# FactDev

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# Chapter 1

# FactDev documentation

This website contains the documentation of FactDev, a billings and quotes software.

## Team

FACT team is a team for Universitiy Project. Members of this team are :

- Florent Berbie (KraTuX31)
- Antoine de Roquemaurel (aroquemaurel)
- Cédric Rohaut (Oxynos)
- Manantsoa Andriamihary Razanajatovo (manantsoa)

For more informations, you can go to http://fact-team.github.io.

## What is FactDev ?

FactDev is a software for quotes and billings developped by FACT team for university project in Toulouse II↩ I University – Paul Sabatier.

This software is developped with C++ and Qt framework, and there is differents features :

- Customers database
- Differents projects for customers
- Quotes
- Billings

## Documentation

You can access to the documentation generated by Doxygen here :

- HTML Documentation
- PDF Documentation

## Installation and using

- User Manual

# Chapter 2

# README

`![Build Status](https://travis-ci.org/robertknight/qt-mustache.svg?branch=master)`

## Qt Mustache

qt-mustache is a simple library for rendering `Mustache templates`.

#### Example Usage

“‘cpp #include "mustache.h"

QVariantHash contact; contact["name"] = "John Smith"; contact["email"] = "john.smith@gmail.com";

QString contactTemplate = "{{name}} <a href=\"mailto:{{email}}">{{email}}";

Mustache::Renderer renderer; Mustache::QtVariantContext context(contact);

QTextStream output(stdout); output << renderer.render(contactTemplate, &context); “‘

Outputs: `<b>John Smith</b> <a href="mailto:john.smith\@gmail.com">john.↩ smith@gmail.com</a>`

For further examples, see the tests in `test_mustache.cpp`

#### Building

- To build the tests, run `qmake` followed by `make`
- To use qt-mustache in your project, just add the `mustache.h` and `mustache.cpp` files to your project.

#### License

qt-mustache is licensed under the BSD license.

#### Dependencies

qt-mustache depends on the QtCore library. It is compatible with Qt 4 and Qt 5.

## Usage

### Syntax

qt-mustache uses the standard Mustache syntax. See the Mustache manual for details.

### Data Sources

qt-mustache expands Mustache tags using values from a Mustache::Context. Mustache::QtVariant↩ Context is a simple context implementation which wraps a QVariantHash or QVariantMap. If you want to render a template using a custom data source, you can either create a QVariantHash which mirrors the data source or you can re-implement Mustache::Context.

### Partials

When a {{>partial}} Mustache tag is encountered, qt-mustache will attempt to load the partial using a Mustache::PartialResolver provided by the context. Mustache::PartialMap is a simple resolver which takes a QHash<QString,QString> map of partial names to values and looks up partials in that map. Mustache::PartialFileLoader is another simple resolver which fetches partials from <partial name>.mustache files in a specified directory.

You can re-implement the Mustache::PartialResolver interface if you want to load partials from a custom source (eg. a database).

### Error Handling

If an error occurs when rendering a template, Mustache::Renderer::errorPosition() is set to non-negative value and template rendering stops. If the error occurs whilst rendering a partial template, error↩ Partial() contains the name of the partial.

### Lambdas

The Mustache manual provides a mechanism to customize rendering of template sections by setting the value for a tag to a callable object (eg. a lambda in Ruby or Javascript), which takes the unrendered block of text for a template section and renders it itself. qt-mustache supports this via the Context::canEval() and Context↩ ::eval() methods.

# Chapter 3

# QTestRunner

A repo for Increase QTest productivity

Thanks to https://marcoarena.wordpress.com/2012/06/23/increase-your-qtest-productivity/
!

> The QTestLib framework is a tool for unit testing Qt based applications and libraries. I find it precious and simple to use, though it lacks some important features, supported, for example, by GTest. I'm not talking about mocking – for this you generally need an out-and-out framework (like GMock) – instead, I'm referring to simple things like fast deploying. Suppose you have written a test class like this:

This repo contains only the code in this article.

# Chapter 4

# Namespace Index

## 4.1 Namespace List

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


Databases
    Class for Database, contains queries . . . . . ??
Gui . . . . . ??
Gui::Widgets
    Contains Widgets classes . . . . . ??
Models
    Models classes . . . . . ??

# Chapter 5

# Hierarchical Index

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# Chapter 6

# Class Index

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Gui::Dialogs::AddQuoteDialog
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Utils::HierarchicalSystem
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Mustache::PartialMap . . . ??
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# Chapter 7

# Namespace Documentation

## 7.1 Databases Namespace Reference

Class for Database, contains queries.

### Classes

- class AccessDatabase
- class BillingDatabase

  *The **BillingDatabase** class Billing (or Quote) table database.*
- class ContributoryDatabase

  *The **ContributoryDatabase** class Contributory (or Quote) table database.*
- class CustomerDatabase

  *The **CustomerDatabase** class Customer table database.*
- class Database

  *The **Database** class Master class for all database access.*
- class ProjectDatabase

  *The ProjectDatabase class Project table database.*
- class RateDatabase
- class UserDatabase

  *The UserDatabase class Access to User data in the the table User of the **Database***

### Enumerations

- enum **DbType** { **SQLITE**, **MYSQL** }

### 7.1.1 Detailed Description

Class for Database, contains queries.

## 7.2 Gui Namespace Reference

### Namespaces

- Widgets

  *Contains Widgets classes.*

### Classes

- class MainWindow

  *The MainWindow class Main Window of the software.*

#### 7.2.1 Detailed Description

Classes for Graphical User Interface

## 7.3 Gui::Widgets Namespace Reference

Contains Widgets classes.

### Classes

- class ComboBoxModelWidget

  *The ComboBoxModelWidget class Model of ComboBox.*
- class ContributoriesWidget

  *The ContributoriesWidget class Widget of Contributories.*
- class CustomerContextualMenu

  *Display contextual menu on a customer.*
- class CustomerDataWidget

  *Class for display info of a customer.*
- class DatabaseSettingsWidget

  *The DatabaseSettingsWidget class Windows of database settings.*
- class Popup

  *Class for display popup quickly.*
- class ProjectsWidget

  *The ProjectsWidget class Actions on Project.*
- class RateWidget

  *Class for display Rate.*
- class searchWidget

  *Class for search in database.*

#### 7.3.1 Detailed Description

Contains Widgets classes.

## 7.4 Models Namespace Reference

Models classes.

### Classes

- class Billing

  *The Billing class : Billing or Quote of a Customer.*
- class Calculable

  *The Calculable interface Models who are calculable.*

- class ContributoriesList

  *The ContributoriesList class List of contributories.*
- class Contributory

  *The Unit enum Unity of work : hour or day.*
- class Customer

  *The Customer class Customer.*
- class IModel

  *The IModel class.*
- class People

  *The People class People.*
- class Project

  *The Project class : Project linked to a Customer.*
- class Rate

  *The Rate class Rate of a prestation.*
- class Search

  *The Search class.*
- class Statistics
- class Unit

  *The Unit class An unity for billing calculs.*
- class User

  *The User class **User** of it application.*

## Enumerations

- enum TypeUnit { **HOUR**, **DAY**, **MONTH** }

  *The TypeUnit enum Type Unit : hour or days.*

### 7.4.1 Detailed Description

Models classes.

# Chapter 8

# Class Documentation

## 8.1 Databases::AccessDatabase Class Reference

### Static Public Member Functions

- static void **init** ()
- static void **commit** ()

### Static Public Attributes

- static QString **_address**
- static int **_port**
- static QString **_userDb**
- static QString **_password**
- static QString **_dbName**
- static Databases::DbType **_dbType**
- static bool **_exists**

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

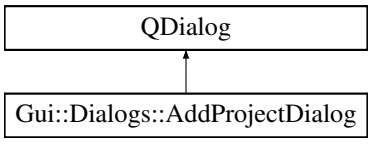
- src/database/accessdatabase.h
- src/database/accessdatabase.cpp

## 8.2 Gui::Dialogs::AddProjectDialog Class Reference

The AddProjectDialog class Windows to add a new Project.

`#include <addprojectdialog.h>`

Inheritance diagram for Gui::Dialogs::AddProjectDialog:



### Public Slots

- void checkFields ()

  *AddProjectDialog::checkFields Check if fields are valid.*

### Public Member Functions

- AddProjectDialog (int idProject=0, int noRowCustomer=0, QWidget ∗parent=0)

  *AddProjectDialogAddProjectDialog Construct a windows according an idCustomer and, optionnaly, an idProject*
- void accept ()

  *AddProjectDialog::accept Valid data inputed by user and add these data in Database.*
- void reject ()

  *AddProjectDialog::reject Cancel the operation and close the windows.*
- void fillFields ()

  *AddProjectDialog::fillFields Fill the differents fields of the current windows according the Project data existing As a project requires to be linked to a Customer, the Customer selection part may be disable.*

#### 8.2.1 Detailed Description

The AddProjectDialog class Windows to add a new Project.

**Author**

Florent Berbie

**See also**

Project

#### 8.2.2 Constructor & Destructor Documentation

##### 8.2.2.1 Gui::Dialogs::AddProjectDialog::AddProjectDialog ( int *idProject* = `0`, int *noRowCustomer* = `0`, QWidget ∗ *parent* = `0` ) `[explicit]`

AddProjectDialogAddProjectDialog Construct a windows according an *idCustomer* and, optionnaly, an *idProject*

**Parameters**

| | |
|---|---|
| *noRowCustomer* | Row number of the Customer |
| *idProject* | Project identify |
| *parent* | QWidget of the current windows |

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

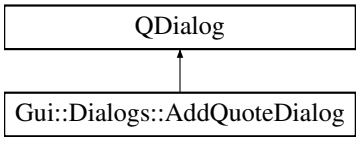
- src/gui/dialogs/addprojectdialog.h
- src/gui/dialogs/addprojectdialog.cpp

## 8.3 Gui::Dialogs::AddQuoteDialog Class Reference

The AddQuoteDialog class Window to add or modify a Quote.

`#include <addquotedialog.h>`

Inheritance diagram for Gui::Dialogs::AddQuoteDialog:




### Public Slots

- void **updateBtn** (void)
- void **changeDocType** ()

### Public Member Functions

- AddQuoteDialog (bool isBilling, int idCustomer=0, int id=0, bool copy=false, QWidget ∗parent=0)

  *AddQuoteDialog::AddQuoteDialog Construct a windows AddQuoteDialog.*
- void fillFields ()

  *AddQuoteDialog::Fill line edits with the data of the quote.*
- int getNumber ()

  *AddQuoteDialog::getNumber return the number of bill or quote.*
- void accept ()

  *AddQuoteDialog::accept Valid data inputed by user and add these data in Database.*
- bool getCopy () const

  *AddQuoteDialog::getCopy return if **AddQuoteDialog** is an add by copy of Billing/quote or if it's edition or add of Billing/quote.*
- void setCopy (bool copy)

  *AddQuoteDialog::setCopy Change the _copy value to define if it's a copy of a Billing/quote or if it's a new Billing or a Billing edition.*
- int getIdCustomer () const

  *AddQuoteDialog::getIdCustomer get the id of the customer changing his quote/billing.*
- void fillQuoteBilling (bool isBilling)

  *AddQuoteDialog::fillQuoteBilling fill fields for a Billing or a quote.*
- void fillQuoteBillingCopy (bool isBilling)

  *AddQuoteDialog::fillQuoteBilling fill fields if it's a Billing or a quote for a copy.*
- void setQuoteIdNumber (int id, int idCustomer, bool isBilling)

  *AddQuoteDialog::setQuoteIdNumber set id and number of the _quote*

### 8.3.1 Detailed Description

The AddQuoteDialog class Window to add or modify a Quote.

**Author**

### 8.3.2 Constructor & Destructor Documentation

#### 8.3.2.1 Gui::Dialogs::AddQuoteDialog::AddQuoteDialog ( bool *isBilling*, int *idCustomer* = `0`, int *id* = `0`, bool *copy* = `false`, QWidget ∗ *parent* = `0` ) `[explicit]`

AddQuoteDialog::AddQuoteDialog Construct a windows AddQuoteDialog.

**Parameters**

| | |
|---|---|
| *isBilling* | displaying of a quote or a Billing |
| *idCustomer* | the id of the Customer |
| *id* | the id of the quote or the billing of the Customer's Project |
| *edit* | if it's an edition or a copy of a quote/Billing |
| *parent* | QWidget of the current windows |

### 8.3.3 Member Function Documentation

#### 8.3.3.1 void Gui::Dialogs::AddQuoteDialog::fillQuoteBilling ( bool *isBilling* )

AddQuoteDialog::fillQuoteBilling fill fields for a Billing or a quote.

**Parameters**

| | |
|---|---|
| *isBilling* | if it's a quote or a Billing |

#### 8.3.3.2 bool Gui::Dialogs::AddQuoteDialog::getCopy ( ) const

AddQuoteDialog::getCopy return if **AddQuoteDialog** is an add by copy of Billing/quote or if it's edition or add of Billing/quote.

**Returns**

if it's a copy or not

#### 8.3.3.3 int Gui::Dialogs::AddQuoteDialog::getIdCustomer ( ) const

AddQuoteDialog::getIdCustomer get the id of the customer changing his quote/billing.

**Returns**

the id of the customer

#### 8.3.3.4 int Gui::Dialogs::AddQuoteDialog::getNumber ( )

AddQuoteDialog::getNumber return the number of bill or quote.

**Returns**

int

#### 8.3.3.5 void Gui::Dialogs::AddQuoteDialog::setCopy ( bool *copy* )

AddQuoteDialog::setCopy Change the *_copy* value to define if it's a copy of a Billing/quote or if it's a new Billing or a Billing edition.

**Parameters**

| | |
|---|---|
| *copy* | |

#### 8.3.3.6 void Gui::Dialogs::AddQuoteDialog::setQuoteIdNumber ( int *id,* int *idCustomer,* bool *isBilling* )

AddQuoteDialog::setQuoteIdNumber set id and number of the *_quote*

**Parameters**

| | |
|---|---|
| *id* | the id of the Billing |
| *idCustomer* | the id of the customer to set the *number* |
| *isBilling* | if it's a quote or a Billing |

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

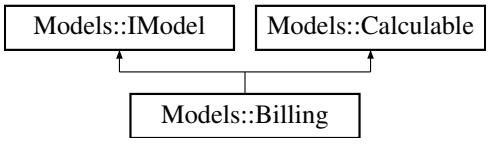
- src/gui/dialogs/addquotedialog.h
- src/gui/dialogs/addquotedialog.cpp

## 8.4 Models::Billing Class Reference

The Billing class : Billing or Quote of a Customer.

`#include <billing.h>`

Inheritance diagram for Models::Billing:




### Public Member Functions

- Billing ()

  *Billing::Billing. Construct a Billing.*
- Billing (int id)

  *Billing::Billing. Construct a Billing or quote.*
- ~Billing ()

  *destruct a billing object*
- void commit ()

  *Billing::commit. Insert a modification in Billing table on the database.*
- void hydrat (int getId)

  *Billing::hydrat. Update of the Billing which is specified by getId*
- void remove ()

  *Billing::remove. Remove a Billing.*
- QVariantHash getDataMap ()

  *Billing::getDataMap Get all data of model with a HashMap key/value.*
- double getPrice (bool paied=false)

  *getPrice Return the price of a calculable object*
- double getSumQuantity ()

  *ContributoriesList::getSumQuantity Return the sum of quantity (number of days) of the Contributories.*
- void generateTex ()

*Billing::generateTex* *Generate a .tex file for the billing.*

- void generatePdf ()

  *Billing::generatePdf* *Generate a .pdf file for the billing.*

- QString getPath ()

  *Billing::getPath* *Return the path of billing filename (without extension)*

- QString getFolder ()

  *Billing::getFolder* *Return the directory of billing.*

- QString getFilename ()

  *Billing::getFilename* *Return the filename of billing (without extension)*

- ContributoriesList & getContributories ()

  *Billing::getContributories. Return a map of* ***Contributory*** *for each* ***Project*** *of the* ***Billing***

- void addContributory (Contributory &c)

  *Billing::addContributories Add a new contributory for project p.*

- QString getTitle () const

  *Billing::getTitle. return title of* ***Billing***

- void setTitle (const QString &getTitle)

  *Billing::setTitle. Modify the title of* ***Billing***

- QString getDescription () const

  *Billing::getDescription. return description of* ***Billing***

- void setDescription (const QString &getDescription)

  *Billing::setDescription. Modify the description of* ***Billing***

- int getNumber () const

  *Billing::getNumber. Return number of the* ***Billing****.*

- void setNumber (int getNumber)

  *Billing::setNumber. Modify _number of Billing.*

- bool isBilling () const

  *Billing::isBilling. Return if it's a billing or a quote.*

- void setIsBilling (bool isBilling)

  *Billing::setIsBilling. Modify isBilling of* ***Billing****.*

- QDate getDate () const

  *Billing::getDate. return date of the* ***Billing***

- void setDate (const QDate &getDate)

  *Billing::setDate. Modify date of the* ***Billing***

- bool isPaid () const

  *Billing::isPaid* *Return TRUE if thee current billing is paid else return FALSE.*

- void setIsPaid (bool isPaid)

  *Billing::setIsPaid* *Define the current billing according the argument isPaid*

- bool operator== (const Billing &b)

  *Billing::operator ==* *define the operator "==" to compare two billings and to see if they are the same.*

- bool operator!= (const Billing &b)

  *Billing::operator !=* *defines the operator "!=" to compare two* ***Billing*** *and to see if they are different.*

- void **setContributories** (const ContributoriesList &contributories)

- bool operator< (const Billing &b) const

  *Billing::operator <* *defines the operator "< to compare two* ***Billing*** *and to see if the fisrt is anterior to the second.*

- QStandardItem * getItem ()

  *Billing::getItem* *Return the bill/quote item.*

### Additional Inherited Members

### 8.4.1 Detailed Description

The Billing class : Billing or Quote of a Customer.

**Author**

Antoine de Roquemaurel
Florent Berbie

### 8.4.2 Constructor & Destructor Documentation

#### 8.4.2.1 Models::Billing::Billing ( int *id* )

Billing::Billing. Construct a Billing or quote.

**Parameters**

| | |
|---|---|
| *int* | id |

### 8.4.3 Member Function Documentation

#### 8.4.3.1 void Models::Billing::addContributory ( Contributory & *c* )

Billing::addContributories Add a new contributory for project p.

**Parameters**

| | |
|---|---|
| *p* | The Project who contain Contributory |
| *c* | The new Contributory |

#### 8.4.3.2 ContributoriesList & Models::Billing::getContributories ( )

Billing::getContributories. Return a map of **Contributory** for each **Project** of the **Billing**

**Returns**

QMap<Project, QList<Contributory>>

#### 8.4.3.3 QVariantHash Models::Billing::getDataMap ( ) [virtual]

Billing::getDataMap Get all data of model with a HashMap key/value.

**Returns**

Model's data

Implements Models::IModel.

#### 8.4.3.4 QDate Models::Billing::getDate ( ) const

Billing::getDate. return date of the **Billing**

**Returns**

date of Billing

#### 8.4.3.5 QString Models::Billing::getDescription ( ) const

Billing::getDescription. return description of **Billing**

**Returns**

description of Billing

#### 8.4.3.6 QString Models::Billing::getFilename ( )

Billing::getFilename Return the filename of billing (without extension)

**Returns**

Filename of Bulling

#### 8.4.3.7 QString Models::Billing::getFolder ( )

Billing::getFolder Return the directory of billing.

**Returns**

Billing directory

#### 8.4.3.8 QStandardItem * Models::Billing::getItem ( )

Billing::getItem Return the bill/quote item.

**Returns**

QStandardItem an item for QTree (level/depth 3)

#### 8.4.3.9 int Models::Billing::getNumber ( ) const

Billing::getNumber. Return number of the **Billing**.

**Returns**

_number of Billing

#### 8.4.3.10 QString Models::Billing::getPath ( )

Billing::getPath Return the path of billing filename (without extension)

**Returns**

billing path

#### 8.4.3.11 double Models::Billing::getPrice ( bool *paied* = `false` ) [virtual]

getPrice Return the price of a calculable object

**Returns**

The price

Implements Models::Calculable.

#### 8.4.3.12 double Models::Billing::getSumQuantity ( ) [virtual]

ContributoriesList::getSumQuantity Return the sum of quantity (number of days) of the Contributories.

**Returns**

sum of quantity in days

Implements Models::Calculable.

#### 8.4.3.13 QString Models::Billing::getTitle ( ) const

Billing::getTitle. return title of **Billing**

**Returns**

title of Billing

#### 8.4.3.14 void Models::Billing::hydrat ( int *getId* ) [virtual]

Billing::hydrat. Update of the Billing which is specified by *getId*

**Parameters**

| | |
|---|---|
| *getId* | |

Implements Models::IModel.

#### 8.4.3.15 bool Models::Billing::isBilling ( ) const

Billing::isBilling. Return if it's a billing or a quote.

**Returns**

if it's billing or a quote

#### 8.4.3.16 bool Models::Billing::isPaid ( ) const

Billing::isPaid Return TRUE if thee current billing is paid else return FALSE.

**Returns**

Boolean

#### 8.4.3.17 bool Models::Billing::operator!= ( const Billing & *b* )

Billing::operator != defines the operator "!=" to compare two **Billing** and to see if they are different.

**Parameters**

| | |
|---|---|
| *b* | the **Billing** to compare with the current **Billing** |

**Returns**

true if the **Billing** are different else false

#### 8.4.3.18 bool Models::Billing::operator< ( const Billing & *b* ) const

Billing::operator < defines the operator "< to compare two **Billing** and to see if the fisrt is anterior to the second.

**Parameters**

| | |
|---|---|
| *b* | the **Billing** to compare with the current **Billing** |

**Returns**

true if the **Billing** are different else false

#### 8.4.3.19 bool Models::Billing::operator== ( const Billing & *b* )

Billing::operator == define the operator "==" to compare two billings and to see if they are the same.

**Parameters**

| | |
|---|---|
| *b* | the **Billing** to compare with the current **Billing** |

**Returns**

true if they are the same billings else false

#### 8.4.3.20 void Models::Billing::setDate ( const QDate & *getDate* )

Billing::setDate. Modify *date* of the **Billing**

**Parameters**

| | |
|---|---|
| *getDate* | the new date of the Billing |

#### 8.4.3.21 void Models::Billing::setDescription ( const QString & *getDescription* )

Billing::setDescription. Modify the description of **Billing**

**Parameters**

| | |
|---|---|
| *getDescription* | Modify the description with *getDescription* |

#### 8.4.3.22 void Models::Billing::setIsBilling ( bool *isBilling* )

Billing::setIsBilling. Modify *isBilling* of **Billing**.

**Parameters**

| | |
|---|---|
| *isBilling* | |

#### 8.4.3.23 void Models::Billing::setIsPaid ( bool *isPaid* )

Billing::setIsPaid Define the current billing according the argument *isPaid*

**Parameters**

| | |
|---|---|
| *isPaid* | Boolean |

#### 8.4.3.24 void Models::Billing::setNumber ( int *getNumber* )

Billing::setNumber. Modify *_number* of Billing.

**Parameters**

| | |
|---|---|
| *getNumber* | the new number of the Billing |

#### 8.4.3.25 void Models::Billing::setTitle ( const QString & *getTitle* )

Billing::setTitle. Modify the title of **Billing**

**Parameters**

| | |
|---|---|
| *getTitle* | Modify the title with *getTitle* |

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

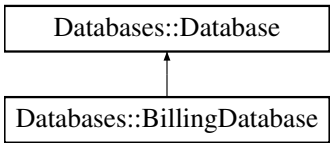
- src/models/billing.h
- src/models/billing.cpp

## 8.5 Databases::BillingDatabase Class Reference

The **BillingDatabase** class Billing (or Quote) table database.

`#include <billingdatabase.h>`

Inheritance diagram for Databases::BillingDatabase:




### Public Member Functions

- Models::Billing * getBilling (const int pId)

  *BillingDatabase::getCustomer get informations about the billing identified by pId*
- WdgModels::BillingsTableModel * getBillingsTable (const int idProject) throw (DbException*)

  *BillingDatabase::getBillingsTable Return an item model of billings for QTableView.*
- int addBilling (const Models::Billing &)

*BillingDatabase::addBilling Add the billing pBilling to the database.*

- void updateBilling (const Models::Billing &)

  *BillingDatabase::updateCustomer Update informations about the billing pCustomer*
- void removeBilling (const int pId)

  *BillingDatabase::removeCustomer Remove the billing with the id pId*
- void addBillingProject (const int idProject, const int idBilling, const int idContributory)

  *BillingDatabase::addBillingProject Link a project, a billing and a contributory in the table BillingProject.*
- bool isBillingPaid (const int pId)

  *BillingDatabase::isBillingPaid Return TRUE if the id pId correspond to a Billing and not quote (isBilling = 1) and if this billing is paid (isPaid = 1) else return FALSE.*
- void removeBillingProject (const int idProject, const int idBilling, const int idContributory)

  *BillingDatabase::removeBillingProject remove a link between a project, a billing and a contributory in the table BillingProject.*
- int getMaxBillingNumber ()

  *getMaxBillingNumber Get the last number of a billing*
- int getMaxQuoteNumber ()

  *getMaxQuoteNumber Get the last number of a quote*
- int getMaxBillingNumberOfCustomer (const int idCustomer)

  *BillingDatabase::getMaxBillingNumberOfCustomer Get the last number of a **Customer**'s Billing.*
- int getMaxQuoteNumberOfCustomer (const int idCustomer)

  *BillingDatabase::getMaxQuoteNumberOfCustomer Get the last number of a **Customer**'s quote.*
- QSharedPointer< Models::Billing > getBilling (QSqlQuery &q)

  *BillingDatabase::getBilling Add the element of the q request and return their.*
- QMap< Project *, Billing * > getAllBillingsOfProject ()

  *BillingDatabase::getAllBillingsOfProject Return a map with the project id as key linked to the billing.*
- QList< Billing > getBillings (const int projectId)

  *BillingDatabase::getBillings get bills by project.*
- QList< Billing > getAllBillingsOnly (const int idProject)

  *BillingDatabase::getAllBillingsOnly get all billings which aren't quotes for the project p*
- QList< Billing > getBillingsBetweenDates (QDate begin, QDate end)

  *BillingDatabase::getBillingsBetweenDates get billings in the list between begin and end dates.*

## Static Public Member Functions

- static BillingDatabase * instance () throw (DbException*)

  *BillingDatabase::getInstance Return an instance of **BillingDatabase***

## Additional Inherited Members

### 8.5.1 Detailed Description

The **BillingDatabase** class Billing (or Quote) table database.

**Author**

**See also**

Database
Billing/Quote

### 8.5.2 Member Function Documentation

#### 8.5.2.1 int Databases::BillingDatabase::addBilling ( const Models::Billing & *pBilling* )

BillingDatabase::addBilling Add the billing *pBilling* to the database.

**Returns**

billing id

#### 8.5.2.2 void Databases::BillingDatabase::addBillingProject ( const int *idProject*, const int *idBilling*, const int *idContributory* )

BillingDatabase::addBillingProject Link a project, a billing and a contributory in the table BillingProject.

**Parameters**

| | |
|---|---|
| *idProject* | Project id |
| *idBilling* | Billing id |
| *idContributory* | Contributory id |

#### 8.5.2.3 QMap< Project *, Billing * > Databases::BillingDatabase::getAllBillingsOfProject ( )

BillingDatabase::getAllBillingsOfProject Return a map with the project id as key linked to the billing.

**Returns**

Map with projects and Billing

#### 8.5.2.4 QList< Billing > Databases::BillingDatabase::getAllBillingsOnly ( const int *idProject* )

BillingDatabase::getAllBillingsOnly get all billings which aren't quotes for the project *p*

**Parameters**

| | |
|---|---|
| *p* | |

**Returns**

the list of **Billing**

#### 8.5.2.5 Models::Billing * Databases::BillingDatabase::getBilling ( const int *pId* )

BillingDatabase::getCustomer get informations about the billing identified by *pId*

**Parameters**

| | |
|---|---|
| *pId* | billing id |

**Returns**

the Billing

#### 8.5.2.6 QSharedPointer< Billing > Databases::BillingDatabase::getBilling ( QSqlQuery & *q* )

BillingDatabase::getBilling Add the element of the *q* request and return their.

**Parameters**

| | |
|---|---|
| *q* | SQL request |

**Returns**

a billing formed according to QSharedPointer

#### 8.5.2.7 QList< Billing > Databases::BillingDatabase::getBillings ( const int *projectId* )

BillingDatabase::getBillings get bills by project.

**Parameters**

| | |
|---|---|
| *projectId* | |

**Returns**

List with bills

#### 8.5.2.8 QList< Billing > Databases::BillingDatabase::getBillingsBetweenDates ( QDate *begin*, QDate *end* )

BillingDatabase::getBillingsBetweenDates get billings in the list between *begin* and *end* dates.

**Parameters**

| | |
|---|---|
| *begin* | |
| *end* | |

**Returns**

the list of **Billing**

#### 8.5.2.9 WdgModels::BillingsTableModel * Databases::BillingDatabase::getBillingsTable ( const int *idProject* ) throw DbException *)

BillingDatabase::getBillingsTable Return an item model of billings for QTableView.

**Parameters**

| | |
|---|---|
| *pId* | the project id of the billings returned |

**Exceptions**

| | |
|---|---|
| *DbException* | |

**Returns**

QStandardItemModel an item model for QTableView

#### 8.5.2.10 int Databases::BillingDatabase::getMaxBillingNumber ( )

getMaxBillingNumber Get the last number of a billing

**Returns**

The max number

#### 8.5.2.11 int Databases::BillingDatabase::getMaxBillingNumberOfCustomer ( const int *idCustomer* )

BillingDatabase::getMaxBillingNumberOfCustomer Get the last number of a **Customer**'s Billing.

**Parameters**

| | |
|---|---|
| *idCustomer* | Customer id |

**Returns**

the last number of the **Customer**'s Billing

#### 8.5.2.12 int Databases::BillingDatabase::getMaxQuoteNumber ( )

getMaxQuoteNumber Get the last number of a quote

**Returns**

The last number

#### 8.5.2.13 int Databases::BillingDatabase::getMaxQuoteNumberOfCustomer ( const int *idCustomer* )

BillingDatabase::getMaxQuoteNumberOfCustomer Get the last number of a **Customer**'s quote.

**Parameters**

| | |
|---|---|
| *idCustomer* | Customer id |

**Returns**

the last number of the **Customer**'s quote

#### 8.5.2.14 BillingDatabase * Databases::BillingDatabase::instance ( ) throw DbException *) [static]

BillingDatabase::getInstance Return an instance of **BillingDatabase**

**See also**

DbException

**Returns**

Instance of BillingDatabase

#### 8.5.2.15 bool Databases::BillingDatabase::isBillingPaid ( const int *pId* )

BillingDatabase::isBillingPaid Return TRUE if the id *pId* correspond to a Billing and not quote (isBilling = 1) and if this billing is paid (isPaid = 1) else return FALSE.

**Parameters**

| | |
|---|---|
| *pId* | Billing id |

**Returns**

TRUE if billing is paid

#### 8.5.2.16 void Databases::BillingDatabase::removeBilling ( const int *pId* )

BillingDatabase::removeCustomer Remove the billing with the id *pId*

**Parameters**

| | |
|---|---|
| *pId* | billing id |

#### 8.5.2.17 void Databases::BillingDatabase::removeBillingProject ( const int *idProject*, const int *idBilling*, const int *idContributory* )

BillingDatabase::removeBillingProject remove a link between a project, a billing and a contributory in the table BillingProject.

**Parameters**

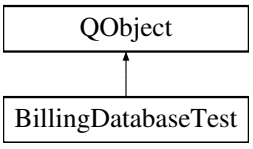
| | |
|---|---|
| *idProject* | Project id |
| *idBilling* | Billing id |
| *idContributory* | Contributory id |

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

- src/database/billingdatabase.h
- src/database/billingdatabase.cpp

## 8.6 BillingDatabaseTest Class Reference

Inheritance diagram for BillingDatabaseTest:

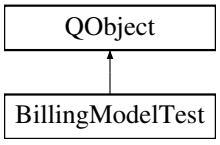



The documentation for this class was generated from the following files:

- tests/database/billingdatabasetest.h
- tests/database/billingdatabasetest.cpp

## 8.7 BillingModelTest Class Reference

Inheritance diagram for BillingModelTest:




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

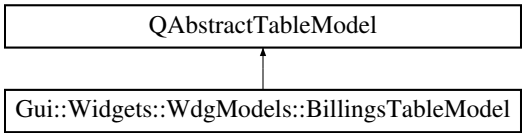
- tests/models/billingmodeltest.h
- tests/models/billingmodeltest.cpp

## 8.8 Gui::Widgets::WdgModels::BillingsTableModel Class Reference

The BillingsTableModel class for a Billing table.

`#include <billingstablemodel.h>`

Inheritance diagram for Gui::Widgets::WdgModels::BillingsTableModel:




### Public Member Functions

- BillingsTableModel ()

  *BillingsTableModel::BillingsTableModel Construct a BillingsTableModel.*
- int rowCount (const QModelIndex &) const

  *BillingsTableModel::rowCount Number of billings row.*
- int columnCount (const QModelIndex &) const

  *BillingsTableModel::columnCount Number of column of a Billing.*
- QVariant data (const QModelIndex &index, int role=Qt::DisplayRole) const

  *BillingsTableModel::data Obtains data of a specify cell.*
- QVariant headerData (int section, Qt::Orientation orientation, int role=Qt::DisplayRole) const

  *BillingsTableModel::headerData Obtains header title of table.*
- bool setData (const QModelIndex &index, const QVariant &value, int role=Qt::EditRole)

  *BillingsTableModel::setData Change data of a cell.*
- void append (const Billing &billing)

  *BillingsTableModel::append Add a new line in table.*
- void remove (const int i)

  *BillingsTableModel::remove Remove a line.*
- Qt::ItemFlags flags (const QModelIndex &index) const

  *BillingsTableModel::flags Differents table flags.*
- int count ()

  *BillingsTableModel::count Number of billings in table.*
- QList< Billing > getBillings () const

  *BillingsTableModel::getbillings Return the list of billings.*

### 8.8.1 Detailed Description

The BillingsTableModel class for a Billing table.

**Author**

Florent Berbie

**See also**

Billing

### 8.8.2 Constructor & Destructor Documentation

#### 8.8.2.1 Gui::Widgets::WdgModels::BillingsTableModel::BillingsTableModel ( )

BillingsTableModel::BillingsTableModel Construct a BillingsTableModel.

**Parameters**

| | |
|---|---|
| *parent* | Parent widget |

### 8.8.3 Member Function Documentation

#### 8.8.3.1 void Gui::Widgets::WdgModels::BillingsTableModel::append ( const Billing & *billing* )

BillingsTableModel::append Add a new line in table.

