

## SWallet ServerSide

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# Chapter 1

## Hierarchical Index

### 1.1 Class Hierarchy

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

Client . . . . .	7
DBManager . . . . .	7
QMainWindow	
MainWindow . . . . .	8
QObject	
ServerManager . . . . .	9
Ui_MainWindow . . . . .	9
Ui::MainWindow . . . . .	8



## Chapter 2

# Class Index

### 2.1 Class List

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

<a href="#">Client</a>	7
<a href="#">DBManager</a>	7
<a href="#">MainWindow</a>	8
<a href="#">Ui::MainWindow</a>	8
<a href="#">ServerManager</a>	9
<a href="#">Ui_MainWindow</a>	9





## Chapter 3

# File Index

### 3.1 File List

Here is a list of all documented files with brief descriptions:

<a href="#">client.h</a>	18
<a href="#">dbmanager.h</a>	19
<a href="#">mainwindow.h</a>	19
<a href="#">servermanager.h</a>	19
build/Desktop_Qt_6_7_0-Debug/ <a href="#">moc_predefs.h</a>	11
build/Desktop_Qt_6_7_0-Debug/ <a href="#">ui_mainwindow.h</a>	16



## Chapter 4

# Class Documentation

### 4.1 Client Class Reference

#### Public Member Functions

- void **set\_fullName** (QString fullName)
- QString **get\_fullName** ()
- void **set\_password** (QString password)
- QString **get\_password** ()
- void **set\_age** (int age)
- int **get\_age** ()
- void **set\_national\_ID** (int national\_ID)
- int **get\_national\_ID** ()
- void **set\_phoneNumber** (int phoneNumber)
- int **get\_phoneNumber** ()
- void **fill\_client\_info** (QList< QString > cData, [Client](#) &c)

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

- client.h
- client.cpp

### 4.2 DBManager Class Reference

#### Public Member Functions

- bool **insertNewSWallet** ([Client](#) client)
- bool **checkCredentials** (int Phone\_Number, QString Password)
- QList< QString > **fetch\_UserData** (int Phone\_Number)
- QList< QString > **makeDeposit** (QString Phone\_Number, QString Amount)
- QList< QString > **makeWithdraw** (QString Phone\_Number, QString Amount)
- QList< QString > **GetClients** ()
- QSqlQueryModel \* **fetch\_UserTransactions** (QString)

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

- dbmanager.h
- dbmanager.cpp

## 4.3 MainWindow Class Reference

Inheritance diagram for MainWindow:

## 4.4 Ui::MainWindow Class Reference

Inheritance diagram for Ui::MainWindow:

Collaboration diagram for Ui::MainWindow:

### Additional Inherited Members

### Public Member Functions inherited from [Ui\\_MainWindow](#)

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

### Public Attributes inherited from [Ui\\_MainWindow](#)

- QWidget \* **centralwidget**
- QGroupBox \* **groupBox**
- QFrame \* **nationalID\_frame\_2**
- QLabel \* **nationalID\_label\_2**
- QLabel \* **user\_NationalID\_2**
- QFrame \* **Balance\_frame\_2**
- QLabel \* **Balance\_label\_2**
- QLabel \* **user\_balance\_2**
- QFrame \* **phoneNumber\_frame\_2**
- QLabel \* **phoneNumber\_label\_2**
- QLabel \* **user\_phone\_Number\_2**
- QFrame \* **fullName\_frame\_2**
- QLabel \* **fullName\_label\_2**
- QLabel \* **user\_fullName\_2**
- QTableView \* **tableView**
- QWidget \* **layoutWidget**
- QVBoxLayout \* **verticalLayout**
- QLabel \* **Clients\_label**
- QListWidget \* **Clients\_list**
- QPushButton \* **pushButton**
- QPushButton \* **Update\_Button**

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

- build/Desktop\_Qt\_6\_7\_0-Debug/ui\_mainwindow.h

## 4.5 ServerManager Class Reference

Inheritance diagram for ServerManager:

Collaboration diagram for ServerManager:

### Signals

- void **newClientConnected** (QTcpSocket \*client)
- void **ClientDisconnected** (QTcpSocket \*client)

### Public Member Functions

- **ServerManager** (ushort port=4500, QObject \*parent=nullptr)

### Public Attributes

- [DBManager](#) \* **DB**

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

- servermanager.h
- build/Desktop\_Qt\_6\_7\_0-Debug/moc\_servermanager.cpp
- servermanager.cpp

## 4.6 Ui\_MainWindow Class Reference

Inheritance diagram for Ui\_MainWindow:

