`

6.9.1.4 `FileChanges::FileChanges ( FileHistory clhist, FileHistory sehist, UserFiles link )`

## 6.9.2 Member Function Documentation

6.9.2.1 `void FileChanges::AddFilesToFileChanges ( std::string s1, std::string s2 )`

6.9.2.2 `FileHistory FileChanges::GetClientFiles ( )`

6.9.2.3 `std::string FileChanges::GetCLMapping ( std::string serverfilename )`

6.9.2.4 `UserFiles FileChanges::GetFileLinking ( )`

6.9.2.5 `std::string FileChanges::GetSEMapping ( std::string clientfilename )`

6.9.2.6 `FileHistory FileChanges::GetServerFiles ( )`

6.9.2.7 `void FileChanges::LoadClientHistory ( std::string location )`

6.9.2.8 `void FileChanges::LoadFileLinkingClient ( std::string location )`

6.9.2.9 `void FileChanges::LoadFileLinkingServer ( std::string location )`

6.9.2.10 `void FileChanges::LoadServerHistory ( std::string location )`

6.9.2.11 `void FileChanges::RefreshClient ( )`

6.9.2.12 `void FileChanges::RemoveFromClient ( std::string location )`

6.9.2.13 `void FileChanges::RemoveFromServer ( std::string location )`

6.9.2.14 `void FileChanges::SetClientFiles ( FileHistory x )`

6.9.2.15 `void FileChanges::SetFileLinking ( UserFiles usfiles )`

6.9.2.16 `void FileChanges::SetServerFiles ( FileHistory x )`

6.9.2.17 `void FileChanges::SetTimeChanges ( int ntime )`

6.9.2.18 `void FileChanges::StoreClientHistory ( std::string location )`

6.9.2.19 `void FileChanges::StoreFileLinkingClient ( std::string location )`



6.9.2.20 void FileChanges::StoreFileLinkingServer ( std::string *location* )

6.9.2.21 void FileChanges::StoreServerHistory ( std::string *location* )

### 6.9.3 Member Data Documentation

6.9.3.1 FileHistory FileChanges::ClientHistory [private]

6.9.3.2 UserFiles FileChanges::FileLinking [private]

6.9.3.3 FileHistory FileChanges::ServerHistory [private]

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

- [FileChanges.h](#)
- [FileChanges.cpp](#)

## 6.10 FileHistory Class Reference

```
#include <FileHistory.h>
```

### Public Member Functions

- [FileHistory](#) ()
- [FileHistory](#) (std::string)
- std::string [GetFolder](#) ()
- std::vector< std::pair< std::string, int > > [GetFileTimeBase](#) ()
- int [GetDataTime](#) ()
- int [GetNumberOfFiles](#) ()
- std::pair< std::string, int > [GetNthInfo](#) (int)
- std::string [GetNthName](#) (int)
- int [GetNthTime](#) (int)
- void [SetDataTime](#) (int)
- void [SetFolderLocation](#) (std::string)
- void [SetFileTimeBase](#) (std::vector< std::pair< std::string, int > >)
- void [SetNthInfo](#) (int, std::string, int)
- void [SetNthFile](#) (int, std::string)
- void [SetNthTime](#) (int, int)
- bool [ExistsFile](#) (std::string)
- void [LoadFileTimeBase](#) ()
- void [LoadFromFileBase](#) (std::string)
- void [StoreToFileBase](#) (std::string)
- void [RemoveFile](#) (std::string)
- void [AddFileToHistory](#) (std::string, int)

### Private Attributes

- std::string [FolderLocation](#)
- int [TimeOfData](#)
- std::vector< std::pair< std::string, int > > [FileTimeBase](#)

### 6.10.1 Constructor & Destructor Documentation

6.10.1.1 FileHistory::FileHistory ( )

6.10.1.2 FileHistory::FileHistory ( std::string *location* )

### 6.10.2 Member Function Documentation

6.10.2.1 void FileHistory::AddFileToHistory ( std::string *sadd*, int *time1* )

6.10.2.2 bool FileHistory::ExistsFile ( std::string *tofine* )

6.10.2.3 int FileHistory::GetDataTime ( )

6.10.2.4 std::vector< std::pair< std::string, int > > FileHistory::GetFileTimeBase ( )

6.10.2.5 std::string FileHistory::GetFolder ( )

6.10.2.6 std::pair< std::string, int > FileHistory::GetNthInfo ( int *n* )

6.10.2.7 std::string FileHistory::GetNthName ( int *n* )

6.10.2.8 int FileHistory::GetNthTime ( int *n* )

6.10.2.9 int FileHistory::GetNumberOfFiles ( )

6.10.2.10 void FileHistory::LoadFileTimeBase ( )

6.10.2.11 void FileHistory::LoadFromFileBase ( std::string *location* )

6.10.2.12 void FileHistory::RemoveFile ( std::string *location* )

6.10.2.13 void FileHistory::SetDataTime ( int *newtime* )

6.10.2.14 void FileHistory::SetFileTimeBase ( std::vector< std::pair< std::string, int > > *newvector* )

6.10.2.15 void FileHistory::SetFolderLocation ( std::string *location* )

6.10.2.16 void FileHistory::SetNthFile ( int *n*, std::string *s1* )

6.10.2.17 void FileHistory::SetNthInfo ( int *n*, std::string *newname*, int *newtime* )

6.10.2.18 void FileHistory::SetNthTime ( int *n*, int *newtime* )

6.10.2.19 void FileHistory::StoreToFileBase ( std::string *location* )

### 6.10.3 Member Data Documentation

6.10.3.1 std::vector< std::pair<std::string, int> > FileHistory::FileTimeBase [private]

6.10.3.2 std::string FileHistory::FolderLocation [private]

6.10.3.3 int FileHistory::TimeOfData [private]

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

- [FileHistory.h](#)
- [FileHistory.cpp](#)

## 6.11 FileReceiving Class Reference

```
#include <FileReceiving.h>
```

### Public Member Functions

- [FileReceiving](#) ()
- [FileReceiving](#) (std::vector< [Sharing](#) >)
- std::vector< [Sharing](#) > [GetSharingList](#) ()
- int [GetNumberOfSharing](#) ()
- [Sharing](#) [GetNthSharing](#) (int)
- void [SetSharingList](#) (std::vector< [Sharing](#) >)
- void [SetNthSharing](#) ([Sharing](#), int)
- void [AddNewSharing](#) ([Sharing](#))
- void [AddNewLocation](#) (std::string)
- void [AddNewLocationType](#) (std::string, int)
- void [LoadSharingFromDisk](#) (std::string)
- void [StoreSharingToDisk](#) (std::string)
- bool [CheckIfExists](#) (std::string)
- void [InsertNewInDisk](#) (std::string, [Sharing](#))

### Private Attributes

- std::vector< [Sharing](#) > [SharingList](#)

### 6.11.1 Constructor & Destructor Documentation

6.11.1.1 [FileReceiving::FileReceiving](#) ( )

6.11.1.2 [FileReceiving::FileReceiving](#) ( std::vector< [Sharing](#) > v )

### 6.11.2 Member Function Documentation

6.11.2.1 void [FileReceiving::AddNewLocation](#) ( std::string *newloc* )

6.11.2.2 void [FileReceiving::AddNewLocationType](#) ( std::string *newloc*, int *type* )

6.11.2.3 void [FileReceiving::AddNewSharing](#) ( [Sharing](#) *news* )

6.11.2.4 bool [FileReceiving::CheckIfExists](#) ( std::string *tocheck* )

6.11.2.5 [Sharing](#) [FileReceiving::GetNthSharing](#) ( int *n* )

6.11.2.6 int [FileReceiving::GetNumberOfSharing](#) ( )

6.11.2.7 std::vector< [Sharing](#) > [FileReceiving::GetSharingList](#) ( )

6.11.2.8 void [FileReceiving::InsertNewInDisk](#) ( std::string *location*, [Sharing](#) *news* )

6.11.2.9 void FileReceiving::LoadSharingFromDisk ( std::string *location* )

6.11.2.10 void FileReceiving::SetNthSharing ( Sharing *s*, int *n* )

6.11.2.11 void FileReceiving::SetSharingList ( std::vector< Sharing > *v* )

6.11.2.12 void FileReceiving::StoreSharingToDisk ( std::string *location* )

### 6.11.3 Member Data Documentation

6.11.3.1 std::vector<Sharing> FileReceiving::SharingList [private]

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

- [FileReceiving.h](#)
- [FileReceiving.cpp](#)

## 6.12 FileSharing Class Reference

```
#include <FileSharing.h>
```

### Public Member Functions

- [FileSharing](#) ()
- [FileSharing](#) (std::vector< [SharingGiver](#) >)
- std::vector< [SharingGiver](#) > [GetGivingList](#) ()
- int [GetNumberOfGiving](#) ()
- [SharingGiver](#) [GetNthGiving](#) (int)
- void [SetGivingList](#) (std::vector< [SharingGiver](#) >)
- void [SetNthGiving](#) ([SharingGiver](#), int)
- void [AddNewGiving](#) ([SharingGiver](#))
- void [AddNewGivingLocation](#) (std::string, std::string)
- void [AddNewGivingLocationType](#) (std::string, std::string, int)
- void [LoadGivingFromDisk](#) (std::string)
- void [StoreGivingToDisk](#) (std::string)
- void [InsertNewGivingInDisk](#) (std::string, [SharingGiver](#))

### Private Attributes

- std::vector< [SharingGiver](#) > [GivingList](#)

### 6.12.1 Constructor & Destructor Documentation

6.12.1.1 FileSharing::FileSharing ( )

6.12.1.2 FileSharing::FileSharing ( std::vector< SharingGiver > *v* )

### 6.12.2 Member Function Documentation

6.12.2.1 void FileSharing::AddNewGiving ( SharingGiver *news* )

- 6.12.2.2 `void FileSharing::AddNewGivingLocation ( std::string filepath, std::string username )`
- 6.12.2.3 `void FileSharing::AddNewGivingLocationType ( std::string filepath, std::string username, int perm )`
- 6.12.2.4 `std::vector< SharingGiver > FileSharing::GetGivingList ( )`
- 6.12.2.5 `SharingGiver FileSharing::GetNthGiving ( int n )`
- 6.12.2.6 `int FileSharing::GetNumberOfGiving ( )`
- 6.12.2.7 `void FileSharing::InsertNewGivingInDisk ( std::string location, SharingGiver news )`
- 6.12.2.8 `void FileSharing::LoadGivingFromDisk ( std::string location )`
- 6.12.2.9 `void FileSharing::SetGivingList ( std::vector< SharingGiver > v )`
- 6.12.2.10 `void FileSharing::SetNthGiving ( SharingGiver news, int n )`
- 6.12.2.11 `void FileSharing::StoreGivingToDisk ( std::string location )`