**Parameters**

| | |
|---|---|
| *Billing* | The new Billing |

#### 8.8.3.2 int Gui::Widgets::WdgModels::BillingsTableModel::columnCount ( const QModelIndex & ) const

BillingsTableModel::columnCount Number of column of a Billing.

**Returns**

The number of column

#### 8.8.3.3 int Gui::Widgets::WdgModels::BillingsTableModel::count ( )

BillingsTableModel::count Number of billings in table.

**Returns**

The number of billings

#### 8.8.3.4 QVariant Gui::Widgets::WdgModels::BillingsTableModel::data ( const QModelIndex & *index*, int *role* = `Qt::DisplayRole` ) const

BillingsTableModel::data Obtains data of a specify cell.

**Parameters**

| | |
|---|---|
| *index* | The cell who we want data |
| *role* | The role of set |

**Returns**

The data of cell

#### 8.8.3.5 Qt::ItemFlags Gui::Widgets::WdgModels::BillingsTableModel::flags ( const QModelIndex & *index* ) const

BillingsTableModel::flags Differents table flags.

**Parameters**

| | |
|---|---|
| *index* | The cell who we want to know flags |

**Returns**

Flags

#### 8.8.3.6 QList< Billing > Gui::Widgets::WdgModels::BillingsTableModel::getBillings ( ) const

BillingsTableModel::getbillings Return the list of billings.

**Returns**

list of billings

#### 8.8.3.7 QVariant Gui::Widgets::WdgModels::BillingsTableModel::headerData ( int *section*, Qt::Orientation *orientation*, int *role* = `Qt::DisplayRole` ) const

BillingsTableModel::headerData Obtains header title of table.

**Parameters**

| | |
|---|---|
| *section* | The number of column |
| *orientation* | The table orientation |
| *role* | |

**Returns**

The Title header of column

#### 8.8.3.8 void Gui::Widgets::WdgModels::BillingsTableModel::remove ( const int *i* )

BillingsTableModel::remove Remove a line.

**Parameters**

| | |
|---|---|
| *i* | The number of line to remove |

#### 8.8.3.9 int Gui::Widgets::WdgModels::BillingsTableModel::rowCount ( const QModelIndex & ) const

BillingsTableModel::rowCount Number of billings row.

**Returns**

The number of billings

#### 8.8.3.10 bool Gui::Widgets::WdgModels::BillingsTableModel::setData ( const QModelIndex & *index*, const QVariant & *value*, int *role* = `Qt::EditRole` )

BillingsTableModel::setData Change data of a cell.

**Parameters**

| | |
|---|---|
| *index* | The cell to change data |
| *value* | The new value |
| *role* | The role of cell |

**Returns**

True if we could edit

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

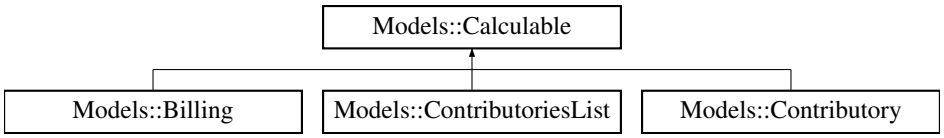
- src/gui/widgets/widgetsmodels/billingstablemodel.h
- src/gui/widgets/widgetsmodels/billingstablemodel.cpp

## 8.9 Models::Calculable Class Reference

The Calculable interface Models who are calculable.

`#include <calculable.h>`

Inheritance diagram for Models::Calculable:




### Public Member Functions

- virtual double getPrice (bool paied=false)=0

  *getPrice Return the price of a calculable object*
- virtual double getSumQuantity ()=0

  *ContributoriesList::getSumQuantity Return the sum of quantity (number of days) of the Contributories.*

### 8.9.1 Detailed Description

The Calculable interface Models who are calculable.

### 8.9.2 Member Function Documentation

#### 8.9.2.1 virtual double Models::Calculable::getPrice ( bool *paied* = `false` ) [pure virtual]

getPrice Return the price of a calculable object

**Returns**

The price

Implemented in Models::Billing, Models::Contributory, and Models::ContributoriesList.

#### 8.9.2.2 virtual double Models::Calculable::getSumQuantity ( ) [pure virtual]

ContributoriesList::getSumQuantity Return the sum of quantity (number of days) of the Contributories.

**Returns**

sum of quantity in days

Implemented in Models::Billing, Models::Contributory, and Models::ContributoriesList.

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

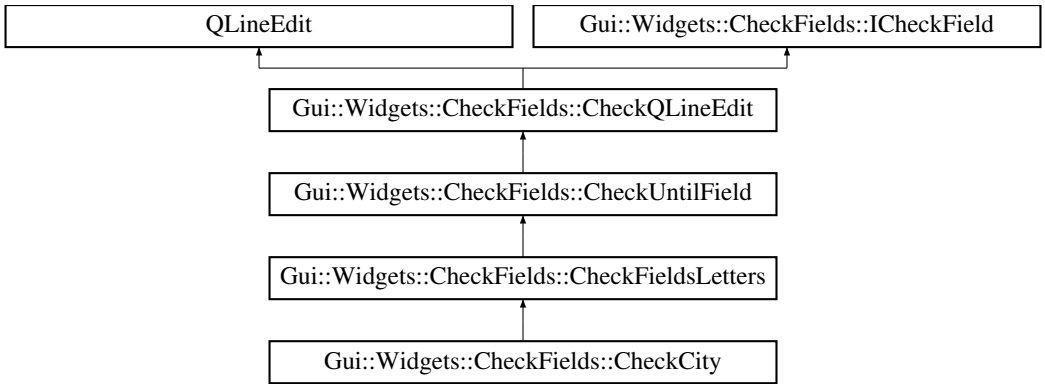
- src/models/calculable.h

## 8.10 Gui::Widgets::CheckFields::CheckCity Class Reference

The CheckCity class Line Edit of City with a check icon.

`#include <checkcity.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckCity:




### Public Member Functions

- CheckCity (QWidget *w=0, QPushButton *btn=0)

  *CheckCity::CheckCity Construct a CheckCity.*

### Additional Inherited Members

### 8.10.1 Detailed Description

The CheckCity class Line Edit of City with a check icon.

### 8.10.2 Constructor & Destructor Documentation

#### 8.10.2.1 Gui::Widgets::CheckFields::CheckCity::CheckCity ( QWidget * *w* = `0`, QPushButton * *btn* = `0` )

CheckCity::CheckCity Construct a CheckCity.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckCity** |

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

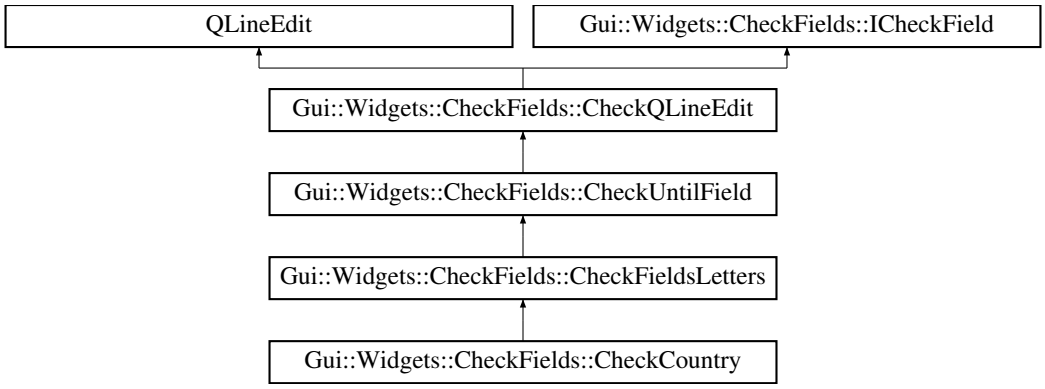
- src/gui/widgets/checkfields/checkcity.h
- src/gui/widgets/checkfields/checkcity.cpp

## 8.11 Gui::Widgets::CheckFields::CheckCountry Class Reference

CheckCountry::CheckCountry Line Edit of country with a check icon.

`#include <checkcountry.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckCountry:




### Public Member Functions

- CheckCountry (QWidget ∗w=0, QPushButton ∗btn=0)
  *CheckCountry::CheckCountry Construct a CheckCountry.*

### Additional Inherited Members

#### 8.11.1 Detailed Description

CheckCountry::CheckCountry Line Edit of country with a check icon.

#### 8.11.2 Constructor & Destructor Documentation

##### 8.11.2.1 Gui::Widgets::CheckFields::CheckCountry::CheckCountry ( QWidget ∗ *w* = 0, QPushButton ∗ *btn* = 0 )

CheckCountry::CheckCountry Construct a CheckCountry.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckCountry** |

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

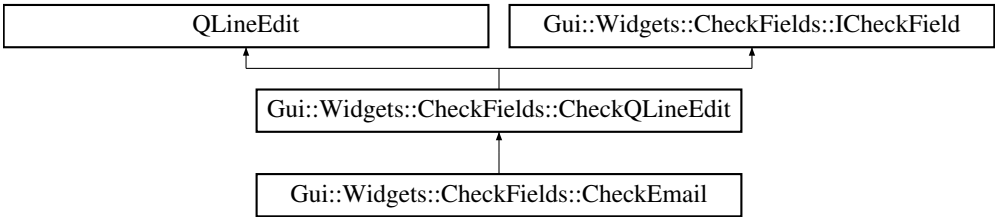
- src/gui/widgets/checkfields/checkcountry.h
- src/gui/widgets/checkfields/checkcountry.cpp

## 8.12 Gui::Widgets::CheckFields::CheckEmail Class Reference

The CheckEmail class Line Edit of email with a check icon.

`#include <checkemail.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckEmail:



### Public Member Functions

- CheckEmail (QWidget *w=0, QPushButton *btn=0)

  *CheckEmail::CheckEmail Construct a CheckMail.*
- bool check (const QString text)

  *CheckEmail::check Check if the field email is valid. To be valid, an email address should be under this form : me@me.xx An email address need:*

### Additional Inherited Members

## 8.12.1 Detailed Description

The CheckEmail class Line Edit of email with a check icon.

## 8.12.2 Constructor & Destructor Documentation

#### 8.12.2.1 Gui::Widgets::CheckFields::CheckEmail::CheckEmail ( QWidget * *w* = 0, QPushButton * *btn* = 0 )

CheckEmail::CheckEmail Construct a CheckMail.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckEmail** |

## 8.12.3 Member Function Documentation

#### 8.12.3.1 bool Gui::Widgets::CheckFields::CheckEmail::check ( const QString *text* ) [virtual]

CheckEmail::check Check if the field email is valid. To be valid, an email address should be under this form: me@me.xx An email address need:

- 1 character [A-Z] or [a-z] minimum before the character </i>
- *the character '@'*
- *1 character [A-Z] or [a-z] after the character</i>minimum and before the character .*
- *1 character [A-Z] or [a-z] minimum afer the character . Return TRUE if email address is valid, else FALSE*

  ***Parameters***

  | | |
  |---|---|
  | text | *Text to check* |

  ***Returns***

  *boolean Validity of the text*

Implements Gui::Widgets::CheckFields::ICheckField.

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

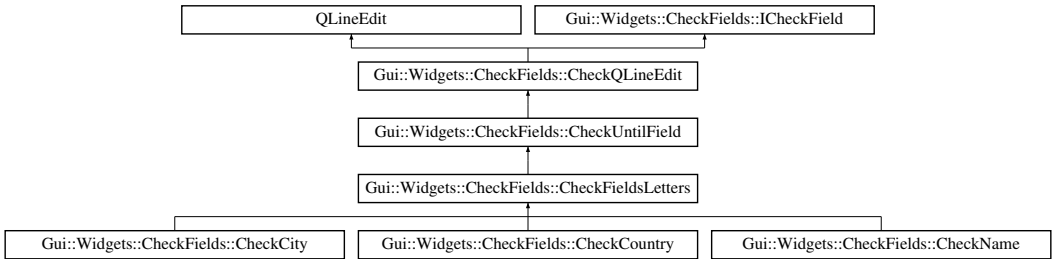
- src/gui/widgets/checkfields/checkemail.h
- src/gui/widgets/checkfields/checkemail.cpp

## 8.13 Gui::Widgets::CheckFields::CheckFieldsLetters Class Reference

The CheckFieldsLetters class Field with only letters (no numbers)

`#include <checkfieldsletters.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckFieldsLetters:




### Public Member Functions

- CheckFieldsLetters (QWidget ∗w=0, QPushButton ∗btn=0)

  *CheckFieldsLetters::CheckFieldsLetters Construct a CheckFieldsLetters.*
- bool check (QString text)

  *CheckFieldsLetters::check Check if the field contains only letters.*

### Additional Inherited Members

### 8.13.1 Detailed Description

The CheckFieldsLetters class Field with only letters (no numbers)

### 8.13.2 Constructor & Destructor Documentation

#### 8.13.2.1 Gui::Widgets::CheckFields::CheckFieldsLetters::CheckFieldsLetters ( QWidget ∗ *w* = `0`, QPushButton ∗ *btn* = `0` )

CheckFieldsLetters::CheckFieldsLetters Construct a CheckFieldsLetters.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckFieldsLetters** |

### 8.13.3 Member Function Documentation

#### 8.13.3.1 bool Gui::Widgets::CheckFields::CheckFieldsLetters::check ( QString *text* ) `[virtual]`

CheckFieldsLetters::check Check if the field contains only letters.

**Parameters**

| | |
|---|---|
| *text* | Text to check |

**Returns**

boolean Validity of the text

Implements Gui::Widgets::CheckFields::ICheckField.

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

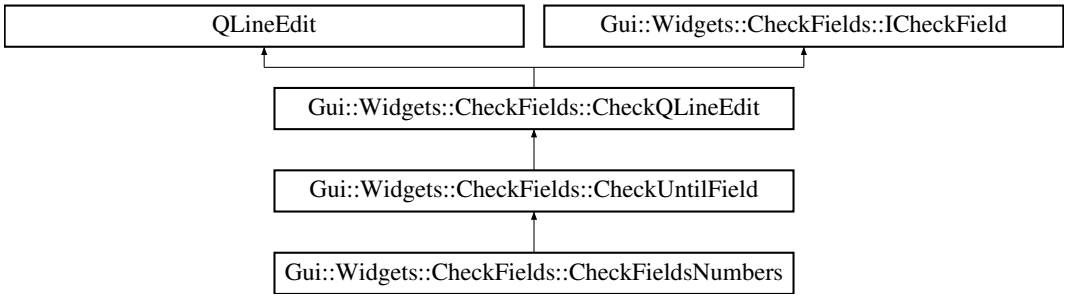
- src/gui/widgets/checkfields/checkfieldsletters.h
- src/gui/widgets/checkfields/checkfieldsletters.cpp

## 8.14 Gui::Widgets::CheckFields::CheckFieldsNumbers Class Reference

The CheckFieldsNumbers class Line Edit of number with a check icon.

`#include <checkfieldsnumbers.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckFieldsNumbers:




### Public Member Functions

- CheckFieldsNumbers (QWidget *w=0, QPushButton *btn=0)

  *CheckFieldsNumbers::CheckFieldsNumbers Construct a CheckFieldsNumbers.*
- bool check (QString text)

  *CheckFieldsNumbers::check Check if the field contains only numbers.*

### Additional Inherited Members

### 8.14.1 Detailed Description

The CheckFieldsNumbers class Line Edit of number with a check icon.

**Author**

Florent BERBIE

**See also**

CheckQLineEdit
CheckUntilField

### 8.14.2 Constructor & Destructor Documentation

#### 8.14.2.1 Gui::Widgets::CheckFields::CheckFieldsNumbers::CheckFieldsNumbers ( QWidget * *w* = `0`, QPushButton * *btn* = `0` )

CheckFieldsNumbers::CheckFieldsNumbers Construct a CheckFieldsNumbers.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckFieldsNumbers** |

### 8.14.3 Member Function Documentation

#### 8.14.3.1 bool Gui::Widgets::CheckFields::CheckFieldsNumbers::check ( QString *text* ) [virtual]

CheckFieldsNumbers::check Check if the field contains only numbers.

**Parameters**

| | |
|---|---|
| *text* | Text to check |

**Returns**

boolean Validity of the text

Implements Gui::Widgets::CheckFields::ICheckField.

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

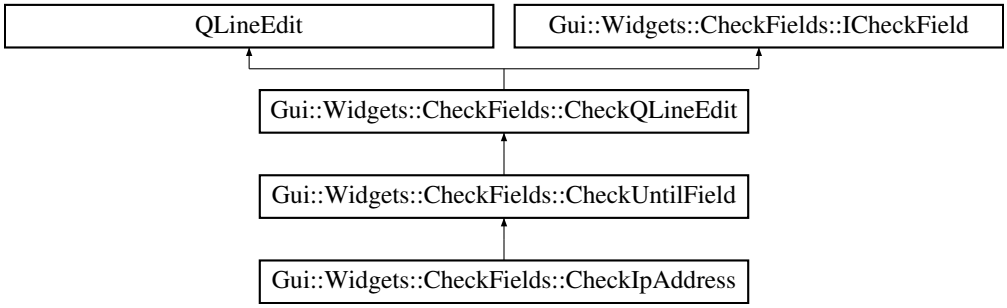
- src/gui/widgets/checkfields/checkfieldsnumbers.h
- src/gui/widgets/checkfields/checkfieldsnumbers.cpp

## 8.15 Gui::Widgets::CheckFields::CheckIpAddress Class Reference

The CheckIpAddress class Line Edit of IP address with a check icon.

`#include <checkipaddress.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckIpAddress:




### Public Member Functions

- CheckIpAddress (QWidget ∗w=0, QPushButton ∗btn=0)
  *CheckIpAddress::CheckIpAddress Construct a CheckIpAddress.*
- bool check (QString text)
  *CheckIpAddress::check Check if the field contains an IP address or domain name valid.*

### Additional Inherited Members

### 8.15.1 Detailed Description

The CheckIpAddress class Line Edit of IP address with a check icon.

**Author**

Florent BERBIE

**See also**

CheckQLineEdit
CheckUntilField

### 8.15.2 Constructor & Destructor Documentation

#### 8.15.2.1 Gui::Widgets::CheckFields::CheckIpAddress::CheckIpAddress ( QWidget * *w* = 0, QPushButton * *btn* = 0 )

CheckIpAddress::CheckIpAddress Construct a CheckIpAddress.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckIpAddress** |

### 8.15.3 Member Function Documentation

#### 8.15.3.1 bool Gui::Widgets::CheckFields::CheckIpAddress::check ( QString *text* ) [virtual]

CheckIpAddress::check Check if the field contains an IP address or domain name valid.

**Parameters**

| | |
|---|---|
| *text* | Text to check |

**Returns**

boolean Validity of the text

Implements Gui::Widgets::CheckFields::ICheckField.

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

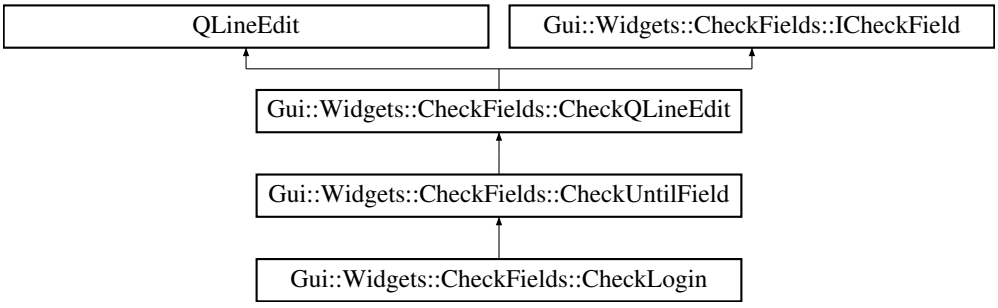
- src/gui/widgets/checkfields/checkipaddress.h
- src/gui/widgets/checkfields/checkipaddress.cpp

## 8.16 Gui::Widgets::CheckFields::CheckLogin Class Reference

The CheckLogin class Line Edit of login with a check icon.

`#include <checklogin.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckLogin:



### Public Slots

- void passwordPreviousInputed (const QString &text)

  *CheckLogin::fieldTextChanged For each new characater inputed or removed, displays an icon to show if the field is valid or not.*

### Public Member Functions

- CheckLogin (QWidget ∗w=0, QPushButton ∗btn=0)

  *CheckLogin::CheckLogin Construct a CheckLogin.*
- bool check (QString text)

  *CheckLogin::check Check if the field contains only numbers.*

## 8.16.1 Detailed Description

The CheckLogin class Line Edit of login with a check icon.

**Author**

Florent BERBIE

**See also**

CheckQLineEdit
CheckUntilField

## 8.16.2 Constructor & Destructor Documentation

### 8.16.2.1 Gui::Widgets::CheckFields::CheckLogin::CheckLogin ( QWidget ∗ *w* = 0, QPushButton ∗ *btn* = 0 )

CheckLogin::CheckLogin Construct a CheckLogin.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckIpAddress** |

## 8.16.3 Member Function Documentation

### 8.16.3.1 bool Gui::Widgets::CheckFields::CheckLogin::check ( QString *text* ) [virtual]

CheckLogin::check Check if the field contains only numbers.

**Parameters**

| | |
|---|---|
| *text* | Text to check |

**Returns**

boolean Validity of the text

Implements Gui::Widgets::CheckFields::ICheckField.

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

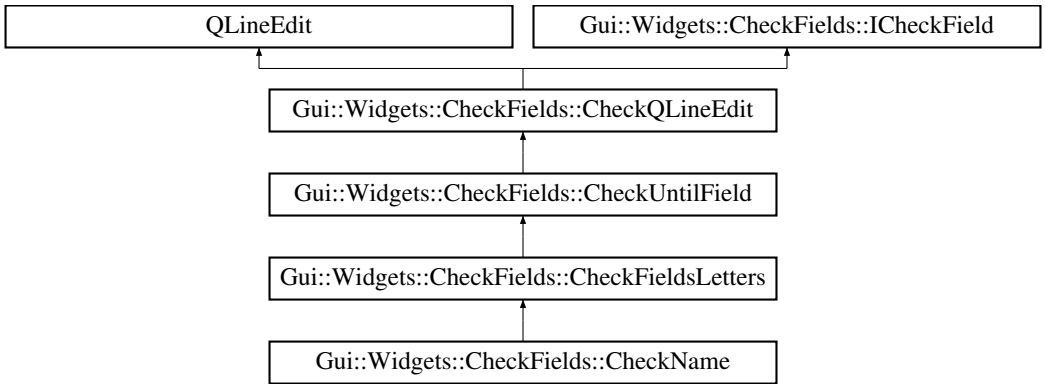
- src/gui/widgets/checkfields/checklogin.h
- src/gui/widgets/checkfields/checklogin.cpp

## 8.17 Gui::Widgets::CheckFields::CheckName Class Reference

The CheckName class Line edit of name with a check icon.

`#include <checkname.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckName:




### Public Member Functions

- CheckName (QWidget ∗w=0, QPushButton ∗btn=0)

  *CheckName::CheckName Construct a CheckName.*

### Additional Inherited Members

#### 8.17.1 Detailed Description

The CheckName class Line edit of name with a check icon.

#### 8.17.2 Constructor & Destructor Documentation

##### 8.17.2.1 Gui::Widgets::CheckFields::CheckName::CheckName ( QWidget ∗ *w* = 0, QPushButton ∗ *btn* = 0 )

CheckName::CheckName Construct a CheckName.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckName** |

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

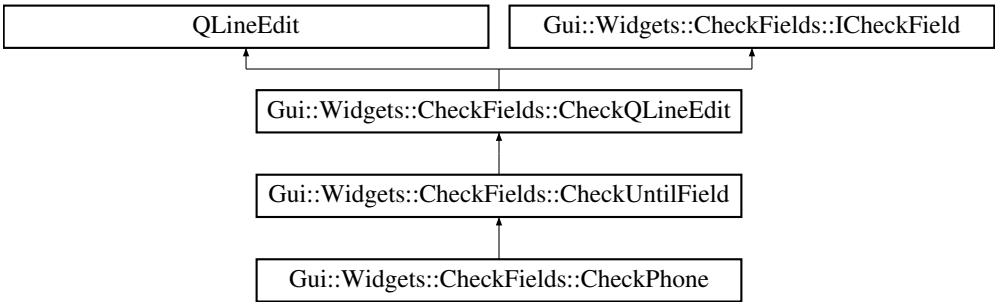
- src/gui/widgets/checkfields/checkname.h
- src/gui/widgets/checkfields/checkname.cpp

## 8.18 Gui::Widgets::CheckFields::CheckPhone Class Reference

The CheckPhone class Line Edit of Phone number with a check icon.

`#include <checkphone.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckPhone:




### Public Member Functions

- CheckPhone (QWidget ∗w=0, QPushButton ∗btn=0)

  *CheckPhone::CheckPhone Construct a CheckPhone.*
- bool check (QString text)

  *CheckPhone::check Check if the field is valid. To be valid, a name should be composed of a character.*
- QString getCountry () const

  *CheckPhone::getCountry Return the country linked to current field.*
- void setCountry (const QString &country)

  *CheckPhone::setCountry Modify the country linked to field.*

### Additional Inherited Members

### 8.18.1 Detailed Description

The CheckPhone class Line Edit of Phone number with a check icon.

### 8.18.2 Constructor & Destructor Documentation

#### 8.18.2.1 Gui::Widgets::CheckFields::CheckPhone::CheckPhone ( QWidget ∗ *w* = 0, QPushButton ∗ *btn* = 0 )

CheckPhone::CheckPhone Construct a CheckPhone.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckPhone** |

### 8.18.3 Member Function Documentation

#### 8.18.3.1 bool Gui::Widgets::CheckFields::CheckPhone::check ( QString *text* ) [virtual]

CheckPhone::check Check if the field is valid. To be valid, a name should be composed of a character.

**Parameters**

| | |
|---|---|
| *text* | Text to check |

**Returns**

boolean Validity of the text

Implements Gui::Widgets::CheckFields::ICheckField.

#### 8.18.3.2 QString Gui::Widgets::CheckFields::CheckPhone::getCountry ( ) const

CheckPhone::getCountry Return the country linked to current field.

**Returns**

#### 8.18.3.3 void Gui::Widgets::CheckFields::CheckPhone::setCountry ( const QString & *country* )

CheckPhone::setCountry Modify the *country* linked to field.

**Parameters**

| | |
|---|---|
| *country* | New country |

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

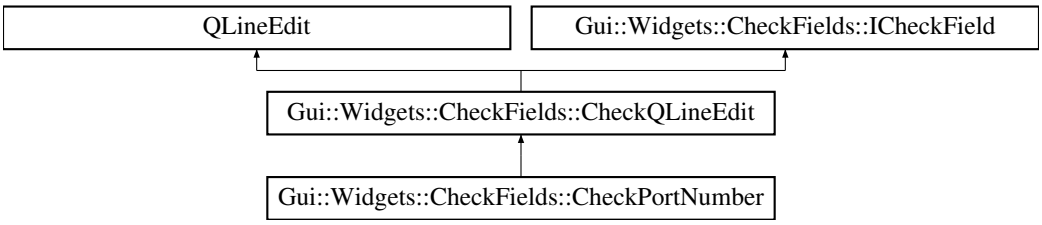
- src/gui/widgets/checkfields/checkphone.h
- src/gui/widgets/checkfields/checkphone.cpp

## 8.19 Gui::Widgets::CheckFields::CheckPortNumber Class Reference

The CheckFieldsNumbers class Line Edit of number with a check icon.

`#include <checkportnumber.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckPortNumber:




### Public Member Functions

- CheckPortNumber (QWidget ∗w=0, QPushButton ∗btn=0)

  *CheckPortNumber.*
- bool check (QString text)

  *CheckPortNumber::check Check if the field contains only numbers or an empty text.*

### Additional Inherited Members

### 8.19.1 Detailed Description

The CheckFieldsNumbers class Line Edit of number with a check icon.

**Author**

Florent BERBIE

**See also**

CheckQLineEdit
CheckUntilField

### 8.19.2 Constructor & Destructor Documentation

#### 8.19.2.1 Gui::Widgets::CheckFields::CheckPortNumber::CheckPortNumber ( QWidget * *w* = 0, QPushButton * *btn* = 0 )

CheckPortNumber.

**Parameters**

| | |
|---|---|
| *w* | Widget parent |
| *btn* | Button parretn |

### 8.19.3 Member Function Documentation

#### 8.19.3.1 bool Gui::Widgets::CheckFields::CheckPortNumber::check ( QString *text* ) [virtual]

CheckPortNumber::check Check if the field contains only numbers or an empty text.

**Parameters**

| | |
|---|---|
| *text* | Text to check |

**Returns**

boolean Validity of the text

Implements Gui::Widgets::CheckFields::ICheckField.

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

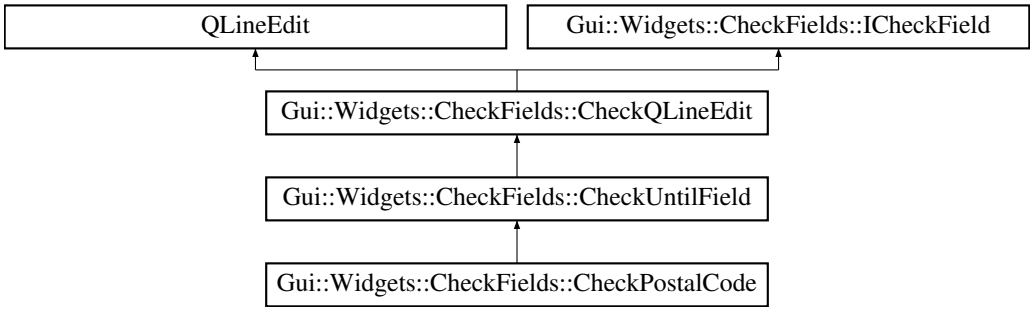
- src/gui/widgets/checkfields/checkportnumber.h
- src/gui/widgets/checkfields/checkportnumber.cpp

## 8.20 Gui::Widgets::CheckFields::CheckPostalCode Class Reference

The CheckPostalCode class Line Edit of postal code with a check icon.

`#include <checkpostalcode.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckPostalCode:



### Public Member Functions

- CheckPostalCode (QWidget ∗w=0, QPushButton ∗btn=0)

  *CheckPostalCode::CheckPostalCode Construct a CheckPostalCode.*
- bool check (QString text)

  *CheckPostalCode::check Check if the field is valid. To be valid, a name should be composed of a character.*
- QString getCountry () const

  *CheckPostalCode::getCountry Return the country linked to current field.*
- void setCountry (const QString &country)

  *CheckPostalCode::setCountry Modify the country linked to field.*

### Additional Inherited Members

## 8.20.1 Detailed Description

The CheckPostalCode class Line Edit of postal code with a check icon.

## 8.20.2 Constructor & Destructor Documentation

#### 8.20.2.1 Gui::Widgets::CheckFields::CheckPostalCode::CheckPostalCode ( QWidget ∗ *w* = 0, QPushButton ∗ *btn* = 0 )

CheckPostalCode::CheckPostalCode Construct a CheckPostalCode.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckPostalCode** |

## 8.20.3 Member Function Documentation

#### 8.20.3.1 bool Gui::Widgets::CheckFields::CheckPostalCode::check ( QString *text* ) [virtual]

CheckPostalCode::check Check if the field is valid. To be valid, a name should be composed of a character.

**Parameters**

| | |
|---|---|
| *text* | Text to check |

**Returns**

boolean Validity of the text

Implements Gui::Widgets::CheckFields::ICheckField.

#### 8.20.3.2 QString Gui::Widgets::CheckFields::CheckPostalCode::getCountry ( ) const

CheckPostalCode::getCountry Return the country linked to current field.

**Returns**

country Country of the field

#### 8.20.3.3 void Gui::Widgets::CheckFields::CheckPostalCode::setCountry ( const QString & *country* )

CheckPostalCode::setCountry Modify the *country* linked to field.

**Parameters**

| | |
|---|---|
| *country* | New country |

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

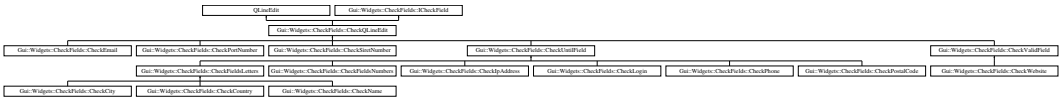
- src/gui/widgets/checkfields/checkpostalcode.h
- src/gui/widgets/checkfields/checkpostalcode.cpp

## 8.21 Gui::Widgets::CheckFields::CheckQLineEdit Class Reference

The CheckQLineEdit class LineEdit custom with a check of text inputed.

`#include <checkqlineedit.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckQLineEdit:




### Public Slots

- void fieldTextChanged (const QString &text)

  *CheckQLineEdit::fieldTextChanged For each new characater inputed or removed, displays an icon to show if the field is valid or not.*

### Public Member Functions

- CheckQLineEdit (QWidget ∗parent=0, QPushButton ∗btn=0)

  *CheckQLineEdit::CheckQLineEdit Construct a CheckQLineEdit.*
- void displayCheckValidFieldIcon ()

  *CheckQLineEdit::displayCheckValidFieldIcon Display a valid icon into the field.*
- void displayCheckNoValidFieldIcon ()

  *CheckQLineEdit::displayCheckNoValidFieldIcon Display a "no valid" icon into the field.*
- QPushButton ∗ getBtnValid () const

  *CheckQLineEdit::getBtnValid.*
- void setBtnValid (QPushButton ∗getBtnValid)

  *CheckQLineEdit::setBtnValid.*
- bool isValid ()

  *isValid Return true if the current field if valid*

### 8.21.1 Detailed Description

The CheckQLineEdit class LineEdit custom with a check of text inputed.

### 8.21.2 Constructor & Destructor Documentation

#### 8.21.2.1 Gui::Widgets::CheckFields::CheckQLineEdit::CheckQLineEdit ( QWidget ∗ *parent* = 0, QPushButton ∗ *btn* = 0 ) [explicit]

CheckQLineEdit::CheckQLineEdit Construct a CheckQLineEdit.

**Parameters**

| | |
|---|---|
| *parent* | |

### 8.21.3 Member Function Documentation

#### 8.21.3.1 QPushButton * Gui::Widgets::CheckFields::CheckQLineEdit::getBtnValid ( ) const

CheckQLineEdit::getBtnValid.

**Returns**

a

#### 8.21.3.2 bool Gui::Widgets::CheckFields::CheckQLineEdit::isValid ( )

isValid Return true if the current field if valid

**Returns**

boolean

#### 8.21.3.3 void Gui::Widgets::CheckFields::CheckQLineEdit::setBtnValid ( QPushButton * *getBtnValid* )

CheckQLineEdit::setBtnValid.