### Public Member Functions

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

### Public Attributes

- QWidget \* **centralwidget**
- QGroupBox \* **groupBox**
- QFrame \* **nationalID\_frame\_2**
- QLabel \* **nationalID\_label\_2**
- QLabel \* **user\_NationalID\_2**
- QFrame \* **Balance\_frame\_2**
- QLabel \* **Balance\_label\_2**
- QLabel \* **user\_balance\_2**
- QFrame \* **phoneNumber\_frame\_2**
- QLabel \* **phoneNumber\_label\_2**
- QLabel \* **user\_phone\_Number\_2**
- QFrame \* **fullName\_frame\_2**
- QLabel \* **fullName\_label\_2**
- QLabel \* **user\_fullName\_2**
- QTableView \* **tableView**
- QWidget \* **layoutWidget**
- QVBoxLayout \* **verticalLayout**
- QLabel \* **Clients\_label**
- QListWidget \* **Clients\_list**
- QPushButton \* **pushButton**
- QPushButton \* **Update\_Button**

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

- build/Desktop\_Qt\_6\_7\_0-Debug/ui\_mainwindow.h

## Chapter 5

# File Documentation

### 5.1 moc\_predefs.h

```
00001 #define __DBL_MIN_EXP__ (-1021)
00002 #define __cpp_nontype_template_parameter_auto 201606L
00003 #define __UINT_LEAST16_MAX__ 0xffff
00004 #define __FLT16_HAS_QUIET_NAN__ 1
00005 #define __ATOMIC_ACQUIRE 2
00006 #define __FLT128_MAX_10_EXP__ 4932
00007 #define __FLT_MIN__ 1.17549435082228750796873653722224568e-38F
00008 #define __GCC_IEC_559_COMPLEX 2
00009 #define __cpp_aggregate_nsdmi 201304L
00010 #define __UINT_LEAST8_TYPE__ unsigned char
00011 #define __SIZEOF_FLOAT80__ 16
00012 #define __BFLT16_DENORM_MIN__ 9.18354961579912115600575419704879436e-41BF16
00013 #define __INTMAX_C(c) c ## L
00014 #define __CHAR_BIT__ 8
00015 #define __UINT8_MAX__ 0xff
00016 #define __SCHAR_WIDTH__ 8
00017 #define __WINT_MAX__ 0xfffffffffu
00018 #define __FLT32_MIN_EXP__ (-125)
00019 #define __cpp_static_assert 201411L
00020 #define __BFLT16_MIN_10_EXP__ (-37)
00021 #define __ORDER_LITTLE_ENDIAN__ 1234
00022 #define __WCHAR_MAX__ 0x7fffffff
00023 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_2 1
00024 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_4 1
00025 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_8 1
00026 #define __GCC_ATOMIC_CHAR_LOCK_FREE 2
00027 #define __GCC_IEC_559 2
00028 #define __FLT32X_DECIMAL_DIG__ 17
00029 #define __FLT_EVAL_METHOD__ 0
00030 #define __cpp_binary_literals 201304L
00031 #define __FLT64_DECIMAL_DIG__ 17
00032 #define __CET__ 3
00033 #define __cpp_noexcept_function_type 201510L
00034 #define __GCC_ATOMIC_CHAR32_T_LOCK_FREE 2
00035 #define __cpp_variadic_templates 200704L
00036 #define __UINT_FAST64_MAX__ 0xfffffffffffffffffUL
00037 #define __SIG_ATOMIC_TYPE__ int
00038 #define __DBL_MIN_10_EXP__ (-307)
00039 #define __FINITE_MATH_ONLY__ 0
00040 #define __cpp_variable_templates 201304L
00041 #define __FLT32X_MAX_EXP__ 1024
00042 #define __GCC_HAVE_SYNC_COMPARE_AND_SWAP_1 1
00043 #define __FLT32_HAS_DENORM__ 1
00044 #define __UINT_FAST8_MAX__ 0xff
00045 #define __cpp_rvalue_reference 200610L
00046 #define __cpp_nested_namespace_definitions 201411L
00047 #define __DEC64_MAX_EXP__ 385
00048 #define __INT8_C(c) c
00049 #define __LDBL_HAS_INFINITY__ 1
00050 #define __INT_LEAST8_WIDTH__ 8
00051 #define __cpp_variadic_using 201611L
00052 #define __UINT_LEAST64_MAX__ 0xfffffffffffffffffUL
00053 #define __INT_LEAST8_MAX__ 0x7f
00054 #define __cpp_attributes 200809L
00055 #define __cpp_capture_star_this 201603L
00056 #define __SHRT_MAX__ 0x7fff
00057 #define __LDBL_MAX__ 1.18973149535723176502126385303097021e+4932L
00058 #define __FLT64X_MAX_10_EXP__ 4932
```

```

00059 #define __cpp_if_constexpr 201606L
00060 #define __BFLT16_MAX_10_EXP__ 38