### 6.12.3 Member Data Documentation

- 6.12.3.1 `std::vector<SharingGiver> FileSharing::GivingList` `[private]`

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

- [FileSharing.h](#)
- [FileSharing.cpp](#)

## 6.13 graph Struct Reference

### Public Attributes

- int [argcx](#)
- char \*\* [argvy](#)

### 6.13.1 Member Data Documentation

- 6.13.1.1 `int graph::argcx`
- 6.13.1.2 `char** graph::argvy`

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

- [main.cpp](#)

## 6.14 Instruction Struct Reference

```
#include <SyncManager.h>
```

## Public Attributes

- int [modification](#)
- std::string [data1](#)
- std::string [data2](#)
- std::string [data3](#)

### 6.14.1 Member Data Documentation

6.14.1.1 std::string Instruction::data1

6.14.1.2 std::string Instruction::data2

6.14.1.3 std::string Instruction::data3

6.14.1.4 int Instruction::modification

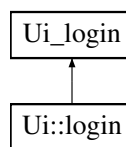
The documentation for this struct was generated from the following file:

- [SyncManager.h](#)

## 6.15 Ui::login Class Reference

```
#include <ui_login.h>
```

Inheritance diagram for Ui::login:



### Additional Inherited Members

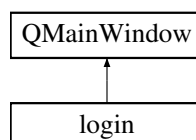
The documentation for this class was generated from the following file:

- [ui\\_login.h](#)

## 6.16 login Class Reference

```
#include <login.h>
```

Inheritance diagram for login:



## Public Member Functions

- [login](#) (QWidget \*parent=0)
- [~login](#) ()

## Private Slots

- void [on\\_quitapp\\_clicked](#) ()
- void [on\\_login\\_2\\_clicked](#) ()
- void [on\\_newuser\\_clicked](#) ()
- void [customSlot4](#) ()

## Private Attributes

- [Ui::login](#) \* ui

### 6.16.1 Constructor & Destructor Documentation

6.16.1.1 `login::login ( QWidget * parent = 0 )` `[explicit]`

6.16.1.2 `login::~~login ( )`

### 6.16.2 Member Function Documentation

6.16.2.1 `void login::customSlot4 ( )` `[private],[slot]`

6.16.2.2 `void login::on_login_2_clicked ( )` `[private],[slot]`

6.16.2.3 `void login::on_newuser_clicked ( )` `[private],[slot]`

6.16.2.4 `void login::on_quitapp_clicked ( )` `[private],[slot]`

### 6.16.3 Member Data Documentation

6.16.3.1 `Ui::login* login::ui` `[private]`

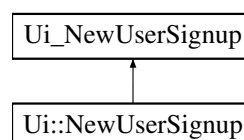
The documentation for this class was generated from the following files:

- [login.h](#)
- [login.cpp](#)

## 6.17 Ui::NewUserSignup Class Reference

```
#include <ui_newusersignup.h>
```

Inheritance diagram for Ui::NewUserSignup:



## Additional Inherited Members

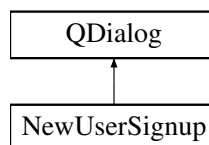
The documentation for this class was generated from the following file:

- [ui\\_newusersignup.h](#)

## 6.18 NewUserSignup Class Reference

```
#include <newusersignup.h>
```

Inheritance diagram for NewUserSignup:



### Public Member Functions

- [NewUserSignup](#) (QWidget \*parent=0)
- [~NewUserSignup](#) ()

### Private Slots

- void [on\\_toolButton\\_2\\_clicked](#) ()
- void [on\\_toolButton\\_clicked](#) ()
- void [customSlot](#) (const QString &)
- void [customSlot1](#) (const QString &)

### Private Attributes

- [Ui::NewUserSignup](#) \* ui

### 6.18.1 Constructor & Destructor Documentation

6.18.1.1 `NewUserSignup::NewUserSignup ( QWidget * parent = 0 )` [explicit]

6.18.1.2 `NewUserSignup::~~NewUserSignup ( )`

### 6.18.2 Member Function Documentation

6.18.2.1 `void NewUserSignup::customSlot ( const QString & x )` [private],[slot]

6.18.2.2 `void NewUserSignup::customSlot1 ( const QString & y )` [private],[slot]

6.18.2.3 `void NewUserSignup::on_toolButton_2_clicked ( )` [private],[slot]

6.18.2.4 `void NewUserSignup::on_toolButton_clicked ( )` [private],[slot]

### 6.18.3 Member Data Documentation



#### 6.18.3.1 Ui::NewUserSignup\* NewUserSignup::ui [private]

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

- [newusersignup.h](#)
- [newusersignup.cpp](#)

## 6.19 qt\_meta\_stringdata\_connecting\_t Struct Reference

### Public Attributes

- QByteArrayData [data](#) [3]
- char [stringdata](#) [33]

### 6.19.1 Member Data Documentation

6.19.1.1 QByteArrayData qt\_meta\_stringdata\_connecting\_t::data[3]

6.19.1.2 char qt\_meta\_stringdata\_connecting\_t::stringdata[33]

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

- [moc\\_connecting.cpp](#)

## 6.20 qt\_meta\_stringdata\_file\_t Struct Reference

### Public Attributes

- QByteArrayData [data](#) [16]
- char [stringdata](#) [324]

### 6.20.1 Member Data Documentation

6.20.1.1 QByteArrayData qt\_meta\_stringdata\_file\_t::data[16]

6.20.1.2 char qt\_meta\_stringdata\_file\_t::stringdata[324]

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

- [moc\\_file.cpp](#)

## 6.21 qt\_meta\_stringdata\_fileaccess\_t Struct Reference

### Public Attributes

- QByteArrayData [data](#) [6]
- char [stringdata](#) [78]

### 6.21.1 Member Data Documentation

6.21.1.1 QByteArrayData qt\_meta\_stringdata\_fileaccess\_t::data[6]

6.21.1.2 char qt\_meta\_stringdata\_fileaccess\_t::stringdata[78]

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

- [moc\\_fileaccess.cpp](#)

## 6.22 qt\_meta\_stringdata\_login\_t Struct Reference

### Public Attributes

- QByteArrayData [data](#) [6]
- char [stringdata](#) [77]

### 6.22.1 Member Data Documentation

6.22.1.1 QByteArrayData qt\_meta\_stringdata\_login\_t::data[6]

6.22.1.2 char qt\_meta\_stringdata\_login\_t::stringdata[77]

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

- [moc\\_login.cpp](#)

## 6.23 qt\_meta\_stringdata\_NewUserSignup\_t Struct Reference

### Public Attributes

- QByteArrayData [data](#) [6]
- char [stringdata](#) [85]

### 6.23.1 Member Data Documentation

6.23.1.1 QByteArrayData qt\_meta\_stringdata\_NewUserSignup\_t::data[6]

6.23.1.2 char qt\_meta\_stringdata\_NewUserSignup\_t::stringdata[85]

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

- [moc\\_newusersignup.cpp](#)

## 6.24 qt\_meta\_stringdata\_share\_t Struct Reference

### Public Attributes

- QByteArrayData [data](#) [4]
- char [stringdata](#) [54]

### 6.24.1 Member Data Documentation

6.24.1.1 QByteArrayData qt\_meta\_stringdata\_share\_t::data[4]

6.24.1.2 char qt\_meta\_stringdata\_share\_t::stringdata[54]

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

- [moc\\_share.cpp](#)

## 6.25 qt\_meta\_stringdata\_sharedwithothers\_t Struct Reference

### Public Attributes

- QByteArrayData [data](#) [3]
- char [stringdata](#) [41]

### 6.25.1 Member Data Documentation

6.25.1.1 QByteArrayData qt\_meta\_stringdata\_sharedwithothers\_t::data[3]

6.25.1.2 char qt\_meta\_stringdata\_sharedwithothers\_t::stringdata[41]

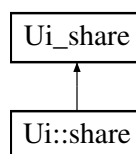
The documentation for this struct was generated from the following file:

- [moc\\_sharedwithothers.cpp](#)

## 6.26 Ui::share Class Reference

```
#include <ui_share.h>
```

Inheritance diagram for Ui::share:



### Additional Inherited Members

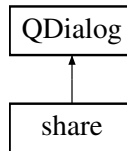
The documentation for this class was generated from the following file:

- [ui\\_share.h](#)

## 6.27 share Class Reference

```
#include <share.h>
```

Inheritance diagram for share:



## Public Member Functions

- [share](#) (QWidget \*parent=0)
- [~share](#) ()

## Private Slots

- void [on\\_pushButton\\_clicked](#) ()
- void [on\\_pushButton\\_2\\_clicked](#) ()

## Private Attributes

- [Ui::share](#) \* ui

## 6.27.1 Constructor & Destructor Documentation

6.27.1.1 `share::share ( QWidget * parent = 0 ) [explicit]`

6.27.1.2 `share::~~share ( )`

## 6.27.2 Member Function Documentation

6.27.2.1 `void share::on_pushButton_2_clicked ( ) [private],[slot]`

6.27.2.2 `void share::on_pushButton_clicked ( ) [private],[slot]`

## 6.27.3 Member Data Documentation

6.27.3.1 `Ui::share* share::ui [private]`

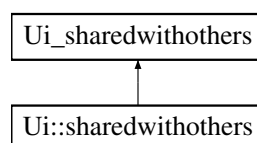
The documentation for this class was generated from the following files:

- [share.h](#)
- [share.cpp](#)

## 6.28 Ui::sharedwithothers Class Reference

```
#include <ui_sharedwithothers.h>
```

Inheritance diagram for Ui::sharedwithothers:



## Additional Inherited Members

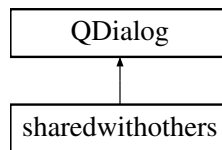
The documentation for this class was generated from the following file:

- [ui\\_sharedwithothers.h](#)

## 6.29 sharedwithothers Class Reference

```
#include <sharedwithothers.h>
```

Inheritance diagram for sharedwithothers:



### Public Member Functions

- [sharedwithothers](#) (QWidget \*parent=0)
- [~sharedwithothers](#) ()

### Private Slots

- void [on\\_backbutton\\_clicked](#) ()

### Private Attributes

- [Ui::sharedwithothers](#) \* ui

### 6.29.1 Constructor & Destructor Documentation

6.29.1.1 `sharedwithothers::sharedwithothers ( QWidget * parent = 0 ) [explicit]`

6.29.1.2 `sharedwithothers::~~sharedwithothers ( )`

### 6.29.2 Member Function Documentation

6.29.2.1 `void sharedwithothers::on_backbutton_clicked ( ) [private],[slot]`

### 6.29.3 Member Data Documentation

6.29.3.1 `Ui::sharedwithothers* sharedwithothers::ui [private]`

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

- [sharedwithothers.h](#)
- [sharedwithothers.cpp](#)

