How to use QDir and QFileDialog in Qt

Overview

This code snippets shows how to get a list of files from a given directory and how to use QFileDialog to select directories. The method QDir::entryList() returns a list of the names of all the files and directories in the directory. QFileDialog::getExistingDirectory() will return an existing directory selected by the user, this dialog can allow you to select directory of your choice.

This snippet can be self-signed as it does not use any API which require developer/certified signing.

Headers required

```
#include <QDir>
#include <QFileDialog>
```

Source

```
#include <QtGui/QApplication>
#include "mainwindow.h"

int main(int argc, char *argv[])
{
    QApplication a(argc, argv);
    MainWindow w;
    w.show();
    return a.exec();
}
```

```
#ifndef MAINWINDOW_H
#define MAINWINDOW_H

#include <QtGui/QMainWindow>
#include <QDir>

namespace Ui
{
    class MainWindow;
}

class MainWindow : public QMainWindow
{
    Q_OBJECT

public:
    MainWindow(QWidget *parent = 0);
    ~MainWindow();

private slots:
    void changeDirectory();
    void fillList();

private:
```


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```
    Ui::MainWindow *ui;
    QDir directory;
};

#endif // MAINWINDOW_H
```

```
#include <QFileDialog>
#include "mainwindow.h"
#include "ui_mainwindow.h"
```

```
MainWindow::MainWindow(QWidget *parent)
    : QMainWindow(parent), ui(new Ui::MainWindow), directory("/")
{
    ui->setupUi(this);

    connect(ui->actionChange_directory, SIGNAL(triggered()), this,
SLOT(changeDirectory()));

    fillList();
}
```

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

```
void MainWindow::changeDirectory()
{
/* select a directory using file dialog */
    QString path = QFileDialog::getExistingDirectory (this, tr("Directory"),
directory.path());
    if ( path.isNull() == false )
    {
        directory.setPath(path);
        fillList();
    }
}
```

```
/*get list of file from given directory and the append it to listWidget */
void MainWindow::fillList()
{
    ui->listWidget->clear();
    ui->listWidget->addItems(directory.entryList());
}
```

Postconditions

The code snippet is expected to show get a list of files in a given directory.

Select/change Directory using QFileDialog

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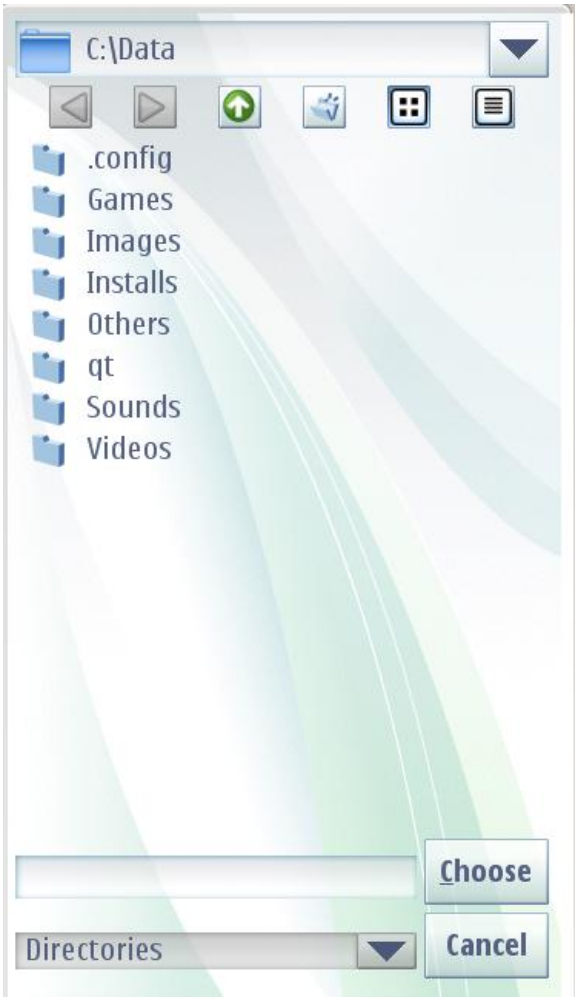

Get list of files using QDir

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External Links

- QDir: QDir reference
- QFileDialog: QFileDialog reference

Code Example

- The Code Example will show how to get list of files from given directory and is tested on Nokia 5800 XpressMusic.

Related Links

- Archived:Save and Open Files with QFileDialogBox

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