00061 #define __BFLT16_MAX_EXP__ 128
00062 #define __LDBL_IS_IEC_60559__ 1
00063 #define __FLT64X_HAS_QUIET_NAN__ 1
00064 #define __UINT_LEAST8_MAX__ 0xff
00065 #define __GCC_ATOMIC_BOOL_LOCK_FREE 2
00066 #define __FLT128_DENORM_MIN__ 6.47517511943802511092443895822764655e-4966F128
00067 #define __UINTMAX_TYPE__ long unsigned int
00068 #define __cpp_nsdmi 200809L
00069 #define __BFLT16_DECIMAL_DIG__ 4
00070 #define __linux 1
00071 #define __DEC32_EPSILON__ 1E-6DF
00072 #define __FLT_EVAL_METHOD_TS_18661_3__ 0
00073 #define __UINT32_MAX__ 0xffffffffU
00074 #define __GXX_EXPERIMENTAL_CXX0X__ 1
00075 #define __DBL_DENORM_MIN__ double(4.94065645841246544176568792868221372e-324L)
00076 #define __FLT128_MIN_EXP__ (-16381)
00077 #define __WINT_MIN__ 0U
00078 #define __FLT128_MIN_10_EXP__ (-4931)
00079 #define __FLT32X_IS_IEC_60559__ 1
00080 #define __INT_LEAST16_WIDTH__ 16
00081 #define __SCHAR_MAX__ 0x7f
00082 #define __FLT128_MANT_DIG__ 113
00083 #define __WCHAR_MIN__ (-__WCHAR_MAX__ - 1)
00084 #define __INT64_C(c) c ## L
00085 #define __SSP_STRONG__ 3
00086 #define __GCC_ATOMIC_POINTER_LOCK_FREE 2
00087 #define __ATOMIC_SEQ_CST 5
00088 #define __unix 1
00089 #define __INT_LEAST64_MAX__ 0xfffffffffffffffffL
00090 #define __FLT32X_MANT_DIG__ 53
00091 #define __GCC_ATOMIC_CHAR16_T_LOCK_FREE 2
00092 #define __cpp_aligned_new 201606L
00093 #define __FLT32_MAX_10_EXP__ 38
00094 #define __FLT64X_EPSILON__ 1.08420217248550443400745280086994171e-19F64x
00095 #define __STDC_HOSTED__ 1
00096 #define __DEC64_MIN_EXP__ (-382)
00097 #define __cpp_decltype_auto 201304L
00098 #define __DBL_DIG__ 15
00099 #define __FLT_EPSILON__ 1.19209289550781250000000000000000000000e-7F
00100 #define __GXX_WEAK__ 1
00101 #define __SHRT_WIDTH__ 16
00102 #define __FLT32_IS_IEC_60559__ 1
00103 #define __LDBL_MIN__ 3.36210314311209350626267781732175260e-4932L
00104 #define __DBL_IS_IEC_60559__ 1
00105 #define __DEC32_MAX__ 9.999999E96DF
00106 #define __cpp_threadsafe_static_init 200806L
00107 #define __cpp_enumerator_attributes 201411L
00108 #define __FLT64X_DENORM_MIN__ 3.64519953188247460252840593361941982e-4951F64x
00109 #define __FLT32X_HAS_INFINITY__ 1
00110 #define __unix__ 1
00111 #define __INT_WIDTH__ 32
00112 #define __STDC_IEC_559__ 1
00113 #define __STDC_ISO_10646__ 201706L
00114 #define __DECIMAL_DIG__ 21
00115 #define __STDC_IEC_559_COMPLEX__ 1
00116 #define __FLT64_EPSILON__ 2.22044604925031308084726333618164062e-16F64
00117 #define __gnu_linux__ 1
00118 #define __INT16_MAX__ 0x7fff
00119 #define __FLT64_MIN_EXP__ (-1021)
00120 #define __FLT64X_MIN_10_EXP__ (-4931)
00121 #define __LDBL_HAS_QUIET_NAN__ 1
00122 #define __cpp_return_type_deduction 201304L
00123 #define __FLT16_MIN_EXP__ (-13)
00124 #define __FLT64_MANT_DIG__ 53
00125 #define __FLT64X_MANT_DIG__ 64
00126 #define __BFLT16_DIG__ 2
00127 #define __GNUC__ 13
00128 #define __GXX_RTTI 1
00129 #define __MMX__ 1
00130 #define __FLT_HAS_DENORM__ 1
00131 #define __SIZEOF_LONG_DOUBLE__ 16
00132 #define __BIGGEST_ALIGNMENT__ 16
00133 #define __STDC_UTF_16__ 1
00134 #define __FLT64_MAX_10_EXP__ 308
00135 #define __BFLT16_IS_IEC_60559__ 0
00136 #define __FLT16_MAX_10_EXP__ 4
00137 #define __cpp_delegating_constructors 200604L
00138 #define __DBL_MAX__ double(1.79769313486231570814527423731704357e+308L)
00139 #define __cpp_raw_strings 200710L
00140 #define __INT_FAST32_MAX__ 0x7fffffffffffffffffL
00141 #define __DBL_HAS_INFINITY__ 1
00142 #define __INT64_MAX__ 0x7fffffffffffffffffL
00143 #define __SIZEOF_FLOAT__ 4
00144 #define __HAVE_SPECULATION_SAFE_VALUE 1
00145 #define __cpp_fold_expressions 201603L