## 6.30 Sharing Struct Reference

```
#include <FileReceiving.h>
```

### Public Attributes

- std::string [FilePath](#)
- int [ShareType](#)

### 6.30.1 Member Data Documentation

6.30.1.1 std::string Sharing::FilePath

6.30.1.2 int Sharing::ShareType

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

- [FileReceiving.h](#)

## 6.31 SharingGiver Struct Reference

```
#include <FileSharing.h>
```

### Public Attributes

- std::string [FilePath](#)
- std::string [UserName](#)
- int [Permissions](#)

### 6.31.1 Member Data Documentation

6.31.1.1 std::string SharingGiver::FilePath

6.31.1.2 int SharingGiver::Permissions

6.31.1.3 std::string SharingGiver::UserName

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

- [FileSharing.h](#)

## 6.32 SyncList Struct Reference

```
#include <SyncManager.h>
```

### Public Attributes

- std::vector< std::string > [ListOfFiles](#)

### 6.32.1 Member Data Documentation

#### 6.32.1.1 `std::vector<std::string>` SyncList::ListOfFiles

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

- [SyncManager.h](#)

## 6.33 SyncManager Class Reference

```
#include <SyncManager.h>
```

### Public Member Functions

- [SyncManager](#) ()
- [SyncManager](#) (std::string)
- [FileChanges](#) GetMainFiles ()
- [FileReceiving](#) GetReceivingFiles ()
- [FileSharing](#) GetGivingFiles ()
- [SyncList](#) GetFilesToSync ()
- std::string GetUsername ()
- [FileHistory](#) GetCurrentClientHistory ()
- void SetUsername (std::string)
- void SetMainFiles ([FileChanges](#))
- void SetReceivingFiles ([FileReceiving](#))
- void SetGivingFiles ([FileSharing](#))
- void SetFilesToSync ([SyncList](#))
- void AddFileToSync (std::string)
- void RemoveFileFromSync (std::string)
- void RefreshClientFolder ()
- void LoadSyncList (std::string)
- void LoadReceiving (std::string)
- void LoadGiving (std::string)
- void LoadCIServerMap (std::string)
- void LoadSeClientMap (std::string)
- void LoadCIHistory (std::string)
- void LoadSeHistory (std::string)
- void StoreSyncList (std::string)
- void StoreReceiving (std::string)
- void StoreGiving (std::string)
- void StoreCIServerMap (std::string)
- void StoreSeClientMap (std::string)
- void StoreCIHistory (std::string)
- void StoreSeHistory (std::string)
- void LoadFromDiskDB (std::string)
- void StoreToDiskDB (std::string)
- std::string GetClientMappingForFile (std::string)
- std::string GetServerMappingForFile (std::string)
- void RemoveFromServerBase (std::string)
- void RemoveFromClientBase (std::string)
- std::vector< [Instruction](#) > GetSyncingInstructions ()
- void SaveInstructionVector (std::vector< [Instruction](#) >, std::string)
- std::vector< [Instruction](#) > LoadInstructionVector (std::string)
- void AddFileToLocalFiles (std::string, std::string)
- void UpdateSyncTimes ()
- void AddFileToLinking (std::string, std::string)

## Private Attributes

- `std::string Username`
- `SyncList FilesToSync`
- `FileChanges MainFiles`
- `FileReceiving ReceivingFiles`
- `FileSharing GivingFiles`

## 6.33.1 Constructor & Destructor Documentation

6.33.1.1 `SyncManager::SyncManager ( )`

6.33.1.2 `SyncManager::SyncManager ( std::string n1 )`

## 6.33.2 Member Function Documentation

6.33.2.1 `void SyncManager::AddFileToLinking ( std::string cl, std::string se )`

6.33.2.2 `void SyncManager::AddFileToLocalFiles ( std::string locpath, std::string gpath )`

6.33.2.3 `void SyncManager::AddFileToSync ( std::string nfile )`

6.33.2.4 `std::string SyncManager::GetClientMappingForFile ( std::string serverfilename )`

6.33.2.5 `FileHistory SyncManager::GetCurrentClientHistory ( )`

6.33.2.6 `SyncList SyncManager::GetFilesToSync ( )`

6.33.2.7 `FileSharing SyncManager::GetGivingFiles ( )`

6.33.2.8 `FileChanges SyncManager::GetMainFiles ( )`

6.33.2.9 `FileReceiving SyncManager::GetReceivingFiles ( )`

6.33.2.10 `std::string SyncManager::GetServerMappingForFile ( std::string serverfilename )`

6.33.2.11 `std::vector< Instruction > SyncManager::GetSyncingInstructions ( )`

6.33.2.12 `std::string SyncManager::GetUsername ( )`

6.33.2.13 `void SyncManager::LoadCIHistory ( std::string location )`

6.33.2.14 `void SyncManager::LoadCIServerMap ( std::string location )`

6.33.2.15 `void SyncManager::LoadFromDiskDB ( std::string location )`

6.33.2.16 `void SyncManager::LoadGiving ( std::string location )`

6.33.2.17 `std::vector< Instruction > SyncManager::LoadInstructionVector ( std::string location )`

6.33.2.18 `void SyncManager::LoadReceiving ( std::string location )`

6.33.2.19 `void SyncManager::LoadSeClientMap ( std::string location )`

6.33.2.20 `void SyncManager::LoadSeHistory ( std::string location )`



- 6.33.2.21 void SyncManager::LoadSyncList ( std::string *location* )
- 6.33.2.22 void SyncManager::RefreshClientFolder ( )
- 6.33.2.23 void SyncManager::RemoveFileFromSync ( std::string *nfile* )
- 6.33.2.24 void SyncManager::RemoveFromClientBase ( std::string *clientfilename* )
- 6.33.2.25 void SyncManager::RemoveFromServerBase ( std::string *serverfilename* )
- 6.33.2.26 void SyncManager::SaveInstructionVector ( std::vector< Instruction > *InstructionVector*, std::string *location* )
- 6.33.2.27 void SyncManager::SetFilesToSync ( SyncList *slist* )
- 6.33.2.28 void SyncManager::SetGivingFiles ( FileSharing *files* )
- 6.33.2.29 void SyncManager::SetMainFiles ( FileChanges *Newf* )
- 6.33.2.30 void SyncManager::SetReceivingFiles ( FileReceiving *Recf* )
- 6.33.2.31 void SyncManager::SetUsername ( std::string *n* )
- 6.33.2.32 void SyncManager::StoreCIHistory ( std::string *location* )
- 6.33.2.33 void SyncManager::StoreCIServerMap ( std::string *location* )
- 6.33.2.34 void SyncManager::StoreGiving ( std::string *location* )
- 6.33.2.35 void SyncManager::StoreReceiving ( std::string *location* )
- 6.33.2.36 void SyncManager::StoreSeClientMap ( std::string *location* )
- 6.33.2.37 void SyncManager::StoreSeHistory ( std::string *location* )
- 6.33.2.38 void SyncManager::StoreSyncList ( std::string *location* )
- 6.33.2.39 void SyncManager::StoreToDiskDB ( std::string *location* )
- 6.33.2.40 void SyncManager::UpdateSyncTimes ( )

### 6.33.3 Member Data Documentation

- 6.33.3.1 SyncList SyncManager::FilesToSync [private]
- 6.33.3.2 FileSharing SyncManager::GivingFiles [private]
- 6.33.3.3 FileChanges SyncManager::MainFiles [private]
- 6.33.3.4 FileReceiving SyncManager::ReceivingFiles [private]
- 6.33.3.5 std::string SyncManager::Username [private]

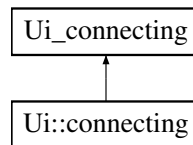
The documentation for this class was generated from the following files:

- [SyncManager.h](#)
- [SyncManager.cpp](#)

## 6.34 Ui\_connecting Class Reference

```
#include <ui_connecting.h>
```

Inheritance diagram for Ui\_connecting:



### Public Member Functions

- void [setupUi](#) (QDialog \*[connecting](#))
- void [retranslateUi](#) (QDialog \*[connecting](#))

### Public Attributes

- QLabel \* [label](#)
- QPushButton \* [okbutton](#)
- QLabel \* [label\\_2](#)
- QLabel \* [label\\_3](#)

### 6.34.1 Member Function Documentation

6.34.1.1 void [Ui\\_connecting::retranslateUi](#) ( QDialog \* [connecting](#) ) [[inline](#)]

6.34.1.2 void [Ui\\_connecting::setupUi](#) ( QDialog \* [connecting](#) ) [[inline](#)]

### 6.34.2 Member Data Documentation

6.34.2.1 QLabel\* [Ui\\_connecting::label](#)

6.34.2.2 QLabel\* [Ui\\_connecting::label\\_2](#)

6.34.2.3 QLabel\* [Ui\\_connecting::label\\_3](#)

6.34.2.4 QPushButton\* [Ui\\_connecting::okbutton](#)

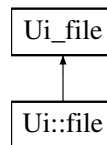
The documentation for this class was generated from the following file:

- [ui\\_connecting.h](#)

## 6.35 Ui\_file Class Reference

```
#include <ui_file.h>
```

Inheritance diagram for Ui\_file:



## Public Member Functions

- void [setupUi](#) (QDialog \*file)
- void [retranslateUi](#) (QDialog \*file)

## Public Attributes

- QTreeView \* [treeView](#)
- QWidget \* [layoutWidget](#)
- QHBoxLayout \* [horizontalLayout\\_2](#)
- QVBoxLayout \* [verticalLayout\\_4](#)
- QPushButton \* [GetFromDrive](#)
- QPushButton \* [DeleteFromDrive](#)
- QVBoxLayout \* [verticalLayout\\_5](#)
- QPushButton \* [OpenFileInDrive](#)
- QPushButton \* [GoingBackInDrive](#)
- QWidget \* [layoutWidget1](#)
- QVBoxLayout \* [verticalLayout\\_7](#)
- QHBoxLayout \* [horizontalLayout](#)
- QVBoxLayout \* [verticalLayout\\_3](#)
- QPushButton \* [openfile](#)
- QPushButton \* [deletefile](#)
- QVBoxLayout \* [verticalLayout](#)
- QPushButton \* [movetodrive](#)
- QPushButton \* [share](#)
- QVBoxLayout \* [verticalLayout\\_2](#)
- QPushButton \* [AddFileInClientSide](#)
- QPushButton \* [sync](#)
- QLabel \* [filesonclientside](#)
- QLabel \* [label\\_2](#)
- QFrame \* [line](#)
- QFrame \* [line\\_2](#)
- QLabel \* [label\\_3](#)
- QListWidget \* [listWidget](#)
- QLabel \* [label](#)
- QWidget \* [layoutWidget2](#)
- QHBoxLayout \* [horizontalLayout\\_3](#)
- QPushButton \* [logout](#)
- QPushButton \* [changepassword](#)
- QListWidget \* [sharedwithme](#)
- QLabel \* [sharedwithmetext](#)
- QWidget \* [layoutWidget3](#)
- QHBoxLayout \* [horizontalLayout\\_4](#)
- QPushButton \* [ViewSharedFiles](#)