**Parameters**

| | |
|---|---|
| *getBtnValid* | |

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

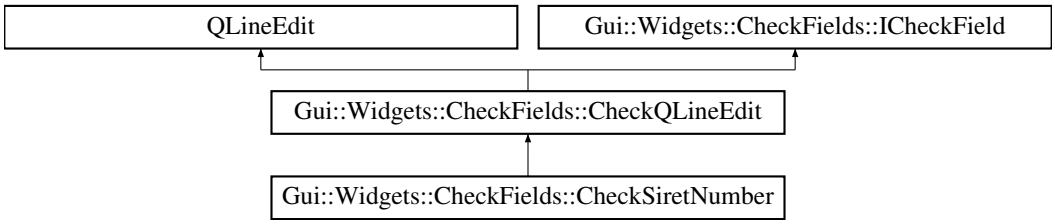
- src/gui/widgets/checkfields/checkqlineedit.h
- src/gui/widgets/checkfields/checkqlineedit.cpp

## 8.22 Gui::Widgets::CheckFields::CheckSiretNumber Class Reference

The CheckSiretNumber class Line Edit with a check icon.

`#include <checksiretnumber.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckSiretNumber:




### Public Member Functions

- CheckSiretNumber (QWidget *w=0, QPushButton *btn=0)

*CheckSiretNumber::CheckSiretNumber* *Construct a CheckSiretNumber.*

- bool check (QString text)

  *CheckSiretNumber::check* *Check if the field noSiret is valid. To be valid, a SIRET number should be composed of numbers.*

### Additional Inherited Members

### 8.22.1 Detailed Description

The CheckSiretNumber class Line Edit with a check icon.

### 8.22.2 Constructor & Destructor Documentation

#### 8.22.2.1 Gui::Widgets::CheckFields::CheckSiretNumber::CheckSiretNumber ( QWidget * *w* = 0, QPushButton * *btn* = 0 )

CheckSiretNumber::CheckSiretNumber Construct a CheckSiretNumber.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckSiretNumber** |

### 8.22.3 Member Function Documentation

#### 8.22.3.1 bool Gui::Widgets::CheckFields::CheckSiretNumber::check ( QString *text* ) [virtual]

CheckSiretNumber::check Check if the field noSiret is valid. To be valid, a SIRET number should be composed of numbers.

**Parameters**

| | |
|---|---|
| *text* | Text to check |

**Returns**

boolean Validy of the text

Implements Gui::Widgets::CheckFields::ICheckField.

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

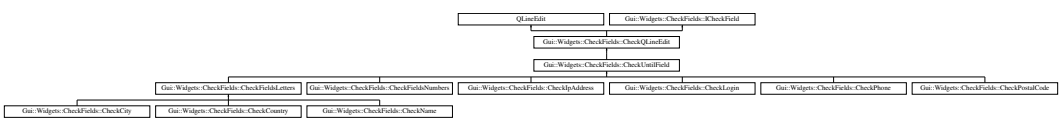
- src/gui/widgets/checkfields/checksiretnumber.h
- src/gui/widgets/checkfields/checksiretnumber.cpp

## 8.23 Gui::Widgets::CheckFields::CheckUntilField Class Reference

The CheckUntilField class.

`#include <checkuntilfield.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckUntilField:



### Public Member Functions

- CheckUntilField (QWidget *w=0, QPushButton *btn=0)

  *CheckUntilField::CheckUntilField Construct a CheckUntilField.*
- bool check (QString text)

  *CheckUntilField::check Check if the field is valid. To be valid, a name should be composed of a character.*

### Additional Inherited Members

### 8.23.1 Detailed Description

The CheckUntilField class.

### 8.23.2 Constructor & Destructor Documentation

#### 8.23.2.1 Gui::Widgets::CheckFields::CheckUntilField::CheckUntilField ( QWidget * *w* = `0`, QPushButton * *btn* = `0` )

CheckUntilField::CheckUntilField Construct a CheckUntilField.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckUntilField** |

### 8.23.3 Member Function Documentation

#### 8.23.3.1 bool Gui::Widgets::CheckFields::CheckUntilField::check ( QString *text* ) `[virtual]`

CheckUntilField::check Check if the field is valid. To be valid, a name should be composed of a character.

**Parameters**

| | |
|---|---|
| *text* | Text to check |

**Returns**

boolean Validity of the text

Implements Gui::Widgets::CheckFields::ICheckField.

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

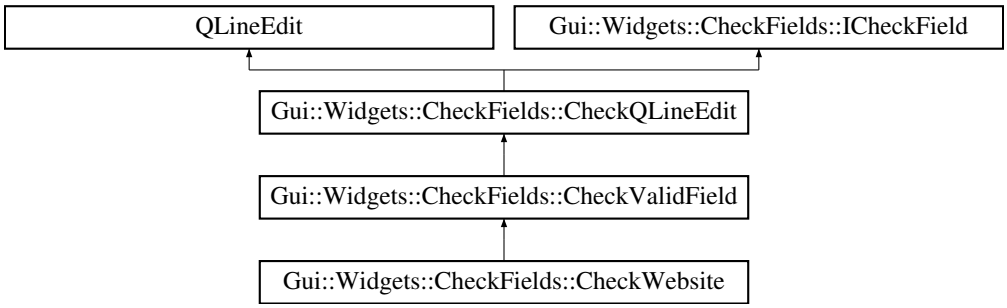
- src/gui/widgets/checkfields/checkuntilfield.h
- src/gui/widgets/checkfields/checkuntilfield.cpp

## 8.24 Gui::Widgets::CheckFields::CheckValidField Class Reference

The CheckValidField class Check field not required.

`#include <checkvalidfield.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckValidField:




### Public Member Functions

- CheckValidField (QWidget ∗w=0, QPushButton ∗btn=0)

  *CheckValidField::CheckValidField.*
- bool check (QString text)

  *CheckValidField::check Return TRUE : the field is not required.*

### Additional Inherited Members

## 8.24.1 Detailed Description

The CheckValidField class Check field not required.

## 8.24.2 Constructor & Destructor Documentation

### 8.24.2.1 Gui::Widgets::CheckFields::CheckValidField::CheckValidField ( QWidget ∗ *w* = 0, QPushButton ∗ *btn* = 0 )

CheckValidField::CheckValidField.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckValidField** |

## 8.24.3 Member Function Documentation

### 8.24.3.1 bool Gui::Widgets::CheckFields::CheckValidField::check ( QString *text* ) [virtual]

CheckValidField::check Return TRUE : the field is not required.

**Parameters**

| | |
|---|---|
| *text* | Text to check |

**Returns**

boolean Validity of the text

Implements Gui::Widgets::CheckFields::ICheckField.

Reimplemented in Gui::Widgets::CheckFields::CheckWebsite.

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

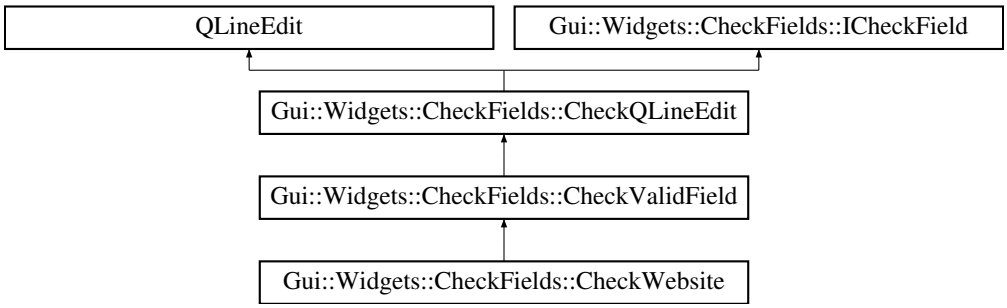
- src/gui/widgets/checkfields/checkvalidfield.h
- src/gui/widgets/checkfields/checkvalidfield.cpp

## 8.25 Gui::Widgets::CheckFields::CheckWebsite Class Reference

The CheckWebsite class Line Edit of website with a check icon.

`#include <checkwebsite.h>`

Inheritance diagram for Gui::Widgets::CheckFields::CheckWebsite:




### Public Member Functions

- CheckWebsite (QWidget ∗w=0, QPushButton ∗btn=0)

  *CheckWebsite::CheckWebsite Construct a CheckWebsite.*
- bool check (QString text)

  *CheckWebsite::check Check if the field contains an website address.*

### Additional Inherited Members

### 8.25.1 Detailed Description

The CheckWebsite class Line Edit of website with a check icon.

**See also**

CheckQLineEdit
CheckUntilField
CheckIpAddress

### 8.25.2 Constructor & Destructor Documentation

#### 8.25.2.1 Gui::Widgets::CheckFields::CheckWebsite::CheckWebsite ( QWidget ∗ *w* = 0, QPushButton ∗ *btn* = 0 )

CheckWebsite::CheckWebsite Construct a CheckWebsite.

**Parameters**

| | |
|---|---|
| *w* | QWidget linked to **CheckWebsite** |

### 8.25.3 Member Function Documentation

#### 8.25.3.1 bool Gui::Widgets::CheckFields::CheckWebsite::check ( QString *text* ) [virtual]

CheckWebsite::check Check if the field contains an website address.

**Parameters**

| | |
|---|---|
| *text* | Text to check |

**Returns**

boolean Validity of the text

Reimplemented from Gui::Widgets::CheckFields::CheckValidField.

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

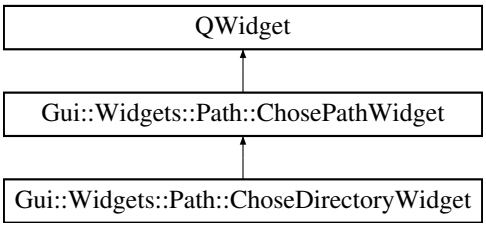
- src/gui/widgets/checkfields/checkwebsite.h
- src/gui/widgets/checkfields/checkwebsite.cpp

## 8.26 Gui::Widgets::Path::ChoseDirectoryWidget Class Reference

The ChoseDirectoryWidget class Open a QFileDialog.and display path in textfield.

`#include <chosedirectorywidget.h>`

Inheritance diagram for Gui::Widgets::Path::ChoseDirectoryWidget:




### Public Slots

- void fillField ()

  *fillField Fill the textfield with path information*

### Public Member Functions

- ChoseDirectoryWidget (QWidget *parent=0)

  *ChoseDirectoryWidget Construct Widget.*

### Additional Inherited Members

### 8.26.1 Detailed Description

The ChoseDirectoryWidget class Open a QFileDialog.and display path in textfield.

### 8.26.2 Constructor & Destructor Documentation

#### 8.26.2.1 Gui::Widgets::Path::ChoseDirectoryWidget::ChoseDirectoryWidget ( QWidget * *parent* = `0` ) [explicit]

ChoseDirectoryWidget Construct Widget.

**Parameters**

| | |
|---|---|
| *parent* | The parent widget |

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

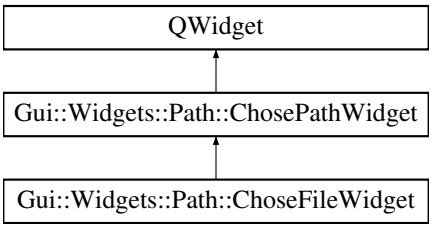
- src/gui/widgets/path/chosedirectorywidget.h
- src/gui/widgets/path/chosedirectorywidget.cpp

## 8.27 Gui::Widgets::Path::ChoseFileWidget Class Reference

The ChoseFileWidget class Chose a File in computer.

`#include <chosefilewidget.h>`

Inheritance diagram for Gui::Widgets::Path::ChoseFileWidget:




### Public Slots

- void fillField ()

  *fillField Fill the textfield with path information*

### Public Member Functions

- ChoseFileWidget (QWidget *parent=0)

  *ChoseFileWidget Construct a choseFileWidget.*
- QString getypeFiles () const

  *getypeFiles Return the types of files, by default it's **
- void setTypeFiles (const QString &getypeFiles)

  *setTypeFiles Change the files types. By default it's **

### Additional Inherited Members

### 8.27.1 Detailed Description

The ChoseFileWidget class Chose a File in computer.

### 8.27.2 Constructor & Destructor Documentation

#### 8.27.2.1 Gui::Widgets::Path::ChoseFileWidget::ChoseFileWidget ( QWidget * *parent* = `0` ) `[explicit]`

ChoseFileWidget Construct a choseFileWidget.

**Parameters**

| | |
|---|---|
| *parent* | The parent widget |

### 8.27.3 Member Function Documentation

#### 8.27.3.1 QString Gui::Widgets::Path::ChoseFileWidget::getypeFiles ( ) const

getypeFiles Return the types of files, by default it's ∗

**Returns**

The type of files

#### 8.27.3.2 void Gui::Widgets::Path::ChoseFileWidget::setTypeFiles ( const QString & *getypeFiles* )

setTypeFiles Change the files types. By default it's ∗

**Parameters**

| | |
|---|---|
| *getypeFiles* | The new files types. |

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

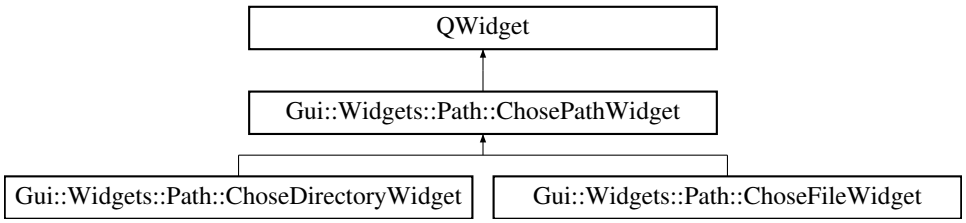
- src/gui/widgets/path/chosefilewidget.h
- src/gui/widgets/path/chosefilewidget.cpp

## 8.28 Gui::Widgets::Path::ChosePathWidget Class Reference

The ChoseDirectoryWidget class Open a QFileDialog.and display path in textfield.

`#include <chosepathwidget.h>`

Inheritance diagram for Gui::Widgets::Path::ChosePathWidget:




### Public Slots

- virtual void fillField ()

  *fillField Fill the textfield with path information*

### Signals

- void textChanged ()

  *textChanged Signal is send when path changed.*

### Public Member Functions

- ChosePathWidget (QWidget *parent=0)

  *ChoseFileWidget Construct a choseFileWidget.*
- void setField (QString text)

  *setField Change the path in textfield*
- QString getField ()

  *getField The text in field*
- virtual QString getDefaultLocation ()

  *getDefaultLocation The default location when we open popup. In default case, it's ~/Documents*

### Protected Attributes

- Ui::ChosePathWidget * **ui**

## 8.28.1 Detailed Description

The ChoseDirectoryWidget class Open a QFileDialog.and display path in textfield.

## 8.28.2 Constructor & Destructor Documentation

### 8.28.2.1 Gui::Widgets::Path::ChosePathWidget::ChosePathWidget ( QWidget * *parent* = `0` ) `[explicit]`

ChoseFileWidget Construct a choseFileWidget.

**Parameters**

| | |
|---|---|
| *parent* | The parent widget |

## 8.28.3 Member Function Documentation

### 8.28.3.1 QString Gui::Widgets::Path::ChosePathWidget::getDefaultLocation ( ) `[virtual]`

getDefaultLocation The default location when we open popup. In default case, it's ~/Documents

**Returns**

The default location

### 8.28.3.2 QString Gui::Widgets::Path::ChosePathWidget::getField ( void )

getField The text in field

**Returns**

The path text

### 8.28.3.3 void Gui::Widgets::Path::ChosePathWidget::setField ( QString *text* )

setField Change the path in textfield

**Parameters**

| | |
|---|---|
| *text* | The new text |

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

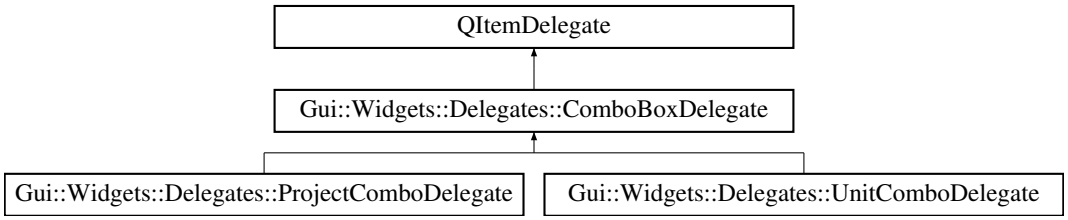
- src/gui/widgets/path/chosepathwidget.h
- src/gui/widgets/path/chosepathwidget.cpp

## 8.29 Gui::Widgets::Delegates::ComboBoxDelegate Class Reference

The ComboBoxDelegate class.

`#include <comboboxdelegate.h>`

Inheritance diagram for Gui::Widgets::Delegates::ComboBoxDelegate:




### Public Member Functions

- ComboBoxDelegate (QObject ∗parent=0)

  *ComboBoxDelegate::ComboBoxDelegate Construct a ComboBoxDelegate.*
- virtual QWidget ∗ createEditor (QWidget ∗parent, const QStyleOptionViewItem &option, const QModelIndex &index) const =0

  *ComboBoxDelegate::createEditor Return a ComboBox specified by index item defined by the parent widget and style option which are used to control how the editor widgets appears.*
- void paint (QPainter ∗painter, const QStyleOptionViewItem &option, const QModelIndex &index) const =0

  *ComboBoxDelegate::paint Renders the delegate using the given painter and style option for the item specified by index*
- void setEditorData (QWidget ∗editor, const QModelIndex &index) const

  *ComboBoxDelegate::setEditorData Sets the data to be displayed and edited by the editor from the data model item specified by the model index*
- void setModelData (QWidget ∗editor, QAbstractItemModel ∗model, const QModelIndex &index) const

  *ComboBoxDelegate::setModelData Gets data from the editor widget and stores it in the specified model at the item index*
- void updateEditorGeometry (QWidget ∗editor, const QStyleOptionViewItem &option, const QModelIndex &index) const

  *ComboBoxDelegate::updateEditorGeometry Update the editor for the item specified by index according to the style option given.*

### 8.29.1 Detailed Description

The ComboBoxDelegate class.

**Author**

Antoine de Roquemaurel

## 8.29.2 Constructor & Destructor Documentation

### 8.29.2.1 Gui::Widgets::Delegates::ComboBoxDelegate::ComboBoxDelegate ( QObject * *parent* = 0 )

ComboBoxDelegate::ComboBoxDelegate Construct a ComboBoxDelegate.

**Parameters**

| | |
|---|---|
| *parent* | Object parent |

## 8.29.3 Member Function Documentation

### 8.29.3.1 virtual QWidget* Gui::Widgets::Delegates::ComboBoxDelegate::createEditor ( QWidget * *parent,* const QStyleOptionViewItem & *option,* const QModelIndex & *index* ) const [pure virtual]

ComboBoxDelegate::createEditor Return a ComboBox specified by *index* item defined by the *parent* widget and style *option* which are used to control how the editor widgets appears.

**Parameters**

| | |
|---|---|
| *parent* | Widget parent |
| *option* | Option style |
| *index* | Index for editing |

**Returns**

ComboBox

Implemented in Gui::Widgets::Delegates::UnitComboDelegate, and Gui::Widgets::Delegates::ProjectComboDelegate.

### 8.29.3.2 void Gui::Widgets::Delegates::ComboBoxDelegate::paint ( QPainter * *painter,* const QStyleOptionViewItem & *option,* const QModelIndex & *index* ) const [pure virtual]

ComboBoxDelegate::paint Renders the delegate using the given *painter* and style *option* for the item specified by *index*

**Parameters**

| | |
|---|---|
| *parent* | Widget parent |
| *option* | Option style |
| *index* | Index for editing |

Implemented in Gui::Widgets::Delegates::UnitComboDelegate, and Gui::Widgets::Delegates::ProjectComboDelegate.

### 8.29.3.3 void Gui::Widgets::Delegates::ComboBoxDelegate::setEditorData ( QWidget * *editor,* const QModelIndex & *index* ) const

ComboBoxDelegate::setEditorData Sets the data to be displayed and edited by the *editor* from the data model item specified by the model *index*

**Parameters**

| | |
|---|---|
| *editor* | Data edited |
| *index* | Index of the model to edit |

#### 8.29.3.4 void Gui::Widgets::Delegates::ComboBoxDelegate::setModelData ( QWidget * *editor*, QAbstractItemModel * *model*, const QModelIndex & *index* ) const

ComboBoxDelegate::setModelData Gets data from the *editor* widget and stores it in the specified *model* at the item *index*

**Parameters**

| | |
|---|---|
| *editor* | Editor Widget |
| *model* | Model to store data |
| *index* | Item index |

#### 8.29.3.5 void Gui::Widgets::Delegates::ComboBoxDelegate::updateEditorGeometry ( QWidget * *editor,* const QStyleOptionViewItem & *option,* const QModelIndex & *index* ) const

ComboBoxDelegate::updateEditorGeometry Update the *editor* for the item specified by *index* according to the style *option* given.

**Parameters**

| | |
|---|---|
| *editor* | Editor widget to update |
| *option* | Style option |
| *index* | Item index |

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

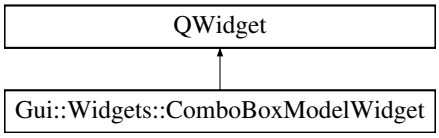
- src/gui/widgets/delegates/comboboxdelegate.h
- src/gui/widgets/delegates/comboboxdelegate.cpp

## 8.30 Gui::Widgets::ComboBoxModelWidget Class Reference

The ComboBoxModelWidget class Model of ComboBox.

`#include <comboboxmodelwidget.h>`

Inheritance diagram for Gui::Widgets::ComboBoxModelWidget:




### Public Member Functions

- ComboBoxModelWidget (QWidget *parent=0)

  *ComboBoxModelWidget::ComboBoxModelWidget Construct a ComboBoxModelWidget.*

### 8.30.1 Detailed Description

The ComboBoxModelWidget class Model of ComboBox.

### 8.30.2 Constructor & Destructor Documentation

#### 8.30.2.1 Gui::Widgets::ComboBoxModelWidget::ComboBoxModelWidget ( QWidget * *parent* = `0` ) `[explicit]`

ComboBoxModelWidget::ComboBoxModelWidget Construct a ComboBoxModelWidget.

**Parameters**

| | |
|---|---|
| *parent* | QWidget parent |

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

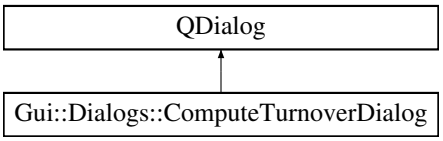
- src/gui/widgets/comboboxmodelwidget.h
- src/gui/widgets/comboboxmodelwidget.cpp

## 8.31 Gui::Dialogs::ComputeTurnoverDialog Class Reference

The ComputeTurnoverDialog class window to compute a turnover with a period.

`#include <computeturnoverdialog.h>`

Inheritance diagram for Gui::Dialogs::ComputeTurnoverDialog:




### Public Slots

- void computeTurnover ()

  *ComputeTurnoverDialog::computeTurnover compute the turnover between chosen dates in the window.*
- void endDateControl (const QDate end)

  *ComputeTurnoverDialog::endDateControl controls if the end date field is valid.*
- void beginDateControl (const QDate begin)

  *ComputeTurnoverDialog::beginDateControl controls if the begin date field is valid.*

### Public Member Functions

- **ComputeTurnoverDialog** (QWidget ∗parent=0)
- void fillLabels (const int nbBillings, const int turnover)

  *ComputeTurnoverDialog::fillLabels Fills the labels with nbBillings and turnover*

### 8.31.1 Detailed Description

The ComputeTurnoverDialog class window to compute a turnover with a period.

**Author**

Manantsoa Razanajatovo

### 8.31.2 Member Function Documentation

#### 8.31.2.1 void Gui::Dialogs::ComputeTurnoverDialog::beginDateControl ( const QDate *begin* ) [slot]

ComputeTurnoverDialog::beginDateControl controls if the *begin* date field is valid.

**Parameters**

| | |
|---|---|
| *begin* | |

#### 8.31.2.2 void Gui::Dialogs::ComputeTurnoverDialog::endDateControl ( const QDate *end* ) [slot]

ComputeTurnoverDialog::endDateControl controls if the *end* date field is valid.

**Parameters**

| | |
|---|---|
| *end* | |

#### 8.31.2.3 void Gui::Dialogs::ComputeTurnoverDialog::fillLabels ( const int *nbBillings*, const int *turnover* )

ComputeTurnoverDialog::fillLabels Fills the labels with *nbBillings* and *turnover*

**Parameters**

| | |
|---|---|
| *nbBillings* | the number of Billings |
| *turnover* | the turnover computed |

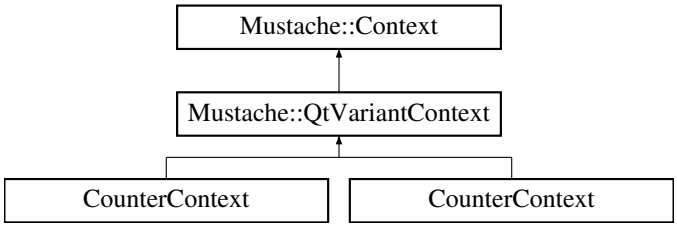
The documentation for this class was generated from the following files:

- src/gui/dialogs/computeturnoverdialog.h
- src/gui/dialogs/computeturnoverdialog.cpp

## 8.32 Mustache::Context Class Reference

`#include <mustache.h>`

Inheritance diagram for Mustache::Context:




### Public Member Functions

- Context (PartialResolver ∗resolver=0)
- virtual QString stringValue (const QString &key) const =0
- virtual bool isFalse (const QString &key) const =0
- virtual int listCount (const QString &key) const =0
- virtual void push (const QString &key, int index=-1)=0
- virtual void pop ()=0
- QString partialValue (const QString &key) const
- PartialResolver ∗ partialResolver () const
- virtual bool canEval (const QString &key) const
- virtual QString eval (const QString &key, const QString &_template, Renderer ∗renderer)

### 8.32.1 Detailed Description

Context is an interface that Mustache::Renderer::render() uses to fetch substitutions for template tags.

### 8.32.2 Constructor & Destructor Documentation

#### 8.32.2.1 Context::Context ( PartialResolver * *resolver* = 0 ) [explicit]

Create a context. `resolver` is used to fetch the expansions for any {{>partial}} tags which appear in a template.

### 8.32.3 Member Function Documentation

#### 8.32.3.1 bool Context::canEval ( const QString & *key* ) const [virtual]

Returns true if eval() should be used to render section tags using `key`. If canEval() returns true for a key, the renderer will pass the literal, unrendered block of text for the section to eval() and replace the section with the result.

canEval() and eval() are equivalents for callable objects (eg. lambdas) in other Mustache implementations.

The default implementation always returns false.

Reimplemented in CounterContext, CounterContext, and Mustache::QtVariantContext.

#### 8.32.3.2 QString Context::eval ( const QString & *key*, const QString & *_template*, Renderer * *renderer* ) [virtual]

Callback used to render a template section with the given `key`. `renderer` will substitute the original section tag with the result of eval().

The default implementation returns an empty string.

Reimplemented in CounterContext, CounterContext, and Mustache::QtVariantContext.

#### 8.32.3.3 virtual bool Mustache::Context::isFalse ( const QString & *key* ) const [pure virtual]

Returns true if the value for `key` is 'false' or an empty list. 'False' values typically include empty strings, the boolean value false etc.

When processing a section Mustache tag, the section is not rendered if the key is false, or for an inverted section tag, the section is only rendered if the key is false.

Implemented in Mustache::QtVariantContext.

#### 8.32.3.4 virtual int Mustache::Context::listCount ( const QString & *key* ) const [pure virtual]

Returns the number of items in the list value for `key` or 0 if the value for `key` is not a list.

Implemented in Mustache::QtVariantContext.

#### 8.32.3.5 PartialResolver * Context::partialResolver ( ) const

Returns the partial resolver passed to the constructor.

#### 8.32.3.6 QString Context::partialValue ( const QString & *key* ) const

Returns the partial template for a given `key`.

#### 8.32.3.7 virtual void Mustache::Context::pop ( ) [pure virtual]

Exit the current context.

Implemented in Mustache::QtVariantContext.

#### 8.32.3.8 virtual void Mustache::Context::push ( const QString & *key*, int *index* = -1 ) [pure virtual]

Set the current context to the value for `key`. If index is >= 0, set the current context to the `index'th` value in the list value for `key`.

Implemented in Mustache::QtVariantContext.

#### 8.32.3.9 virtual QString Mustache::Context::stringValue ( const QString & *key* ) const [pure virtual]

Returns a string representation of the value for `key` in the current context. This is used to replace a Mustache value tag.

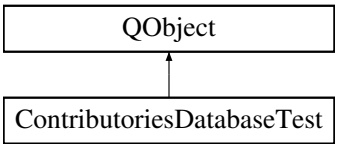
Implemented in CounterContext, CounterContext, and Mustache::QtVariantContext.

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

- src/libs/qt-mustache/src/mustache.h
- src/libs/qt-mustache/src/mustache.cpp

## 8.33 ContributoriesDatabaseTest Class Reference

Inheritance diagram for ContributoriesDatabaseTest:




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

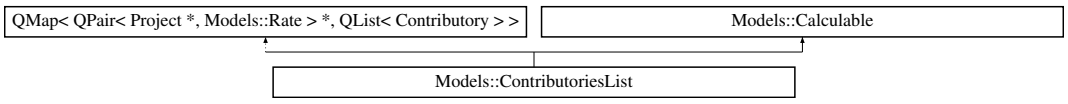
- tests/database/contributoriesdatabasetest.h
- tests/database/contributoriesdatabasetest.cpp

## 8.34 Models::ContributoriesList Class Reference

The ContributoriesList class List of contributories.

`#include <contributorieslist.h>`

Inheritance diagram for Models::ContributoriesList:



### Public Member Functions

- ContributoriesList ()

  *ContributoriesList::ContributoriesList Construct a ContributoriesList.*
- double getPrice (bool isPaied=false)

  *getPrice Return the price of a contributories list*
- double getPrice (Models::Project *project)

  *getPrice Return price of project*
- double getSumQuantity ()

  *ContributoriesList::getSumQuantity Return the sum of quantity (number of hours) of the Contributories.*
- double getSumQuantity (Models::Project *project)

  *ContributoriesList::getSumQuantity Return the sum of quantity (number of hours) of the Contributories of project.*
- Models::Rate getRate (Models::Project *project)

  *ContributoriesList::getRate.*
- virtual void commit ()

  *ContributoriesList::commit Update or insert data into the database.*
- void addContributory (Models::Contributory &contributory)

  *ContributoriesList::addContributory Add a new contributory*
- void addProject (Project *p, Models::Rate rate)

  *ContributoriesList::addProject Add a Project p and it rate*
- QList< Contributory > & getContributories (Project *p)

  *ContributoriesList::getContributories Return a list of Contributories for the Project p*
- int getIdBilling () const

  *ContributoriesList::getIdBilling Return the Billing ID.*
- void setIdBilling (int idBilling)

  *ContributoriesList::setIdBilling Change the Billing id by the new idBilling*
- void setAllIdContributories (int idContributory)

  *ContributoriesList::setAllIdContributories Change all Contributory id with the same id.*
- bool isInsert () const

  *ContributoriesList::isInsert Return TRUE if an element is inserting else FALSE.*
- void setInsert (bool insert)

  *ContributoriesList::setInsert Change the state of insertion.*
- int getNbProjects ()

  *ContributoriesList::getNbProjects Return the number of projects.*
- QSharedPointer< Customer > getCustomer ()

  *ContributoriesList::getCustomer Return the Customers linked to theses contributories.*
- QList< Project * > getProjects ()

  *ContributoriesList::getProjects List of Projects.*
- QList< Contributory > * getAllContributories ()

  *ContributoriesList::getAllContributories List of all contributories (all contributories from all projects)*
- QVariantList getDataMap ()

  *ContributoriesList::getDataMap Return a list of Billing and it value linked which indicates if it is inserting or not.*

#### 8.34.1 Detailed Description

The ContributoriesList class List of contributories.

**Author**

Antoine de Roquemaurel

### 8.34.2 Member Function Documentation

#### 8.34.2.1 void Models::ContributoriesList::addContributory ( Models::Contributory & *contributory* )

ContributoriesList::addContributory Add a new *contributory*

**Parameters**

| | |
|---|---|
| *contributory* | Contributory to add |

#### 8.34.2.2 void Models::ContributoriesList::addProject ( Project * *p*, Models::Rate *rate* )

ContributoriesList::addProject Add a Project *p* and it *rate*

**Parameters**

| | |
|---|---|
| *p* | Project to add |
| *rate* | Rate of the project |

#### 8.34.2.3 QList< Contributory > * Models::ContributoriesList::getAllContributories ( )

ContributoriesList::getAllContributories List of all contributories (all contributories from all projects)

**Returns**

List of all contributories

#### 8.34.2.4 QList< Contributory > & Models::ContributoriesList::getContributories ( Project * *p* )

ContributoriesList::getContributories Return a list of Contributories for the Project *p*

**Parameters**

| | |
|---|---|
| *p* | Project |

**Returns**

List of Contributories for a project

#### 8.34.2.5 QSharedPointer< Customer > Models::ContributoriesList::getCustomer ( )

ContributoriesList::getCustomer Return the Customers linked to theses contributories.

**Returns**

Customer

#### 8.34.2.6 QVariantList Models::ContributoriesList::getDataMap ( )

ContributoriesList::getDataMap Return a list of Billing and it value linked which indicates if it is inserting or not.

**Returns**

List of billing and value linked

#### 8.34.2.7 int Models::ContributoriesList::getIdBilling ( ) const

ContributoriesList::getIdBilling Return the Billing ID.

**Returns**

Billing id

#### 8.34.2.8 int Models::ContributoriesList::getNbProjects ( )

ContributoriesList::getNbProjects Return the number of projects.

**Returns**

Count number of project

#### 8.34.2.9 double Models::ContributoriesList::getPrice ( bool *isPaied* = `false` ) [virtual]

getPrice Return the price of a contributories list

**Returns**

The price

Implements Models::Calculable.

#### 8.34.2.10 double Models::ContributoriesList::getPrice ( Models::Project * *project* )

getPrice Return price of project

**Parameters**

| | |
|---|---|
| *project* | The project |

**Returns**

The price

#### 8.34.2.11 QList< Project * > Models::ContributoriesList::getProjects ( void )

ContributoriesList::getProjects List of Projects.

**Returns**

List of Projects

#### 8.34.2.12 Models::Rate Models::ContributoriesList::getRate ( Models::Project * *project* )

ContributoriesList::getRate.

**Parameters**

| | |
|---|---|
| *project* | |

**Returns**

#### 8.34.2.13 double Models::ContributoriesList::getSumQuantity ( ) [virtual]

ContributoriesList::getSumQuantity Return the sum of quantity (number of hours) of the Contributories.

**Returns**

sum of quantity in days

Implements Models::Calculable.