```



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```
00320 #define __FLT64_HAS_INFINITY__ 1
00321 #define __FLT64X_MAX__ 1.18973149535723176502126385303097021e+4932F64x
00322 #define __FLT16_HAS_INFINITY__ 1
00323 #define __STDCPP_DEFAULT_NEW_ALIGNMENT__ 16
00324 #define __SIG_ATOMIC_MIN__ (-__SIG_ATOMIC_MAX__ - 1)
00325 #define __code_model_small__ 1
00326 #define __GCC_ATOMIC_LONG_LOCK_FREE 2
00327 #define __cpp_nontype_template_args 201411L
00328 #define __DEC32_MANT_DIG__ 7
00329 #define __k8__ 1
00330 #define __INTPTR_TYPE__ long int
00331 #define __UINT16_TYPE__ short unsigned int
00332 #define __WCHAR_TYPE__ int
00333 #define __pic__ 2
00334 #define __UINTPTR_MAX__ 0xffffffffffffffffUL
00335 #define __INT_FAST64_WIDTH__ 64
00336 #define __cpp_decltype 200707L
00337 #define __INT_FAST64_MAX__ 0x7fffffffffffffffL
00338 #define __GCC_ATOMIC_TEST_AND_SET_TRUEVAL 1
00339 #define __FLT_NORM_MAX__ 3.40282346638528859811704183484516925e+38F
00340 #define __FLT32_HAS_INFINITY__ 1
00341 #define __FLT64X_MAX_EXP__ 16384
00342 #define __UINT_FAST64_TYPE__ long unsigned int
00343 #define __cpp_inline_variables 201606L
00344 #define __BFLT16_MIN_EXP__ (-125)
00345 #define __INT_MAX__ 0x7fffffff
00346 #define __linux__ 1
00347 #define __INT64_TYPE__ long int
00348 #define __FLT_MAX_EXP__ 128
00349 #define __ORDER_BIG_ENDIAN__ 4321
00350 #define __DBL_MANT_DIG__ 53
00351 #define __cpp_inheriting_constructors 201511L
00352 #define __SIZEOF_FLOAT128__ 16
00353 #define __BFLT16_MANT_DIG__ 8
00354 #define __DEC64_MIN__ 1E-383DD
00355 #define __WINT_TYPE__ unsigned int
00356 #define __UINT_LEAST32_TYPE__ unsigned int
00357 #define __SIZEOF_SHORT__ 2
00358 #define __FLT32_NORM_MAX__ 3.40282346638528859811704183484516925e+38F32
00359 #define __SSE__ 1
00360 #define __LDBL_MIN_EXP__ (-16381)
00361 #define __FLT64_MAX__ 1.79769313486231570814527423731704357e+308F64
00362 #define __amd64__ 1
00363 #define __WINT_WIDTH__ 32
00364 #define __INT_LEAST64_WIDTH__ 64
00365 #define __FLT32X_MAX_10_EXP__ 308
00366 #define __cpp_namespace_attributes 201411L
00367 #define __SIZEOF_INT128__ 16
00368 #define __FLT16_MIN__ 6.1035156250000000000000000000000e-5F16
00369 #define __FLT64X_IS_IEC_60559__ 1
00370 #define __LDBL_MAX_10_EXP__ 4932
00371 #define __ATOMIC_RELAXED 0
00372 #define __DBL_EPSILON__ double(2.22044604925031308084726333618164062e-16L)
00373 #define __INT_LEAST32_TYPE__ int
00374 #define __LP64__ 1
00375 #define __UINT8_C(c) c
00376 #define __FLT64_MAX_EXP__ 1024
00377 #define __SIZEOF_WCHAR_T__ 4
00378 #define __GNUC_PATCHLEVEL__ 0
00379 #define __FLT128_NORM_MAX__ 1.18973149535723176508575932662800702e+4932F128
00380 #define __FLT64_NORM_MAX__ 1.79769313486231570814527423731704357e+308F64
00381 #define __FLT128_HAS_QUIET_NAN__ 1
00382 #define __INTMAX_MAX__ 0x7fffffffffffffffL
00383 #define __INT_FAST8_TYPE__ signed char
00384 #define __FLT64X_MIN__ 3.36210314311209350626267781732175260e-4932F64x
00385 #define __STDCPP_THREADS__ 1
00386 #define __BFLT16_HAS_DENORM__ 1
00387 #define __GNUC_STDC_INLINE__ 1
00388 #define __FLT64_HAS_DENORM__ 1
00389 #define __FLT32_EPSILON__ 1.19209289550781250000000000000000000e-7F32
00390 #define __FLT16_HAS_DENORM__ 1
00391 #define __DBL_DECIMAL_DIG__ 17
00392 #define __STDC_UTF_32__ 1
00393 #define __INT_FAST8_WIDTH__ 8
00394 #define __FXSR__ 1
00395 #define __FLT32X_MAX__ 1.79769313486231570814527423731704357e+308F32x
00396 #define __DBL_NORM_MAX__ double(1.79769313486231570814527423731704357e+308L)
00397 #define __BYTE_ORDER__ __ORDER_LITTLE_ENDIAN__
00398 #define __GCC_DESTRUCTIVE_SIZE 64
00399 #define __INTMAX_WIDTH__ 64
00400 #define __cpp_runtime_arrays 198712L
00401 #define __FLT32_DIG__ 6
00402 #define __UINT64_TYPE__ long unsigned int
00403 #define __UINT32_C(c) c ## U
00404 #define __cpp_alias_templates 200704L
00405 #define __FLT_DENORM_MIN__ 1.40129846432481707092372958328991613e-45F
00406 #define __FLT128_IS_IEC_60559__ 1
```