### 6.35.1 Member Function Documentation

6.35.1.1 void Ui\_file::retranslateUi ( QDialog \* *file* ) [inline]

6.35.1.2 void Ui\_file::setupUi ( QDialog \* *file* ) [inline]

### 6.35.2 Member Data Documentation

6.35.2.1 QPushButton\* Ui\_file::AddFileInClientSide

6.35.2.2 QPushButton\* Ui\_file::changepassword

6.35.2.3 QPushButton\* Ui\_file::deletefile

6.35.2.4 QPushButton\* Ui\_file::DeleteFromDrive

6.35.2.5 QLabel\* Ui\_file::filesonclientside

6.35.2.6 QPushButton\* Ui\_file::GetFromDrive

6.35.2.7 QPushButton\* Ui\_file::GoingBackInDrive

6.35.2.8 QHBoxLayout\* Ui\_file::horizontalLayout

6.35.2.9 QHBoxLayout\* Ui\_file::horizontalLayout\_2

6.35.2.10 QHBoxLayout\* Ui\_file::horizontalLayout\_3

6.35.2.11 QHBoxLayout\* Ui\_file::horizontalLayout\_4

6.35.2.12 QLabel\* Ui\_file::label

6.35.2.13 QLabel\* Ui\_file::label\_2

6.35.2.14 QLabel\* Ui\_file::label\_3

6.35.2.15 QWidget\* Ui\_file::layoutWidget

6.35.2.16 QWidget\* Ui\_file::layoutWidget1

6.35.2.17 QWidget\* Ui\_file::layoutWidget2

6.35.2.18 QWidget\* Ui\_file::layoutWidget3

6.35.2.19 QFrame\* Ui\_file::line

6.35.2.20 QFrame\* Ui\_file::line\_2

6.35.2.21 QListWidget\* Ui\_file::listWidget

6.35.2.22 QPushButton\* Ui\_file::logout

6.35.2.23 QPushButton\* Ui\_file::movetodrive

6.35.2.24 QPushButton\* Ui\_file::openfile

6.35.2.25 QPushButton\* Ui\_file::OpenFileInDrive

6.35.2.26 QPushButton\* Ui\_file::share

6.35.2.27 QListWidget\* Ui\_file::sharedwithme

6.35.2.28 QLabel\* Ui\_file::sharedwithmetext

6.35.2.29 QPushButton\* Ui\_file::sync

6.35.2.30 QTreeView\* Ui\_file::treeView

6.35.2.31 QVBoxLayout\* Ui\_file::verticalLayout

6.35.2.32 QVBoxLayout\* Ui\_file::verticalLayout\_2

6.35.2.33 QVBoxLayout\* Ui\_file::verticalLayout\_3

6.35.2.34 QVBoxLayout\* Ui\_file::verticalLayout\_4

6.35.2.35 QVBoxLayout\* Ui\_file::verticalLayout\_5

6.35.2.36 QVBoxLayout\* Ui\_file::verticalLayout\_7

6.35.2.37 QPushButton\* Ui\_file::ViewSharedFiles

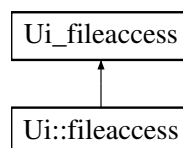
The documentation for this class was generated from the following file:

- [ui\\_file.h](#)

## 6.36 Ui\_fileaccess Class Reference

```
#include <ui_fileaccess.h>
```

Inheritance diagram for Ui\_fileaccess:



### Public Member Functions

- void [setupUi](#) (QDialog \*[fileaccess](#))
- void [retranslateUi](#) (QDialog \*[fileaccess](#))

### Public Attributes

- QLineEdit \* [oldpassword](#)
- QLineEdit \* [newpassword](#)
- QLineEdit \* [confirmpassword](#)
- QLabel \* [matching](#)

- QLabel \* [passlength](#)
- QWidget \* [widget](#)
- QVBoxLayout \* [verticalLayout](#)
- QLabel \* [label](#)
- QLabel \* [label\\_2](#)
- QLabel \* [label\\_3](#)
- QWidget \* [widget1](#)
- QHBoxLayout \* [horizontalLayout](#)
- QPushButton \* [applychange](#)
- QPushButton \* [cancel](#)

### 6.36.1 Member Function Documentation

6.36.1.1 void `Ui_fileaccess::retranslateUi ( QDialog * fileaccess )` [`inline`]

6.36.1.2 void `Ui_fileaccess::setupUi ( QDialog * fileaccess )` [`inline`]

### 6.36.2 Member Data Documentation

6.36.2.1 QPushButton\* `Ui_fileaccess::applychange`

6.36.2.2 QPushButton\* `Ui_fileaccess::cancel`

6.36.2.3 QLineEdit\* `Ui_fileaccess::confirmpassword`

6.36.2.4 QHBoxLayout\* `Ui_fileaccess::horizontalLayout`

6.36.2.5 QLabel\* `Ui_fileaccess::label`

6.36.2.6 QLabel\* `Ui_fileaccess::label_2`

6.36.2.7 QLabel\* `Ui_fileaccess::label_3`

6.36.2.8 QLabel\* `Ui_fileaccess::matching`

6.36.2.9 QLineEdit\* `Ui_fileaccess::newpassword`

6.36.2.10 QLineEdit\* `Ui_fileaccess::oldpassword`

6.36.2.11 QLabel\* `Ui_fileaccess::passlength`

6.36.2.12 QVBoxLayout\* `Ui_fileaccess::verticalLayout`

6.36.2.13 QWidget\* `Ui_fileaccess::widget`

6.36.2.14 QWidget\* `Ui_fileaccess::widget1`

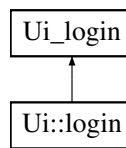
The documentation for this class was generated from the following file:

- [ui\\_fileaccess.h](#)

## 6.37 Ui\_login Class Reference

```
#include <ui_login.h>
```

Inheritance diagram for Ui\_login:



## Public Member Functions

- void [setupUi](#) (QMainWindow \*[login](#))
- void [retranslateUi](#) (QMainWindow \*[login](#))

## Public Attributes

- QWidget \* [centralWidget](#)
- QLabel \* [label](#)
- QLineEdit \* [usernameText](#)
- QLabel \* [label\\_2](#)
- QLineEdit \* [passwordText](#)
- QLabel \* [label\\_3](#)
- QToolButton \* [login\\_2](#)
- QToolButton \* [quitApp](#)
- QToolButton \* [newUser](#)
- QFrame \* [frame](#)
- QLabel \* [pic](#)
- QLabel \* [label\\_4](#)
- QToolBar \* [mainToolBar](#)

### 6.37.1 Member Function Documentation

6.37.1.1 void [Ui\\_login::retranslateUi](#) ( QMainWindow \* [login](#) ) [inline]

6.37.1.2 void [Ui\\_login::setupUi](#) ( QMainWindow \* [login](#) ) [inline]

### 6.37.2 Member Data Documentation

6.37.2.1 QWidget\* [Ui\\_login::centralWidget](#)

6.37.2.2 QFrame\* [Ui\\_login::frame](#)

6.37.2.3 QLabel\* [Ui\\_login::label](#)

6.37.2.4 QLabel\* [Ui\\_login::label\\_2](#)

6.37.2.5 QLabel\* [Ui\\_login::label\\_3](#)

6.37.2.6 QLabel\* [Ui\\_login::label\\_4](#)

6.37.2.7 QToolButton\* [Ui\\_login::login\\_2](#)

6.37.2.8 QToolBar\* [Ui\\_login::mainToolBar](#)

6.37.2.9 `QToolButton* Ui_login::newuser`

6.37.2.10 `QLineEdit* Ui_login::passwordtext`

6.37.2.11 `QLabel* Ui_login::pic`

6.37.2.12 `QToolButton* Ui_login::quitapp`

6.37.2.13 `QLineEdit* Ui_login::username`

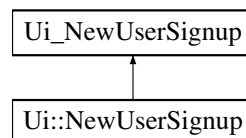
The documentation for this class was generated from the following file:

- [ui\\_login.h](#)

## 6.38 Ui\_NewUserSignup Class Reference

```
#include <ui_newusersignup.h>
```

Inheritance diagram for Ui\_NewUserSignup:



### Public Member Functions

- void [setupUi](#) (QDialog \*[NewUserSignup](#))
- void [retranslateUi](#) (QDialog \*[NewUserSignup](#))

### Public Attributes

- QToolButton \* [toolButton](#)
- QLabel \* [label\\_5](#)
- QToolButton \* [toolButton\\_2](#)
- QLabel \* [label\\_6](#)
- QLabel \* [label\\_7](#)
- QWidget \* [layoutWidget](#)
- QVBoxLayout \* [verticalLayout](#)
- QLineEdit \* [username](#)
- QLineEdit \* [password](#)
- QLineEdit \* [confirmpassword](#)
- QLabel \* [label\\_3](#)
- QLabel \* [label\\_4](#)
- QLabel \* [label](#)

### 6.38.1 Member Function Documentation

6.38.1.1 void `Ui_NewUserSignup::retranslateUi ( QDialog * NewUserSignup )` `[inline]`

6.38.1.2 void `Ui_NewUserSignup::setupUi ( QDialog * NewUserSignup )` `[inline]`



## 6.38.2 Member Data Documentation

6.38.2.1 `QLineEdit*` `Ui_NewUserSignup::confirmpasswordtext`

6.38.2.2 `QLabel*` `Ui_NewUserSignup::label`

6.38.2.3 `QLabel*` `Ui_NewUserSignup::label_3`

6.38.2.4 `QLabel*` `Ui_NewUserSignup::label_4`

6.38.2.5 `QLabel*` `Ui_NewUserSignup::label_5`

6.38.2.6 `QLabel*` `Ui_NewUserSignup::label_6`

6.38.2.7 `QLabel*` `Ui_NewUserSignup::label_7`

6.38.2.8 `QWidget*` `Ui_NewUserSignup::layoutWidget`

6.38.2.9 `QLineEdit*` `Ui_NewUserSignup::passwordtext`

6.38.2.10 `QToolButton*` `Ui_NewUserSignup::toolButton`

6.38.2.11 `QToolButton*` `Ui_NewUserSignup::toolButton_2`

6.38.2.12 `QLineEdit*` `Ui_NewUserSignup::usernameText`

6.38.2.13 `QVBoxLayout*` `Ui_NewUserSignup::verticalLayout`

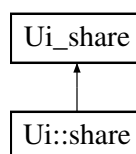
The documentation for this class was generated from the following file:

- [ui\\_newusersignup.h](#)