#### 8.34.2.14 double Models::ContributoriesList::getSumQuantity ( Models::Project * *project* )

ContributoriesList::getSumQuantity Return the sum of quantity (number of hours) of the Contributories of project.

**Parameters**

| | |
|---|---|
| *project* | The project |

**Returns**

sum of quantity in days

#### 8.34.2.15 bool Models::ContributoriesList::isInsert ( ) const

ContributoriesList::isInsert Return TRUE if an element is inserting else FALSE.

**Returns**

boolean

#### 8.34.2.16 void Models::ContributoriesList::setAllIdContributories ( int *idContributory* )

ContributoriesList::setAllIdContributories Change all Contributory id with the same id.

**Parameters**

| | |
|---|---|
| *idContributory* | the new Contributory id |

#### 8.34.2.17 void Models::ContributoriesList::setIdBilling ( int *idBilling* )

ContributoriesList::setIdBilling Change the Billing id by the new *idBilling*

**Parameters**

| | |
|---|---|
| *idBilling* | Billind id |

#### 8.34.2.18 void Models::ContributoriesList::setInsert ( bool *insert* )

ContributoriesList::setInsert Change the state of insertion.

**Parameters**

| | |
|---|---|
| *insert* | Boolean |

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

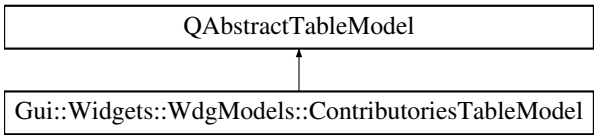
- src/models/contributorieslist.h
- src/models/contributorieslist.cpp

## 8.35 Gui::Widgets::WdgModels::ContributoriesTableModel Class Reference

The ContributoriesTableModel class for a custom table for contributories widget.

`#include <contributoriestablemodel.h>`

Inheritance diagram for Gui::Widgets::WdgModels::ContributoriesTableModel:




## Public Member Functions

- ContributoriesTableModel (QObject *parent=0)

  *ContributoriesTableModel::ContributoriesTableModel Construct a ContributoriesTableModel.*
- int rowCount (const QModelIndex &) const

  *ContributoriesTableModel::rowCount Number of contributories row.*
- int columnCount (const QModelIndex &) const

  *ContributoriesTableModel::columnCount Number of column of a contributory.*
- QVariant data (const QModelIndex &index, int role) const

  *ContributoriesTableModel::data Obtains data of a specify cell.*
- QVariant headerData (int section, Qt::Orientation orientation, int role) const

  *ContributoriesTableModel::headerData Obtains header title of table.*
- bool setData (const QModelIndex &index, const QVariant &value, int role=Qt::EditRole)

  *ContributoriesTableModel::setData Change data of a cell.*
- void append (const Contributory &contributory)

  *ContributoriesTableModel::append Add a new line in table.*
- void remove (const int i)

  *ContributoriesTableModel::remove Remove a line.*
- Qt::ItemFlags flags (const QModelIndex &index) const

  *ContributoriesTableModel::flags Differents table flags.*
- QList< Contributory > getContributories ()

  *ContributoriesTableModel::getContributories Get all contributories of table.*
- int count ()

  *ContributoriesTableModel::count Number of contributories in table.*
- double getSumQuantity () const

  *ContributoriesTableModel::getSumQuantity Return the sum of the hours of all contriburoies added.*
- void clear ()

  *ContributoriesTableModel::clear Remove all contributories.*

### 8.35.1 Detailed Description

The ContributoriesTableModel class for a custom table for contributories widget.

**Author**

Antoine de Roquemaurel

**See also**

Contributory

### 8.35.2 Constructor & Destructor Documentation

#### 8.35.2.1 Gui::Widgets::WdgModels::ContributoriesTableModel::ContributoriesTableModel ( QObject * *parent* = 0 )

ContributoriesTableModel::ContributoriesTableModel Construct a ContributoriesTableModel.

**Parameters**

| | |
|---|---|
| *parent* | Parent widget |

### 8.35.3 Member Function Documentation

#### 8.35.3.1 void Gui::Widgets::WdgModels::ContributoriesTableModel::append ( const Contributory & *contributory* )

ContributoriesTableModel::append Add a new line in table.

**Parameters**

| | |
|---|---|
| *contributory* | The new contributory |

#### 8.35.3.2 int Gui::Widgets::WdgModels::ContributoriesTableModel::columnCount ( const QModelIndex & ) const

ContributoriesTableModel::columnCount Number of column of a contributory.

**Returns**

The number of column

#### 8.35.3.3 int Gui::Widgets::WdgModels::ContributoriesTableModel::count ( )

ContributoriesTableModel::count Number of contributories in table.

**Returns**

The number of contributories

#### 8.35.3.4 QVariant Gui::Widgets::WdgModels::ContributoriesTableModel::data ( const QModelIndex & *index*, int *role* ) const

ContributoriesTableModel::data Obtains data of a specify cell.

**Parameters**

| | |
|---|---|
| *index* | The cell who we want data |
| *role* | The role of set |

**Returns**

The data of cell

#### 8.35.3.5 Qt::ItemFlags Gui::Widgets::WdgModels::ContributoriesTableModel::flags ( const QModelIndex & *index* ) const

ContributoriesTableModel::flags Differents table flags.

**Parameters**

| | |
|---|---|
| *index* | The cell who we want to know flags |

**Returns**

Flags

#### 8.35.3.6 QList< Contributory > Gui::Widgets::WdgModels::ContributoriesTableModel::getContributories ( )

ContributoriesTableModel::getContributories Get all contributories of table.

**Returns**

The contributory list

#### 8.35.3.7 double Gui::Widgets::WdgModels::ContributoriesTableModel::getSumQuantity ( ) const

ContributoriesTableModel::getSumQuantity Return the sum of the hours of all contriburoies added.

**Returns**

sum quantity

#### 8.35.3.8 QVariant Gui::Widgets::WdgModels::ContributoriesTableModel::headerData ( int *section*, Qt::Orientation *orientation*, int *role* ) const

ContributoriesTableModel::headerData Obtains header title of table.

**Parameters**

| | |
|---|---|
| *section* | The number of column |
| *orientation* | The table orientation |
| *role* | |

**Returns**

The Title header of column

#### 8.35.3.9 void Gui::Widgets::WdgModels::ContributoriesTableModel::remove ( const int *i* )

ContributoriesTableModel::remove Remove a line.

**Parameters**

| | |
|---|---|
| *i* | The number of line to remove |

#### 8.35.3.10 int Gui::Widgets::WdgModels::ContributoriesTableModel::rowCount ( const QModelIndex & ) const

ContributoriesTableModel::rowCount Number of contributories row.

**Returns**

The number of contributories

#### 8.35.3.11 bool Gui::Widgets::WdgModels::ContributoriesTableModel::setData ( const QModelIndex & *index*, const QVariant & *value*, int *role* = `Qt::EditRole` )

ContributoriesTableModel::setData Change data of a cell.

**Parameters**

| | |
|---|---|
| *index* | The cell to change data |
| *value* | The new value |
| *role* | THe role of cell |

**Returns**

True if we could edit

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

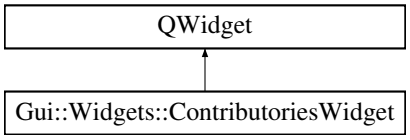
- src/gui/widgets/widgetsmodels/contributoriestablemodel.h
- src/gui/widgets/widgetsmodels/contributoriestablemodel.cpp

## 8.36 Gui::Widgets::ContributoriesWidget Class Reference

The ContributoriesWidget class Widget of Contributories.

`#include <contributorieswidget.h>`

Inheritance diagram for Gui::Widgets::ContributoriesWidget:




### Public Slots

- void add (void)

  *ContributoriesWidget::add Add a new empty contributory.*
- void remove (void)

  *ContributoriesWidget::remove Remove the current contributory.*
- void addProject (QPair< Project *, Rate > *p=0)

  *ContributoriesWidget::addProject Add a Projet and it rate p*
- void removeProject (void)

  *ContributoriesWidget::removeProject Remove the current Project.*
- void changeProject (void)

  *ContributoriesWidget::changeProject Change the current Project.*
- void editing (void)

  *ContributoriesWidget::editing Remove the current Project in the combobox not used.*
- void updateUi (void)

  *ContributoriesWidget::updateUi Update the User Interface.*
- void updatePrice (void)

  *ContributoriesWidget::updatePrice Update total price.*

### Signals

- void contributoryChanged ()

  *ContributoriesWidget::contributoryChanged Signal that a contributory has changed.*

### Public Member Functions

- ContributoriesWidget (QSharedPointer< Customer > c, QWidget *parent=0)

  *ContributoriesWidget::ContributoriesWidget Construct a ContributoriesWidget.*
- ContributoriesList * getContributories () const

  *ContributoriesWidget::getContributories Get contributories List.*
- int count ()

  *ContributoriesWidget::count Numbers of contributories.*
- void add (ContributoriesList &list)

  *ContributoriesWidget::add Add contributorieslist list in the model.*

## 8.36.1 Detailed Description

The ContributoriesWidget class Widget of Contributories.

## 8.36.2 Constructor & Destructor Documentation

### 8.36.2.1 Gui::Widgets::ContributoriesWidget::ContributoriesWidget ( QSharedPointer< Customer > *c*, QWidget * *parent* = 0 ) [explicit]

ContributoriesWidget::ContributoriesWidget Construct a ContributoriesWidget.

**Parameters**

| | |
|---|---|
| *c* | Customer |
| *parent* | Widget parent |

## 8.36.3 Member Function Documentation

### 8.36.3.1 void Gui::Widgets::ContributoriesWidget::add ( ContributoriesList & *list* )

ContributoriesWidget::add Add contributorieslist *list* in the model.

**Parameters**

| | |
|---|---|
| *list* | the **ContributoriesList** |

### 8.36.3.2 void Gui::Widgets::ContributoriesWidget::addProject ( QPair< Project *, Rate > * *p* = 0 ) [slot]

ContributoriesWidget::addProject Add a Projet and it rate *p*

**Parameters**

| | |
|---|---|
| *p* | Rate linked to Project |

### 8.36.3.3 int Gui::Widgets::ContributoriesWidget::count ( )

ContributoriesWidget::count Numbers of contributories.

**Returns**

Numbers of contributories

#### 8.36.3.4 ContributoriesList * Gui::Widgets::ContributoriesWidget::getContributories ( ) const

ContributoriesWidget::getContributories Get contributories List.

**Returns**

ContributoriesList

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

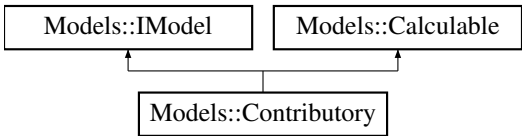
- src/gui/widgets/contributorieswidget.h
- src/gui/widgets/contributorieswidget.cpp

## 8.37 Models::Contributory Class Reference

The Unit enum Unity of work : hour or day.

`#include <contributory.h>`

Inheritance diagram for Models::Contributory:




### Public Member Functions

- Contributory ()

  *Contributory::Contributory Contruct a Contributory.*
- Contributory (int id)

  *Contributory::Contributory Contruct a Contributory and get data in database.*
- ~Contributory ()

  *Destroy an contributory object.*
- void commit ()

  *Contributory::commit Update or insert a contributory to the database.*
- void hydrat (int id)

  *Contributory::hydrat Get data about the Contributory which is specified by the identify id*
- void remove ()

  *Contributory::remove Remove the current Contributory.*
- double getPrice (const bool paied=false)

  *getPrice Return the price of a contributory*
- double getSumQuantity ()

  *ContributoriesList::getSumQuantity Return the sum of quantity (number of hours) of the Contributories.*
- QVariantHash getDataMap ()

  *getDataMap Get all data of model with a HashMap key/value*
- Project * getProject () const

  *Contributory::getProject Return the project linked to this Contributory.*
- void setProject (Project *id)

  *Contributory::setProject Modify the identify id of the Project linked to this Contributory.*
- double getQuantity () const

*getNbHours Number of work hour of a contributory*

- void setQuantity (double value)

  *setNbHours Change nbHours*
- QString getDescription () const

  *getDescription Description of a contributory*
- void setDescription (const QString &getDescription)

  *setDescription Change the contributory description*
- bool operator== (const Contributory &c)

  *operator == define the operator "==" to compare two **Contributory***
- bool operator!= (const Contributory &c)

  *operator != define the operator "!=" to compare two **Contributory***
- QString getLongDescription () const

  *getLongDescription A contributory has a long description : display in tex appendix*
- void setLongDescription (const QString &getLongDescription)

  *setLongDescription Change the long description*
- Unit getUnit () const

  *getUnit Return the unit (hour or day) of contributory*
- void setUnit (const Unit &value)

  *setUnit Change the unit*
- double getHourlyRate () const

  *getHourlyRate Hourly rate for this contributory*
- void setHourlyRate (double value)

  *setHourlyRate Change the hourly rate for this contributory*

## Additional Inherited Members

### 8.37.1 Detailed Description

The Unit enum Unity of work : hour or day.

**Author**

The Contributory class

### 8.37.2 Constructor & Destructor Documentation

#### 8.37.2.1 Models::Contributory::Contributory ( int *id* )

Contributory::Contributory Contruct a Contributory and get data in database.

**Parameters**

| | |
|---|---|
| *id* | Contributory's id |

### 8.37.3 Member Function Documentation

#### 8.37.3.1 QVariantHash Models::Contributory::getDataMap ( ) [virtual]

getDataMap Get all data of model with a HashMap key/value

**Returns**

Model's data

Implements Models::IModel.

#### 8.37.3.2 QString Models::Contributory::getDescription ( ) const

getDescription Description of a contributory

**Returns**

The description

#### 8.37.3.3 double Models::Contributory::getHourlyRate ( ) const

getHourlyRate Hourly rate for this contributory

**Returns**

The hourly rate

#### 8.37.3.4 QString Models::Contributory::getLongDescription ( ) const

getLongDescription A contributory has a long description : display in tex appendix

**Returns**

The long description

#### 8.37.3.5 double Models::Contributory::getPrice ( const bool *paied* = `false` ) [virtual]

getPrice Return the price of a contributory

**Returns**

The price

Implements Models::Calculable.

#### 8.37.3.6 Project * Models::Contributory::getProject ( ) const

Contributory::getProject Return the project linked to this Contributory.

**Returns**

Project linked to this Contributory

#### 8.37.3.7 double Models::Contributory::getQuantity ( ) const

getNbHours Number of work hour of a contributory

**Returns**

Then number of hours

#### 8.37.3.8 double Models::Contributory::getSumQuantity ( ) [virtual]

ContributoriesList::getSumQuantity Return the sum of quantity (number of hours) of the Contributories.

**Returns**

sum of quantity in hours

Implements Models::Calculable.

#### 8.37.3.9 Unit Models::Contributory::getUnit ( ) const

getUnit Return the unit (hour or day) of contributory

**Returns**

The unit

#### 8.37.3.10 void Models::Contributory::hydrat ( int *id* ) [virtual]

Contributory::hydrat Get data about the Contributory which is specified by the identify *id*

**Parameters**

| | |
|---|---|
| *id* | Contributory identify |

Implements Models::IModel.

#### 8.37.3.11 bool Models::Contributory::operator!= ( const Contributory & *c* )

operator != define the operator "!=" to compare two **Contributory**

**Parameters**

| | |
|---|---|
| *c* | the **Contributory** to compare with the current **Contributory** |

**Returns**

true if the **Contributory** are different else false

#### 8.37.3.12 bool Models::Contributory::operator== ( const Contributory & *c* )

operator == define the operator "==" to compare two **Contributory**

**Parameters**

| | |
|---|---|
| *c* | the **Contributory** to compare with the current **Contributory** |

**Returns**

true if the **Contributory** are equals else false

#### 8.37.3.13 void Models::Contributory::setDescription ( const QString & *getDescription* )

setDescription Change the contributory description

**Parameters**

| | |
|---|---|
| *getDescription* | The new description |

#### 8.37.3.14 void Models::Contributory::setHourlyRate ( double *value* )

setHourlyRate Change the hourly rate for this contributory

**Parameters**

| | |
|---|---|
| *value* | The hourly rate |

#### 8.37.3.15 void Models::Contributory::setLongDescription ( const QString & *getLongDescription* )

setLongDescription Change the long description

**Parameters**

| | |
|---|---|
| *getLong↩ Description* | The new description |

#### 8.37.3.16 void Models::Contributory::setProject ( Project * *id* )

Contributory::setProject Modify the identify *id* of the Project linked to this Contributory.

**Parameters**

| | |
|---|---|
| *id* | Project Identify |

#### 8.37.3.17 void Models::Contributory::setQuantity ( double *value* )

setNbHours Change nbHours

**Parameters**

| | |
|---|---|
| *value* | The new value of nbHours |

#### 8.37.3.18 void Models::Contributory::setUnit ( const Unit & *value* )

setUnit Change the unit

**Parameters**

| | |
|---|---|
| *value* | The new unit |

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

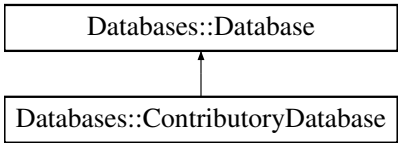
- src/models/contributory.h
- src/models/contributory.cpp

## 8.38 Databases::ContributoryDatabase Class Reference

The **ContributoryDatabase** class Contributory (or Quote) table database.

`#include <contributorydatabase.h>`

Inheritance diagram for Databases::ContributoryDatabase:




## Public Member Functions

- Models::Contributory * getContributory (const int idContributory)
  *ContributoryDatabase::getCustomer get informations about the Contributory identified by pId*
- Models::ContributoriesList getContributoriesByBilling (const int billingId)
  *ContributoryDatabase::getContributoriesByBilling get informations about the Contributory identified by Billing*
- int addContributory (const Models::Contributory &)
  *ContributoryDatabase::addContributory Add the Contributory pContributory to the database.*
- void updateContributory (const Models::Contributory &)
  *ContributoryDatabase::updateCustomer Update informations about the Contributory pCustomer*
- void removeContributory (const int pId)
  *ContributoryDatabase::removeCustomer Remove the Contributory with the id pId*
- Models::Contributory * getContributory (QSqlQuery &q)
  *getContributory Obtain a contributory without new query*
- Models::ContributoriesList getContributoriesByBillingAndProject (const int billingId, const int projectId)
  *getContributory Get contributories list by project and billing*

## Static Public Member Functions

- static ContributoryDatabase * instance () throw (DbException*)
  *ContributoryDatabase::getInstance Return an instance of* ***ContributoryDatabase***

## Additional Inherited Members

### 8.38.1 Detailed Description

The **ContributoryDatabase** class Contributory (or Quote) table database.

**Author**

**See also**

Database
Contributory/Quote

### 8.38.2 Member Function Documentation

#### 8.38.2.1 int Databases::ContributoryDatabase::addContributory ( const Models::Contributory & *pContributory* )

ContributoryDatabase::addContributory Add the Contributory *pContributory* to the database.

**Returns**

Contributory id

#### 8.38.2.2 Models::ContributoriesList Databases::ContributoryDatabase::getContributoriesByBilling ( const int *billingId* )

ContributoryDatabase::getContributoriesByBilling get informations about the Contributory identified by *Billing*

**Parameters**

| | |
|---|---|
| *idBilling* | Contributory id |

**Returns**

the Contributory

#### 8.38.2.3 Models::ContributoriesList Databases::ContributoryDatabase::getContributoriesByBillingAndProject ( const int *billingId*, const int *projectId* )

getContributory Get contributories list by project and billing

**Parameters**

| | |
|---|---|
| *billingId* | |
| *projectId* | |

**Returns**

The contributories list by project and billing

#### 8.38.2.4 Models::Contributory * Databases::ContributoryDatabase::getContributory ( const int *idContributory* )

ContributoryDatabase::getCustomer get informations about the Contributory identified by *pId*

**Parameters**

| | |
|---|---|
| *idContributory* | Contributory id |

**Returns**

the Contributory

#### 8.38.2.5 Models::Contributory * Databases::ContributoryDatabase::getContributory ( QSqlQuery & *q* )

getContributory Obtain a contributory without new query

**Parameters**

| | |
|---|---|
| *q* | The query to use |

**Returns**

The contributory linked to q

#### 8.38.2.6 ContributoryDatabase * Databases::ContributoryDatabase::instance ( ) throw DbException *) [static]

ContributoryDatabase::getInstance Return an instance of **ContributoryDatabase**

**See also**

DbException

**Returns**

Instance of ContributoryDatabase

#### 8.38.2.7 void Databases::ContributoryDatabase::removeContributory ( const int *pId* )

ContributoryDatabase::removeCustomer Remove the Contributory with the id *pId*

**Parameters**

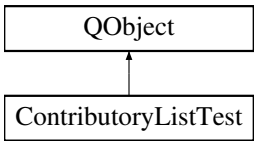
| | |
|---|---|
| *pId* | Contributory id |

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

- src/database/contributorydatabase.h
- src/database/contributorydatabase.cpp

## 8.39 ContributoryListTest Class Reference

Inheritance diagram for ContributoryListTest:

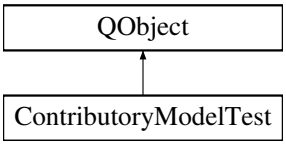



The documentation for this class was generated from the following files:

- tests/models/contributorylisttest.h
- tests/models/contributorylisttest.cpp

## 8.40 ContributoryModelTest Class Reference

Inheritance diagram for ContributoryModelTest:

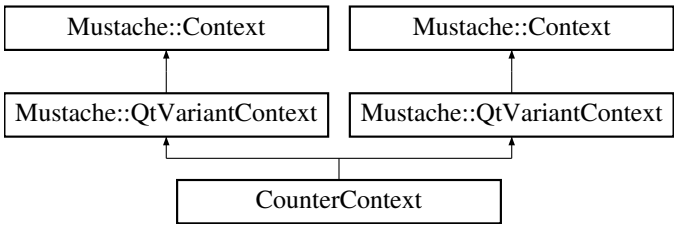



The documentation for this class was generated from the following files:

- tests/models/contributorymodeltest.h
- tests/models/contributorymodeltest.cpp

## 8.41 CounterContext Class Reference

Inheritance diagram for CounterContext:




### Public Member Functions

- **CounterContext** (const QVariantHash &map)
- virtual bool canEval (const QString &key) const
- virtual QString eval (const QString &key, const QString &_template, Mustache::Renderer *renderer)
- virtual QString stringValue (const QString &key) const
- **CounterContext** (const QVariantHash &map)
- virtual bool canEval (const QString &key) const
- virtual QString eval (const QString &key, const QString &_template, Mustache::Renderer *renderer)
- virtual QString stringValue (const QString &key) const

### Public Attributes

- int **counter**

### Additional Inherited Members

### 8.41.1 Member Function Documentation

#### 8.41.1.1 virtual bool CounterContext::canEval ( const QString & *key* ) const [inline], [virtual]

Returns true if eval() should be used to render section tags using `key`. If canEval() returns true for a key, the renderer will pass the literal, unrendered block of text for the section to eval() and replace the section with the result.

canEval() and eval() are equivalents for callable objects (eg. lambdas) in other Mustache implementations.

The default implementation always returns false.

Reimplemented from Mustache::QtVariantContext.

#### 8.41.1.2 virtual bool CounterContext::canEval ( const QString & *key* ) const [inline], [virtual]

Returns true if eval() should be used to render section tags using `key`. If canEval() returns true for a key, the renderer will pass the literal, unrendered block of text for the section to eval() and replace the section with the result.

canEval() and eval() are equivalents for callable objects (eg. lambdas) in other Mustache implementations.

The default implementation always returns false.

Reimplemented from Mustache::QtVariantContext.

#### 8.41.1.3 virtual QString CounterContext::eval ( const QString & *key,* const QString & *_template,* Mustache::Renderer * *renderer* ) [inline], [virtual]

Callback used to render a template section with the given `key`. `renderer` will substitute the original section tag with the result of eval().

The default implementation returns an empty string.

Reimplemented from Mustache::QtVariantContext.

#### 8.41.1.4 virtual QString CounterContext::eval ( const QString & *key,* const QString & *_template,* Mustache::Renderer * *renderer* ) [inline], [virtual]

Callback used to render a template section with the given `key`. `renderer` will substitute the original section tag with the result of eval().

The default implementation returns an empty string.

Reimplemented from Mustache::QtVariantContext.

#### 8.41.1.5 virtual QString CounterContext::stringValue ( const QString & *key* ) const [inline], [virtual]

Returns a string representation of the value for `key` in the current context. This is used to replace a Mustache value tag.

Reimplemented from Mustache::QtVariantContext.

#### 8.41.1.6 virtual QString CounterContext::stringValue ( const QString & *key* ) const [inline], [virtual]

Returns a string representation of the value for `key` in the current context. This is used to replace a Mustache value tag.

Reimplemented from Mustache::QtVariantContext.

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

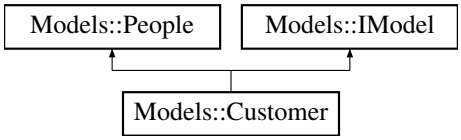
- src/libs/qt-mustache/tests/test_mustache.cpp

## 8.42 Models::Customer Class Reference

The Customer class Customer.

`#include <customer.h>`

Inheritance diagram for Models::Customer:




### Public Member Functions

- Customer ()

  *Customer::Customer Construct a Customer.*
- Customer (int id)

*Customer::Customer Constuct a Customer who is specidied by id*

- void commit ()

  *Customer::commit Update customer data on the database.*
- void hydrat (int id)

  *Customer::hydrat Insert into database informations related to the Customer who is specified by id*
- void remove ()

  *Customer::remove Remove the current customer.*
- QVariantHash getDataMap ()

  *getDataMap Get all data of model with a HashMap key/value*
- QString getPath () const

  *Customer::getPath Return the path of the workspace for the current Customer.*
- QString getNameFolder () const

  *Customer::getNameFolder Return the name of the current Customer's folder in the workspace.*
- double getTurnover () const

  *Customer::getTurnover Return the turnover of the customer money that customer pay, revenue sales.*

### Additional Inherited Members

### 8.42.1 Detailed Description

The Customer class Customer.

**Author**

Antoine de Roquemaurel
Florent Berbie

### 8.42.2 Constructor & Destructor Documentation

#### 8.42.2.1 Models::Customer::Customer ( int *id* )

Customer::Customer Constuct a Customer who is specidied by *id*

**Parameters**

| | |
|---|---|
| *id* | Customer identify |

### 8.42.3 Member Function Documentation

#### 8.42.3.1 QVariantHash Models::Customer::getDataMap ( ) [virtual]

getDataMap Get all data of model with a HashMap key/value

**Returns**

Model's data

Implements Models::IModel.

#### 8.42.3.2 QString Models::Customer::getNameFolder ( ) const

Customer::getNameFolder Return the name of the current Customer's folder in the workspace.

**Returns**

name of the Customer's folder

#### 8.42.3.3 QString Models::Customer::getPath ( ) const

Customer::getPath Return the path of the workspace for the current Customer.

**Returns**

workspace path

#### 8.42.3.4 double Models::Customer::getTurnover ( ) const

Customer::getTurnover Return the turnover of the customer money that customer pay, revenue sales.

**Returns**

turnover

#### 8.42.3.5 void Models::Customer::hydrat ( int *id* ) [virtual]

Customer::hydrat Insert into database informations related to the Customer who is specified by *id*

**Parameters**

| | |
|---|---|
| *id* | Customer identify |

Implements Models::IModel.

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

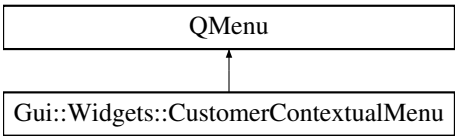
- src/models/customer.h
- src/models/customer.cpp

## 8.43 Gui::Widgets::CustomerContextualMenu Class Reference

Display contextual menu on a customer.

`#include <customercontextualmenu.h>`

Inheritance diagram for Gui::Widgets::CustomerContextualMenu:




### Public Member Functions

- CustomerContextualMenu (QWidget ∗w=0)

  *CustomerContextualMenu::CustomerContextualMenu Construct a new contextual menu.*
- ∼CustomerContextualMenu ()

  *CustomerContextualMenu::Destruct the contextual menu.*

### 8.43.1 Detailed Description

Display contextual menu on a customer.

**Author**

Antoine de Roquemaurel

### 8.43.2 Constructor & Destructor Documentation

#### 8.43.2.1 Gui::Widgets::CustomerContextualMenu::CustomerContextualMenu ( QWidget * w = 0 )

CustomerContextualMenu::CustomerContextualMenu Construct a new contextual menu.

**Parameters**

| | |
|---|---|
| *w* | Parent |

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

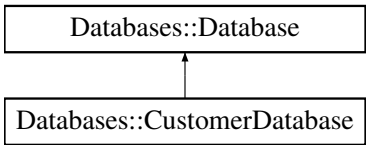
- src/gui/widgets/customercontextualmenu.h
- src/gui/widgets/customercontextualmenu.cpp

## 8.44 Databases::CustomerDatabase Class Reference

The **CustomerDatabase** class Customer table database.

`#include <customerdatabase.h>`

Inheritance diagram for Databases::CustomerDatabase:




### Public Member Functions

- WdgModels::CustomersTableModel * getCustomersTable (QString filter="") throw (DbException*)

  *CustomerDatabase::getCustomersTable Return an item model of customers for QTableView.*
- QStandardItemModel * getTree (QString filter="") throw (DbException*)

  *CustomerDatabase::getTree Return an item model of customers for QTree.*
- QSharedPointer< Models::Customer > getCustomer (const int pId)

  *CustomerDatabase::getCustomer get informations about the customer identified by pId*
- int addCustomer (const Models::Customer &)

  *CustomerDatabase::addCustomer Add the customer pCustomer to the database.*
- void updateCustomer (Customer &)

  *CustomerDatabase::updateCustomer Update informations about the customer pCustomer*
- void removeCustomer (const int pId)

  *CustomerDatabase::removeCustomer Remove the customer with the id pId*
- int getNbCustomers ()

  *CustomerDatabase::getNbCustomers Return the number of customers existing.*
- QStandardItem * getItemRoot ()

*CustomerDatabase::getItemRoot Return the first item for the QStandardItemModel.*

- QStandardItem * getItemCustomer (QSqlQuery q1)

  *CustomerDatabase::getItemCustomer Return the customer item for the QStandardItemModel.*
- QStandardItem * getItemProject (QSqlQuery q2)

  *CustomerDatabase::getItemProject Return the project item for the QStandardItemModel.*
- QSharedPointer< Models::Customer > getCustomer (QSqlQuery &q)

  *CustomerDatabase::getCustomer Add the element of the q request and return their.*
- void updateCustomer (QSqlQuery &q, Customer &pCustomer)

  *CustomerDatabase::updateCustomer Update customer data according to the request q*

## Static Public Member Functions

- static CustomerDatabase * instance () throw (DbException*)

  *CustomerDatabase::instance Return an instance of **CustomerDatabase***

## Additional Inherited Members

### 8.44.1 Detailed Description

The **CustomerDatabase** class Customer table database.

**Author**

Antoine de Roquemaurel
Manantsoa Razanajatovo
Florent Berbie

**See also**

Database
Customer

### 8.44.2 Member Function Documentation

#### 8.44.2.1 int Databases::CustomerDatabase::addCustomer ( const Models::Customer & *pCustomer* )

CustomerDatabase::addCustomer Add the customer *pCustomer* to the database.

**Returns**

customer id

#### 8.44.2.2 QSharedPointer< Models::Customer > Databases::CustomerDatabase::getCustomer ( const int *pId* )

CustomerDatabase::getCustomer get informations about the customer identified by *pId*

**Parameters**

| | |
|---|---|
| *pId* | customer id |

**Returns**

the Customer

#### 8.44.2.3 QSharedPointer< Models::Customer > Databases::CustomerDatabase::getCustomer ( QSqlQuery & *q* )

CustomerDatabase::getCustomer Add the element of the *q* request and return their.

**Parameters**

| | |
|---|---|
| *q* | SQL request |

**Returns**

a customer formed according to QSharedPointer

#### 8.44.2.4 WdgModels::CustomersTableModel * Databases::CustomerDatabase::getCustomersTable ( QString *filter* = " " ) throw DbException *)

CustomerDatabase::getCustomersTable Return an item model of customers for QTableView.

**Parameters**

| | |
|---|---|
| *filter* | Select only customers who are specified by *filter* |

**Exceptions**

| | |
|---|---|
| *DbException* | |

**Returns**

QStandardItemModel an item model for QTableView

#### 8.44.2.5 QStandardItem * Databases::CustomerDatabase::getItemCustomer ( QSqlQuery *q1* )

CustomerDatabase::getItemCustomer Return the customer item for the QStandardItemModel.

**Parameters**

| | |
|---|---|
| *q1* | the row of the sql query for customers |

**Returns**

QStandardItem an item for QTree (level/depth 1)

#### 8.44.2.6 QStandardItem * Databases::CustomerDatabase::getItemProject ( QSqlQuery *q2* )

CustomerDatabase::getItemProject Return the project item for the QStandardItemModel.

**Parameters**

| | |
|---|---|
| *q2* | the row of the sql query for projects |

**Returns**

QStandardItem an item for QTree (level/depth 2)

#### 8.44.2.7 QStandardItem * Databases::CustomerDatabase::getItemRoot ( )

CustomerDatabase::getItemRoot Return the first item for the QStandardItemModel.

**Returns**

QStandardItem an item for QTree (level/depth 0)

#### 8.44.2.8 int Databases::CustomerDatabase::getNbCustomers ( )

CustomerDatabase::getNbCustomers Return the number of customers existing.

**Returns**

number of customers

#### 8.44.2.9 QStandardItemModel * Databases::CustomerDatabase::getTree ( QString *filter* = " " ) throw DbException *)

CustomerDatabase::getTree Return an item model of customers for QTree.

**Parameters**

| | |
|---|---|
| *filter* | Select only customers who are specified by *filter* |

**Exceptions**

| | |
|---|---|
| *DbException* | |

**Returns**

QStandardItemModel an item model for QTreeView

#### 8.44.2.10 CustomerDatabase * Databases::CustomerDatabase::instance ( ) throw DbException *) [static]

CustomerDatabase::instance Return an instance of **CustomerDatabase**

**See also**

DbException

**Returns**

Instance of CustomerDatabase

#### 8.44.2.11 void Databases::CustomerDatabase::removeCustomer ( const int *pId* )

CustomerDatabase::removeCustomer Remove the customer with the id *pId*

**Parameters**

| | |
|---|---|
| *pId* | customer id |

#### 8.44.2.12 void Databases::CustomerDatabase::updateCustomer ( QSqlQuery & *q*, Customer & *pCustomer* )

CustomerDatabase::updateCustomer Update customer data according to the request *q*

**Parameters**

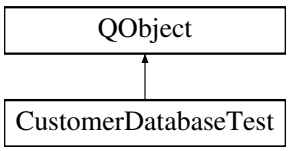
| | |
|---|---|
| *q* | SQL request |

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

- src/database/customerdatabase.h
- src/database/customerdatabase.cpp

## 8.45 CustomerDatabaseTest Class Reference

Inheritance diagram for CustomerDatabaseTest:




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

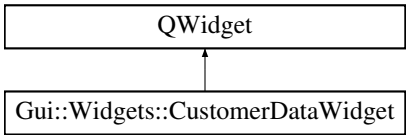
- tests/database/customerdatabasetest.h
- tests/database/customerdatabasetest.cpp

## 8.46 Gui::Widgets::CustomerDataWidget Class Reference

Class for display info of a customer.