```

00407 #define __INT8_MAX__ 0x7f
00408 #define __LONG_WIDTH__ 64
00409 #define __DBL_MIN__ double(2.22507385850720138309023271733240406e-308L)
00410 #define __PIC__ 2
00411 #define __INT32_MAX__ 0x7fffffff
00412 #define __UINT_FAST32_TYPE__ long unsigned int
00413 #define __FLT16_MANT_DIG__ 11
00414 #define __FLT32X_NORM_MAX__ 1.79769313486231570814527423731704357e+308F32x
00415 #define __CHAR32_TYPE__ unsigned int
00416 #define __FLT_MAX__ 3.40282346638528859811704183484516925e+38F
00417 #define __SSE2__ 1
00418 #define __cpp_deduction_guides 201703L
00419 #define __BFLT16_NORM_MAX__ 3.38953138925153547590470800371487867e+38BF16
00420 #define __INT32_TYPE__ int
00421 #define __SIZEOF_DOUBLE__ 8
00422 #define __cpp_exceptions 199711L
00423 #define __FLT_MIN_10_EXP__ (-37)
00424 #define __FLT64_MIN__ 2.22507385850720138309023271733240406e-308F64
00425 #define __INT_LEAST32_WIDTH__ 32
00426 #define __INTMAX_TYPE__ long int
00427 #define __GLIBCXX_BITSIZE_INT_N_0 128
00428 #define __FLT32X_HAS_QUIET_NAN__ 1
00429 #define __ATOMIC_CONSUME 1
00430 #define __GNUC_MINOR__ 2
00431 #define __GLIBCXX_TYPE_INT_N_0 __int128
00432 #define __UINTMAX_MAX__ 0xffffffffffffffffUL
00433 #define __FLT32X_DENORM_MIN__ 4.94065645841246544176568792868221372e-324F32x
00434 #define __cpp_template_template_args 201611L
00435 #define __DBL_MAX_10_EXP__ 308
00436 #define __LDBL_DENORM_MIN__ 3.64519953188247460252840593361941982e-4951L
00437 #define __INT16_C(c) c
00438 #define __STDC__ 1
00439 #define __PTRDIFF_TYPE__ long int
00440 #define __FLT32X_MIN_10_EXP__ (-307)
00441 #define __UINTPTR_TYPE__ long unsigned int
00442 #define __DEC64_SUBNORMAL_MIN__ 0.000000000000001E-383DD
00443 #define __DEC128_MANT_DIG__ 34
00444 #define __LDBL_MIN_10_EXP__ (-4931)
00445 #define __cpp_generic_lambdas 201304L
00446 #define __SSE_MATH__ 1
00447 #define __SIZEOF_LONG_LONG__ 8
00448 #define __cpp_user_defined_literals 200809L
00449 #define __FLT128_DECIMAL_DIG__ 36
00450 #define __GCC_ATOMIC_LLONG_LOCK_FREE 2
00451 #define __FLT32_HAS_QUIET_NAN__ 1
00452 #define __FLT_DECIMAL_DIG__ 9
00453 #define __UINT_FAST16_MAX__ 0xffffffffffffffffUL
00454 #define __LDBL_NORM_MAX__ 1.18973149535723176502126385303097021e+4932L
00455 #define __GCC_ATOMIC_SHORT_LOCK_FREE 2
00456 #define __SIZE_MAX__ 0xffffffffffffffffUL
00457 #define __UINT_FAST8_TYPE__ unsigned char
00458 #define __GNU_SOURCE 1
00459 #define __cpp_init_captures 201304L
00460 #define __ATOMIC_ACQ_REL 4
00461 #define __ATOMIC_RELEASE 3

```

## 5.2 ui\_mainwindow.h