## 6.39 Ui\_share Class Reference

```
#include <ui_share.h>
```

Inheritance diagram for `Ui_share`:



### Public Member Functions

- void [setupUi](#) (`QDialog *`[share](#))
- void [retranslateUi](#) (`QDialog *`[share](#))

### Public Attributes

- `QLabel *` [label](#)
- `QLineEdit *` [lineEdit](#)
- `QLabel *` [label\\_2](#)

- `QRadioButton * radioButton`
- `QRadioButton * radioButton_2`
- `QPushButton * pushButton`
- `QPushButton * pushButton_2`
- `QFrame * line`

### 6.39.1 Member Function Documentation

6.39.1.1 `void Ui_share::retranslateUi ( QDialog * share )` [inline]

6.39.1.2 `void Ui_share::setupUi ( QDialog * share )` [inline]

### 6.39.2 Member Data Documentation

6.39.2.1 `QLabel* Ui_share::label`

6.39.2.2 `QLabel* Ui_share::label_2`

6.39.2.3 `QFrame* Ui_share::line`

6.39.2.4 `QLineEdit* Ui_share::lineEdit`

6.39.2.5 `QPushButton* Ui_share::pushButton`

6.39.2.6 `QPushButton* Ui_share::pushButton_2`

6.39.2.7 `QRadioButton* Ui_share::radioButton`

6.39.2.8 `QRadioButton* Ui_share::radioButton_2`

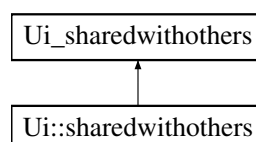
The documentation for this class was generated from the following file:

- [ui\\_share.h](#)

## 6.40 Ui\_sharedwithothers Class Reference

```
#include <ui_sharedwithothers.h>
```

Inheritance diagram for `Ui_sharedwithothers`:



### Public Member Functions

- `void setupUi (QDialog *sharedwithothers)`
- `void retranslateUi (QDialog *sharedwithothers)`

## Public Attributes

- QPushButton \* [backbutton](#)
- QWidget \* [widget](#)
- QVBoxLayout \* [verticalLayout](#)
- QLabel \* [label](#)
- QListWidget \* [sharedfileslist](#)

## 6.40.1 Member Function Documentation

6.40.1.1 void [Ui\\_sharedwithothers::retranslateUi](#) ( QDialog \* *sharedwithothers* ) [\[inline\]](#)

6.40.1.2 void [Ui\\_sharedwithothers::setupUi](#) ( QDialog \* *sharedwithothers* ) [\[inline\]](#)

## 6.40.2 Member Data Documentation

6.40.2.1 QPushButton\* [Ui\\_sharedwithothers::backbutton](#)

6.40.2.2 QLabel\* [Ui\\_sharedwithothers::label](#)

6.40.2.3 QListWidget\* [Ui\\_sharedwithothers::sharedfileslist](#)

6.40.2.4 QVBoxLayout\* [Ui\\_sharedwithothers::verticalLayout](#)

6.40.2.5 QWidget\* [Ui\\_sharedwithothers::widget](#)

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

- [ui\\_sharedwithothers.h](#)

## 6.41 UserFiles Class Reference

```
#include <UserFiles.h>
```

## Public Member Functions

- [UserFiles](#) ()
- std::unordered\_map< std::string, std::string > [GetClientServerLink](#) ()
- std::unordered\_map< std::string, std::string > [GetServerClientLink](#) ()
- int [GetNumberOfFilesClient](#) ()
- int [GetNumberOfFilesServer](#) ()
- bool [CheckExistsClientServer](#) (std::string)
- bool [CheckExistsServerClient](#) (std::string)
- std::string [GetClientFileName](#) (std::string)
- std::string [GetServerFileName](#) (std::string)
- void [UpdateClientServer](#) (std::string, std::string)
- void [UpdateServerClient](#) (std::string, std::string)
- void [AddNew](#) (std::string, std::string)
- void [AddNewClientServer](#) (std::string, std::string)
- void [AddNewServerClient](#) (std::string, std::string)
- void [LoadClientServerFile](#) (std::string)

- void [LoadServerClientFile](#) (std::string)
- void [StoreClientServerFile](#) (std::string)
- void [StoreServerClientFile](#) (std::string)

### Private Attributes

- std::unordered\_map  
  < std::string, std::string > [ClientServer](#)
- std::unordered\_map  
  < std::string, std::string > [ServerClient](#)

## 6.41.1 Constructor & Destructor Documentation

6.41.1.1 [UserFiles::UserFiles](#) ( )

## 6.41.2 Member Function Documentation

6.41.2.1 void [UserFiles::AddNew](#) ( std::string *clfile*, std::string *serfile* )

6.41.2.2 void [UserFiles::AddNewClientServer](#) ( std::string *clfile*, std::string *serfile* )

6.41.2.3 void [UserFiles::AddNewServerClient](#) ( std::string *serfile*, std::string *clfile* )

6.41.2.4 bool [UserFiles::CheckExistsClientServer](#) ( std::string *fname* )

6.41.2.5 bool [UserFiles::CheckExistsServerClient](#) ( std::string *fname* )

6.41.2.6 std::string [UserFiles::GetClientFileName](#) ( std::string *clf* )

6.41.2.7 std::unordered\_map< std::string, std::string > [UserFiles::GetClientServerLink](#) ( )

6.41.2.8 int [UserFiles::GetNumberOfFilesClient](#) ( )

6.41.2.9 int [UserFiles::GetNumberOfFilesServer](#) ( )

6.41.2.10 std::unordered\_map< std::string, std::string > [UserFiles::GetServerClientLink](#) ( )

6.41.2.11 std::string [UserFiles::GetServerFileName](#) ( std::string *clf* )

6.41.2.12 void [UserFiles::LoadClientServerFile](#) ( std::string *location* )

6.41.2.13 void [UserFiles::LoadServerClientFile](#) ( std::string *location* )

6.41.2.14 void [UserFiles::StoreClientServerFile](#) ( std::string *location* )

6.41.2.15 void [UserFiles::StoreServerClientFile](#) ( std::string *location* )

6.41.2.16 void [UserFiles::UpdateClientServer](#) ( std::string *clfile*, std::string *serfile* )

6.41.2.17 void [UserFiles::UpdateServerClient](#) ( std::string *serfile*, std::string *clfile* )

## 6.41.3 Member Data Documentation

6.41.3.1 std::unordered\_map<std::string, std::string> [UserFiles::ClientServer](#) [private]

6.41.3.2 `std::unordered_map<std::string, std::string> UserFiles::ServerClient` [private]

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

- [UserFiles.h](#)
- [UserFiles.cpp](#)



## Chapter 7

# File Documentation

### 7.1 ClientCombined.cpp File Reference

```
#include "ClientCombined.h"
#include <cstdlib>
#include "filesnserver.h"
#include <stdlib.h>
```

#### Macros

- #define [SIZE](#) 10000
- #define [BUFFSIZE](#) 10000000

#### Functions

- void [Display](#) (std::vector< [Data](#) > v)
- std::string [GetUserName](#) (std::string name)
- std::vector< [Data](#) > [GetDataFiles](#) (std::string location)
- int [GetData](#) (std::vector< std::string > data)
- SSL\_CTX \* [InitSSL](#) (void)
- void [ShowCerts](#) (SSL \*ssl)
- std::string [ToStr](#) (char \*arr)
- std::string [FileName](#) (std::string filename)
- char \* [ToArr](#) (std::string str)
- std::string [ExecuteInstruction](#) ([Instruction](#) ins)
- void [CreateNewUser](#) (std::string usn, std::string pwd)
- bool [UserLogin](#) (std::string usn, std::string pwd)
- bool [CheckUserExists](#) (std::string username)
- void [PerformSync](#) ([SyncManager](#) UserSyncManager)
- void [DeleteFileClient](#) ([SyncManager](#) UserSyncManager, std::string filenameclient)
- void [DeleteFileServer](#) ([SyncManager](#) UserSyncManager, std::string filenameserver)
- void [GetFileFromServer](#) ([SyncManager](#) UserSyncManager, std::string filename)
- void [GetSharedFileFromServer](#) (std::string serverfname)
- int [GetShareType](#) ([SyncManager](#) UserSyncManager, std::string sefname)
- bool [ShareSendFileToServer](#) (std::string clfname)
- void [KeepOnlineOnly](#) ([SyncManager](#) UserSyncManager, std::string filename)
- void [ShareFile](#) (std::string username, std::string filepath, int perms)
- void [RemoveReceiving](#) (std::string filepath)
- int [clientmain](#) (int argc, char \*argv[])

## Variables

- `std::string inst`
- `std::string datafield1`
- `std::string datafield2`
- `std::string datafield3`
- `std::string reversedata1`
- `std::string reversedata2`
- `std::string reversedata3`
- `bool InstructionStarted`
- `bool InstructionCompleted`
- `SyncManager MergedSyncManager`
- `bool ifconnected`
- `std::vector< Data > ReverseDataFiles`
- `int sockID`
- `SSL * ssl`
- `struct addrinfo * host_info_list`

### 7.1.1 Macro Definition Documentation

7.1.1.1 `#define BUFFSIZE 10000000`

7.1.1.2 `#define SIZE 10000`

### 7.1.2 Function Documentation

7.1.2.1 `bool CheckUserExists ( std::string username )`

7.1.2.2 `int clientmain ( int argc, char * argv[] )`

7.1.2.3 `void CreateNewUser ( std::string usn, std::string pwd )`

7.1.2.4 `void DeleteFileClient ( SyncManager UserSyncManager, std::string filenameclient )`

7.1.2.5 `void DeleteFileServer ( SyncManager UserSyncManager, std::string filenameeserver )`

7.1.2.6 `void Display ( std::vector< Data > v )`

7.1.2.7 `std::string ExecuteInstruction ( Instruction ins )`

7.1.2.8 `std::string FileName ( std::string filename )`

7.1.2.9 `int GetData ( std::vector< std::string > data )`

7.1.2.10 `std::vector<Data> GetDataFiles ( std::string location )`

7.1.2.11 `void GetFileFromServer ( SyncManager UserSyncManager, std::string filename )`

7.1.2.12 `void GetSharedFileFromServer ( std::string serverfname )`

7.1.2.13 `int GetShareType ( SyncManager UserSyncManager, std::string sefname )`

7.1.2.14 `std::string GetUserName ( std::string name )`

7.1.2.15 `SSL_CTX* InitSSL ( void )`



7.1.2.16 void KeepOnlineOnly ( SyncManager UserSyncManager, std::string filename )

7.1.2.17 void PerformSync ( SyncManager UserSyncManager )

7.1.2.18 void RemoveReceiving ( std::string filepath )

7.1.2.19 void ShareFile ( std::string username, std::string filepath, int perms )

7.1.2.20 bool ShareSendFileToServer ( std::string clfname )