`#include <customerdatawidget.h>`

Inheritance diagram for Gui::Widgets::CustomerDataWidget:




### Public Member Functions

- CustomerDataWidget (QWidget *parent=0)

  *CustomerDataWidget::CustomerDataWidget Contruct a CustomerDataWidget.*
- void printUserData ()

  *CustomerDataWidget::printUserData Print Data of current user.*
- void printInformations (int id)

  *CustomerDataWidget::printInformations Print Data of customer id.*

### 8.46.1 Detailed Description

Class for display info of a customer.

**Author**

### 8.46.2 Constructor & Destructor Documentation

#### 8.46.2.1 Gui::Widgets::CustomerDataWidget::CustomerDataWidget ( QWidget * *parent* = `0` ) `[explicit]`

CustomerDataWidget::CustomerDataWidget Contruct a CustomerDataWidget.

**Parameters**

| | |
|---|---|
| *parent* | Widget parent |

### 8.46.3 Member Function Documentation

#### 8.46.3.1 void Gui::Widgets::CustomerDataWidget::printInformations ( int *id* )

CustomerDataWidget::printInformations Print Data of customer id.

**Parameters**

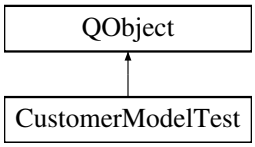
| | |
|---|---|
| *id* | of customer to print |

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

- src/gui/widgets/customerdatawidget.h
- src/gui/widgets/customerdatawidget.cpp

## 8.47 CustomerModelTest Class Reference

Inheritance diagram for CustomerModelTest:




### Public Member Functions

- void **setup** ()

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

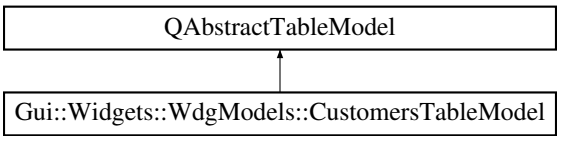
- tests/models/customermodeltest.h
- tests/models/customermodeltest.cpp

## 8.48 Gui::Widgets::WdgModels::CustomersTableModel Class Reference

The CustomersTableModel class for a customer table.

`#include <customerstablemodel.h>`

Inheritance diagram for Gui::Widgets::WdgModels::CustomersTableModel:



### Public Member Functions

- CustomersTableModel (QObject *parent=0)

  *CustomersTableModel::CustomersTableModel Construct a CustomersTableModel.*
- int rowCount (const QModelIndex &) const

  *CustomersTableModel::rowCount Number of customers row.*
- int columnCount (const QModelIndex &) const

  *CustomersTableModel::columnCount Number of column of a customer.*
- QVariant data (const QModelIndex &index, int role=Qt::DisplayRole) const

  *CustomersTableModel::data Obtains data of a specify cell.*
- QVariant headerData (int section, Qt::Orientation orientation, int role=Qt::DisplayRole) const

  *CustomersTableModel::headerData Obtains header title of table.*
- bool setData (const QModelIndex &index, const QVariant &value, int role=Qt::EditRole)

  *CustomersTableModel::setData Change data of a cell.*
- void append (const Customer &customer)

  *CustomersTableModel::append Add a new line in table.*
- void remove (const int i)

  *CustomersTableModel::remove Remove a line.*
- Qt::ItemFlags flags (const QModelIndex &index) const

  *CustomersTableModel::flags Differents table flags.*
- int count ()

  *CustomersTableModel::count Number of customers in table.*
- QList< Customer > getCustomers () const

  *CustomersTableModel::getCustomers Return the list of customers.*

## 8.48.1 Detailed Description

The CustomersTableModel class for a customer table.

**Author**

Florent Berbie

**See also**

Customer

## 8.48.2 Constructor & Destructor Documentation

### 8.48.2.1 Gui::Widgets::WdgModels::CustomersTableModel::CustomersTableModel ( QObject * *parent* = 0 )

CustomersTableModel::CustomersTableModel Construct a CustomersTableModel.

**Parameters**

| | |
|---|---|
| *parent* | Parent widget |

## 8.48.3 Member Function Documentation

### 8.48.3.1 void Gui::Widgets::WdgModels::CustomersTableModel::append ( const Customer & *customer* )

CustomersTableModel::append Add a new line in table.

**Parameters**

| | |
|---|---|
| *Customer* | The new customer |

#### 8.48.3.2 int Gui::Widgets::WdgModels::CustomersTableModel::columnCount ( const QModelIndex & ) const

CustomersTableModel::columnCount Number of column of a customer.

**Returns**

The number of column

#### 8.48.3.3 int Gui::Widgets::WdgModels::CustomersTableModel::count ( )

CustomersTableModel::count Number of customers in table.

**Returns**

The number of customers

#### 8.48.3.4 QVariant Gui::Widgets::WdgModels::CustomersTableModel::data ( const QModelIndex & *index*, int *role* = `Qt::DisplayRole` ) const

CustomersTableModel::data Obtains data of a specify cell.

**Parameters**

| | |
|---|---|
| *index* | The cell who we want data |
| *role* | The role of set |

**Returns**

The data of cell

#### 8.48.3.5 Qt::ItemFlags Gui::Widgets::WdgModels::CustomersTableModel::flags ( const QModelIndex & *index* ) const

CustomersTableModel::flags Differents table flags.

**Parameters**

| | |
|---|---|
| *index* | The cell who we want to know flags |

**Returns**

Flags

#### 8.48.3.6 QList< Customer > Gui::Widgets::WdgModels::CustomersTableModel::getCustomers ( ) const

CustomersTableModel::getCustomers Return the list of customers.

**Returns**

list of Customers

#### 8.48.3.7 QVariant Gui::Widgets::WdgModels::CustomersTableModel::headerData ( int *section,* Qt::Orientation *orientation,* int *role* = `Qt::DisplayRole` ) const

CustomersTableModel::headerData Obtains header title of table.

**Parameters**

| | |
|---|---|
| *section* | The number of column |
| *orientation* | The table orientation |
| *role* | |

**Returns**

The Title header of column

#### 8.48.3.8 void Gui::Widgets::WdgModels::CustomersTableModel::remove ( const int *i* )

CustomersTableModel::remove Remove a line.

**Parameters**

| | |
|---|---|
| *i* | The number of line to remove |

#### 8.48.3.9 int Gui::Widgets::WdgModels::CustomersTableModel::rowCount ( const QModelIndex & ) const

CustomersTableModel::rowCount Number of customers row.

**Returns**

The number of customers

#### 8.48.3.10 bool Gui::Widgets::WdgModels::CustomersTableModel::setData ( const QModelIndex & *index*, const QVariant & *value*, int *role* = `Qt::EditRole` )

CustomersTableModel::setData Change data of a cell.

**Parameters**

| | |
|---|---|
| *index* | The cell to change data |
| *value* | The new value |
| *role* | The role of cell |

**Returns**

True if we could edit

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

- src/gui/widgets/widgetsmodels/customerstablemodel.h
- src/gui/widgets/widgetsmodels/customerstablemodel.cpp

## 8.49 Databases::Database Class Reference

The **Database** class Master class for all database access.

`#include <database.h>`

Inheritance diagram for Databases::Database:

## Public Member Functions

- QString lastError (const QSqlQuery &q) const

  *Database::lastError Return an error message on the last error occured during the SQL request q*
- void testCases ()

  *Database::testCases Realise a test cases.*
- void executeFile (QString pName)

  *Database::executerFichier Exeute a specified file named pName*
- void openTransaction ()

  *Database::openTransaction Open new transaction.*
- void closeTransaction ()

  *Database::closeTransaction Close current transaction.*
- void close ()

  *Database::close Close database access.*
- void open ()

  *Database::open Open database.*
- ∼Database ()

  *Database::∼Database Suppression object, and close database access.*
- void setDatabase (QSqlDatabase sql)

  *Database::setDatabase Set database.*
- void updateBillingNumber ()

  *Database::updateBillingNumber Update the billing number.*
- void cleanDatabase ()

  *Database::clearDatabase Drop alls tables of Database WARNING: We can't restore data after.*
- void changeDatabase (Databases::DbType dbType)

  *changeDatabase Change the current database : mysql to sqlite or sqlite to mysql*

## Static Public Member Functions

- static Database ∗ instance (bool tests=false) throw (DbException∗)

  *Database::getInstance Return an instance of Database.*

## Protected Member Functions

- Database (bool tests=false) throw (DbException∗)

  *Database::Database Database is a singleton.*
- QVariant value (const QSqlQuery &q, const QString &champ) const

  *Database::valeur Value of database field.*

## Protected Attributes

- QSettings ∗ _settings

  *settings*
- QSqlDatabase mDatabase

  *contains Database*
- QList< Database ∗ > _instances

  *List of instances.*

### Static Protected Attributes

- static Database * _instance = 0

  *Instance.*
- static bool _dbInstance = 0

  *an instance of db is open*
- static bool isOpen = false

  *Database is open.*
- static bool **_isMysql** = false

## 8.49.1 Detailed Description

The **Database** class Master class for all database access.

**Author**

Antoine de Roquemaurel

## 8.49.2 Member Function Documentation

### 8.49.2.1 void Databases::Database::changeDatabase ( Databases::DbType *dbType* )

changeDatabase Change the current database : mysql to sqlite or sqlite to mysql

**Parameters**

| | |
|---|---|
| *dbType* | : The new database type, Sqlite or Mysql |

### 8.49.2.2 void Databases::Database::executeFile ( QString *pName* )

Database::executerFichier Exeute a specified file named *pName*

**Parameters**

| | |
|---|---|
| *pNom* | File name |

### 8.49.2.3 Database * Databases::Database::instance ( bool *tests* = `false` ) throw DbException *) [static]

Database::getInstance Return an instance of Database.

**Returns**

Instance of Database

### 8.49.2.4 QString Databases::Database::lastError ( const QSqlQuery & *q* ) const [inline]

Database::lastError Return an error message on the last error occured during the SQL request *q*

**Parameters**

| | |
|---|---|
| *q* | SQL request |

**Returns**

an error message

#### 8.49.2.5 void Databases::Database::setDatabase ( QSqlDatabase *sql* )

Database::setDatabase Set database.

**Parameters**

| | |
|---|---|
| *sql* | The new database |

#### 8.49.2.6 QVariant Databases::Database::value ( const QSqlQuery & *q*, const QString & *champ* ) const [protected]

Database::valeur Value of database field.

**Parameters**

| | |
|---|---|
| *q* | Query |
| *champ* | Field |

**Returns**

The value

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

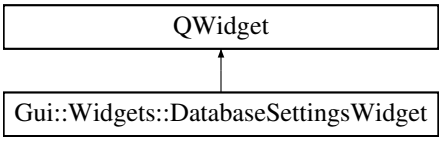
- src/database/database.h
- src/database/database.cpp

## 8.50 Gui::Widgets::DatabaseSettingsWidget Class Reference

The DatabaseSettingsWidget class Windows of database settings.

`#include <databasesettingswidget.h>`

Inheritance diagram for Gui::Widgets::DatabaseSettingsWidget:




### Public Slots

- bool isValid ()

  *DatabaseSettingsWidget::isValid Return TRUE if all fields are correctly inputed else FALSE.*
- void checkRepeatPassword (QString text)

  *DatabaseSettingsWidget::checkRepeatLogin Check if the second login field is the same than the first.*
- void userInterfaceChanged ()

  *DatabaseSettingsWidget::userInterfaceChanged User interface has changed.*

### Signals

- void textfieldChanged ()

  *DatabaseSettingsWidget::textfieldChanged Signal which indicates if a fieldtext has changed.*

### Public Member Functions

- DatabaseSettingsWidget (QWidget *parent=0)

  *DatabaseSettingsWidget::DatabaseSettingsWidget Construct a DatabaseSettingsWidget.*
- void fillFields ()

  *DatabaseSettingsWidget::fillFields Complete fields with a default value for field Database name, Username, IP address and port.*
- QString getDatabaseName ()

  *DatabaseSettingsWidget::getDatabaseName Return the database name.*
- QString getLogin ()

  *DatabaseSettingsWidget::getLogin Return the login of the user.*
- QString getPassword ()

  *DatabaseSettingsWidget::getPassword Return the password of the user.*
- QString getDomainNameOrIP ()

  *DatabaseSettingsWidget::getDomainNameOrIP Return the domain name or IP address on the machine where is the database.*
- QString getPort ()

  *DatabaseSettingsWidget::getPort Return the port of the database.*

## 8.50.1 Detailed Description

The DatabaseSettingsWidget class Windows of database settings.

**Author**

## 8.50.2 Constructor & Destructor Documentation

### 8.50.2.1 Gui::Widgets::DatabaseSettingsWidget::DatabaseSettingsWidget ( QWidget * *parent* = 0 ) [explicit]

DatabaseSettingsWidget::DatabaseSettingsWidget Construct a DatabaseSettingsWidget.

**Parameters**

| | |
|---|---|
| *parent* | Parent widget of this windows |

## 8.50.3 Member Function Documentation

### 8.50.3.1 QString Gui::Widgets::DatabaseSettingsWidget::getDatabaseName ( )

DatabaseSettingsWidget::getDatabaseName Return the database name.

**Returns**

Database name

#### 8.50.3.2 QString Gui::Widgets::DatabaseSettingsWidget::getDomainNameOrIP ( )

DatabaseSettingsWidget::getDomainNameOrIP Return the domain name or IP address on the machine where is the database.

**Returns**

Domain name or IP address

#### 8.50.3.3 QString Gui::Widgets::DatabaseSettingsWidget::getLogin ( )

DatabaseSettingsWidget::getLogin Return the login of the user.

**Returns**

Login of the user

#### 8.50.3.4 QString Gui::Widgets::DatabaseSettingsWidget::getPassword ( )

DatabaseSettingsWidget::getPassword Return the password of the user.

**Returns**

User password

#### 8.50.3.5 QString Gui::Widgets::DatabaseSettingsWidget::getPort ( )

DatabaseSettingsWidget::getPort Return the port of the database.

**Returns**

Database port

#### 8.50.3.6 bool Gui::Widgets::DatabaseSettingsWidget::isValid ( ) [slot]

DatabaseSettingsWidget::isValid Return TRUE if all fields are correctly inputed else FALSE.

**Returns**

boolean

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

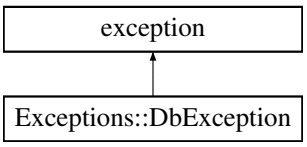
- src/gui/widgets/databasesettingswidget.h
- src/gui/widgets/databasesettingswidget.cpp

## 8.51 Exceptions::DbException Class Reference

The DbException class for database exception : queries, db file, . . .

`#include <dbexception.h>`

Inheritance diagram for Exceptions::DbException:




### Public Member Functions

- DbException (const QString fct, const QString fctName, const QString logError, float errorCode)

  *DbException::DbException. Construct a DbException.*
- virtual ~DbException () throw ()

  *~DbException*
- void popupMessage (QWidget *parent)

  *DbException::popupMessage. Display a popup message with the message error.*

## 8.51.1 Detailed Description

The DbException class for database exception : queries, db file, . . .

**Author**

Antoine de Roquemaurel

## 8.51.2 Constructor & Destructor Documentation

### 8.51.2.1 Exceptions::DbException::DbException ( const QString *fct*, const QString *fctName*, const QString *logError*, float *errorCode* )

DbException::DbException. Construct a DbException.

**Parameters**

| | |
|---|---|
| *userError* | ClassName of error |
| *fctName* | Function name |
| *logError* | Message error |
| *errorCode* | Code of error |

## 8.51.3 Member Function Documentation

### 8.51.3.1 void Exceptions::DbException::popupMessage ( QWidget * *parent* )

DbException::popupMessage. Display a popup message with the message error.

**Parameters**

| | |
|---|---|
| *parent* | |

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

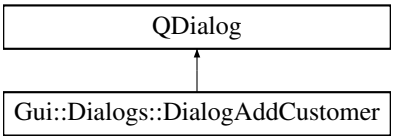
- src/exceptions/dbexception.h
- src/exceptions/dbexception.cpp

## 8.52 Gui::Dialogs::DialogAddCustomer Class Reference

The DialogAddCustomer class Window to add or modify a Customer.

`#include <dialogaddcustomer.h>`

Inheritance diagram for Gui::Dialogs::DialogAddCustomer:




### Public Slots

- void checkFields ()

  *DialogAddCustomer::checkFields Check if fields are valid.*

### Public Member Functions

- DialogAddCustomer (int id=0, QWidget ∗parent=0)

  *DialogAddCustomer::DialogAddCustomer Construct a window to add/modify a Customer.*
- void fillFields ()

  *DialogAddCustomer::fillFields If the Customer exits, fill line edits with the data of the current Customer.*
- void accept ()

  *DialogAddCustomer::accept Valid data inputed by user and add these data in Database.*
- void reject ()

  *DialogAddCustomer::reject Cancel the operation and close the windows.*

### 8.52.1 Detailed Description

The DialogAddCustomer class Window to add or modify a Customer.

**Author**

### 8.52.2 Constructor & Destructor Documentation

#### 8.52.2.1 Gui::Dialogs::DialogAddCustomer::DialogAddCustomer ( int *id* = 0, QWidget ∗ *parent* = 0 ) [explicit]

DialogAddCustomer::DialogAddCustomer Construct a window to add/modify a Customer.

**Parameters**

| | |
|---|---|
| *id* | Customer id |
| *parent* | QWidget parent |

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

- src/gui/dialogs/dialogaddcustomer.h
- src/gui/dialogs/dialogaddcustomer.cpp

## 8.53 Utils::Directories Class Reference

### Static Public Member Functions

- static QString makeDirectory (QDir &directory, const QString path, const QString folder) throw (Exceptions↩ ::FileException∗)

  *MainWindow::makeDirectory If not exists make a new directory folder*

### 8.53.1 Member Function Documentation

#### 8.53.1.1 QString Utils::Directories::makeDirectory ( QDir & *directory,* const QString *path,* const QString *folder* ) throw Exceptions::FileException ∗) [static]

MainWindow::makeDirectory If not exists make a new directory *folder*

**Parameters**

| | |
|---|---|
| *path* | Return the path of the folder just created |
| *folder* | Folder name to create |

**Returns**

Path of the folder just created

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

- src/utils/directories.h
- src/utils/directories.cpp

## 8.54 Utils::Double Class Reference

The Double class Utils functions for Double calculs.

`#include <double.h>`

### Static Public Member Functions

- static double round (double n, unsigned int d)

  *round Roud a double value to d decimals*
- static double **round** (double n, unsigned int d)

### 8.54.1 Detailed Description

The Double class Utils functions for Double calculs.

### 8.54.2 Member Function Documentation

#### 8.54.2.1 double Utils::Double::round ( double *n,* unsigned int *d* ) [static]

round Roud a double value to d decimals

**Parameters**

| | |
|---|---|
| *n* | The number |
| *d* | The number of decimals who you want |

**Returns**

The rounded value

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

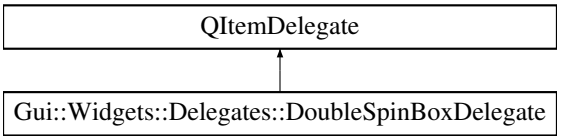
- src/utils/double.h
- src/utils/double.cpp

## 8.55 Gui::Widgets::Delegates::DoubleSpinBoxDelegate Class Reference

The DoubleSpinBoxDelegate class.

`#include <doublespinboxdelegate.h>`

Inheritance diagram for Gui::Widgets::Delegates::DoubleSpinBoxDelegate:




### Public Member Functions

- DoubleSpinBoxDelegate (QObject ∗parent=0)

  *DoubleSpinBoxDelegate::DoubleSpinBoxDelegate.*
- QWidget ∗ createEditor (QWidget ∗parent, const QStyleOptionViewItem &option, const QModelIndex &index) const

  *DoubleSpinBoxDelegate::createEditor Return a ComboBox specified by index item defined by the parent widget and style option which are used to control how the editor widgets appears.*
- void setEditorData (QWidget ∗editor, const QModelIndex &index) const

  *DoubleSpinBoxDelegate::setEditorData Sets the data to be displayed and edited by the editor from the data model item specified by the model index*
- void setModelData (QWidget ∗editor, QAbstractItemModel ∗model, const QModelIndex &index) const

  *DoubleSpinBoxDelegate::setEditorData Sets the data to be displayed and edited by the editor from the data model item specified by the model index*
- void updateEditorGeometry (QWidget ∗editor, const QStyleOptionViewItem &option, const QModelIndex &index) const

  *DoubleSpinBoxDelegate::updateEditorGeometry Update the editor for the item specified by index according to the style option given.*

### 8.55.1 Detailed Description

The DoubleSpinBoxDelegate class.

**Author**

Florent Berbie

### 8.55.2 Constructor & Destructor Documentation

#### 8.55.2.1 Gui::Widgets::Delegates::DoubleSpinBoxDelegate::DoubleSpinBoxDelegate ( QObject * *parent* = 0 )

DoubleSpinBoxDelegate::DoubleSpinBoxDelegate.

**Parameters**

| | |
|---|---|
| *parent* | |

### 8.55.3 Member Function Documentation

#### 8.55.3.1 QWidget * Gui::Widgets::Delegates::DoubleSpinBoxDelegate::createEditor ( QWidget * *parent*, const QStyleOptionViewItem & *option*, const QModelIndex & *index* ) const

DoubleSpinBoxDelegate::createEditor Return a ComboBox specified by *index* item defined by the *parent* widget and style *option* which are used to control how the editor widgets appears.

**Parameters**

| | |
|---|---|
| *parent* | Widget parent |
| *option* | Option style |
| *index* | Index for editing |

**Returns**

DoubleSpinBoxDelegate

#### 8.55.3.2 void Gui::Widgets::Delegates::DoubleSpinBoxDelegate::setEditorData ( QWidget * *editor*, const QModelIndex & *index* ) const

DoubleSpinBoxDelegate::setEditorData Sets the data to be displayed and edited by the *editor* from the data model item specified by the model *index*

**Parameters**

| | |
|---|---|
| *editor* | Data edited |
| *index* | Index of the model to edit |

#### 8.55.3.3 void Gui::Widgets::Delegates::DoubleSpinBoxDelegate::setModelData ( QWidget * *editor*, QAbstractItemModel * *model*, const QModelIndex & *index* ) const

DoubleSpinBoxDelegate::setEditorData Sets the data to be displayed and edited by the *editor* from the data model item specified by the model *index*

**Parameters**

| | |
|---|---|
| *editor* | Data edited |
| *index* | Index of the model to edit |

#### 8.55.3.4 void Gui::Widgets::Delegates::DoubleSpinBoxDelegate::updateEditorGeometry ( QWidget * *editor*, const QStyleOptionViewItem & *option*, const QModelIndex & *index* ) const

DoubleSpinBoxDelegate::updateEditorGeometry Update the *editor* for the item specified by *index* according to the style *option* given.

**Parameters**

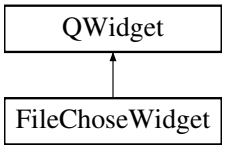
| | |
|---|---|
| *editor* | Editor widget to update |
| *option* | Style option |
| *index* | Item index |

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

- src/gui/widgets/delegates/doublespinboxdelegate.h
- src/gui/widgets/delegates/doublespinboxdelegate.cpp

## 8.56 FileChoseWidget Class Reference

Inheritance diagram for FileChoseWidget:




### Public Member Functions

- **FileChoseWidget** (QWidget ∗parent=0)

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

- src/gui/widgets/filechosewidget.h
- src/gui/widgets/filechosewidget.cpp

## 8.57 Exceptions::FileException Class Reference

The FileException class for file/acess file exception.

`#include <fileexception.h>`

### Public Member Functions

- FileException (const QString userError, const QString fctName, const QString logError, float errorCode)

  *FileException::FileException. Construct a FileException.*
- void popupMessage (QWidget ∗parent)

  *FileException::popupMessage. Display a popup message with the message error.*

### 8.57.1 Detailed Description

The FileException class for file/acess file exception.

**Author**

Florent Berbie

### 8.57.2 Constructor & Destructor Documentation

#### 8.57.2.1 Exceptions::FileException::FileException ( const QString *userError,* const QString *fctName,* const QString *logError,* float *errorCode* )

FileException::FileException. Construct a FileException.

**Parameters**

| | |
|---|---|
| *userError* | ClassName of error |
| *fctName* | Function name |
| *logError* | Message error |
| *errorCode* | Code of error |

### 8.57.3 Member Function Documentation

#### 8.57.3.1 void Exceptions::FileException::popupMessage ( QWidget * *parent* )

FileException::popupMessage. Display a popup message with the message error.

**Parameters**

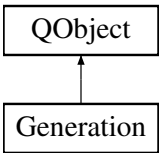
| | |
|---|---|
| *parent* | |

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

- src/exceptions/fileexception.h
- src/exceptions/fileexception.cpp

## 8.58 Generation Class Reference

Inheritance diagram for Generation:




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

- tests/generation.h
- tests/generation.cpp

## 8.59 Utils::HierarchicalSystem Class Reference

The HierarchicalSystem class Create class which contains hierarchical system of FactDev.

`#include <hierarchicalsystem.h>`

### Public Member Functions

- HierarchicalSystem ()

  *HierarchicalSystem::HierarchicalSystem Construct a HierarchicalSystem.*
- void getAllProjects ()

  *HierarchicalSystem::getAllProjects Get all projects and add each project to Customer linked.*
- void getAllBillings ()

  *HierarchicalSystem::getAllBillings Get all billings and add each billing to Project linked.*
- void updateData ()

*HierarchicalSystem::updateData* *Update data on Customers, Projects, Billings.*

- void addProjectToCustomer (Project ∗p, Customer c)

  *HierarchicalSystem::addProjectToCustomer* *Add the Project p to the Customer c*

- void addBillingToProject (Billing ∗b, Project ∗p)

  *HierarchicalSystem::addBillingToProject* *Add the Billing b to the Project p*

- QMap< Project ∗, Customer > getCustomers () const

  *HierarchicalSystem::getCustomers* *Return all customers and these projects linked.*

- QMap< Billing ∗, Project ∗ > getProjects () const

  *HierarchicalSystem::getProjects* *Return all projects and these billing linked.*

### 8.59.1 Detailed Description

The HierarchicalSystem class Create class which contains hierarchical system of FactDev.

**Author**

Florent Berbie

**See also**

Customer
Project
Billing

### 8.59.2 Member Function Documentation

#### 8.59.2.1 void Utils::HierarchicalSystem::addBillingToProject ( Billing ∗ *b*, Project ∗ *p* )

HierarchicalSystem::addBillingToProject Add the Billing *b* to the Project p

**Parameters**

| | |
|---|---|
| *b* | Billing |
| *p* | Project |

#### 8.59.2.2 void Utils::HierarchicalSystem::addProjectToCustomer ( Project ∗ *p*, Customer *c* )

HierarchicalSystem::addProjectToCustomer Add the Project *p* to the Customer *c*

**Parameters**

| | |
|---|---|
| *p* | Project |
| *c* | Customer |

#### 8.59.2.3 QMap< Project ∗, Customer > Utils::HierarchicalSystem::getCustomers ( ) const

HierarchicalSystem::getCustomers Return all customers and these projects linked.

**Returns**

Projects linked to Customers

#### 8.59.2.4 QMap< Billing *, Project * > Utils::HierarchicalSystem::getProjects ( void ) const

HierarchicalSystem::getProjects Return all projects and these billing linked.

**Returns**

Billing linked to Projects

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

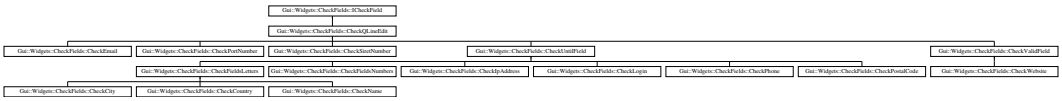
- src/utils/hierarchicalsystem.h
- src/utils/hierarchicalsystem.cpp

## 8.60 Gui::Widgets::CheckFields::ICheckField Class Reference

The ICheckField class Interface to check fields validity.

`#include <icheckfield.h>`

Inheritance diagram for Gui::Widgets::CheckFields::ICheckField:




### Public Member Functions

- virtual bool check (QString text)=0

  *ICheckField::check Check if the field (line edit) is valid Return TRUE if the field is valid, else FALSE.*

### 8.60.1 Detailed Description

The ICheckField class Interface to check fields validity.

### 8.60.2 Member Function Documentation

#### 8.60.2.1 virtual bool Gui::Widgets::CheckFields::ICheckField::check ( QString *text* ) [pure virtual]

ICheckField::check Check if the field (line edit) is valid Return TRUE if the field is valid, else FALSE.

**Returns**

boolean Validity of the text

Implemented in Gui::Widgets::CheckFields::CheckEmail, Gui::Widgets::CheckFields::CheckPortNumber, Gui::Widgets::CheckFields::CheckFieldsNumbers, Gui::Widgets::CheckFields::CheckIpAddress, Gui::Widgets::CheckFields::CheckWebsite, Gui::Widgets::CheckFields::CheckLogin, Gui::Widgets::CheckFields::CheckPhone, Gui::Widgets::CheckFields::CheckPostalCode, Gui::Widgets::CheckFields::CheckSiretNumber, Gui::Widgets::CheckFields::CheckUntilField, Gui::Widgets::CheckFields::CheckFieldsLetters, and Gui::Widgets::CheckFields::CheckValidField.

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

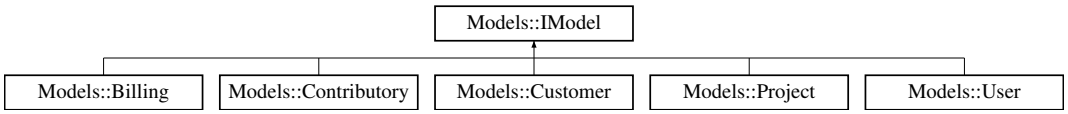
- src/gui/widgets/checkfields/icheckfield.h

## 8.61 Models::IModel Class Reference

The IModel class.

`#include <imodel.h>`

Inheritance diagram for Models::IModel:




### Public Member Functions

- virtual ~IModel ()

  ~*IModel Remove an instance of IModel*
- virtual void commit ()=0

  *IModel::commit Update or insert data into the database.*
- virtual void hydrat (int id)=0

  *IModel::hydrat Get data of the element which is specified by the identify id from the database.*
- virtual void remove ()=0

  *IModel::remove Remove the current element in the database.*
- virtual QVariantHash getDataMap ()=0

  *getDataMap Get all data of model with a HashMap key/value*
- int getId () const

  *IModel::getId Return the identify of the element of the database.*
- void setId (int id)

  *IModel::setId Replace the current identify by id*
- bool isToRemoved () const

  *toRemoved return if object must be removed.*
- void setToRemoved (bool toRemoved)

  *setToRemoved Change the flag for removed object*

### Protected Attributes

- int _id

  *Element identify.*
- bool _toRemoved

  *Flag to know if the object must be removed.*

### 8.61.1 Detailed Description

The IModel class.

**Author**

Antoine de Roquemaurel

### 8.61.2 Member Function Documentation

#### 8.61.2.1 virtual QVariantHash Models::IModel::getDataMap ( ) [pure virtual]

getDataMap Get all data of model with a HashMap key/value

**Returns**

Model's data

Implemented in Models::Contributory, Models::Billing, Models::Project, Models::User, and Models::Customer.

#### 8.61.2.2 int Models::IModel::getId ( ) const [inline]

IModel::getId Return the identify of the element of the database.

**Returns**

identity

#### 8.61.2.3 virtual void Models::IModel::hydrat ( int *id* ) [pure virtual]

IModel::hydrat Get data of the element which is specified by the identify *id* from the database.

**Parameters**

| | |
|---|---|
| *id* | |

Implemented in Models::Billing, Models::Project, Models::Contributory, Models::User, and Models::Customer.

#### 8.61.2.4 bool Models::IModel::isToRemoved ( ) const [inline]

toRemoved return if object must be removed.

**Returns**

boolean

#### 8.61.2.5 void Models::IModel::setId ( int *id* ) [inline]

IModel::setId Replace the current identify by *id*

**Parameters**

| | |
|---|---|
| *id* | New identify |

#### 8.61.2.6 void Models::IModel::setToRemoved ( bool *toRemoved* ) [inline]

setToRemoved Change the flag for removed object

**Parameters**

| | |
|---|---|
| *toRemoved* | The new flag |

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

- src/models/imodel.h

## 8.62 Utils::ItemType Class Reference

The ItemType class Item type model.

`#include <itemtype.h>`

### Public Member Functions

- ItemType (int type, QString name)

  *ItemType::ItemType Construct an Item type.*
- QString getName () const

  *ItemType::getName Get item name.*
- Models::IModel * getModel (int id)

  *ItemType::getModel Get the databasemodel of the **ItemType** according to this identity id*
- void setName (const QString &name)

  *ItemType::setName Modify the item name.*
- int getType () const

  *ItemType::getType Get the type of the current item.*
- void setType (int type)

  *ItemType::setType Modify the type of the current item.*

### Static Public Attributes

- static const int CUSTOMER = 0

  *constant value assigned to Customer*
- static const int PROJECT = 1

  *constant value assigned to Project*
- static const int BILLING = 2

  *constant value assigned to Billing*
- static const int QUOTE = 3

  *constant value assigned to Quote*

### 8.62.1 Detailed Description

The ItemType class Item type model.

### 8.62.2 Constructor & Destructor Documentation

#### 8.62.2.1 Utils::ItemType::ItemType ( int *type*, QString *name* )

ItemType::ItemType Construct an Item type.

**Parameters**

| | |
|---|---|
| *type* | Type of the item |
| *name* | Name of the item |

### 8.62.3 Member Function Documentation

#### 8.62.3.1 Models::IModel * Utils::ItemType::getModel ( int *id* )

ItemType::getModel Get the databasemodel of the **ItemType** according to this identity *id*

**Parameters**

| | |
|---|---|
| *id* | Item type identity |

**Returns**

database model

#### 8.62.3.2 QString Utils::ItemType::getName ( ) const

ItemType::getName Get item name.