```

00001 /*****
00002 ** Form generated from reading UI file 'mainwindow.ui'
00003 **
00004 ** Created by: Qt User Interface Compiler version 6.7.0
00005 **
00006 ** WARNING! All changes made in this file will be lost when recompiling UI file!
00007 *****/
00008
00009 #ifndef UI_MAINWINDOW_H
00010 #define UI_MAINWINDOW_H
00011
00012 #include <QtCore/QVariant>
00013 #include <QtWidgets/QApplication>
00014 #include <QtWidgets/QFrame>
00015 #include <QtWidgets/QGroupBox>
00016 #include <QtWidgets/QHeaderView>
00017 #include <QtWidgets/QLabel>
00018 #include <QtWidgets/QListWidget>
00019 #include <QtWidgets/QMainWindow>
00020 #include <QtWidgets/QPushButton>
00021 #include <QtWidgets/QTableView>
00022 #include <QtWidgets/QVBoxLayout>
00023 #include <QtWidgets/QWidget>
00024
00025 QT_BEGIN_NAMESPACE

```

```

00026
00027 class Ui_MainWindow
00028 {
00029 public:
00030     QWidget *centralwidget;
00031     QGroupBox *groupBox;
00032     QFrame *nationalID_frame_2;
00033     QLabel *nationalID_label_2;
00034     QLabel *user_NationalID_2;
00035     QFrame *Balance_frame_2;
00036     QLabel *Balance_label_2;
00037     QLabel *user_balance_2;
00038     QFrame *phoneNumber_frame_2;
00039     QLabel *phoneNumber_label_2;
00040     QLabel *user_phone_Number_2;
00041     QFrame *fullName_frame_2;
00042     QLabel *fullName_label_2;
00043     QLabel *user_fullName_2;
00044     QTableView *tableView;
00045     QWidget *layoutWidget;
00046     QVBoxLayout *verticalLayout;
00047     QLabel *Clients_label;
00048     QListWidget *Clients_list;
00049     QPushButton *pushButton;
00050     QPushButton *Update_Button;
00051
00052 void setupUi(QMainWindow *MainWindow)
00053 {
00054     if (MainWindow->objectName().isEmpty())
00055         MainWindow->setObjectName("MainWindow");
00056     MainWindow->resize(800, 600);
00057     centralwidget = new QWidget(MainWindow);
00058     centralwidget->setObjectName("centralwidget");
00059     groupBox = new QGroupBox(centralwidget);
00060     groupBox->setObjectName("groupBox");
00061     groupBox->setGeometry(QRect(30, 30, 461, 331));
00062     nationalID_frame_2 = new QFrame(groupBox);
00063     nationalID_frame_2->setObjectName("nationalID_frame_2");
00064     nationalID_frame_2->setGeometry(QRect(10, 160, 431, 51));
00065     nationalID_frame_2->setFrameShape(QFrame::StyledPanel);
00066     nationalID_frame_2->setFrameShadow(QFrame::Raised);
00067     nationalID_label_2 = new QLabel(nationalID_frame_2);
00068     nationalID_label_2->setObjectName("nationalID_label_2");
00069     nationalID_label_2->setGeometry(QRect(20, 10, 81, 31));
00070     user_NationalID_2 = new QLabel(nationalID_frame_2);
00071     user_NationalID_2->setObjectName("user_NationalID_2");
00072     user_NationalID_2->setGeometry(QRect(130, 10, 271, 31));
00073     Balance_frame_2 = new QFrame(groupBox);
00074     Balance_frame_2->setObjectName("Balance_frame_2");
00075     Balance_frame_2->setGeometry(QRect(90, 270, 251, 51));
00076     Balance_frame_2->setFrameShape(QFrame::StyledPanel);
00077     Balance_frame_2->setFrameShadow(QFrame::Raised);
00078     Balance_label_2 = new QLabel(Balance_frame_2);
00079     Balance_label_2->setObjectName("Balance_label_2");
00080     Balance_label_2->setGeometry(QRect(10, 10, 61, 31));
00081     user_balance_2 = new QLabel(Balance_frame_2);
00082     user_balance_2->setObjectName("user_balance_2");
00083     user_balance_2->setGeometry(QRect(80, 10, 151, 31));
00084     phoneNumber_frame_2 = new QFrame(groupBox);
00085     phoneNumber_frame_2->setObjectName("phoneNumber_frame_2");
00086     phoneNumber_frame_2->setGeometry(QRect(10, 40, 431, 51));
00087     phoneNumber_frame_2->setFrameShape(QFrame::StyledPanel);
00088     phoneNumber_frame_2->setFrameShadow(QFrame::Raised);
00089     phoneNumber_label_2 = new QLabel(phoneNumber_frame_2);
00090     phoneNumber_label_2->setObjectName("phoneNumber_label_2");
00091     phoneNumber_label_2->setGeometry(QRect(10, 10, 101, 31));
00092     user_phone_Number_2 = new QLabel(phoneNumber_frame_2);
00093     user_phone_Number_2->setObjectName("user_phone_Number_2");
00094     user_phone_Number_2->setGeometry(QRect(130, 10, 271, 31));
00095     fullName_frame_2 = new QFrame(groupBox);
00096     fullName_frame_2->setObjectName("fullName_frame_2");
00097     fullName_frame_2->setEnabled(true);
00098     fullName_frame_2->setGeometry(QRect(10, 100, 431, 51));
00099     fullName_frame_2->setAutoFillBackground(false);
00100     fullName_frame_2->setFrameShape(QFrame::StyledPanel);
00101     fullName_frame_2->setFrameShadow(QFrame::Raised);
00102     fullName_label_2 = new QLabel(fullName_frame_2);
00103     fullName_label_2->setObjectName("fullName_label_2");
00104     fullName_label_2->setGeometry(QRect(20, 10, 81, 31));
00105     user_fullName_2 = new QLabel(fullName_frame_2);
00106     user_fullName_2->setObjectName("user_fullName_2");
00107     user_fullName_2->setGeometry(QRect(130, 10, 271, 31));
00108     tableView = new QTableView(centralwidget);
00109     tableView->setObjectName("tableView");
00110     tableView->setGeometry(QRect(30, 380, 741, 192));
00111     layoutWidget = new QWidget(centralwidget);
00112     layoutWidget->setObjectName("layoutWidget");

```

