How to create To Do List in Qt

Overview

This article shows how to create QWidget-based **To do** List. The example uses Qt's QGroupBox, QTimeEdit, QDateEdit, and QTextEdit.

Prerequisite

- Install the Qt SDK

Header file

```
#ifndef MAINWINDOW_H
#define MAINWINDOW_H

#include <QMainWindow>

namespace Ui {
    class MainWindow;
}

class MainWindow : public QMainWindow {
    Q_OBJECT
public:
    MainWindow(QWidget *parent = 0);
    ~MainWindow();

protected:
    void changeEvent(QEvent *e);

private:
    Ui::MainWindow *ui;
};

#endif // MAINWINDOW_H
```

Source file

```
#include "mainwindow.h"
#include "ui_mainwindow.h"

MainWindow::MainWindow(QWidget *parent) :
    QMainWindow(parent),
    ui(new Ui::MainWindow)
{
    ui->setupUi(this);
}

MainWindow::~MainWindow()
{
    delete ui;
}

void MainWindow::changeEvent(QEvent *e)
{
    QMainWindow::changeEvent(e);
    switch (e->type()) {
    case QEvent::LanguageChange:
        ui->retranslateUi(this);
        break;
    default:
        break;
    }
}
```

ui_mainwindow.cpp

```
#ifndef UI_MAINWINDOW_H
#define UI_MAINWINDOW_H

#include <QtCore/QVariant>
#include <QtGui/QAction>
#include <QtGui/QApplication>
#include <QtGui/QButtonGroup>
#include <QtGui/QDateEdit>
#include <QtGui/QGroupBox>
#include <QtGui/QHeaderView>
#include <QtGui/QLabel>
#include <QtGui/QMainWindow>
#include <QtGui/QMenuBar>
#include <QtGui/QStatusBar>
#include <QtGui/QTextEdit>
#include <QtGui/QTimeEdit>
#include <QtGui/QToolBar>
#include <QtGui/QWidget>

QT_BEGIN_NAMESPACE

class Ui_MainWindow
```


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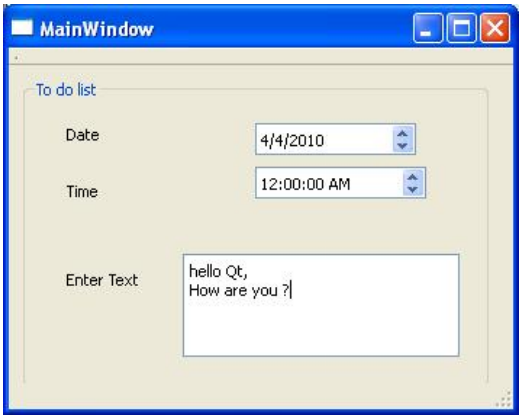
```
{
public:
    QWidget *centralWidget;
    QGroupBox *groupBox;
    QDateEdit *dateEdit;
    QTimeEdit *timeEdit;
    QLabel *label;
    QLabel *label_2;
    QTextEdit *textEdit;
    QLabel *label_3;
    QMenuBar *menuBar;
    QToolBar *mainToolBar;
    QStatusBar *statusBar;

    void setupUi(QMainWindow *MainWindow)
    {
        if (MainWindow->objectName().isEmpty())
            MainWindow->setObjectName(QString::fromUtf8("MainWindow"));
        MainWindow->resize(600, 400);
        centralWidget = new QWidget(MainWindow);
        centralWidget->setObjectName(QString::fromUtf8("centralWidget"));
        groupBox = new QGroupBox(centralWidget);
        groupBox->setObjectName(QString::fromUtf8("groupBox"));
        groupBox->setGeometry(QRect(10, 10, 321, 211));
        dateEdit = new QDateEdit(groupBox);
        dateEdit->setObjectName(QString::fromUtf8("dateEdit"));
        dateEdit->setGeometry(QRect(160, 30, 111, 22));
        timeEdit = new QTimeEdit(groupBox);
        timeEdit->setObjectName(QString::fromUtf8("timeEdit"));
        timeEdit->setGeometry(QRect(160, 60, 118, 22));
        label = new QLabel(groupBox);
        label->setObjectName(QString::fromUtf8("label"));
        label->setGeometry(QRect(30, 30, 61, 16));
        label_2 = new QLabel(groupBox);
        label_2->setObjectName(QString::fromUtf8("label_2"));
        label_2->setGeometry(QRect(30, 70, 46, 13));
        textEdit = new QTextEdit(groupBox);
        textEdit->setObjectName(QString::fromUtf8("textEdit"));
        textEdit->setGeometry(QRect(110, 120, 191, 71));
        label_3 = new QLabel(groupBox);
        label_3->setObjectName(QString::fromUtf8("label_3"));
        label_3->setGeometry(QRect(30, 130, 51, 16));
        MainWindow->setCentralWidget(centralWidget);
        menuBar = new QMenuBar(MainWindow);
        menuBar->setObjectName(QString::fromUtf8("menuBar"));
        menuBar->setGeometry(QRect(0, 0, 600, 20));
        MainWindow->setMenuBar(menuBar);
        mainToolBar = new QToolBar(MainWindow);
        mainToolBar->setObjectName(QString::fromUtf8("mainToolBar"));
        MainWindow->addToolBar(Qt::TopToolBarArea, mainToolBar);
        statusBar = new QStatusBar(MainWindow);
        statusBar->setObjectName(QString::fromUtf8("statusBar"));
        MainWindow->setStatusBar(statusBar);

        retranslateUi(MainWindow);

        QMetaObject::connectSlotsByName(MainWindow);
    } // setupUi

    void retranslateUi(QMainWindow *MainWindow)
    {
        MainWindow->setWindowTitle(QApplication::translate("MainWindow", "MainWindow", 0, QApplication::UnicodeUTF8));
        groupBox->setTitle(QApplication::translate("MainWindow", "To do list", 0, QApplication::UnicodeUTF8));
        label->setText(QApplication::translate("MainWindow", "Date", 0, QApplication::UnicodeUTF8));
        label_2->setText(QApplication::translate("MainWindow", "Time", 0, QApplication::UnicodeUTF8));
        label_3->setText(QApplication::translate("MainWindow", "Enter Text", 0, QApplication::UnicodeUTF8));
    } // retranslateUi

};

namespace Ui {
    class MainWindow: public Ui_MainWindow {};
} // namespace Ui

QT_END_NAMESPACE

#endif // UI_MAINWINDOW_H
```

output window

This code snippet will reflect the output given below.



Source code

The source code of this file is given at this link.File:Dolist.zip

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--rahulvala 06:20, 6 April 2010 (UTC)

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