**Returns**

item name

#### 8.62.3.3 int Utils::ItemType::getType ( ) const

ItemType::getType Get the type of the current item.

**Returns**

type of the current item

#### 8.62.3.4 void Utils::ItemType::setName ( const QString & *name* )

ItemType::setName Modify the item name.

**Parameters**

| | |
|---|---|
| *name* | New Item name |

#### 8.62.3.5 void Utils::ItemType::setType ( int *type* )

ItemType::setType Modify the type of the current item.

**Parameters**

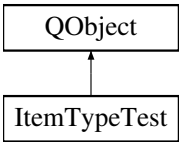
| | |
|---|---|
| *type* | New item type |

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

- src/utils/itemtype.h
- src/utils/itemtype.cpp

## 8.63 ItemTypeTest Class Reference

Inheritance diagram for ItemTypeTest:




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

- tests/utils/itemtypetest.h
- tests/utils/itemtypetest.cpp

## 8.64 Utils::Log Class Reference

The Log class for Simple management of log.

`#include <log.h>`

### Public Member Functions

- ~Log ()

  *Log::~Log.*
- void write (const QString text)

  *Log::write. Write log message in file.*
- Log ()

  *Log::Log. Log is a singleton.*

### Static Public Member Functions

- static Log & instance (TypeLog type=INFO)

  *Log::instance. Return the instance of logger.*

### Friends

- Log & operator<< (Log &logger, const QString &text)

  *operator << for log writing*

### 8.64.1 Detailed Description

The Log class for Simple management of log.

### 8.64.2 Member Function Documentation

#### 8.64.2.1 Log & Utils::Log::instance ( TypeLog *type* = INFO ) [static]

Log::instance. Return the instance of logger.

**Parameters**

| | |
|---|---|
| *type* | Type of log : WARNING, INFO, ERROR |

**Returns**

Instance of logger.

#### 8.64.2.2 void Utils::Log::write ( const QString *text* )

Log::write. Write log message in file.

**Parameters**

| | |
|---|---|
| *text* | |

### 8.64.3 Friends And Related Function Documentation

#### 8.64.3.1 Log& operator<< ( Log & *logger,* const QString & *text* ) [friend]

operator << for log writing

**Parameters**

| | |
|---|---|
| *logger* | Instance of Logger |
| *text* | Text to write |

**Returns**

New logger.

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

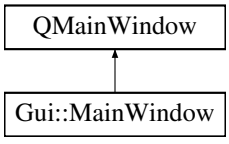
- src/utils/log.h
- src/utils/log.cpp

## 8.65 Gui::MainWindow Class Reference

The MainWindow class Main Window of the software.

`#include <mainwindow.h>`

Inheritance diagram for Gui::MainWindow:




### Public Slots

- void addCustomer ()

  *MainWindow::addCustomer open window to add a new customer.*
- void editCustomer ()

*MainWindow::editCustomer* *open window to modify a customer.*

- void removeCustomer ()

  *MainWindow::removeCustomer* *open a popup to confirm the deletion of a customer, if ok remove the customer.*
- void addQuote ()

  *MainWindow::addQuote* *open window to add a new quote.*
- void addBill ()

  *MainWindow::addBill* *open window to add a new bill.*
- void billingIsPaid ()

  *MainWindow::billingIsPaid* *Define the current billing as "paid".*
- void editUser ()

  *MainWindow::editUser* *modify the user.*
- void search (QString s)

  *MainWindow::search* *launch a new search.*
- void addProject ()

  *MainWindow::addProject* *Create a new project for a customer.*
- void removeProject (void)

  *MainWindow::removeProject* *Remove a project for a customer.*
- void editProject (void)

  *MainWindow::editProject* *Modify the customer project.*
- void aboutQt ()

  *MainWindow::aboutQt* *show Qt's details.*
- void aboutFact ()

  *MainWindow::aboutFact* *show FACT's details (FACT team)*
- void aboutFactDev ()

  *MainWindow::aboutFactDev()* *show FactDev's details (FactDev Software)*
- void aboutIcons ()

  *MainWindow::aboutIcons()* *show icons's details.*
- void updateButtons (void)

  *updateButton Update all button to disable or enabled its*
- void editDoc ()

  *MainWindow::editDoc* *Edit the quote or bill of the project.*
- void removeDoc ()

  *MainWindow::removeDoc* *Remove the quote or bill of the project.*
- void copyDoc ()

  *MainWindow::copyDoc* *Copy all elements of a quote or a bill and Display these elements in a new quote or bill.*
- void openPdf ()

  *MainWindow::openPdf* *Open the PDF file of the current Quote or Billing selected in the TableView.*
- void computeTurnover ()

  *MainWindow::computeTurnover* *open window to allow computation of a period turnover.*

## Public Member Functions

- MainWindow (QWidget *parent=0)

  *MainWindow: Construct a window.*
- int getCurrentCustomerId ()

  *MainWindow::getCurrentCustomerId* *get the selected customer.*
- int getCurrentProjectId ()

  *MainWindow::getCurrentProjectId* *get the selected project id.*
- int getCurrentQuoteId ()

  *MainWindow::getCurrentQuoteId* *get the selected quote id.*

- QString getCurrentCustomerName ()

  *MainWindow::getCurrentCustomerName get the selected customer name in the customers' table.*
- QString getCurrentProjectName ()

  *MainWindow::getCurrentProjectName get the selected project name in the table of projects.*
- int treeLevel ()

  *MainWindow::treeLevel return the level of the node selected in the tree.*
- QModelIndex rootTree ()

  *MainWindow::rootTree return the root of the tree "Tous les clients".*
- void addDoc (bool isBilling)

  *MainWindow::addDoc open window to add a new document.*
- void resizeEvent (QResizeEvent ∗event)

  *MainWindow::resizeEvent Resize central TableView when you resize the **MainWindow***
- void responsiveCustomerTable ()

  *MainWindow::responsiveCustomerTable Resize the Customer TableView according it resolution.*
- void responsiveProjectTable ()

  *MainWindow::responsiveProjectTable Resize the Project TableView according it resolution.*
- void responsiveBillingTable ()

  *MainWindow::responsiveBillingTable Resize the Billing TableView according it resolution.*

### 8.65.1 Detailed Description

The MainWindow class Main Window of the software.

**Author**

Everybody

### 8.65.2 Constructor & Destructor Documentation

#### 8.65.2.1 Gui::MainWindow::MainWindow ( QWidget ∗ *parent* = 0 ) [explicit]

MainWindow: Construct a window.

**Parameters**

| | |
|---|---|
| *parent* | |

### 8.65.3 Member Function Documentation

#### 8.65.3.1 void Gui::MainWindow::addBill ( ) [slot]

MainWindow::addBill open window to add a new bill.

**See also**

AddQuoteDialog

#### 8.65.3.2 void Gui::MainWindow::addDoc ( bool *isBilling* )

MainWindow::addDoc open window to add a new document.

**Parameters**

| | |
|---|---|
| *bool* | quote or bill |

**See also**

addBill addQuote

#### 8.65.3.3 void Gui::MainWindow::addProject ( ) [slot]

MainWindow::addProject Create a new project for a customer.

**See also**

AddProjectDialog

#### 8.65.3.4 void Gui::MainWindow::addQuote ( ) [slot]

MainWindow::addQuote open window to add a new quote.

**See also**

AddQuoteDialog

#### 8.65.3.5 void Gui::MainWindow::editUser ( ) [slot]

MainWindow::editUser modify the user.

**See also**

UserDataDialog

#### 8.65.3.6 int Gui::MainWindow::getCurrentCustomerId ( )

MainWindow::getCurrentCustomerId get the selected customer.

**Returns**

id of the selected customer

#### 8.65.3.7 QString Gui::MainWindow::getCurrentCustomerName ( )

MainWindow::getCurrentCustomerName get the selected customer name in the customers' table.

**Returns**

name of the selected customer

#### 8.65.3.8 int Gui::MainWindow::getCurrentProjectId ( )

MainWindow::getCurrentProjectId get the selected project id.

**Returns**

id of the selected project

#### 8.65.3.9 QString Gui::MainWindow::getCurrentProjectName ( )

MainWindow::getCurrentProjectName get the selected project name in the table of projects.

**Returns**

name of the selected project

#### 8.65.3.10 int Gui::MainWindow::getCurrentQuoteId ( )

MainWindow::getCurrentQuoteId get the selected quote id.

**Returns**

id of the selected quote

#### 8.65.3.11 void Gui::MainWindow::resizeEvent ( QResizeEvent * *event* )

MainWindow::resizeEvent Resize central TableView when you resize the **MainWindow**

**Parameters**

| | |
|---|---|
| *event* | Resize event |

#### 8.65.3.12 QModelIndex Gui::MainWindow::rootTree ( )

MainWindow::rootTree return the root of the tree "Tous les clients".

**Returns**

QModelIndex

#### 8.65.3.13 void Gui::MainWindow::search ( QString *s* ) [slot]

MainWindow::search launch a new search.

**Parameters**

| | |
|---|---|
| *s* | text in field |

#### 8.65.3.14 int Gui::MainWindow::treeLevel ( )

MainWindow::treeLevel return the level of the node selected in the tree.

**Returns**

integer, depth of the item in tree

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

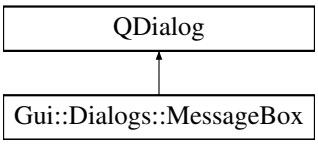
- src/gui/mainwindow/mainwindow.h
- src/gui/mainwindow/mainwindow.cpp

## 8.66 Gui::Dialogs::MessageBox Class Reference

The MessageBox class Information window with message.

`#include <messagebox.h>`

Inheritance diagram for Gui::Dialogs::MessageBox:




### Public Member Functions

- MessageBox (QWidget *parent=0)

  *MessageBox::MessageBox Construt a **MessageBox***
- void aboutFact ()

  *MessageBox::aboutFact Defines FACT team information.*
- void aboutFactDev ()

  *MessageBox::aboutFactDev Defines FactDev software information.*
- void aboutIcons ()

  *MessageBox::aboutIcons Defines icons theme information.*
- void setImage (QString img, int width=128, int height=128)

  *MessageBox::setImage Add the icon img to the current window.*
- void setText (QString txt)

  *MessageBox::setText Add the text txt to the current window.*

### Static Public Member Functions

- static void showAboutFact ()

  *MessageBox::showAboutFact Shows window about FACT team.*
- static void showAboutFactDev ()

  *MessageBox::showAboutFactDev Shows window about FactDev software.*
- static void showAboutIcons ()

  *MessageBox::showAboutIcons Shows about icons theme of FactDev software.*

### 8.66.1 Detailed Description

The MessageBox class Information window with message.

**Author**

Florent Berbie

### 8.66.2 Constructor & Destructor Documentation

#### 8.66.2.1 Gui::Dialogs::MessageBox::MessageBox ( QWidget * *parent* = 0 ) [explicit]

MessageBox::MessageBox Construt a **MessageBox**

**Parameters**

| | |
|---|---|
| *parent* | |

### 8.66.3 Member Function Documentation

#### 8.66.3.1 void Gui::Dialogs::MessageBox::setImage ( QString *img*, int *width* = 128, int *height* = 128 )

MessageBox::setImage Add the icon *img* to the current window.

**Parameters**

| | |
|---|---|
| *img* | Icon |
| *width* | Icon width (default: 128) |
| *height* | Icon height (default: 128) |

#### 8.66.3.2 void Gui::Dialogs::MessageBox::setText ( QString *txt* )

MessageBox::setText Add the text *txt* to the current window.

**Parameters**

| | |
|---|---|
| *txt* | Text inside the current window |

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

- src/gui/dialogs/messagebox.h
- src/gui/dialogs/messagebox.cpp

## 8.67 Parameters Class Reference

The Parameters class Class for simple user parameters.

`#include <parameters.h>`

### Static Public Attributes

- static const QString DB_FILENAME = "database.db"
  *DB_FILENAME The database sqlite file name.*
- static const double VERSION = 1.0
  *VERSION Version number of software.*

### 8.67.1 Detailed Description

The Parameters class Class for simple user parameters.

**Author**

Antoine de Roquemaurel

### 8.67.2 Member Data Documentation

#### 8.67.2.1 const QString Parameters::DB_FILENAME = "database.db" [static]

DB_FILENAME The database sqlite file name.

Database file name

#### 8.67.2.2 const double Parameters::VERSION = 1.0 [static]

VERSION Version number of software.

Application version

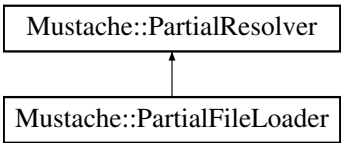
The documentation for this class was generated from the following files:

- src/parameters.h
- src/parameters.cpp

## 8.68 Mustache::PartialFileLoader Class Reference

`#include <mustache.h>`

Inheritance diagram for Mustache::PartialFileLoader:




### Public Member Functions

- **PartialFileLoader** (const QString &basePath)
- virtual QString getPartial (const QString &name)

### 8.68.1 Detailed Description

A partial fetcher when loads templates from '<name>.mustache' files in a given directory.

Once a partial has been loaded, it is cached for future use.

### 8.68.2 Member Function Documentation

#### 8.68.2.1 QString PartialFileLoader::getPartial ( const QString & *name* ) [virtual]

Returns the partial template with a given `name`.

Implements Mustache::PartialResolver.

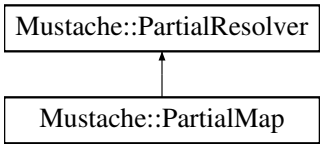
The documentation for this class was generated from the following files:

- src/libs/qt-mustache/src/mustache.h
- src/libs/qt-mustache/src/mustache.cpp

## 8.69 Mustache::PartialMap Class Reference

`#include <mustache.h>`

Inheritance diagram for Mustache::PartialMap:




### Public Member Functions

- **PartialMap** (const QHash< QString, QString > &partials)
- virtual QString getPartial (const QString &name)

### 8.69.1 Detailed Description

A simple partial fetcher which returns templates from a map of (partial name -> template)

### 8.69.2 Member Function Documentation

#### 8.69.2.1 QString PartialMap::getPartial ( const QString & *name* ) [virtual]

Returns the partial template with a given `name`.

Implements Mustache::PartialResolver.

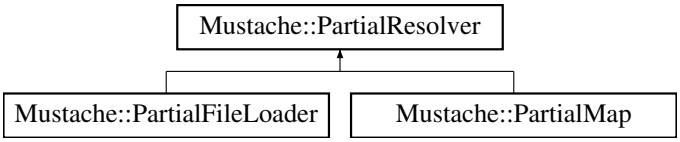
The documentation for this class was generated from the following files:

- src/libs/qt-mustache/src/mustache.h
- src/libs/qt-mustache/src/mustache.cpp

## 8.70 Mustache::PartialResolver Class Reference

`#include <mustache.h>`

Inheritance diagram for Mustache::PartialResolver:




### Public Member Functions

- virtual QString getPartial (const QString &name)=0

### 8.70.1 Detailed Description

Interface for fetching template partials.

### 8.70.2 Member Function Documentation

#### 8.70.2.1 virtual QString Mustache::PartialResolver::getPartial ( const QString & *name* ) [pure virtual]

Returns the partial template with a given `name`.

Implemented in Mustache::PartialFileLoader, and Mustache::PartialMap.

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

- src/libs/qt-mustache/src/mustache.h

## 8.71 Generator::PdfGenerator Class Reference

The PdfGenerator class Generator of PDF files.

`#include <pdfgenerator.h>`

### Public Member Functions

- PdfGenerator (QString pdflatexPath="pdflatex")

  *PdfGenerator::PdfGenerator Construct a PdfGenerator.*
- void generate (QString inputDir, QString filename)

  *PdfGenerator::generate Generate a PDF of the file named filename into the directory inputDir*

### 8.71.1 Detailed Description

The PdfGenerator class Generator of PDF files.

### 8.71.2 Constructor & Destructor Documentation

#### 8.71.2.1 Generator::PdfGenerator::PdfGenerator ( QString *pdflatexPath* = `"pdflatex"` )

PdfGenerator::PdfGenerator Construct a PdfGenerator.

**Parameters**

| | |
|---|---|
| *pdflatexPath* | Path to the command to generate PDF file |

### 8.71.3 Member Function Documentation

#### 8.71.3.1 void Generator::PdfGenerator::generate ( QString *inputDir*, QString *filename* )

PdfGenerator::generate Generate a PDF of the file named *filename* into the directory *inputDir*

**Parameters**

| | |
|---|---|
| *inputDir* | Directory where is store the PDF generated |
| *filename* | File name |

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

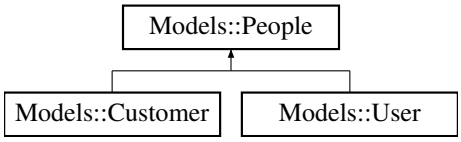
- src/generator/pdfgenerator.h
- src/generator/pdfgenerator.cpp

## 8.72 Models::People Class Reference

The People class People.

`#include <people.h>`

Inheritance diagram for Models::People:




### Public Member Functions

- People ()

  *People::People Construct a People.*
- QString getFirstname () const

  *People::getFirstname Return the People firstname.*
- void setFirstname (const QString &firstname)

  *People::setFirstnament Modify the People firstname*
- QString getLastname () const

  *People::getLastname Return the People lastname.*
- void setLastname (const QString &lastname)

  *People::setLastname Modify the People lastname*
- QString getCompany () const

  *People::getCompany Return the People company.*
- void setCompany (const QString &company)

  *People::setCompany Modify the People company name.*
- QString getAddress () const

  *People::getAddress Return the company addess (Number and name of street)*
- void setAddress (const QString &address)

  *People::setAddress Modify the People company address*
- QString getPostalCode () const

  *People::getPostalCode Return the postal code.*
- void setPostalCode (const QString &postalCode)

  *People::setPostalCode Modify the postal code postalCode*
- QString getCity () const

  *People::getCity Return the city.*
- void setCity (const QString &city)

  *People::setCity Modify the city*
- QString getCountry () const

  *People::getCountry Return the country of the People.*
- void setCountry (const QString &country)

  *People::setCountry Replace the country of the People by country*
- QString getEmail () const

  *People::getEmail Return the People professional email*
- void setEmail (const QString &email)

  *People::setEmail Modify the People professional email*
- QString getPhone () const

  *People::getPhone Return the number of the desktop phone.*

- void setPhone (const QString &phone)

  *People::setPhone Modify the number of the desktop phone*
- QString getMobilePhone () const

  *People::getMobilePhone Return the number of the professional mobile phone.*
- void setMobilePhone (const QString &mobilePhone)

  *People::setMobilePhone Modify the number of the professional People mobile phone mobilePhone*
- QString getFax () const

  *People::getFax Return the fax number.*
- void setFax (const QString &fax)

  *People::setFax Replace the current fax number by fax*
- QString getAddressComplement () const

  *getAddressComplement Return the address complement (Building, Appartment, . . . )*
- void setAddressComplement (const QString &addressComplement)

  *setAddressComplement Change the address complement*
- QString getWebsite () const

  *getWebsite Website of People*
- void setWebsite (const QString &website)

  *setWebsite Change the url of website*
- bool operator== (const People &c)

  *People::operator == Re-define the operator "==" to compare if the current People is the same to the other **People** c Return TRUE if both Peoples are the same, else FALSE.*
- bool operator!= (const People &c)

  *People::operator == Re-define the operator "!=" to compare if the current People is differnt to the other **People** c Return TRUE if both Peoples are different, else FALSE.*

### 8.72.1 Detailed Description

The People class People.

### 8.72.2 Member Function Documentation

#### 8.72.2.1 QString Models::People::getAddress ( ) const

People::getAddress Return the company addess (Number and name of street)

**Returns**

Address company

#### 8.72.2.2 QString Models::People::getAddressComplement ( ) const

getAddressComplement Return the address complement (Building, Appartment, . . . )

**Returns**

The address complement

#### 8.72.2.3 QString Models::People::getCity ( ) const

People::getCity Return the city.

**Returns**

city

#### 8.72.2.4 QString Models::People::getCompany ( ) const

People::getCompany Return the People company.

**Returns**

New company name

#### 8.72.2.5 QString Models::People::getCountry ( ) const

People::getCountry Return the country of the People.

**Returns**

country of the People

#### 8.72.2.6 QString Models::People::getEmail ( ) const

People::getEmail Return the People professional *email*

**Returns**

professional email

#### 8.72.2.7 QString Models::People::getFax ( ) const

People::getFax Return the fax number.

**Returns**

fax number

#### 8.72.2.8 QString Models::People::getFirstname ( ) const

People::getFirstname Return the People firstname.

**Returns**

People firstname

#### 8.72.2.9 QString Models::People::getLastname ( ) const

People::getLastname Return the People lastname.

**Returns**

People lastname

#### 8.72.2.10 QString Models::People::getMobilePhone ( ) const

People::getMobilePhone Return the number of the professional mobile phone.

**Returns**

number of mobile phone

#### 8.72.2.11 QString Models::People::getPhone ( ) const

People::getPhone Return the number of the desktop phone.

**Returns**

number of the desktop phone

#### 8.72.2.12 QString Models::People::getPostalCode ( ) const

People::getPostalCode Return the postal code.

**Returns**

postal code

#### 8.72.2.13 QString Models::People::getWebsite ( ) const

getWebsite Website of People

**Returns**

The website url

#### 8.72.2.14 bool Models::People::operator!= ( const People & *c* )

People::operator == Re-define the operator "!=" to compare if the current People is differnt to the other **People** *c* Return TRUE if both Peoples are different, else FALSE.

**Parameters**

| | |
|---|---|
| *c* | People to compare |

**Returns**

boolean

#### 8.72.2.15 bool Models::People::operator== ( const People & *c* )

People::operator == Re-define the operator "==" to compare if the current People is the same to the other **People** *c* Return TRUE if both Peoples are the same, else FALSE.

**Parameters**

| | |
|---|---|
| *c* | People to compare |

**Returns**

boolean

#### 8.72.2.16 void Models::People::setAddress ( const QString & *address* )

People::setAddress Modify the People company *address*

**Parameters**

| | |
|---|---|
| *address* | Company address (name and number of street) |

#### 8.72.2.17 void Models::People::setAddressComplement ( const QString & *addressComplement* )

setAddressComplement Change the address complement

**Parameters**

| | |
|---|---|
| *addressComplement* | The new complement |

#### 8.72.2.18 void Models::People::setCity ( const QString & *city* )

People::setCity Modify the *city*

**Parameters**

| | |
|---|---|
| *city* | Company city address |

#### 8.72.2.19 void Models::People::setCompany ( const QString & *company* )

People::setCompany Modify the People *company* name.

**Parameters**

| | |
|---|---|
| *company* | New People company name |

#### 8.72.2.20 void Models::People::setCountry ( const QString & *country* )

People::setCountry Replace the country of the People by *country*

**Parameters**

| | |
|---|---|
| *country* | New country of the People |

#### 8.72.2.21 void Models::People::setEmail ( const QString & *email* )

People::setEmail Modify the People professional *email*

**Parameters**

| | |
|---|---|
| *email* | The People professional email |

#### 8.72.2.22 void Models::People::setFax ( const QString & *fax* )

People::setFax Replace the current fax number by *fax*

**Parameters**

| | |
|---|---|
| *fax* | new fax number |

#### 8.72.2.23 void Models::People::setFirstname ( const QString & *firstname* )

People::setFirstnament Modify the People *firstname*

**Parameters**

| | |
|---|---|
| *firstname* | New People firstname |

#### 8.72.2.24 void Models::People::setLastname ( const QString & *lastname* )

People::setLastname Modify the People *lastname*

**Parameters**

| | |
|---|---|
| *lastname* | New People lastname |

#### 8.72.2.25 void Models::People::setMobilePhone ( const QString & *mobilePhone* )

People::setMobilePhone Modify the number of the professional People mobile phone *mobilePhone*

**Parameters**

| | |
|---|---|
| *mobilePhone* | Number of the professional mobile phone |

#### 8.72.2.26 void Models::People::setPhone ( const QString & *phone* )

People::setPhone Modify the number of the desktop *phone*

**Parameters**

| | |
|---|---|
| *phone* | Number of the desktop phone |

#### 8.72.2.27 void Models::People::setPostalCode ( const QString & *postalCode* )

People::setPostalCode Modify the postal code *postalCode*

**Parameters**

| | |
|---|---|
| *postalCode* | New postal code |

#### 8.72.2.28 void Models::People::setWebsite ( const QString & *website* )

setWebsite Change the url of website

**Parameters**

| | |
|---|---|
| *website* | The new URL |

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

- src/models/people.h
- src/models/people.cpp

## 8.73 Utils::pointers Class Reference

### Static Public Member Functions

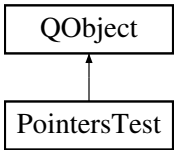
- static void **deleteIfNotNull** (QObject ∗p)

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

- src/utils/pointers.h
- src/utils/pointers.cpp

## 8.74 PointersTest Class Reference

Inheritance diagram for PointersTest:




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

- tests/utils/pointerstest.h
- tests/utils/pointerstest.cpp

## 8.75 Gui::Widgets::Popup Class Reference

Class for display popup quickly.

`#include <popup.h>`

### Static Public Member Functions

- static void toImplement (QString, QWidget ∗)

  *Popup::toImplement Method to display a critical message : feature is not implemented now.*

### 8.75.1 Detailed Description

Class for display popup quickly.

**Author**

Antoine de Roquemaurel

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

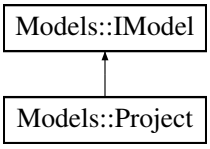
- src/gui/widgets/popup.h
- src/gui/widgets/popup.cpp

## 8.76 Models::Project Class Reference

The Project class : Project linked to a Customer.

`#include <project.h>`

Inheritance diagram for Models::Project:




### Public Member Functions

- Project ()

  *Project::Project Construct a Project.*
- Project (QString name)

  *Project::project Construct a project with a name.*
- Project (int id)

  *Project::Project Construct a Project which is specified by an id*
- virtual ~Project ()

  *~Project Desctruct project object*
- void commit ()

  *Project::commit Update project data in the database.*
- void hydrat (int id)

  *Project::hydrat Insert project data which is specified by id in the database.*
- void remove ()

  *Project::remove Remove the current project.*
- QVariantHash getDataMap ()

  *getDataMap Get all data of model with a HashMap key/value*
- QString getName () const

  *Project::getName Return the project name.*
- void setName (const QString &name)

  *Project::setName Modify the project name*
- QString getDescription () const

  *Project::getDescription Return a project description.*
- void setDescription (const QString &description)

  *Project::setDescription Modify the project description*
- QDate getBeginDate () const

  *Project::getBeginDate return the date of creation of the **Project***
- void setBeginDate (QDate beginDate)

  *Project::setBeginDate Modify beginDate of a **Project***
- QDate getEndDate () const

  *Project::getEndDate Return the endDate of the **Project***
- void setEndDate (QDate endDate)

  *Project::setEndDate Modify endDate of **Project***
- double getCost () const

  *Project::getCost Return the **Project** cost*
- void setCost (double cost)

  *Project::setCost Modify the **Project** cost*

- double getDailyRate () const

  *Project::getDailyRate Return the daily rate estimated for this project.*
- void setDailyRate (double dailyRate)

  *Project::setDailyRate Modify the daily rate dailyRate of the current project.*
- QSharedPointer< Customer > getCustomer () const

  *Project::getCustomer Return the reference to the customer linked to this project.*
- void setCustomer (QSharedPointer< Customer > customer)

  *Project::setCustomer Modify the customer linked to this project.*
- bool operator== (const Project &p)

  *Project::operator == Re-define the operator "==" to compare if the current project is the same to the other **Project** p Return TRUE if both projects are the same, else FALSE.*
- bool operator< (const Project &p) const

  *Project::operator < defines the operator "< to compare two **Project** and to see if the fisrt is anterior to the second.*
- bool operator!= (const Project &p)

  *Project::operator == Re-define the operator "!=" to compare if the current project is differnt to the other **Project** p Return TRUE if both projects are different, else FALSE.*
- double getCost ()

  *Project::costCompute compute the **Project** cost*

## Additional Inherited Members

### 8.76.1 Detailed Description

The Project class : Project linked to a Customer.

**Author**

Florent Berbie

**See also**

IModel

### 8.76.2 Constructor & Destructor Documentation

#### 8.76.2.1 Models::Project::Project ( int *id* )

Project::Project Construct a Project which is specified by an *id*

**Parameters**

| | |
|---|---|
| *id* | |

### 8.76.3 Member Function Documentation

#### 8.76.3.1 QDate Models::Project::getBeginDate ( ) const

Project::getBeginDate return the date of creation of the **Project**

**Returns**

the begin date of the Project

#### 8.76.3.2 double Models::Project::getCost ( ) const

Project::getCost Return the **Project** *cost*

**Returns**

the project cost

#### 8.76.3.3 double Models::Project::getCost ( )

Project::costCompute compute the **Project** *cost*

**Returns**

the project cost

#### 8.76.3.4 QSharedPointer< Customer > Models::Project::getCustomer ( ) const

Project::getCustomer Return the reference to the customer linked to this project.

**Returns**

customer linked to this project

#### 8.76.3.5 double Models::Project::getDailyRate ( ) const

Project::getDailyRate Return the daily rate estimated for this project.

**Returns**

the daily rate linket to the current project

#### 8.76.3.6 QVariantHash Models::Project::getDataMap ( ) [virtual]

getDataMap Get all data of model with a HashMap key/value

**Returns**

Model's data

Implements Models::IModel.

#### 8.76.3.7 QString Models::Project::getDescription ( ) const

Project::getDescription Return a project description.

**Returns**

project description

#### 8.76.3.8 QDate Models::Project::getEndDate ( ) const

Project::getEndDate Return the *endDate* of the **Project**

**Returns**

the end date of the project

#### 8.76.3.9 QString Models::Project::getName ( ) const

Project::getName Return the project name.

**Returns**

project name

#### 8.76.3.10 void Models::Project::hydrat ( int *id* ) [virtual]

Project::hydrat Insert project data which is specified by *id* in the database.

**Parameters**

| | |
|---|---|
| *id* | Project identify |

Implements Models::IModel.

#### 8.76.3.11 bool Models::Project::operator!= ( const Project & *p* )

Project::operator == Re-define the operator "!=" to compare if the current project is differnt to the other **Project** *p* Return TRUE if both projects are different, else FALSE.

**Parameters**

| | |
|---|---|
| *c* | Project to compare |

**Returns**

boolean

#### 8.76.3.12 bool Models::Project::operator< ( const Project & *p* ) const

Project::operator < defines the operator "< to compare two **Project** and to see if the fisrt is anterior to the second.

**Parameters**

| | |
|---|---|
| *b* | the **Project** to compare with the current **Project** |

**Returns**

true if the **Project** are different else false

#### 8.76.3.13 bool Models::Project::operator== ( const Project & *p* )

Project::operator == Re-define the operator "==" to compare if the current project is the same to the other **Project** *p* Return TRUE if both projects are the same, else FALSE.

**Parameters**

| | |
|---|---|
| *c* | Project to compare |

**Returns**

boolean

#### 8.76.3.14 void Models::Project::setBeginDate ( QDate *beginDate* )

Project::setBeginDate Modify *beginDate* of a **Project**

**Parameters**

| | |
|---|---|
| *beginDate* | the new date of creation of the project |

#### 8.76.3.15 void Models::Project::setCost ( double *cost* )

Project::setCost Modify the **Project** *cost*

**Parameters**

| | |
|---|---|
| *cost* | the projectCost |

#### 8.76.3.16 void Models::Project::setCustomer ( QSharedPointer< **Customer** > *customer* )

Project::setCustomer Modify the *customer* linked to this project.

**Parameters**

| | |
|---|---|
| *customer* | New customer associated to this project |

#### 8.76.3.17 void Models::Project::setDailyRate ( double *dailyRate* )

Project::setDailyRate Modify the daily rate *dailyRate* of the current project.

**Parameters**

| | |
|---|---|
| *dailyRate* | New daily rate associated to the current project |

#### 8.76.3.18 void Models::Project::setDescription ( const QString & *description* )

Project::setDescription Modify the project *description*

**Parameters**

| | |
|---|---|
| *description* | New project description |

#### 8.76.3.19 void Models::Project::setEndDate ( QDate *endDate* )

Project::setEndDate Modify *endDate* of **Project**

**Parameters**

| | |
|---|---|
| *endDate* | the new end date of the project |

#### 8.76.3.20 void Models::Project::setName ( const QString & *name* )

Project::setName Modify the project *name*

**Parameters**

| | |
|---|---|
| *name* | Project name |

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

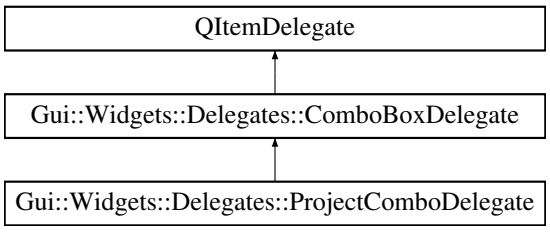
- src/models/project.h
- src/models/project.cpp

## 8.77 Gui::Widgets::Delegates::ProjectComboDelegate Class Reference

The ProjectComboDelegate class.

`#include <projectcombodelegate.h>`

Inheritance diagram for Gui::Widgets::Delegates::ProjectComboDelegate:




### Public Member Functions

- ProjectComboDelegate (QSharedPointer< Models::Customer > c, QObject *parent=0)

  *ProjectComboDelegate::ProjectComboDelegate.*
- QWidget * createEditor (QWidget *parent, const QStyleOptionViewItem &option, const QModelIndex &index) const

  *ProjectComboDelegate:createEditor Return a ComboBox specified by index item defined by the parent widget and style option which are used to control how the editor widgets appears.*
- void paint (QPainter *painter, const QStyleOptionViewItem &option, const QModelIndex &index) const

  *ProjectComboDelegate::paint Renders the delegate using the given painter and style option for the item specified by index*
- void removeInCombo (QList< int > &l)

  *ProjectComboDelegate::removeInCombo Remove the items contained in the list l into the current ComboBox.*
- QMap< int, Models::Project > getProjects () const

  *ProjectComboDelegate::getProjects Return a list of projects linked to a Customer ID.*
- bool isLocked () const

  *ProjectComboDelegate::isLocked Return TRUE if is locked else FALSE.*
- void setLocked (bool locked)

  *ProjectComboDelegate::setLocked Change the state of the lock by a new value locked*

### 8.77.1 Detailed Description

The ProjectComboDelegate class.

### 8.77.2 Constructor & Destructor Documentation

#### 8.77.2.1 Gui::Widgets::Delegates::ProjectComboDelegate::ProjectComboDelegate ( QSharedPointer< Models::Customer > *c*, QObject * *parent* = 0 )

ProjectComboDelegate::ProjectComboDelegate.