7.1.2.21 void ShowCerts ( SSL \* ssl )

7.1.2.22 char\* ToArr ( std::string str )

7.1.2.23 std::string ToStr ( char \* arr )

7.1.2.24 bool UserLogin ( std::string usn, std::string pwd )

### 7.1.3 Variable Documentation

7.1.3.1 std::string datafield1

7.1.3.2 std::string datafield2

7.1.3.3 std::string datafield3

7.1.3.4 struct addrinfo\* host\_info\_list

7.1.3.5 bool ifconnected

7.1.3.6 std::string inst

7.1.3.7 bool InstructionCompleted

7.1.3.8 bool InstructionStarted

7.1.3.9 SyncManager MergedSyncManager

7.1.3.10 std::string reversedata1

7.1.3.11 std::string reversedata2

7.1.3.12 std::string reversedata3

7.1.3.13 std::vector<Data> ReverseDataFiles

7.1.3.14 int sockID

7.1.3.15 SSL\* ssl

## 7.2 ClientCombined.h File Reference

```
#include "SyncManager.h"
#include <iostream>
#include <cstring>
#include <sys/socket.h>
#include <netdb.h>
#include <unistd.h>
#include <sys/stat.h>
#include <stdio.h>
#include <stdlib.h>
#include <fstream>
#include <fcntl.h>
#include <vector>
#include <boost/filesystem/operations.hpp>
#include <boost/filesystem.hpp>
#include <openssl/ssl.h>
#include <openssl/err.h>
```

### Functions

- `SSL_CTX * IniTSSL (void)`
- `void ShowCerts (SSL *)`
- `std::string ToStr (char *)`
- `std::string FileName (std::string)`
- `char * ToArr (std::string)`
- `std::string ExecuteInstruction (Instruction)`
- `void CreateNewUser (std::string, std::string)`
- `bool UserLogin (std::string, std::string)`
- `bool CheckUserExists (std::string)`
- `void PerformSync (SyncManager)`
- `void DeleteFileServer (SyncManager, std::string)`
- `void GetFileFromServer (SyncManager, std::string)`
- `void DeleteFileClient (SyncManager, std::string)`
- `void KeepOnlineOnly (SyncManager, std::string)`
- `int clientmain (int argc, char *argv[])`

### 7.2.1 Function Documentation

7.2.1.1 `bool CheckUserExists ( std::string )`

7.2.1.2 `int clientmain ( int argc, char * argv[] )`

7.2.1.3 `void CreateNewUser ( std::string , std::string )`

7.2.1.4 `void DeleteFileClient ( SyncManager , std::string )`

7.2.1.5 `void DeleteFileServer ( SyncManager , std::string )`

7.2.1.6 `std::string ExecuteInstruction ( Instruction )`

7.2.1.7 `std::string FileName ( std::string )`

7.2.1.8 void GetFileFromServer ( SyncManager , std::string )

7.2.1.9 SSL\_CTX\* InitSSL ( void )

7.2.1.10 void KeepOnlineOnly ( SyncManager , std::string )

7.2.1.11 void PerformSync ( SyncManager )

7.2.1.12 void ShowCerts ( SSL \* )

7.2.1.13 char\* ToArr ( std::string )

7.2.1.14 std::string ToStr ( char \* )

7.2.1.15 bool UserLogin ( std::string , std::string )

## 7.3 connecting.cpp File Reference

```
#include "connecting.h"
#include "file.h"
#include "ui_connecting.h"
#include <cstdlib>
#include <unistd.h>
#include <QMessageBox>
#include <iostream>
```

### Variables

- bool [connection\\_complete](#) = true

### 7.3.1 Variable Documentation

7.3.1.1 bool [connection\\_complete](#) = true

## 7.4 connecting.h File Reference

```
#include <QDialog>
```

### Classes

- class [connecting](#)

### Namespaces

- [Ui](#)

## 7.5 file.cpp File Reference

```
#include "file.h"
#include "ui_file.h"
#include <QDirModel>
#include <QTreeView>
#include <QInputDialog>
#include "share.h"
#include <QFileDialog>
#include <QTableWidgetItem>
#include <iostream>
#include <vector>
#include <string>
#include "filesnserver.h"
#include <stack>
#include "fileaccess.h"
#include <QMessageBox>
#include "sharedwithothers.h"
#include "SyncManager.h"
```

### Variables

- `std::string inst`
- `std::string datafield1`
- `std::string datafield2`
- `std::string datafield3`
- `std::string reversedata1`
- `std::string reversedata2`
- `std::string reversedata3`
- `bool InstructionStarted`
- `bool InstructionCompleted`
- `SyncManager MergedSyncManager`
- `std::vector< Data > ReverseDataFiles`
- `std::vector< Data > itemtobeadded`
- `std::vector< Data > presentdata`
- `std::stack< Data > fulldata`
- `std::stack< std::string > path`
- `std::string filepathshare`
- `std::string fileformovingtodrive`
- `std::string filedelete`
- `std::string file_to_add_from_clientpc`
- `std::string path_to_get_from_drive`
- `std::string path_to_delete_from_drive`
- `std::vector< std::string > shared_with_me_list`

### 7.5.1 Variable Documentation

#### 7.5.1.1 `std::string datafield1`

#### 7.5.1.2 `std::string datafield2`

#### 7.5.1.3 `std::string datafield3`

- 7.5.1.4 `std::string file_to_add_from_clientpc`
- 7.5.1.5 `std::string fileformovingtodrive`
- 7.5.1.6 `std::string filepathtoshare`
- 7.5.1.7 `std::string filetodelete`
- 7.5.1.8 `std::stack<Data> fulldata`
- 7.5.1.9 `std::string inst`
- 7.5.1.10 `bool InstructionCompleted`
- 7.5.1.11 `bool InstructionStarted`
- 7.5.1.12 `std::vector<Data> itemtobeadded`
- 7.5.1.13 **SyncManager** `MergedSyncManager`
- 7.5.1.14 `std::stack<std::string> path`
- 7.5.1.15 `std::string path_to_delete_from_drive`
- 7.5.1.16 `std::string path_to_get_from_drive`
- 7.5.1.17 `std::vector<Data> presentdata`
- 7.5.1.18 `std::string reversedata1`
- 7.5.1.19 `std::string reversedata2`
- 7.5.1.20 `std::string reversedata3`
- 7.5.1.21 `std::vector<Data> ReverseDataFiles`
- 7.5.1.22 `std::vector<std::string> shared_with_me_list`

## 7.6 file.h File Reference

```
#include <QDialog>
#include <QtCore>
#include <QtGui>
#include <QFileSystemModel>
```

### Classes

- class [file](#)

### Namespaces

- [Ui](#)

## 7.7 fileaccess.cpp File Reference

```
#include "fileaccess.h"  
#include "ui_fileaccess.h"  
#include <string>  
#include <QMessageBox>  
#include <iostream>  
#include "SyncManager.h"
```

### Variables

- `std::string inst`
- `std::string datafield1`
- `std::string datafield2`
- `std::string datafield3`
- `std::string reversedata1`
- `std::string reversedata2`
- `std::string reversedata3`
- `bool InstructionStarted`
- `bool InstructionCompleted`
- `SyncManager MergedSyncManager`
- `std::string previouspassword`
- `std::string getting_password`

### 7.7.1 Variable Documentation

7.7.1.1 `std::string datafield1`

7.7.1.2 `std::string datafield2`

7.7.1.3 `std::string datafield3`

7.7.1.4 `std::string getting_password`

7.7.1.5 `std::string inst`

7.7.1.6 `bool InstructionCompleted`

7.7.1.7 `bool InstructionStarted`

7.7.1.8 `SyncManager MergedSyncManager`

7.7.1.9 `std::string previouspassword`

7.7.1.10 `std::string reversedata1`

7.7.1.11 `std::string reversedata2`

7.7.1.12 `std::string reversedata3`

## 7.8 fileaccess.h File Reference

```
#include <QDialog>
```

## Classes

- class [fileaccess](#)

## Namespaces

- [Ui](#)

## 7.9 FileChanges.cpp File Reference

```
#include "FileChanges.h"
```

## 7.10 FileChanges.h File Reference

```
#include "FileHistory.h"  
#include "UserFiles.h"
```

## Classes

- class [FileChanges](#)

## 7.11 FileHistory.cpp File Reference

```
#include "FileHistory.h"
```

## Functions

- `std::vector< std::pair  
< std::string, int > >` [GetVectorFiles](#) (std::string location)
- [FileHistory](#) [GetFilesOnDisc](#) (std::string location)

### 7.11.1 Function Documentation

7.11.1.1 [FileHistory](#) [GetFilesOnDisc](#) ( std::string *location* )

7.11.1.2 `std::vector< std::pair<std::string, int> >` [GetVectorFiles](#) ( std::string *location* )

## 7.12 FileHistory.h File Reference

```
#include <boost/filesystem/operations.hpp>  
#include <boost/filesystem.hpp>  
#include <vector>  
#include <utility>  
#include <string>  
#include <ctime>  
#include <fstream>
```

## Classes

- class [FileHistory](#)

## Functions

- `std::vector< std::pair< std::string, int > >` [GetVectorFiles](#) (std::string)
- [FileHistory](#) [GetFilesOnDisc](#) (std::string)

### 7.12.1 Function Documentation

#### 7.12.1.1 [FileHistory](#) [GetFilesOnDisc](#) ( std::string )

#### 7.12.1.2 `std::vector< std::pair<std::string, int> >` [GetVectorFiles](#) ( std::string )

## 7.13 FileReceiving.cpp File Reference

```
#include "FileReceiving.h"  
#include <fstream>
```

## 7.14 FileReceiving.h File Reference

```
#include <vector>  
#include <string>
```

## Classes

- struct [Sharing](#)
- class [FileReceiving](#)

## 7.15 FileSharing.cpp File Reference

```
#include "FileSharing.h"  
#include <fstream>
```

## 7.16 FileSharing.h File Reference

```
#include <string>  
#include <vector>
```

## Classes

- struct [SharingGiver](#)
- class [FileSharing](#)



## 7.17 filesonserver.cpp File Reference

```
#include "filesonserver.h"
```

## 7.18 filesonserver.h File Reference

```
#include <vector>
#include <string>
```

### Classes

- class [Data](#)

## 7.19 login.cpp File Reference

```
#include "login.h"
#include "ui_login.h"
#include "connecting.h"
#include "newusersignup.h"
#include "file.h"
#include <QtCore>
#include <QtGui>
#include <QMessageBox>
#include <unistd.h>
#include <QProgressDialog>
#include "SyncManager.h"
```

### Variables

- std::string [inst](#)
- std::string [datafield1](#)
- std::string [datafield2](#)
- std::string [datafield3](#)
- std::string [reversedata1](#)
- std::string [reversedata2](#)
- std::string [reversedata3](#)
- bool [InstructionStarted](#)
- bool [InstructionCompleted](#)
- [SyncManager](#) [MergedSyncManager](#)
- bool [ifconnected](#)