```

00113         layoutWidget->setGeometry(QRect(510, 49, 258, 311));
00114         verticalLayout = new QVBoxLayout(layoutWidget);
00115         verticalLayout->setObjectName("verticalLayout");
00116         verticalLayout->setContentsMargins(0, 0, 0, 0);
00117         Clients_label = new QLabel(layoutWidget);
00118         Clients_label->setObjectName("Clients_label");
00119
00120         verticalLayout->addWidget(Clients_label);
00121
00122         Clients_list = new QListWidget(layoutWidget);
00123         Clients_list->setObjectName("Clients_list");
00124
00125         verticalLayout->addWidget(Clients_list);
00126
00127         pushButton = new QPushButton(layoutWidget);
00128         pushButton->setObjectName("pushButton");
00129
00130         verticalLayout->addWidget(pushButton);
00131
00132         Update_Button = new QPushButton(centralwidget);
00133         Update_Button->setObjectName("Update_Button");
00134         Update_Button->setGeometry(QRect(590, 10, 88, 26));
00135         MainWindow->setCentralWidget(centralwidget);
00136
00137         retranslateUi(MainWindow);
00138
00139         QObject::connectSlotsByName(MainWindow);
00140     } // setupUi
00141
00142     void retranslateUi(QMainWindow *MainWindow)
00143     {
00144         MainWindow->setWindowTitle(QCoreApplication::translate("MainWindow", "MainWindow", nullptr));
00145         groupBox->setTitle(QCoreApplication::translate("MainWindow", "Client Information", nullptr));
00146         nationalID_label_2->setText(QCoreApplication::translate("MainWindow", "National ID",
00147             nullptr));
00147         user_NationalID_2->setText(QString());
00148         Balance_label_2->setText(QCoreApplication::translate("MainWindow", "Balance", nullptr));
00149         user_balance_2->setText(QString());
00150         phoneNumber_label_2->setText(QCoreApplication::translate("MainWindow", "Phone Number",
00151             nullptr));
00151         user_phone_Number_2->setText(QString());
00152         fullName_label_2->setText(QCoreApplication::translate("MainWindow", "Full Name", nullptr));
00153         user_fullName_2->setText(QString());
00154         Clients_label->setText(QCoreApplication::translate("MainWindow", "Clients", nullptr));
00155         pushButton->setText(QCoreApplication::translate("MainWindow", "Show INFO", nullptr));
00156         Update_Button->setText(QCoreApplication::translate("MainWindow", "Update ", nullptr));
00157     } // retranslateUi
00158
00159 };
00160
00161 namespace Ui {
00162     class MainWindow: public Ui_MainWindow {};
00163 } // namespace Ui
00164
00165 QT_END_NAMESPACE
00166
00167 #endif // UI_MAINWINDOW_H

```

## 5.3 client.h