**Parameters**

| | |
|---|---|
| *c* | |
| *parent* | |

### 8.77.3 Member Function Documentation

#### 8.77.3.1 QWidget * Gui::Widgets::Delegates::ProjectComboDelegate::createEditor ( QWidget * *parent*, const QStyleOptionViewItem & *option*, const QModelIndex & *index* ) const [virtual]

ProjectComboDelegate:createEditor Return a ComboBox specified by *index* item defined by the *parent* widget and style *option* which are used to control how the editor widgets appears.

**Parameters**

| | |
|---|---|
| *parent* | Widget parent |
| *option* | Option style |
| *index* | Index for editing |

**Returns**

ComboBox

Implements Gui::Widgets::Delegates::ComboBoxDelegate.

#### 8.77.3.2 QMap< int, Models::Project > Gui::Widgets::Delegates::ProjectComboDelegate::getProjects ( ) const

ProjectComboDelegate::getProjects Return a list of projects linked to a Customer ID.

**Returns**

Projets of a Customer

#### 8.77.3.3 bool Gui::Widgets::Delegates::ProjectComboDelegate::isLocked ( ) const

ProjectComboDelegate::isLocked Return TRUE if is locked else FALSE.

**Returns**

boolean

#### 8.77.3.4 void Gui::Widgets::Delegates::ProjectComboDelegate::paint ( QPainter * *painter*, const QStyleOptionViewItem & *option*, const QModelIndex & *index* ) const [virtual]

ProjectComboDelegate::paint Renders the delegate using the given *painter* and style *option* for the item specified by *index*

**Parameters**

| | |
|---|---|
| *parent* | Widget parent |
| *option* | Option style |
| *index* | Index for editing |

Implements Gui::Widgets::Delegates::ComboBoxDelegate.

#### 8.77.3.5 void Gui::Widgets::Delegates::ProjectComboDelegate::setLocked ( bool *locked* )

ProjectComboDelegate::setLocked Change the state of the lock by a new value *locked*

**Parameters**

| | |
|---|---|
| *locked* | |

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

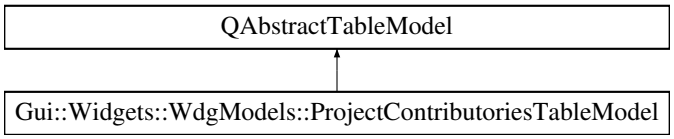
- src/gui/widgets/delegates/projectcombodelegate.h
- src/gui/widgets/delegates/projectcombodelegate.cpp

## 8.78 Gui::Widgets::WdgModels::ProjectContributoriesTableModel Class Reference

The ProjectContributoriesTableModel class Table model of contributories linked to projets.

`#include <projectcontributoriestablemodel.h>`

Inheritance diagram for Gui::Widgets::WdgModels::ProjectContributoriesTableModel:




### Public Member Functions

- ProjectContributoriesTableModel (QObject ∗parent=0)

  *ProjectContributoriesTableModel::ProjectContributoriesTableModel Construct a ProjectContributoriesTableModel.*
- int rowCount (const QModelIndex &) const

  *ProjectContributoriesTableModel::rowCount Number of contributories row.*
- int columnCount (const QModelIndex &) const

  *ProjectContributoriesTableModel::columnCount Number of column of a contributory.*
- QVariant data (const QModelIndex &index, int role) const

  *ProjectContributoriesTableModel::data Obtains data of a specify cell.*
- QVariant headerData (int section, Qt::Orientation orientation, int role) const

  *ProjectContributoriesTableModel::headerData Obtains header title of table.*
- bool setData (const QModelIndex &index, const QVariant &value, int role=Qt::EditRole)

  *ProjectContributoriesTableModel::setData Change data of a cell.*
- Qt::ItemFlags flags (const QModelIndex &index) const

  *ProjectContributoriesTableModel::flags Differents table flags.*
- void append (QPair< Models::Project ∗, Models::Rate > p)

  *ProjectContributoriesTableModel::append Add a new rate p to a Project.*
- void append ()

*ProjectContributoriesTableModel::append* *Add the current element to the list.*

- bool allProjectsChosen ()

  *ProjectContributoriesTableModel::allProjectsChosen* *Return TRUE if all projects have been selected else FALSE.*

- QList< int > & getSelectedProjects ()

  *ProjectContributoriesTableModel::getSelectedProjects* *Return the list of the Project id which are selected.*

- void remove (int index)

  *ProjectContributoriesTableModel::remove* *Remove the element to the index*

- QPair< Models::Project *, Models::Rate > getProject (const int row)

  *ProjectContributoriesTableModel::getProject* *Return the project and it rate linked which correspond to the row*

- QList< QPair< Models::Project *, Models::Rate > > getProjects (void)

  *ProjectContributoriesTableModel::getProjects* *Return a list of the set of projects and their rates linked.*

### 8.78.1 Detailed Description

The ProjectContributoriesTableModel class Table model of contributories linked to projets.

**Author**

Antoine de Roquemaurel

### 8.78.2 Constructor & Destructor Documentation

#### 8.78.2.1 Gui::Widgets::WdgModels::ProjectContributoriesTableModel::ProjectContributoriesTableModel ( QObject * *parent* = 0 )

ProjectContributoriesTableModel::ProjectContributoriesTableModel Construct a ProjectContributoriesTableModel.

**Parameters**

| | |
|---|---|
| *parent* | Parent widget |

### 8.78.3 Member Function Documentation

#### 8.78.3.1 bool Gui::Widgets::WdgModels::ProjectContributoriesTableModel::allProjectsChosen ( )

ProjectContributoriesTableModel::allProjectsChosen Return TRUE if all projects have been selected else FALSE.

**Returns**

boolean All projects selected

#### 8.78.3.2 void Gui::Widgets::WdgModels::ProjectContributoriesTableModel::append ( QPair< Models::Project *, Models::Rate > *p* )

ProjectContributoriesTableModel::append Add a new rate *p* to a Project.

**Parameters**

| | |
|---|---|
| *p* | |

#### 8.78.3.3 int Gui::Widgets::WdgModels::ProjectContributoriesTableModel::columnCount ( const QModelIndex & ) const

ProjectContributoriesTableModel::columnCount Number of column of a contributory.

**Returns**

The number of column

#### 8.78.3.4 QVariant Gui::Widgets::WdgModels::ProjectContributoriesTableModel::data ( const QModelIndex & *index*, int *role* ) const

ProjectContributoriesTableModel::data Obtains data of a specify cell.

**Parameters**

| | |
|---|---|
| *index* | The cell who we want data |
| *role* | The role of set |

**Returns**

The data of cell

#### 8.78.3.5 Qt::ItemFlags Gui::Widgets::WdgModels::ProjectContributoriesTableModel::flags ( const QModelIndex & *index* ) const

ProjectContributoriesTableModel::flags Differents table flags.

**Parameters**

| | |
|---|---|
| *index* | The cell who we want to know flags |

**Returns**

Flags

#### 8.78.3.6 QPair< Models::Project *, Models::Rate > Gui::Widgets::WdgModels::ProjectContributoriesTableModel::getProject ( const int *row* )

ProjectContributoriesTableModel::getProject Return the project and it rate linked which correspond to the *row*

**Parameters**

| | |
|---|---|
| *row* | Row of the project to get |

**Returns**

a Project and it rate

#### 8.78.3.7 QList< QPair< Models::Project *, Models::Rate > > Gui::Widgets::WdgModels::ProjectContributoriesTableModel::getProjects ( void )

ProjectContributoriesTableModel::getProjects Return a list of the set of projects and their rates linked.

**Returns**

List of Projects and Rates linked

#### 8.78.3.8 QList< int > & Gui::Widgets::WdgModels::ProjectContributoriesTableModel::getSelectedProjects ( )

ProjectContributoriesTableModel::getSelectedProjects Return the list of the Project id which are selected.

**Returns**

List of ID Project

#### 8.78.3.9 QVariant Gui::Widgets::WdgModels::ProjectContributoriesTableModel::headerData ( int *section*, Qt::Orientation *orientation*, int *role* ) const

ProjectContributoriesTableModel::headerData Obtains header title of table.

**Parameters**

| | |
|---|---|
| *section* | The number of column |
| *orientation* | The table orientation |
| *role* | |

**Returns**

The Title header of column

#### 8.78.3.10 void Gui::Widgets::WdgModels::ProjectContributoriesTableModel::remove ( int *index* )

ProjectContributoriesTableModel::remove Remove the element to the *index*

**Parameters**

| | |
|---|---|
| *index* | Index of the element to remove |

#### 8.78.3.11 int Gui::Widgets::WdgModels::ProjectContributoriesTableModel::rowCount ( const QModelIndex & ) const

ProjectContributoriesTableModel::rowCount Number of contributories row.

**Returns**

The number of contributories

#### 8.78.3.12 bool Gui::Widgets::WdgModels::ProjectContributoriesTableModel::setData ( const QModelIndex & *index*, const QVariant & *value*, int *role* = `Qt::EditRole` )

ProjectContributoriesTableModel::setData Change data of a cell.

**Parameters**

| | |
|---|---|
| *index* | The cell to change data |
| *value* | The new value |
| *role* | THe role of cell |

**Returns**

True if we could edit

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

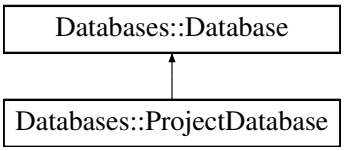
- src/gui/widgets/widgetsmodels/projectcontributoriestablemodel.h
- src/gui/widgets/widgetsmodels/projectcontributoriestablemodel.cpp

## 8.79 Databases::ProjectDatabase Class Reference

The ProjectDatabase class Project table database.

`#include <projectdatabase.h>`

Inheritance diagram for Databases::ProjectDatabase:




### Public Member Functions

- Models::Project * getProject (const int pId)

  *ProjectDatabase::getProject Get informations about the project identified by 'pId'.*
- Models::Project * getProject (QSqlQuery &q)

  *ProjectDatabase::getProject.*
- int addProject (const Models::Project &)

  *ProjectDatabase:addProject Add the project 'pProject' to the database.*
- void updateProject (const Models::Project &)

  *ProjectDatabase:updateProject Update informations about the project.*
- void removeProject (const int pId)

  *removeProject Remove the project with the id 'pId'*
- int getNbProjects ()

  *ProjectDatabase:getNbProjects Return the number of projects existing.*
- int getNbProjectsForACustomer (const int pId)

  *ProjectDatabase:getNbProjectsForACustomer Return the number of projects existing for an identify customer pId*
- QMap< int, Models::Project > getProjectsOfCustomer (QSharedPointer< Models::Customer > c)

  *getProjectsOfCustomer Return all projects of a customer*
- QList< Models::Project > getProjects (const int customerId)

  *getProjects Return all projects of a customer*
- WdgModels::ProjectsTableModel * getProjectsTable (const int pId) throw (DbException*)

  *getProjectsTable Return all projects of a customer in QStandardItemModel*
- QSharedPointer< Project > updateProject (QSqlQuery &q)

  *getProject Obtain a project without new query*
- QList< Project * > getAllProjects ()

  *Project::getAllProjects Return the list of projects.*
- double getCostProjects (QList< Project * > projects)

  *ProjectDatabase::getCostProjects compute the cost of the project list given in parameter.*

### Static Public Member Functions

- static ProjectDatabase * instance () throw (DbException*)

  *ProjectDatabase::getInstance Return an instance of ProjectDatabase.*

## Additional Inherited Members

### 8.79.1 Detailed Description

The ProjectDatabase class Project table database.

**Author**

Florent Berbie

**See also**

Database
Project

### 8.79.2 Member Function Documentation

#### 8.79.2.1 int Databases::ProjectDatabase::addProject ( const Models::Project & *pProject* )

ProjectDatabase:addProject Add the project 'pProject' to the database.

**Returns**

project id

#### 8.79.2.2 QList< Project * > Databases::ProjectDatabase::getAllProjects ( )

Project::getAllProjects Return the list of projects.

**Returns**

Projects list

#### 8.79.2.3 double Databases::ProjectDatabase::getCostProjects ( QList< Project * > *projects* )

ProjectDatabase::getCostProjects compute the cost of the project list given in parameter.

**Parameters**

| | |
|---|---|
| *projects* | the list of projects |

**Returns**

the cost of the list given

#### 8.79.2.4 int Databases::ProjectDatabase::getNbProjects ( )

ProjectDatabase:getNbProjects Return the number of projects existing.

**Returns**

number of projects

#### 8.79.2.5 int Databases::ProjectDatabase::getNbProjectsForACustomer ( const int *pId* )

ProjectDatabase:getNbProjectsForACustomer Return the number of projects existing for an identify customer *pId*

**Parameters**

| | |
|---|---|
| *pId* | Project id |

**Returns**

number of projects

#### 8.79.2.6 Models::Project * Databases::ProjectDatabase::getProject ( const int *pId* )

ProjectDatabase::getProject Get informations about the project identified by 'pId'.

**Parameters**

| | |
|---|---|
| *pId* | project |

**Returns**

the project

#### 8.79.2.7 Models::Project * Databases::ProjectDatabase::getProject ( QSqlQuery & *q* )

ProjectDatabase::getProject.

**Parameters**

| | |
|---|---|
| *q* | |

**Returns**

#### 8.79.2.8 QList< Project > Databases::ProjectDatabase::getProjects ( const int *customerId* )

getProjects Return all projects of a customer

**Parameters**

| | |
|---|---|
| *customerId* | The customer id |

**Returns**

List with all projects of customer

#### 8.79.2.9 QMap< int, Models::Project > Databases::ProjectDatabase::getProjectsOfCustomer ( QSharedPointer< Models::Customer > *c* )

getProjectsOfCustomer Return all projects of a customer

**Parameters**

| | |
|---|---|
| *c* | The customer |

**Returns**

All projects of c with id in key

#### 8.79.2.10 WdgModels::ProjectsTableModel * Databases::ProjectDatabase::getProjectsTable ( const int *pId* ) throw DbException *)

getProjectsTable Return all projects of a customer in QStandardItemModel

**Parameters**

| | |
|---|---|
| *filter* | Select only projects who are specified by *filter* |

**Returns**

QStandardItemModel an item model for QTableView

#### 8.79.2.11 ProjectDatabase * Databases::ProjectDatabase::instance ( ) throw DbException *) [static]

ProjectDatabase::getInstance Return an instance of ProjectDatabase.

**Returns**

Instance of ProjectDatabase

#### 8.79.2.12 void Databases::ProjectDatabase::removeProject ( const int *pId* )

removeProject Remove the project with the id 'pId'

**Parameters**

| | |
|---|---|
| *pId* | project id |

#### 8.79.2.13 QSharedPointer< Models::Project > Databases::ProjectDatabase::updateProject ( QSqlQuery & *q* )

getProject Obtain a project without new query

**Parameters**

| | |
|---|---|
| *q* | The query to use |

**Returns**

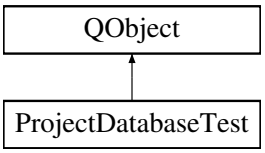
The project linked to q

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

- src/database/projectdatabase.h
- src/database/projectdatabase.cpp

## 8.80 ProjectDatabaseTest Class Reference

Inheritance diagram for ProjectDatabaseTest:

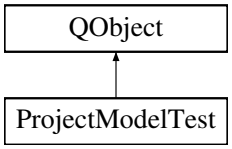



The documentation for this class was generated from the following files:

- tests/database/projectdatabasetest.h
- tests/database/projectdatabasetest.cpp

## 8.81 ProjectModelTest Class Reference

Inheritance diagram for ProjectModelTest:




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

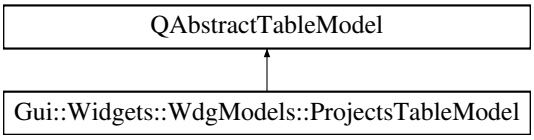
- tests/models/projectmodeltest.h
- tests/models/projectmodeltest.cpp

## 8.82 Gui::Widgets::WdgModels::ProjectsTableModel Class Reference

The ProjectsTableModel class for a Project table.

`#include <projectstablemodel.h>`

Inheritance diagram for Gui::Widgets::WdgModels::ProjectsTableModel:




### Public Member Functions

- ProjectsTableModel ()

  *ProjectsTableModel::ProjectsTableModel Construct a ProjectsTableModel.*
- int rowCount (const QModelIndex &) const

  *ProjectsTableModel::rowCount Number of projects row.*
- int columnCount (const QModelIndex &) const

  *ProjectsTableModel::columnCount Number of column of a Project.*
- QVariant data (const QModelIndex &index, int role=Qt::DisplayRole) const

  *ProjectsTableModel::data Obtains data of a specify cell.*
- QVariant headerData (int section, Qt::Orientation orientation, int role=Qt::DisplayRole) const

  *ProjectsTableModel::headerData Obtains header title of table.*
- bool setData (const QModelIndex &index, const QVariant &value, int role=Qt::EditRole)

  *ProjectsTableModel::setData Change data of a cell.*
- void append (const Project &project)

  *ProjectsTableModel::append Add a new line in table.*
- void remove (const int i)

  *ProjectsTableModel::remove Remove a line.*
- Qt::ItemFlags flags (const QModelIndex &index) const

  *ProjectsTableModel::flags Differents table flags.*
- int count ()

  *ProjectsTableModel::count Number of projects in table.*
- QList< Project > getProjects () const

  *ProjectsTableModel::getProjects Return the list of projects.*

### 8.82.1 Detailed Description

The ProjectsTableModel class for a Project table.

**Author**

Florent Berbie

**See also**

Project

### 8.82.2 Constructor & Destructor Documentation

#### 8.82.2.1 Gui::Widgets::WdgModels::ProjectsTableModel::ProjectsTableModel ( )

ProjectsTableModel::ProjectsTableModel Construct a ProjectsTableModel.

**Parameters**

| | |
|---|---|
| *parent* | Parent widget |

### 8.82.3 Member Function Documentation

#### 8.82.3.1 void Gui::Widgets::WdgModels::ProjectsTableModel::append ( const Project & *project* )

ProjectsTableModel::append Add a new line in table.

**Parameters**

| | |
|---|---|
| *Project* | The new Project |

#### 8.82.3.2 int Gui::Widgets::WdgModels::ProjectsTableModel::columnCount ( const QModelIndex & ) const

ProjectsTableModel::columnCount Number of column of a Project.

**Returns**

The number of column

#### 8.82.3.3 int Gui::Widgets::WdgModels::ProjectsTableModel::count ( )

ProjectsTableModel::count Number of projects in table.

**Returns**

The number of projects

#### 8.82.3.4 QVariant Gui::Widgets::WdgModels::ProjectsTableModel::data ( const QModelIndex & *index*, int *role* = `Qt::DisplayRole` ) const

ProjectsTableModel::data Obtains data of a specify cell.

**Parameters**

| | |
|---|---|
| *index* | The cell who we want data |
| *role* | The role of set |

**Returns**

The data of cell

#### 8.82.3.5 Qt::ItemFlags Gui::Widgets::WdgModels::ProjectsTableModel::flags ( const QModelIndex & *index* ) const

ProjectsTableModel::flags Differents table flags.

**Parameters**

| | |
|---|---|
| *index* | The cell who we want to know flags |

**Returns**

Flags

#### 8.82.3.6 QList< Project > Gui::Widgets::WdgModels::ProjectsTableModel::getProjects ( void ) const

ProjectsTableModel::getProjects Return the list of projects.

**Returns**

list of projects

#### 8.82.3.7 QVariant Gui::Widgets::WdgModels::ProjectsTableModel::headerData ( int *section*, Qt::Orientation *orientation*, int *role* = `Qt::DisplayRole` ) const

ProjectsTableModel::headerData Obtains header title of table.

**Parameters**

| | |
|---|---|
| *section* | The number of column |
| *orientation* | The table orientation |
| *role* | |

**Returns**

The Title header of column

#### 8.82.3.8 void Gui::Widgets::WdgModels::ProjectsTableModel::remove ( const int *i* )

ProjectsTableModel::remove Remove a line.

**Parameters**

| | |
|---|---|
| *i* | The number of line to remove |

#### 8.82.3.9 int Gui::Widgets::WdgModels::ProjectsTableModel::rowCount ( const QModelIndex & ) const

ProjectsTableModel::rowCount Number of projects row.

**Returns**

The number of projects

#### 8.82.3.10 bool Gui::Widgets::WdgModels::ProjectsTableModel::setData ( const QModelIndex & *index*, const QVariant & *value*, int *role* = `Qt::EditRole` )

ProjectsTableModel::setData Change data of a cell.

**Parameters**

| | |
|---|---|
| *index* | The cell to change data |
| *value* | The new value |
| *role* | The role of cell |

**Returns**

True if we could edit

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

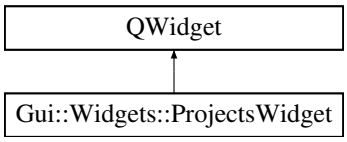
- src/gui/widgets/widgetsmodels/projectstablemodel.h
- src/gui/widgets/widgetsmodels/projectstablemodel.cpp

## 8.83 Gui::Widgets::ProjectsWidget Class Reference

The ProjectsWidget class Actions on Project.

`#include <projectswidget.h>`

Inheritance diagram for Gui::Widgets::ProjectsWidget:




### Public Slots

- void newProject ()

  *ProjectsWidget::addProject Event which sends a signal to add a new project.*
- void editSelectedProject ()

  *ProjectsWidget::editSelectedProject Event which sends a signal to edit the project selected.*
- void removeSelectedProject ()

  *ProjectsWidget::removeSelectedProject Event which sends a signal to remove the project selected.*
- void updateBtn (bool b)

  *ProjectsWidget::updateBtn Update the toolbar in tblProjects.*

### Signals

- void addProject ()

  *ProjectsWidget::addProject Add a new project to the current Customer.*
- void editProject ()

  *ProjectsWidget::editProject Edit the current Customer selected.*
- void removeProject ()

  *ProjectsWidget::removeProject Remove the current Customer selected.*

### Public Member Functions

- ProjectsWidget (QWidget ∗parent=0)

  *ProjectsWidget::ProjectsWidget Construct a ProjectsWidget.*

### 8.83.1 Detailed Description

The ProjectsWidget class Actions on Project.

**Author**

Florent Berbie

### 8.83.2 Constructor & Destructor Documentation

#### 8.83.2.1 Gui::Widgets::ProjectsWidget::ProjectsWidget ( QWidget ∗ *parent* = 0 ) [explicit]

ProjectsWidget::ProjectsWidget Construct a ProjectsWidget.

**Parameters**

| | |
|---|---|
| *parent* | |

### 8.83.3 Member Function Documentation

#### 8.83.3.1 void Gui::Widgets::ProjectsWidget::updateBtn ( bool *b* ) [slot]

ProjectsWidget::updateBtn Update the toolbar in tblProjects.

**Parameters**

| | |
|---|---|
| *boolean* | if a row is selected |

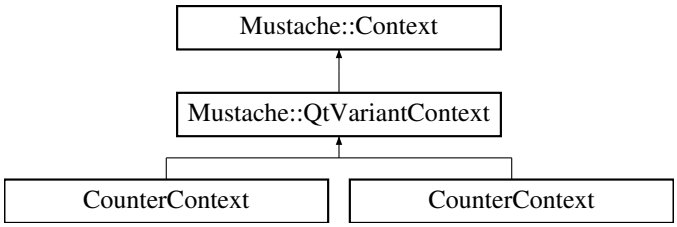
The documentation for this class was generated from the following files:

- src/gui/widgets/projectswidget.h
- src/gui/widgets/projectswidget.cpp

## 8.84 Mustache::QtVariantContext Class Reference

`#include <mustache.h>`

Inheritance diagram for Mustache::QtVariantContext:




### Public Types

- typedef QString(∗ fn_t) (const QString &, Mustache::Renderer ∗, Mustache::Context ∗)

### Public Member Functions

- **QtVariantContext** (const QVariant &root, PartialResolver ∗resolver=0)
- virtual QString stringValue (const QString &key) const
- virtual bool isFalse (const QString &key) const
- virtual int listCount (const QString &key) const
- virtual void push (const QString &key, int index=-1)
- virtual void pop ()
- virtual bool canEval (const QString &key) const
- virtual QString eval (const QString &key, const QString &_template, Mustache::Renderer ∗renderer)

## 8.84.1 Detailed Description

A context implementation which wraps a QVariantHash or QVariantMap.

## 8.84.2 Member Typedef Documentation

### 8.84.2.1 typedef QString(∗ Mustache::QtVariantContext::fn_t) (const QString &, Mustache::Renderer ∗, Mustache::Context ∗)

Construct a QtVariantContext which wraps a dictionary in a QVariantHash or a QVariantMap.

## 8.84.3 Member Function Documentation

### 8.84.3.1 bool QtVariantContext::canEval ( const QString & *key* ) const [virtual]

Returns true if eval() should be used to render section tags using `key`. If canEval() returns true for a key, the renderer will pass the literal, unrendered block of text for the section to eval() and replace the section with the result.

canEval() and eval() are equivalents for callable objects (eg. lambdas) in other Mustache implementations.

The default implementation always returns false.

Reimplemented from Mustache::Context.

Reimplemented in CounterContext, and CounterContext.

### 8.84.3.2 QString QtVariantContext::eval ( const QString & *key,* const QString & *_template,* Mustache::Renderer ∗ *renderer* ) [virtual]

Callback used to render a template section with the given `key`. `renderer` will substitute the original section tag with the result of eval().

The default implementation returns an empty string.

Reimplemented from Mustache::Context.

Reimplemented in CounterContext, and CounterContext.

#### 8.84.3.3 bool QtVariantContext::isFalse ( const QString & *key* ) const [virtual]

Returns true if the value for `key` is 'false' or an empty list. 'False' values typically include empty strings, the boolean value false etc.

When processing a section Mustache tag, the section is not rendered if the key is false, or for an inverted section tag, the section is only rendered if the key is false.

Implements Mustache::Context.

#### 8.84.3.4 int QtVariantContext::listCount ( const QString & *key* ) const [virtual]

Returns the number of items in the list value for `key` or 0 if the value for `key` is not a list.

Implements Mustache::Context.

#### 8.84.3.5 void QtVariantContext::pop ( ) [virtual]

Exit the current context.

Implements Mustache::Context.

#### 8.84.3.6 void QtVariantContext::push ( const QString & *key*, int *index* = `-1` ) [virtual]

Set the current context to the value for `key`. If index is >= 0, set the current context to the `index'th` value in the list value for `key`.

Implements Mustache::Context.

#### 8.84.3.7 QString QtVariantContext::stringValue ( const QString & *key* ) const [virtual]

Returns a string representation of the value for `key` in the current context. This is used to replace a Mustache value tag.

Implements Mustache::Context.

Reimplemented in CounterContext, and CounterContext.

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

- src/libs/qt-mustache/src/mustache.h
- src/libs/qt-mustache/src/mustache.cpp

## 8.85 Models::Rate Class Reference

The Rate class Rate of a prestation.

`#include <rate.h>`

### Public Member Functions

- Rate ()

*Rate::Rate Construct a Rate.*

- Rate (double hourly)

  *Rate::Rate Construct a Rate with an hourly rate.*
- Rate (int idBilling, int idProject)

  *Rate::Rate Construct a Rate for the Billing with idBilling as identify and from the project identified by idProject*
- void setDailyRate (const double &)

  *Rate::setDailyRate Modify the daily rate with the new value.*
- void setHourlyRate (const double &)

  *Rate::setHourlyRate Modify the hourly rate with the new value.*
- double getDailyRate () const

  *Rate::getDailyRate Return the daily rate.*
- double getHourlyRate () const

  *Rate::getHourlyRate Return the hourly rate.*
- int getNbDailyHours () const

  *Rate::getNbDailyHours Return the number of daily hours.*
- double getLegalRate () const

  *Rate::getLegalRate Return the legal rate.*

## 8.85.1 Detailed Description

The Rate class Rate of a prestation.

**Author**

Antoine de Roquemaurel

## 8.85.2 Constructor & Destructor Documentation

### 8.85.2.1 Models::Rate::Rate ( double *hourly* )

Rate::Rate Construct a Rate with an hourly rate.

**Parameters**

| | |
|---|---|
| *hourly* | Hourly rate |

### 8.85.2.2 Models::Rate::Rate ( int *idBilling*, int *idProject* )

Rate::Rate Construct a Rate for the Billing with *idBilling* as identify and from the project identified by *idProject*

**Parameters**

| | |
|---|---|
| *idBilling* | Billing identify |
| *idProject* | Project identify |

## 8.85.3 Member Function Documentation

### 8.85.3.1 double Models::Rate::getDailyRate ( ) const

Rate::getDailyRate Return the daily rate.

**Returns**

#### 8.85.3.2 double Models::Rate::getHourlyRate ( ) const

Rate::getHourlyRate Return the hourly rate.

**Returns**

#### 8.85.3.3 double Models::Rate::getLegalRate ( ) const

Rate::getLegalRate Return the legal rate.

**Returns**

#### 8.85.3.4 int Models::Rate::getNbDailyHours ( ) const

Rate::getNbDailyHours Return the number of daily hours.

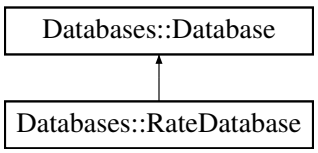
**Returns**

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

- src/models/rate.h
- src/models/rate.cpp

## 8.86 Databases::RateDatabase Class Reference

Inheritance diagram for Databases::RateDatabase:




### Public Member Functions

- void addRateProject (int idProject, int idBilling, double hourlyRate)

  *RateDatabase::addRateProject Add a new rate hourlyRate to the Project identified by idProject of the Billing with idBilling as identify.*
- double getRate (const int idBilling, const int idProject) const

  *RateDatabase::getRate Return the rate of the Project identified by idProject of the Billing with idBilling as identify.*
- void updateRateProject (int idProject, int idBilling, double hourlyRate)

  *RateDatabase::updateRateProject Update the current rate by the new hourlyRate of the Project identified by idProject of the Billing with idBilling as identify.*

## Static Public Member Functions

- static RateDatabase * instance () throw (DbException*)

  *RateDatabase::getInstance Return an instance of RateDatabase.*

## Additional Inherited Members

## 8.86.1 Member Function Documentation

### 8.86.1.1 void Databases::RateDatabase::addRateProject ( int *idProject*, int *idBilling*, double *hourlyRate* )

RateDatabase::addRateProject Add a new rate *hourlyRate* to the Project identified by *idProject* of the Billing with *idBilling* as identify.

**Parameters**

| | |
|---|---|
| *idProject* | Project identify |
| *idBilling* | Billing identify |
| *hourlyRate* | New hourly rate |

### 8.86.1.2 double Databases::RateDatabase::getRate ( const int *idBilling*, const int *idProject* ) const

RateDatabase::getRate Return the rate of the Project identified by *idProject* of the Billing with *idBilling* as identify.

**Parameters**

| | |
|---|---|
| *idBilling* | Billing identify |
| *idProject* | Project identify |

**Returns**

Rate of the Project of a Billing

### 8.86.1.3 RateDatabase * Databases::RateDatabase::instance ( ) throw DbException *) [static]

RateDatabase::getInstance Return an instance of RateDatabase.

**Returns**

Instance of RateDatabase

### 8.86.1.4 void Databases::RateDatabase::updateRateProject ( int *idProject*, int *idBilling*, double *hourlyRate* )

RateDatabase::updateRateProject Update the current rate by the new *hourlyRate* of the Project identified by *id↩ Project* of the Billing with *idBilling* as identify.

**Parameters**

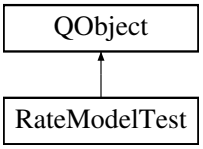
| | |
|---|---|
| *idProject* | Project identify |
| *idBilling* | Billing identify |
| *hourlyRate* | New hourly rate |

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

- src/database/ratedatabase.h
- src/database/ratedatabase.cpp

## 8.87 RateModelTest Class Reference

Inheritance diagram for RateModelTest:




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

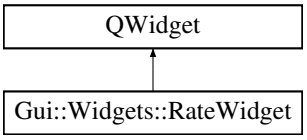
- tests/models/ratemodeltest.h
- tests/models/ratemodeltest.cpp

## 8.88 Gui::Widgets::RateWidget Class Reference

Class for display Rate.

`#include <ratewidget.h>`

Inheritance diagram for Gui::Widgets::RateWidget:




### Public Slots

- void setDailyRate ()

  *setDailyRate Set a new value for the daily rate*
- void setHourlyRate ()

  *setHourlyRate Set a new value for the hourly rate*

### Public Member Functions

- RateWidget (QWidget *parent=0)

  *RateWidget::RateWidget Construct a rate widget.*
- void initRate ()

  *RateWidget::initRate Initialize the rate.*
- void setWidgetDailyRateValue (double value)

  *RateWidget::setWidgetDailyRateValue Modify the value of the daily rate spin box component.*
- double getDailyRate ()

  *RateWidget::getDailyRate Get the daily rate.*
- double getHourlyRate ()

  *RateWidget::getHourlyRate Get the hourly rate.*
- void setWidgetHourlyRateValue (double value)

  *RateWidget::setWidgetHourlyRateValue Modify the value of the hourly rate spin box component.*
- void updateConversionRate ()

  *updateConversionRate Update daily rate or hourly rate*

### 8.88.1 Detailed Description

Class for display Rate.

**Author**

Florent Berbie

### 8.88.2 Constructor & Destructor Documentation

#### 8.88.2.1 Gui::Widgets::RateWidget::RateWidget ( QWidget * *parent* = 0 ) [explicit]

RateWidget::RateWidget Construct a rate widget.

**Parameters**

| | |
|---|---|
| *parent* | The QWidget parent |

### 8.88.3 Member Function Documentation

#### 8.88.3.1 double Gui::Widgets::RateWidget::getDailyRate ( )

RateWidget::getDailyRate Get the daily rate.

**Returns**

The daily rate

#### 8.88.3.2 double Gui::Widgets::RateWidget::getHourlyRate ( )

RateWidget::getHourlyRate Get the hourly rate.

**Returns**

The hourly rate

#### 8.88.3.3 void Gui::Widgets::RateWidget::setDailyRate ( ) [slot]

setDailyRate Set a new value for the daily rate

**Parameters**

| | |
|---|---|
| *dailyRate* | The new daily rate |

#### 8.88.3.4 void Gui::Widgets::RateWidget::setHourlyRate ( ) [slot]

setHourlyRate Set a new value for the hourly rate

**Parameters**

| | |
|---|---|
| *hourlyRate* | The new hourly rate |

#### 8.88.3.5 void Gui::Widgets::RateWidget::setWidgetDailyRateValue ( double *value* )

RateWidget::setWidgetDailyRateValue Modify the *value* of the daily rate spin box component.

**Parameters**

| | |
|---|---|
| *value* | New Value |

#### 8.88.3.6 void Gui::Widgets::RateWidget::setWidgetHourlyRateValue ( double *value* )

RateWidget::setWidgetHourlyRateValue Modify the *value* of the hourly rate spin box component.