### 7.19.1 Variable Documentation

7.19.1.1 [std::string datafield1](#)

7.19.1.2 [std::string datafield2](#)

7.19.1.3 [std::string datafield3](#)

7.19.1.4 `bool ifconnected`

7.19.1.5 `std::string inst`

7.19.1.6 `bool InstructionCompleted`

7.19.1.7 `bool InstructionStarted`

7.19.1.8 `SyncManager MergedSyncManager`

7.19.1.9 `std::string reversedata1`

7.19.1.10 `std::string reversedata2`

7.19.1.11 `std::string reversedata3`

## 7.20 login.h File Reference

```
#include <iostream>
#include <QMainWindow>
```

### Classes

- class [login](#)

### Namespaces

- [Ui](#)

## 7.21 main.cpp File Reference

```
#include "login.h"
#include <QApplication>
#include "filesongserver.h"
#include "ClientCombined.h"
```

### Classes

- struct [graph](#)

### Functions

- void \* [StartBackend](#) (void \*xyz)
- int [main](#) (int argc, char \*argv[])

### Variables

- bool [windowshow](#) = true
- bool [InstructionStarted](#)

- bool [InstructionCompleted](#)
- std::string [reversedata1](#)
- std::string [reversedata2](#)
- std::string [reversedata3](#)
- std::string [inst](#)
- std::string [datafield1](#)
- std::string [datafield2](#)
- std::string [datafield3](#)
- [SyncManager](#) [MergedSyncManager](#)
- bool [ifconnected](#)
- std::vector< [Data](#) > [ReverseDataFiles](#)

### 7.21.1 Function Documentation

7.21.1.1 int main ( int *argc*, char \* *argv*[] )

7.21.1.2 void\* StartBackend ( void \* *xyz* )

### 7.21.2 Variable Documentation

7.21.2.1 std::string [datafield1](#)

7.21.2.2 std::string [datafield2](#)

7.21.2.3 std::string [datafield3](#)

7.21.2.4 bool [ifconnected](#)

7.21.2.5 std::string [inst](#)

7.21.2.6 bool [InstructionCompleted](#)

7.21.2.7 bool [InstructionStarted](#)

7.21.2.8 [SyncManager](#) [MergedSyncManager](#)

7.21.2.9 std::string [reversedata1](#)

7.21.2.10 std::string [reversedata2](#)

7.21.2.11 std::string [reversedata3](#)

7.21.2.12 std::vector<[Data](#)> [ReverseDataFiles](#)

7.21.2.13 bool [windowshow](#) = true

## 7.22 moc\_connecting.cpp File Reference

```
#include "connecting.h"
#include <QtCore/qbytearray.h>
#include <QtCore/qmetatype.h>
```

## Classes

- struct [qt\\_meta\\_stringdata\\_connecting\\_t](#)

## Macros

- #define [QT\\_MOC\\_LITERAL](#)(idx, ofs, len)

### 7.22.1 Macro Definition Documentation

#### 7.22.1.1 #define QT\_MOC\_LITERAL( idx, ofs, len )

##### Value:

```
Q_STATIC_BYTE_ARRAY_DATA_HEADER_INITIALIZER_WITH_OFFSET(len, \
    offsetof(qt\_meta\_stringdata\_connecting\_t, stringdata) + ofs \
        - idx * sizeof(QByteArrayData) \
    )
```

## 7.23 moc\_file.cpp File Reference

```
#include "file.h"
#include <QtCore/qbytearray.h>
#include <QtCore/qmetatype.h>
```

## Classes

- struct [qt\\_meta\\_stringdata\\_file\\_t](#)

## Macros

- #define [QT\\_MOC\\_LITERAL](#)(idx, ofs, len)

### 7.23.1 Macro Definition Documentation

#### 7.23.1.1 #define QT\_MOC\_LITERAL( idx, ofs, len )

##### Value:

```
Q_STATIC_BYTE_ARRAY_DATA_HEADER_INITIALIZER_WITH_OFFSET(len, \
    offsetof(qt\_meta\_stringdata\_file\_t, stringdata) + ofs \
        - idx * sizeof(QByteArrayData) \
    )
```

## 7.24 moc\_fileaccess.cpp File Reference

```
#include "fileaccess.h"
#include <QtCore/qbytearray.h>
#include <QtCore/qmetatype.h>
```

## Classes

- struct [qt\\_meta\\_stringdata\\_fileaccess\\_t](#)

## Macros

- #define [QT\\_MOC\\_LITERAL](#)(idx, ofs, len)

### 7.24.1 Macro Definition Documentation

#### 7.24.1.1 #define QT\_MOC\_LITERAL( idx, ofs, len )

##### Value:

```
Q_STATIC_BYTE_ARRAY_DATA_HEADER_INITIALIZER_WITH_OFFSET(len, \
    offsetof(qt\_meta\_stringdata\_fileaccess\_t, stringdata) + ofs \
        - idx * sizeof(QByteArrayData) \
    )
```

## 7.25 moc\_login.cpp File Reference

```
#include "login.h"
#include <QtCore/qbytearray.h>
#include <QtCore/qmetatype.h>
```

## Classes

- struct [qt\\_meta\\_stringdata\\_login\\_t](#)

## Macros

- #define [QT\\_MOC\\_LITERAL](#)(idx, ofs, len)

### 7.25.1 Macro Definition Documentation

#### 7.25.1.1 #define QT\_MOC\_LITERAL( idx, ofs, len )

##### Value:

```
Q_STATIC_BYTE_ARRAY_DATA_HEADER_INITIALIZER_WITH_OFFSET(len, \
    offsetof(qt\_meta\_stringdata\_login\_t, stringdata) + ofs \
        - idx * sizeof(QByteArrayData) \
    )
```

## 7.26 moc\_newusersignup.cpp File Reference

```
#include "newusersignup.h"
#include <QtCore/qbytearray.h>
#include <QtCore/qmetatype.h>
```

## Classes

- struct [qt\\_meta\\_stringdata\\_NewUserSignup\\_t](#)

## Macros

- #define [QT\\_MOC\\_LITERAL](#)(idx, ofs, len)

### 7.26.1 Macro Definition Documentation

#### 7.26.1.1 #define QT\_MOC\_LITERAL( idx, ofs, len )

##### Value:

```
Q_STATIC_BYTE_ARRAY_DATA_HEADER_INITIALIZER_WITH_OFFSET(len, \
    offsetof(qt\_meta\_stringdata\_NewUserSignup\_t, stringdata) + ofs \
        - idx * sizeof(QByteArrayData) \
    )
```

## 7.27 moc\_share.cpp File Reference

```
#include "share.h"
#include <QtCore/qbytearray.h>
#include <QtCore/qmetatype.h>
```

## Classes

- struct [qt\\_meta\\_stringdata\\_share\\_t](#)

## Macros

- #define [QT\\_MOC\\_LITERAL](#)(idx, ofs, len)

### 7.27.1 Macro Definition Documentation

#### 7.27.1.1 #define QT\_MOC\_LITERAL( idx, ofs, len )

##### Value:

```
Q_STATIC_BYTE_ARRAY_DATA_HEADER_INITIALIZER_WITH_OFFSET(len, \
    offsetof(qt\_meta\_stringdata\_share\_t, stringdata) + ofs \
        - idx * sizeof(QByteArrayData) \
    )
```

## 7.28 moc\_sharedwithothers.cpp File Reference

```
#include "sharedwithothers.h"
#include <QtCore/qbytearray.h>
#include <QtCore/qmetatype.h>
```

## Classes

- struct [qt\\_meta\\_stringdata\\_sharedwithothers\\_t](#)

## Macros

- `#define QT_MOC_LITERAL(idx, ofs, len)`

### 7.28.1 Macro Definition Documentation

#### 7.28.1.1 `#define QT_MOC_LITERAL( idx, ofs, len )`

##### Value:

```
Q_STATIC_BYTE_ARRAY_DATA_HEADER_INITIALIZER_WITH_OFFSET(len, \
    offsetof(qt_meta_stringdata_sharedwithothers_t, stringdata) + ofs
    \
    - idx * sizeof(QByteArrayData) \
)
```

## 7.29 newusersignup.cpp File Reference

```
#include "newusersignup.h"
#include "ui_newusersignup.h"
#include "login.h"
#include <unistd.h>
#include <pthread.h>
#include <QMessageBox>
```

## Variables

- bool [show1](#)
- bool [xyz](#)
- std::string [inst](#)
- std::string [datafield1](#)
- std::string [datafield2](#)
- std::string [datafield3](#)
- std::string [reversedata1](#)
- std::string [reversedata2](#)
- std::string [reversedata3](#)
- bool [InstructionStarted](#)
- bool [InstructionCompleted](#)

### 7.29.1 Variable Documentation

#### 7.29.1.1 `std::string datafield1`

#### 7.29.1.2 `std::string datafield2`

#### 7.29.1.3 `std::string datafield3`

#### 7.29.1.4 `std::string inst`

7.29.1.5 `bool` `InstructionCompleted`

7.29.1.6 `bool` `InstructionStarted`

7.29.1.7 `std::string` `reversedata1`

7.29.1.8 `std::string` `reversedata2`

7.29.1.9 `std::string` `reversedata3`

7.29.1.10 `bool` `show1`

7.29.1.11 `bool` `xyz`

## 7.30 newusersignup.h File Reference

```
#include <QDialog>
```

### Classes

- class [NewUserSignup](#)

### Namespaces

- [Ui](#)

## 7.31 share.cpp File Reference

```
#include "share.h"  
#include "ui_share.h"  
#include "file.h"  
#include <string>  
#include <QMessageBox>  
#include "SyncManager.h"
```

### Variables

- `std::string` [inst](#)
- `std::string` [datafield1](#)
- `std::string` [datafield2](#)
- `std::string` [datafield3](#)
- `std::string` [reversedata1](#)
- `std::string` [reversedata2](#)
- `std::string` [reversedata3](#)
- `bool` [InstructionStarted](#)
- `bool` [InstructionCompleted](#)
- [SyncManager](#) [MergedSyncManager](#)
- `bool` [readonly](#)
- `std::string` [getting\\_username](#)
- `bool` [existingusername](#)



### 7.31.1 Variable Documentation

7.31.1.1 `std::string datafield1`

7.31.1.2 `std::string datafield2`

7.31.1.3 `std::string datafield3`

7.31.1.4 `bool existingusername`

7.31.1.5 `std::string getting_username`

7.31.1.6 `std::string inst`

7.31.1.7 `bool InstructionCompleted`

7.31.1.8 `bool InstructionStarted`

7.31.1.9 `SyncManager MergedSyncManager`

7.31.1.10 `bool readonly`

7.31.1.11 `std::string reversedata1`

7.31.1.12 `std::string reversedata2`

7.31.1.13 `std::string reversedata3`

## 7.32 share.h File Reference

```
#include <QDialog>
```

### Classes

- class [share](#)