```

00001 #ifndef CLIENT_H
00002 #define CLIENT_H
00003 #include <QString>
00004 class Client
00005 {
00006 private:
00007     QString fullName,password;
00008     int age, national_ID, phoneNumber;
00009 public:
00010     Client();
00011     void set_fullName(QString fullName);
00012     QString get_fullName();
00013     void set_password(QString password);
00014     QString get_password();
00015     void set_age(int age);
00016     int get_age();
00017     void set_national_ID(int national_ID);
00018     int get_national_ID();
00019     void set_phoneNumber(int phoneNumber);
00020     int get_phoneNumber();
00021     void fill_client_info(QList<QString> cData ,Client &c);
00022 };
00023
00024 #endif // CLIENT_H

```

## 5.4 dbmanager.h

```

00001 #ifndef DBMANAGER_H
00002 #define DBMANAGER_H
00003 #include "client.h"
00004 #include <QtSql>
00005 #include <QtDebug>
00006 class DBManager
00007 {
00008 public:
00009     DBManager();
00010     bool insertNewSWallet(Client client);
00011     bool checkCredentials(int Phone_Number, QString Password);
00012     QList<QString> fetch_UserData(int Phone_Number);
00013     QList<QString> makeDeposit(QString Phone_Number, QString Amount);
00014     QList<QString> makeWithdraw(QString Phone_Number, QString Amount);
00015     QList<QString> GetClients();
00016     QSqlQueryModel * fetch_UserTransactions(QString);
00017 private: // Fields
00018     QSqlDatabase db;
00019 private: // Methods
00020     void openConnection();
00021 };
00022
00023 #endif // DBMANAGER_H

```

## 5.5 mainwindow.h

```

00001 #ifndef MAINWINDOW_H
00002 #define MAINWINDOW_H
00003 #include "servermanager.h"
00004 #include <QMainWindow>
00005 #include <QMessageBox>
00006 QT_BEGIN_NAMESPACE
00007 namespace Ui {
00008     class MainWindow;
00009 }
00010 QT_END_NAMESPACE
00011
00012 class MainWindow : public QMainWindow
00013 {
00014     Q_OBJECT
00015
00016 public:
00017     MainWindow(QWidget *parent = nullptr);
00018     ~MainWindow();
00019 private slots:
00020     void newClientConnected(QTcpSocket * client);
00021     void ClientDisconnected(QTcpSocket * client);
00022     void on_pushButton_clicked();
00023
00024     void on_Update_Button_clicked();
00025
00026 private: // Fields
00027     Ui::MainWindow *ui;
00028     ServerManager * server ;
00029 private: // Methods
00030     void setupServer();
00031     void displayClientsList();
00032     void setClientInfo(QString, QList<QString>);
00033 };
00034 #endif // MAINWINDOW_H

```

## 5.6 servermanager.h

```

00001 #ifndef SERVERMANAGER_H
00002 #define SERVERMANAGER_H
00003
00004 #include "client.h"
00005 #include "dbmanager.h"
00006 #include <QObject>
00007 #include <QTcpServer>
00008 #include <QTcpSocket>
00009 class ServerManager : public QObject
00010 {
00011     Q_OBJECT
00012 public:
00013     explicit ServerManager(ushort port = 4500 ,QObject *parent = nullptr);
00014 private slots:

```

```
00015     void newClientConnectionRecieved();
00016     void onClientDisconnected();
00017     void dataRecieved(QTcpSocket * client);
00018 signals:
00019     void newClientConnected(QTcpSocket * client);
00020     void ClientDisconnected(QTcpSocket * client);
00021 private: // Fields
00022     QTcpServer * server;
00023     QList<QTcpSocket *> clients;
00024     QTcpSocket * clientSocket;
00025     Client client;
00026
00027 private: //Methods
00028     void setupServer(ushort port);
00029     void setupDB();
00030 public:
00031     DBManager * DB;
00032
00033 };
00034
00035 #endif // SERVERMANAGER_H
```



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