Closing a Qt Quick application from QML

Overview

This snippet shows how to trigger the closing of a Qt Quick application from QML code. This is needed especially in full screen applications, because there may not be any dedicated hardware key to close the application.

The following QML code calls the global `Qt.quit()` function which will trigger the ending of the application. In this example, we have used `QDeclarativeView` to show the Qt Quick UI and thus we must connect the `QDeclarativeEngine::quit()` signal to the `QApplication::quit()` slot.

NOTE: Had we used `qmlviewer` to interpret the QML, the `Qt.quit()` signal would have been automatically handled.

Preconditions

- Qt 4.7 or higher is installed on your platform.

Qt Project File

```
#To make sure we use declarative
QT += declarative

#To get files deployed on device / emulator
files.sources += ui.qml
DEPLOYMENT += files
```

Source

main.cpp

```
#include <QApplication>
#include <QDeclarativeView>
#include <QDeclarativeEngine>

int main(int argc, char *argv[])
{
    QApplication app(argc, argv);

    QDeclarativeView view;
    view.setSource(QUrl("./ui.qml"));
    view.setResizeMode(QDeclarativeView::SizeRootObjectToView);

    QObject::connect((QObject*)view.engine(), SIGNAL(quit()), &app, SLOT(quit()));

#if defined(Q_WS_S60) || defined(Q_WS_MAEMO)
    view.showMaximized();
#else
    view.setGeometry(100,100, 800, 480);
    view.show();
#endif

    return app.exec();
}
```

ui.qml

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```
import Qt 4.7

Rectangle {
    anchors.fill: parent; color: "black"

    Rectangle {
        anchors.centerIn: parent
        width: 100; height: 40; radius: 5; color: "lightgray"

        Text { anchors.centerIn: parent; text: "Quit"; color: "black" }

        MouseArea {
            anchors.fill: parent
            onClicked: Qt.quit()
        }
    }
}
```

Postconditions

The calling of the `Qt.quit()` function in QML code caused the emission of the `QDeclarativeEngine::quit()` signal, and because this signal was connected to the `QApplication::quit()` slot, the application was closed.

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