### Namespaces

- [Ui](#)

## 7.33 sharedwithothers.cpp File Reference

```
#include "sharedwithothers.h"  
#include "ui_sharedwithothers.h"  
#include <vector>  
#include <string>  
#include "SyncManager.h"
```

### Variables

- [SyncManager MergedSyncManager](#)

- `std::vector< std::string >` [sharedfiles](#)

### 7.33.1 Variable Documentation

#### 7.33.1.1 SyncManager MergedSyncManager

#### 7.33.1.2 `std::vector<std::string>` [sharedfiles](#)

## 7.34 [sharedwithothers.h](#) File Reference

```
#include <QDialog>
```

### Classes

- class [sharedwithothers](#)

### Namespaces

- [Ui](#)

## 7.35 [SyncManager.cpp](#) File Reference

```
#include "SyncManager.h"
```

### Functions

- bool [SyncListContains](#) ([SyncList](#) cons, `std::string` tofind)
- [Instruction DoLogin](#) (`std::string` us, `std::string` pwd)
- [Instruction NewUser](#) (`std::string` us, `std::string` pwd)
- [Instruction Exit](#) ()
- [Instruction UserExists](#) (`std::string` username)
- [Instruction GetServerFiles](#) (`std::string` clpath, `std::string` sepath)
- [Instruction TransferServerToClient](#) (`std::string` clpath, `std::string` sepath)
- [Instruction TransferClientToServer](#) (`std::string` clpath, `std::string` sepath)
- [Instruction DeleteFileOnServer](#) (`std::string` location)
- [Instruction DeleteFileOnClient](#) (`std::string` location)
- [Instruction RefreshServerDB](#) (`std::string` location)
- [Instruction DoNothing](#) ()
- [Instruction DoNormalSending](#) (`std::string` s1, `std::string` s2)
- [Instruction ChangePasswordIns](#) (`std::string` username, `std::string` opwd, `std::string` npwd)

### 7.35.1 Function Documentation

#### 7.35.1.1 [Instruction ChangePasswordIns](#) ( `std::string` *username*, `std::string` *opwd*, `std::string` *npwd* )

#### 7.35.1.2 [Instruction DeleteFileOnClient](#) ( `std::string` *location* )

#### 7.35.1.3 [Instruction DeleteFileOnServer](#) ( `std::string` *location* )

- 7.35.1.4 **Instruction DoLogin** ( `std::string us`, `std::string pwd` )
- 7.35.1.5 **Instruction DoNormalSending** ( `std::string s1`, `std::string s2` )
- 7.35.1.6 **Instruction DoNothing** ( )
- 7.35.1.7 **Instruction Exit** ( )
- 7.35.1.8 **Instruction GetServerFiles** ( `std::string clpath`, `std::string sepath` )
- 7.35.1.9 **Instruction NewUser** ( `std::string us`, `std::string pwd` )
- 7.35.1.10 **Instruction RefreshServerDB** ( `std::string location` )
- 7.35.1.11 **bool SyncListContains** ( `SyncList cons`, `std::string tofind` )
- 7.35.1.12 **Instruction TransferClientToServer** ( `std::string clpath`, `std::string sepath` )
- 7.35.1.13 **Instruction TransferServerToClient** ( `std::string clpath`, `std::string sepath` )
- 7.35.1.14 **Instruction UserExists** ( `std::string username` )

## 7.36 SyncManager.h File Reference

```
#include "FileSharing.h"
#include "FileReceiving.h"
#include "FileChanges.h"
#include "FileHistory.h"
#include "UserFiles.h"
#include <algorithm>
```

### Classes

- struct [Instruction](#)
- struct [SyncList](#)
- class [SyncManager](#)
- struct [Client](#)

### Functions

- bool [SyncListContains](#) ([SyncList](#), `std::string`)
- [Instruction DoLogin](#) (`std::string`, `std::string`)
- [Instruction NewUser](#) (`std::string`, `std::string`)
- [Instruction Exit](#) ()
- [Instruction UserExists](#) (`std::string`)
- [Instruction GetServerFiles](#) (`std::string`, `std::string`)
- [Instruction TransferServerToClient](#) (`std::string`, `std::string`)
- [Instruction TransferClientToServer](#) (`std::string`, `std::string`)
- [Instruction DeleteFileOnServer](#) (`std::string`)
- [Instruction DeleteFileOnClient](#) (`std::string`)
- [Instruction RefreshServerDB](#) (`std::string`)
- [Instruction DoNothing](#) ()
- [Instruction DoNormalSending](#) (`std::string`, `std::string`)
- [Instruction ChangePasswordIns](#) (`std::string`, `std::string`, `std::string`)

### 7.36.1 Function Documentation

7.36.1.1 **Instruction ChangePasswordIns** ( `std::string` , `std::string` , `std::string` )

7.36.1.2 **Instruction DeleteFileOnClient** ( `std::string` )

7.36.1.3 **Instruction DeleteFileOnServer** ( `std::string` )

7.36.1.4 **Instruction DoLogin** ( `std::string` , `std::string` )

7.36.1.5 **Instruction DoNormalSending** ( `std::string` , `std::string` )

7.36.1.6 **Instruction DoNothing** ( )

7.36.1.7 **Instruction Exit** ( )

7.36.1.8 **Instruction GetServerFiles** ( `std::string` , `std::string` )

7.36.1.9 **Instruction NewUser** ( `std::string` , `std::string` )

7.36.1.10 **Instruction RefreshServerDB** ( `std::string` )

7.36.1.11 **bool SyncListContains** ( `SyncList` , `std::string` )

7.36.1.12 **Instruction TransferClientToServer** ( `std::string` , `std::string` )

7.36.1.13 **Instruction TransferServerToClient** ( `std::string` , `std::string` )

7.36.1.14 **Instruction UserExists** ( `std::string` )

## 7.37 ui\_connecting.h File Reference

```
#include <QtCore/QVariant>
#include <QtWidgets/QAction>
#include <QtWidgets/QApplication>
#include <QtWidgets/QButtonGroup>
#include <QtWidgets/QDialog>
#include <QtWidgets/QHeaderView>
#include <QtWidgets/QLabel>
#include <QtWidgets/QPushButton>
```

### Classes

- class [Ui\\_connecting](#)
- class [Ui::connecting](#)

### Namespaces

- [Ui](#)

## 7.38 ui\_file.h File Reference

```
#include <QtCore/QVariant>
#include <QtWidgets/QAction>
#include <QtWidgets/QApplication>
#include <QtWidgets/QButtonGroup>
#include <QtWidgets/QDialog>
#include <QtWidgets/QFrame>
#include <QtWidgets/QHBoxLayout>
#include <QtWidgets/QHeaderView>
#include <QtWidgets/QLabel>
#include <QtWidgets/QListWidget>
#include <QtWidgets/QPushButton>
#include <QtWidgets/QTreeView>
#include <QtWidgets/QVBoxLayout>
#include <QtWidgets/QWidget>
```

### Classes

- class [Ui\\_file](#)
- class [Ui::file](#)

### Namespaces

- [Ui](#)

## 7.39 ui\_fileaccess.h File Reference

```
#include <QtCore/QVariant>
#include <QtWidgets/QAction>
#include <QtWidgets/QApplication>
#include <QtWidgets/QButtonGroup>
#include <QtWidgets/QDialog>
#include <QtWidgets/QHBoxLayout>
#include <QtWidgets/QHeaderView>
#include <QtWidgets/QLabel>
#include <QtWidgets/QLineEdit>
#include <QtWidgets/QPushButton>
#include <QtWidgets/QVBoxLayout>
#include <QtWidgets/QWidget>
```

### Classes

- class [Ui\\_fileaccess](#)
- class [Ui::fileaccess](#)

### Namespaces

- [Ui](#)

## 7.40 ui\_login.h File Reference

```
#include <QtCore/QVariant>
#include <QtWidgets/QAction>
#include <QtWidgets/QApplication>
#include <QtWidgets/QButtonGroup>
#include <QtWidgets/QFrame>
#include <QtWidgets/QHeaderView>
#include <QtWidgets/QLabel>
#include <QtWidgets/QLineEdit>
#include <QtWidgets/QMainWindow>
#include <QtWidgets/QToolBar>
#include <QtWidgets/QToolButton>
#include <QtWidgets/QWidget>
```

### Classes

- class [Ui\\_login](#)
- class [Ui::login](#)

### Namespaces

- [Ui](#)

## 7.41 ui\_newusersignup.h File Reference

```
#include <QtCore/QVariant>
#include <QtWidgets/QAction>
#include <QtWidgets/QApplication>
#include <QtWidgets/QButtonGroup>
#include <QtWidgets/QDialog>
#include <QtWidgets/QHeaderView>
#include <QtWidgets/QLabel>
#include <QtWidgets/QLineEdit>
#include <QtWidgets/QToolButton>
#include <QtWidgets/QVBoxLayout>
#include <QtWidgets/QWidget>
```

### Classes

- class [Ui\\_NewUserSignup](#)
- class [Ui::NewUserSignup](#)

### Namespaces

- [Ui](#)

## 7.42 ui\_share.h File Reference

```
#include <QtCore/QVariant>
#include <QtWidgets/QAction>
#include <QtWidgets/QApplication>
#include <QtWidgets/QButtonGroup>
#include <QtWidgets/QDialog>
#include <QtWidgets/QFrame>
#include <QtWidgets/QHeaderView>
#include <QtWidgets/QLabel>
#include <QtWidgets/QLineEdit>
#include <QtWidgets/QPushButton>
#include <QtWidgets/QRadioButton>
```

### Classes

- class [Ui\\_share](#)
- class [Ui::share](#)

### Namespaces

- [Ui](#)

## 7.43 ui\_sharedwithothers.h File Reference

```
#include <QtCore/QVariant>
#include <QtWidgets/QAction>
#include <QtWidgets/QApplication>
#include <QtWidgets/QButtonGroup>
#include <QtWidgets/QDialog>
#include <QtWidgets/QHeaderView>
#include <QtWidgets/QLabel>
#include <QtWidgets/QListWidget>
#include <QtWidgets/QPushButton>
#include <QtWidgets/QVBoxLayout>
#include <QtWidgets/QWidget>
```

### Classes

- class [Ui\\_sharedwithothers](#)
- class [Ui::sharedwithothers](#)

### Namespaces

- [Ui](#)

## 7.44 UserFiles.cpp File Reference

```
#include "UserFiles.h"
#include <fstream>
```

## 7.45 UserFiles.h File Reference

```
#include <string>
#include <vector>
#include <utility>
#include <unordered_map>
```

### Classes

- class [UserFiles](#)



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