**Parameters**

| | |
|---|---|
| *value* | New value |

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

- src/gui/widgets/ratewidget.h
- src/gui/widgets/ratewidget.cpp

## 8.89 Mustache::Renderer Class Reference

`#include <mustache.h>`

### Public Member Functions

- QString render (const QString &_template, Context *context)
- QString error () const
- int errorPos () const
- QString errorPartial () const
- void setTagMarkers (const QString &startMarker, const QString &endMarker)

### 8.89.1 Detailed Description

Renders Mustache templates, replacing mustache tags with values from a provided context.

### 8.89.2 Member Function Documentation

#### 8.89.2.1 QString Renderer::error ( ) const

Returns a message describing the last error encountered by the previous render() call.

#### 8.89.2.2 QString Renderer::errorPartial ( ) const

Returns the name of the partial where the error occurred, or an empty string if the error occurred in the main template.

#### 8.89.2.3 int Renderer::errorPos ( ) const

Returns the position in the template where the last error occurred when rendering the template or -1 if no error occurred.

If the error occurred in a partial template, the returned position is the offset in the partial template.

#### 8.89.2.4 QString Renderer::render ( const QString & *_template,* Context * *context* )

Render a Mustache template, using `context` to fetch the values used to replace Mustache tags.

#### 8.89.2.5 void Renderer::setTagMarkers ( const QString & *startMarker,* const QString & *endMarker* )

Sets the default tag start and end markers. This can be overridden within a template.

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

- src/libs/qt-mustache/src/mustache.h
- src/libs/qt-mustache/src/mustache.cpp

## 8.90 Models::Search Class Reference

The Search class.

`#include <search.h>`

### Public Member Functions

- Search ()

  *Search::Search Construct a search.*
- ~Search ()

  *Search::Search Destruct a search.*
- QString getFilter ()

  *Search::getFilter Return the search filter.*
- void filterOnVarcharElements (QString &filter, const QStringList list, QString element)

  *Search::filterOnVarcharElements Search, for each word of the list from the filter, if it corresponds to the element in the database.*
- void filterOnNumberElements (QString &filter, const QStringList list, QString element)

  *Search::filterOnNumberElements Search, for each number of the list from the filter, if it corresponds to the element in the database.*
- void filterOnCompany (QString &filter, const QStringList list)

  *Search::filterOnCompany Search all companies contained in the list of the filter*
- void filterOnReferentLastname (QString &filter, const QStringList list)

  *Search::filterOnReferentLastname Search all referents last name contained in the list of the filter*
- void filterOnProjects (QString &filter, const QStringList list)

  *Search::filterOnProjects Search all projects contained in the list of the filter*
- void filterOnContributories (QString &filter, const QStringList list)

  *Search::filterOnContributories Search all contributories contained in the list of the filter*
- void filterOnBillsOrQuotes (QString &filter, const QStringList list)

  *Search::filterOnBillsOrQuotes Search all bills or quotes which are contained in the list of the filter*
- void filterOnCustomersWithoutProject (QString &filter, const QStringList list)

  *Search::filterOnCustomersWithoutProject Search all customers which are contained in the list of the filter*
- bool getSearchInCompanies () const

  *Search::getSearchInCompanies Return if we search a company.*
- void setSearchInCompanies (bool searchInCompanies)

  *Search::setSearchInCompanies Modify the filter of companies search.*
- bool getSearchInReferentLastname () const

  *Search::getSearchInReferentLastname Return if we search a Last name referent.*
- void setSearchInReferentLastname (bool searchInReferentLastname)

*Search::setSearchInReferentLastname* *Modify the filter of referents last name search.*

- bool getSearchInProjects () const

  *Search::getSearchInProjects* *Return TRUE if it exists one or more projets in database.*
- void setSearchInProjects (bool searchInProjects)

  *Search::setSearchInProjects* *Modify the filter of projects search.*
- bool searchInContributories () const

  *Search::getSearchInContributories* *Return TRUE if it exists one or more projets in database.*
- void setSearchInContributories (bool searchInContributories)

  *Search::setSearchInContributories* *Modify the filter of contributories search.*
- bool getSearchInBillsQuotes () const

  *Search::searchInBillsQuotes* *Return TRUE if it exists one or more bills or quotes in database.*
- void setSearchInBillsQuotes (bool searchInBillsQuotes)

  *Search::setSearchInBillsQuotes* *Modify the filter of bills and quotes search.*
- bool getGroupFilter () const

  *Search::getGroupFilter* *Return if the filter is actived.*
- void setGroupFilter (bool getGroupFilter)

  *Search::setGroupFilter* *Modify if we active search filter.*
- QString getText () const

  *Search::getText* *Return sql portion of filter.*
- void setText (const QString &getText)

  *Search::setText* *Modify sql portion.*

### 8.90.1 Detailed Description

The Search class.

**Author**

Antoine de Roquemaurel
Florent Berbie

### 8.90.2 Member Function Documentation

#### 8.90.2.1 void Models::Search::filterOnBillsOrQuotes ( QString & *filter,* const QStringList *list* )

Search::filterOnBillsOrQuotes Search all bills or quotes which are contained in the *list* of the *filter*

**Parameters**

| | |
|---|---|
| *filter* | Text inputed in searchbar |
| *list* | List of bills or quotes |

#### 8.90.2.2 void Models::Search::filterOnCompany ( QString & *filter,* const QStringList *list* )

Search::filterOnCompany Search all companies contained in the *list* of the *filter*

**Parameters**

| | |
|---|---|
| *filter* | Text inputed in searchbar |
| *list* | List of companies |

#### 8.90.2.3 void Models::Search::filterOnContributories ( QString & *filter,* const QStringList *list* )

Search::filterOnContributories Search all contributories contained in the *list* of the *filter*

**Parameters**

| | |
|---|---|
| *filter* | Text inputed in searchbar |
| *list* | List of contributories |

#### 8.90.2.4 void Models::Search::filterOnCustomersWithoutProject ( QString & *filter,* const QStringList *list* )

Search::filterOnCustomersWithoutProject Search all customers which are contained in the *list* of the *filter*

**Parameters**

| | |
|---|---|
| *filter* | Text inputed in searchbar |
| *list* | List of bills or quotes |

#### 8.90.2.5 void Models::Search::filterOnNumberElements ( QString & *filter,* const QStringList *list,* QString *element* )

Search::filterOnNumberElements Search, for each number of the *list* from the *filter*, if it corresponds to the *element* in the database.

**Parameters**

| | |
|---|---|
| *filter* | Text inputed in the searchbar |
| *list* | List of numbers from the *filter* |
| *element* | Attribute name into the database |

#### 8.90.2.6 void Models::Search::filterOnProjects ( QString & *filter,* const QStringList *list* )

Search::filterOnProjects Search all projects contained in the *list* of the *filter*

**Parameters**

| | |
|---|---|
| *filter* | Text inputed in searchbar |
| *list* | List of projects |

#### 8.90.2.7 void Models::Search::filterOnReferentLastname ( QString & *filter,* const QStringList *list* )

Search::filterOnReferentLastname Search all referents last name contained in the *list* of the *filter*

**Parameters**

| | |
|---|---|
| *filter* | Text inputed in searchbar |
| *list* | List of referent last name |

#### 8.90.2.8 void Models::Search::filterOnVarcharElements ( QString & *filter,* const QStringList *list,* QString *element* )

Search::filterOnVarcharElements Search, for each word of the *list* from the *filter*, if it corresponds to the *element* in the database.

**Parameters**

| | |
|---|---|
| *filter* | Text inputed in the searchbar |
| *list* | List of words from the *filter* |
| *element* | Attribute name into the database |

#### 8.90.2.9 QString Models::Search::getFilter ( )

Search::getFilter Return the search filter.

**Returns**

filter selected (sql portion)

#### 8.90.2.10 bool Models::Search::getGroupFilter ( ) const

Search::getGroupFilter Return if the filter is actived.

**Returns**

boolean if search filter is actived

#### 8.90.2.11 bool Models::Search::getSearchInBillsQuotes ( ) const

Search::searchInBillsQuotes Return TRUE if it exists one or more bills or quotes in database.

**Returns**

boolean if bills or quotes are existing

#### 8.90.2.12 bool Models::Search::getSearchInCompanies ( ) const

Search::getSearchInCompanies Return if we search a company.

**Returns**

boolean if we search a company

#### 8.90.2.13 bool Models::Search::getSearchInProjects ( ) const

Search::getSearchInProjects Return TRUE if it exists one or more projets in database.

**Returns**

boolean if project are existing

#### 8.90.2.14 bool Models::Search::getSearchInReferentLastname ( ) const

Search::getSearchInReferentLastname Return if we search a Last name referent.

**Returns**

boolean if search concerns the last name of referent

#### 8.90.2.15 QString Models::Search::getText ( ) const

Search::getText Return sql portion of filter.

**Returns**

QString the sql portion

#### 8.90.2.16 bool Models::Search::searchInContributories ( ) const

Search::getSearchInContributories Return TRUE if it exists one or more projets in database.

**Returns**

boolean if contributories are existing

#### 8.90.2.17 void Models::Search::setGroupFilter ( bool *getGroupFilter* )

Search::setGroupFilter Modify if we active search filter.

**Parameters**

| | |
|---|---|
| *getGroupFilter* | Get if filter is actived |

#### 8.90.2.18 void Models::Search::setSearchInBillsQuotes ( bool *searchInBillsQuotes* )

Search::setSearchInBillsQuotes Modify the filter of bills and quotes search.

**Parameters**

| | |
|---|---|
| *searchInBills↩ Quotes* | Search in bills or quotes which are concerned |

#### 8.90.2.19 void Models::Search::setSearchInCompanies ( bool *searchInCompanies* )

Search::setSearchInCompanies Modify the filter of companies search.

**Parameters**

| | |
|---|---|
| *getSearchIn↩ Companies* | Search in companies is concerned |

#### 8.90.2.20 void Models::Search::setSearchInContributories ( bool *searchInContributories* )

Search::setSearchInContributories Modify the filter of contributories search.

**Parameters**

| | |
|---|---|
| *searchIn↩ Contributories* | Search in contributories which are concerned |

#### 8.90.2.21 void Models::Search::setSearchInProjects ( bool *searchInProjects* )

Search::setSearchInProjects Modify the filter of projects search.

**Parameters**

| | |
|---|---|
| *searchInProjects* | Search in projects which are concerned |

#### 8.90.2.22 void Models::Search::setSearchInReferentLastname ( bool *searchInReferentLastname* )

Search::setSearchInReferentLastname Modify the filter of referents last name search.

**Parameters**

| | |
|---|---|
| *searchIn↩ Referent↩ Lastname* | Search in referents last name which are concerned |

#### 8.90.2.23 void Models::Search::setText ( const QString & *getText* )

Search::setText Modify sql portion.

**Parameters**

| | |
|---|---|
| *getText* | Get sql portion |

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

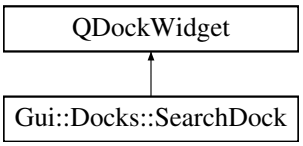
- src/models/search.h
- src/models/search.cpp

## 8.91 Gui::Docks::SearchDock Class Reference

The SearchDock class Dock which contains search bar.

`#include <searchdock.h>`

Inheritance diagram for Gui::Docks::SearchDock:




### Public Slots

- void search (QString text)

  *SearchDock::search Search elements in database which correspond to the text*

### Signals

- void textChanged (QString text)

  *SearchDock::textChanged Current text changed by text*

### Public Member Functions

- SearchDock (QWidget ∗parent=0, Qt::WindowFlags flags=0)

  *SearchDock::SearchDock Construct a SearchDock.*

### 8.91.1 Detailed Description

The SearchDock class Dock which contains search bar.

### 8.91.2 Constructor & Destructor Documentation

#### 8.91.2.1 Gui::Docks::SearchDock::SearchDock ( QWidget * *parent* = 0, Qt::WindowFlags *flags* = 0 ) [explicit]

SearchDock::SearchDock Construct a SearchDock.

**Parameters**

| | |
|---|---|
| *parent* | Widget Parent |
| *flags* | Window flag |

### 8.91.3 Member Function Documentation

#### 8.91.3.1 void Gui::Docks::SearchDock::search ( QString *text* ) [slot]

SearchDock::search Search elements in database which correspond to the *text*

**Parameters**

| | |
|---|---|
| *text* | Element to search |

#### 8.91.3.2 void Gui::Docks::SearchDock::textChanged ( QString *text* ) [signal]

SearchDock::textChanged Current text changed by *text*

**Parameters**

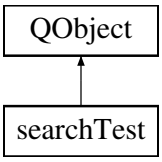
| | |
|---|---|
| *text* | New text |

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

- src/gui/docks/searchdock.h
- src/gui/docks/searchdock.cpp

## 8.92 searchTest Class Reference

Inheritance diagram for searchTest:




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

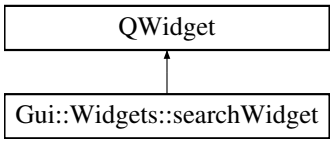
- tests/models/searchtest.h
- tests/models/searchtest.cpp

## 8.93 Gui::Widgets::searchWidget Class Reference

Class for search in database.

`#include <searchwidget.h>`

Inheritance diagram for Gui::Widgets::searchWidget:




### Public Slots

- void search (QString toSearch)

  *searchWidget::launch a search*
- void getCustomerData ()

  *searchWidget::getCustomerData Return data on the customer selected in the QTableView and display this data (Firstname, Lastname, Company)*

### Signals

- void selectCustomer ()

  *searchWidget::selectCustomer Signal that the Customer selected has changed*

### Public Member Functions

- searchWidget (QWidget ∗parent=0)

  *searchWidget::searchWidget Construct a search widget*
- int getCurrentCustomerId ()

  *searchWidget::getCurrentCustomerId Return the id of the customer selected in the table*
- bool isCustomerSelected () const

  *searchWidget::isCustomerSelected Return TRUE if a customer is selected, else FALSE*
- void selectCustomer (int id)

  *searchWidget::selectCustomer Select the Customer with it id*
- int getIdCustomer () const

  *searchWidget::getIdCustomer Return the Customer id of the Customer line selected*
- void setIdCustomer (int idCustomer)

  *searchWidget::setIdCustomer Change the customer id by the new idCustomer*

## 8.93.1 Detailed Description

Class for search in database.

**Author**

Antoine de Roquemaurel

## 8.93.2 Constructor & Destructor Documentation

### 8.93.2.1 Gui::Widgets::searchWidget::searchWidget ( QWidget ∗ *parent* = 0 ) [explicit]

searchWidget::searchWidget Construct a search widget

**Parameters**

| | |
|---|---|
| *parent* | The QWidget parent |

### 8.93.3 Member Function Documentation

#### 8.93.3.1 int Gui::Widgets::searchWidget::getCurrentCustomerId ( )

searchWidget::getCurrentCustomerId Return the id of the customer selected in the table

**Returns**

id of the current customer

#### 8.93.3.2 int Gui::Widgets::searchWidget::getIdCustomer ( ) const

searchWidget::getIdCustomer Return the Customer id of the Customer line selected

**Returns**

The Customer ID

#### 8.93.3.3 bool Gui::Widgets::searchWidget::isCustomerSelected ( ) const

searchWidget::isCustomerSelected Return TRUE if a customer is selected, else FALSE

**Returns**

boolean

#### 8.93.3.4 void Gui::Widgets::searchWidget::search ( QString *toSearch* ) [slot]

searchWidget::launch a search

**Parameters**

| | |
|---|---|
| *toSearch* | The value to search |

#### 8.93.3.5 void Gui::Widgets::searchWidget::selectCustomer ( int *id* )

searchWidget::selectCustomer Select the Customer with it *id*

**Parameters**

| | |
|---|---|
| *id* | Customer ID |

#### 8.93.3.6 void Gui::Widgets::searchWidget::setIdCustomer ( int *idCustomer* )

searchWidget::setIdCustomer Change the customer id by the new *idCustomer*

**Parameters**

| | |
|---|---|
| *idCustomer* | Customer id |

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

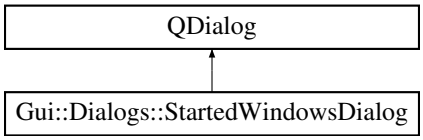
- src/gui/widgets/searchwidget.h
- src/gui/widgets/searchwidget.cpp

## 8.94 Gui::Dialogs::StartedWindowsDialog Class Reference

The StartedWindowsDialog class Contruct a Windows for the first begin.

`#include <startedwindowsdialog.h>`

Inheritance diagram for Gui::Dialogs::StartedWindowsDialog:




### Public Slots

- void checkFields ()

  *StartedWindowsDialog::checkFields Check all fields of dialog components.*
- void backToPage2 ()

  *StartedWindowsDialog::backToPage2 Return to the second page.*
- void nextToPage2 ()

  *StartedWindowsDialog::nextToPage2 Go to the second page.*
- void nextToPage3 ()

  *StartedWindowsDialog::nextToPage3 Go to the third page.*
- void databaseTypeChanged (const int index)

  *StartedWindowsDialog::databaseTypeChanged Listener on the Database type combobox.*
- void databaseTypeChanged (void)

  *StartedWindowsDialog::databaseTypeChanged Listener on the Database type combobox.*
- void updateNextButton ()

  *StartedWindowsDialog::updateNextButton Check if the next button is enabled.*
- void accept ()

  *StartedWindowsDialog::accept Valid data inputed by user and add these data in Database.*

### Public Member Functions

- StartedWindowsDialog (QWidget ∗parent=0)

  *StartedWindowsDialog::StartedWindowsDialog Contruct a StartedWindowsDialog.*
- void fillFields ()

  *StartedWindowsDialog::fillFields Fill line edits with the data of the user.*
- QPixmap getImage (QString path, int width=256, int height=256)

  *StartedWindowsDialog::getImage Return a scaled image from the icon specified by it path. The image returned has a resolution of width∗height (default 256∗256)*
- bool isDatabaseTypeValid ()

*StartedWindowsDialog::isDatabaseTypeValid* *Return TRUE if settings of database type is valid else return FALSE.*

- bool isDatabaseCentralized ()

  *StartedWindowsDialog::isDatabaseCentralized* *Return TRUE if the current type of database is centralized else FALSE.*

### 8.94.1 Detailed Description

The StartedWindowsDialog class Contruct a Windows for the first begin.

**Author**

Florent Berbie

**See also**

DatabaseSettingsWidget

### 8.94.2 Constructor & Destructor Documentation

#### 8.94.2.1 Gui::Dialogs::StartedWindowsDialog::StartedWindowsDialog ( QWidget * *parent* = 0 ) [explicit]

StartedWindowsDialog::StartedWindowsDialog Contruct a StartedWindowsDialog.

**Parameters**

| | |
|---|---|
| *parent* | QWidget parent |

### 8.94.3 Member Function Documentation

#### 8.94.3.1 void Gui::Dialogs::StartedWindowsDialog::databaseTypeChanged ( const int *index* ) [slot]

StartedWindowsDialog::databaseTypeChanged Listener on the Database type combobox.

**Parameters**

| | |
|---|---|
| *index* | Current index selected |

#### 8.94.3.2 QPixmap Gui::Dialogs::StartedWindowsDialog::getImage ( QString *path*, int *width* = 256, int *height* = 256 )

StartedWindowsDialog::getImage Return a scaled image from the icon specified by it *path*. The image returned has a resolution of *width*∗*height* (default 256∗256)

**Parameters**

| | |
|---|---|
| *path* | Icon path |
| *width* | Icon width |
| *height* | Icon height |

**Returns**

Scaled image

#### 8.94.3.3 bool Gui::Dialogs::StartedWindowsDialog::isDatabaseCentralized ( )

StartedWindowsDialog::isDatabaseCentralized Return TRUE if the current type of database is centralized else F↩ ALSE.

**Returns**

boolean

#### 8.94.3.4 bool Gui::Dialogs::StartedWindowsDialog::isDatabaseTypeValid ( )

StartedWindowsDialog::isDatabaseTypeValid Return TRUE if settings of database type is valid else return FALSE.

**Returns**

boolean on the database type validity

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

- src/gui/dialogs/startedwindowsdialog.h
- src/gui/dialogs/startedwindowsdialog.cpp

## 8.95 Models::Statistics Class Reference

### Static Public Member Functions

- static QPair< int, double > getTurnoverBetweenDates (QDate begin, QDate end)
  *getTurnoverBetweenDates Compute the turnover betweend 2 dates*

### 8.95.1 Member Function Documentation

#### 8.95.1.1 QPair< int, double > Statistics::getTurnoverBetweenDates ( QDate *begin*, QDate *end* ) [static]

getTurnoverBetweenDates Compute the turnover betweend 2 dates

**Parameters**

| | |
|---|---|
| *begin* | The beginning date |
| *end* | The ending date |

**Returns**

A Qpair who contains the number of billing and their costs

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

- src/models/statistics.h
- src/models/statistics.cpp

## 8.96 Utils::String Class Reference

The Utils class.

`#include <string.h>`

### Static Public Member Functions

- static QString firstLetterToUpper (QString s)

  *firstLetterToUpper Put the first letter of a string in capslock*

### 8.96.1 Detailed Description

The Utils class.

**Author**

Antoine de Roquemaurel

### 8.96.2 Member Function Documentation

#### 8.96.2.1 QString Utils::String::firstLetterToUpper ( QString *s* ) [static]

firstLetterToUpper Put the first letter of a string in capslock

**Parameters**

| | |
|---|---|
| *s* | The string to display |

**Returns**

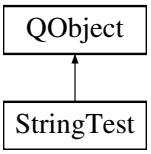
The new string with caps

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

- src/utils/string.h
- src/utils/string.cpp

## 8.97 StringTest Class Reference

Inheritance diagram for StringTest:




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

- tests/utils/stringtest.h
- tests/utils/stringtest.cpp

## 8.98 Mustache::Tag Struct Reference

`#include <mustache.h>`

### Public Types

- enum Type {
  **Null**, **Value**, SectionStart, InvertedSectionStart,
  SectionEnd, Partial, Comment, SetDelimiter }
- enum **EscapeMode** { **Escape**, **Unescape**, **Raw** }

### Public Attributes

- Type **type**
- QString **key**
- int **start**
- int **end**
- EscapeMode **escapeMode**

#### 8.98.1 Detailed Description

Holds properties of a tag in a mustache template.

#### 8.98.2 Member Enumeration Documentation

##### 8.98.2.1 enum Mustache::Tag::Type

Enumerator

***SectionStart*** A {{key}} or {{{key}}} tag.

***InvertedSectionStart*** A {{#section}} tag.

***SectionEnd*** An {{^inverted-section}} tag.

***Partial*** A {{/section}} tag.

***Comment*** A {{^partial}} tag.

***SetDelimiter*** A {{! comment }} tag. A {{=<% %>=}} tag

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

- src/libs/qt-mustache/src/mustache.h

## 8.99 TestAdder< T > Class Template Reference

### Public Member Functions

- **TestAdder** (const QString &name)

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

- tests/QTestRunner/testadder.cpp

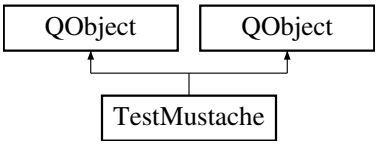
## 8.100 testadder Class Reference

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

- tests/QTestRunner/testadder.h

## 8.101 TestMustache Class Reference

Inheritance diagram for TestMustache:




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

- src/libs/qt-mustache/tests/test_mustache.h
- src/libs/qt-mustache/tests/test_mustache.cpp

## 8.102 TestRunner Class Reference

### Public Member Functions

- template<typename T >
  char **RegisterTest** (QString name)
- int **RunAll** ()

### Static Public Member Functions

- static TestRunner & **Instance** ()

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

- tests/QTestRunner/testrunner.h
- tests/QTestRunner/testrunner.cpp

## 8.103 Generator::TexGenerator Class Reference

The TexGenerator class Generate a LaTeX file.

`#include <texgenerator.h>`

### Public Member Functions

- TexGenerator (QString tpl)

  *TexGenerator::TexGenerator Construct a TexGenerator.*
- void generate (QVariantHash data, QString path)

  *TexGenerator::generate Generate a LaTeX file into a file specified by the path and which contains data*

### 8.103.1 Detailed Description

The TexGenerator class Generate a LaTeX file.

### 8.103.2 Constructor & Destructor Documentation

#### 8.103.2.1 Generator::TexGenerator::TexGenerator ( QString *tpl* )

TexGenerator::TexGenerator Construct a TexGenerator.

**Parameters**

| | |
|---|---|
| *tpl* | Template LaTeX to apply |

### 8.103.3 Member Function Documentation

#### 8.103.3.1 void Generator::TexGenerator::generate ( QVariantHash *data*, QString *path* )

TexGenerator::generate Generate a LaTeX file into a file specified by the *path* and which contains *data*

**Parameters**

| | |
|---|---|
| *data* | Data to integrate in the file |
| *path* | Path of the out file |

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

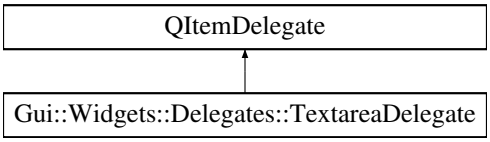
- src/generator/texgenerator.h
- src/generator/texgenerator.cpp

## 8.104 Gui::Widgets::Delegates::TextareaDelegate Class Reference

The TextareaDelegate class.

`#include <textareadelegate.h>`

Inheritance diagram for Gui::Widgets::Delegates::TextareaDelegate:




### Public Member Functions

- TextareaDelegate (QWidget ∗parent=0)

  *TextareaDelegate::TextareaDelegate.*
- void setModelData (QWidget ∗editor, QAbstractItemModel ∗model, const QModelIndex &index) const

  *TextareaDelegate::setModelData Sets the data model from content in editor.*
- void updateEditorGeometry (QWidget ∗editor, const QStyleOptionViewItem &option, const QModelIndex &) const

  *TextareaDelegate::updateEditorGeometry Update the editor for the item specified by index according to the style option given.*
- QWidget ∗ createEditor (QWidget ∗parent, const QStyleOptionViewItem &, const QModelIndex &) const

  *TextareaDelegate::createEditor Return a QTextEdit specified by index item defined by the parent widget and style option which are used to control how the editor widgets appears.*
- void setEditorData (QWidget ∗editor, const QModelIndex &index) const

  *TextareaDelegate::setEditorData Sets the data to be displayed and edited by the editor from the data model item specified by the model index*

### 8.104.1 Detailed Description

The TextareaDelegate class.

**Author**

Antoine de Roquemaurel

## 8.104.2 Constructor & Destructor Documentation

### 8.104.2.1 Gui::Widgets::Delegates::TextareaDelegate::TextareaDelegate ( QWidget * *parent* = 0 )

TextareaDelegate::TextareaDelegate.

**Parameters**

| | |
|---|---|
| *parent* | |

## 8.104.3 Member Function Documentation

### 8.104.3.1 QWidget * Gui::Widgets::Delegates::TextareaDelegate::createEditor ( QWidget * *parent*, const QStyleOptionViewItem & , const QModelIndex & ) const

TextareaDelegate::createEditor Return a QTextEdit specified by *index* item defined by the *parent* widget and style *option* which are used to control how the editor widgets appears.

**Parameters**

| | |
|---|---|
| *parent* | Widget parent |
| *option* | Option style |
| *index* | Index for editing |

**Returns**

TextareaDelegate

### 8.104.3.2 void Gui::Widgets::Delegates::TextareaDelegate::setEditorData ( QWidget * *editor*, const QModelIndex & *index* ) const

TextareaDelegate::setEditorData Sets the data to be displayed and edited by the *editor* from the data model item specified by the model *index*

**Parameters**

| | |
|---|---|
| *editor* | Data edited |
| *index* | Index of the model to edit |

### 8.104.3.3 void Gui::Widgets::Delegates::TextareaDelegate::setModelData ( QWidget * *editor*, QAbstractItemModel * *model*, const QModelIndex & *index* ) const

TextareaDelegate::setModelData Sets the data model from content in editor.

**Parameters**

| | |
|---|---|
| *editor* | Data edited |
| *index* | Index of the model to edit |

#### 8.104.3.4 void Gui::Widgets::Delegates::TextareaDelegate::updateEditorGeometry ( QWidget * *editor,* const QStyleOptionViewItem & *option,* const QModelIndex & ) const

TextareaDelegate::updateEditorGeometry Update the *editor* for the item specified by *index* according to the style *option* given.

**Parameters**

| | |
|---|---|
| *editor* | Editor widget to update |
| *option* | Style option |
| *index* | Item index |

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

- src/gui/widgets/delegates/textareadelegate.h
- src/gui/widgets/delegates/textareadelegate.cpp

## 8.105 Models::Unit Class Reference

The Unit class An unity for billing calculs.

`#include <unit.h>`

### Public Member Functions

- Unit (TypeUnit type)

  *Unit Construct an unit with init type.*
- Unit ()

  *Unit Construct an unit.*
- QString toString (const bool plurial=false)

  *toString Return String for unit type.*
- TypeUnit getype () const

  *getype The unit Type*
- void setType (const TypeUnit &type)

  *setType Change the unit Type*
- bool operator== (const Unit &u)

  *operator == define the operator "==" to compare two **Unit***
- bool operator!= (const Unit &u)

  *operator != define the operator "!=" to compare two **Unit***

### 8.105.1 Detailed Description

The Unit class An unity for billing calculs.

### 8.105.2 Constructor & Destructor Documentation

#### 8.105.2.1 Models::Unit::Unit ( TypeUnit *type* )

Unit Construct an unit with init type.

**Parameters**

| | |
|---|---|
| *type* | The unit Type; |

### 8.105.3 Member Function Documentation

#### 8.105.3.1 TypeUnit Models::Unit::getype ( ) const

getype The unit Type

**Returns**

The unit Type

#### 8.105.3.2 bool Models::Unit::operator!= ( const Unit & *u* )

operator != define the operator "!=" to compare two **Unit**

**Parameters**

| | |
|---|---|
| *c* | the **Unit** to compare with the current **Contributory** |

**Returns**

true if the **Unit** are different else false

#### 8.105.3.3 bool Models::Unit::operator== ( const Unit & *u* )

operator == define the operator "==" to compare two **Unit**

**Parameters**

| | |
|---|---|
| *c* | the **Unit** to compare with the current **Contributory** |

**Returns**

true if the **Unit** are equals else false

#### 8.105.3.4 void Models::Unit::setType ( const TypeUnit & *type* )

setType Change the unit Type

**Parameters**

| | |
|---|---|
| *type* | The new unit type. |

#### 8.105.3.5 QString Models::Unit::toString ( const bool *plurial* = `false` )

toString Return String for unit type.

**Returns**

The unit in String

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

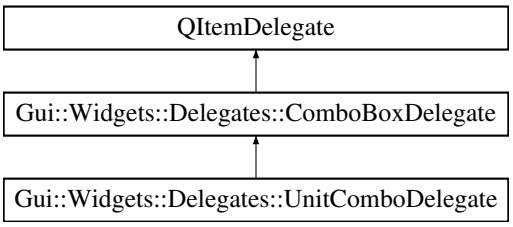
- src/models/unit.h
- src/models/unit.cpp

## 8.106 Gui::Widgets::Delegates::UnitComboDelegate Class Reference

The UnitComboDelegate class.

`#include <unitcombodelegate.h>`

Inheritance diagram for Gui::Widgets::Delegates::UnitComboDelegate:




## Public Member Functions

- UnitComboDelegate (QObject ∗parent=0)

  *UnitComboDelegate::UnitComboDelegate.*
- QWidget ∗ createEditor (QWidget ∗parent, const QStyleOptionViewItem &option, const QModelIndex &index) const

  *UnitComboDelegate::createEditor Return a ComboBox specified by index item defined by the parent widget and style option which are used to control how the editor widgets appears.*
- void paint (QPainter ∗painter, const QStyleOptionViewItem &option, const QModelIndex &index) const

  *UnitComboDelegate::paint Renders the delegate using the given painter and style option for the item specified by index*

### 8.106.1 Detailed Description

The UnitComboDelegate class.

### 8.106.2 Constructor & Destructor Documentation

#### 8.106.2.1 Gui::Widgets::Delegates::UnitComboDelegate::UnitComboDelegate ( QObject ∗ *parent* = 0 )

UnitComboDelegate::UnitComboDelegate.

**Parameters**

| | |
|---|---|
| *parent* | |

### 8.106.3 Member Function Documentation

#### 8.106.3.1 QWidget ∗ Gui::Widgets::Delegates::UnitComboDelegate::createEditor ( QWidget ∗ *parent,* const QStyleOptionViewItem & *option,* const QModelIndex & *index* ) const [virtual]

UnitComboDelegate::createEditor Return a ComboBox specified by *index* item defined by the *parent* widget and style *option* which are used to control how the editor widgets appears.

**Parameters**

| | |
|---|---|
| *parent* | Widget parent |
| *option* | Option style |
| *index* | Index for editing |

**Returns**

ComboBox

Implements Gui::Widgets::Delegates::ComboBoxDelegate.

#### 8.106.3.2 void Gui::Widgets::Delegates::UnitComboDelegate::paint ( QPainter * *painter*, const QStyleOptionViewItem & *option*, const QModelIndex & *index* ) const [virtual]

UnitComboDelegate::paint Renders the delegate using the given *painter* and style *option* for the item specified by *index*

**Parameters**

| | |
|---|---|
| *parent* | Widget parent |
| *option* | Option style |
| *index* | Index for editing |

Implements Gui::Widgets::Delegates::ComboBoxDelegate.

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

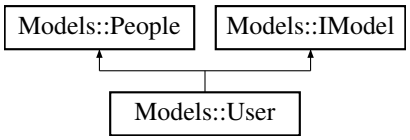
- src/gui/widgets/delegates/unitcombodelegate.h
- src/gui/widgets/delegates/unitcombodelegate.cpp

## 8.107 Models::User Class Reference

The User class **User** of it application.

`#include <user.h>`

Inheritance diagram for Models::User:




### Public Member Functions

- User ()

  *User::User. Contruct an User.*
- User (int id)

  *User::User. Construct a User with the identify id*
- void commit ()

  *User::commit Update user data in User table on the database.*
- void hydrat (int id=1)

  *User::hydrat Get data of the user who is specified by id from the database.*
- void remove ()

  *remove Remove the current User*
- QVariantHash getDataMap ()

  *getDataMap Get all data of model with a HashMap key/value*
- void updateFolders (void)

  *MainWindow::updateFolders Make directories which contain quotes and billings. Directories are the same than theirs of the Tree organisation (without Projects).*
- QString getTitle () const

  *User::getTitle Return a short description of User (company) activity.*
- void setTitle (const QString &title)

  *User::setTitle Modify the user/company activities description*
- QString getNoSiret () const