Archived:Context menus in Qt

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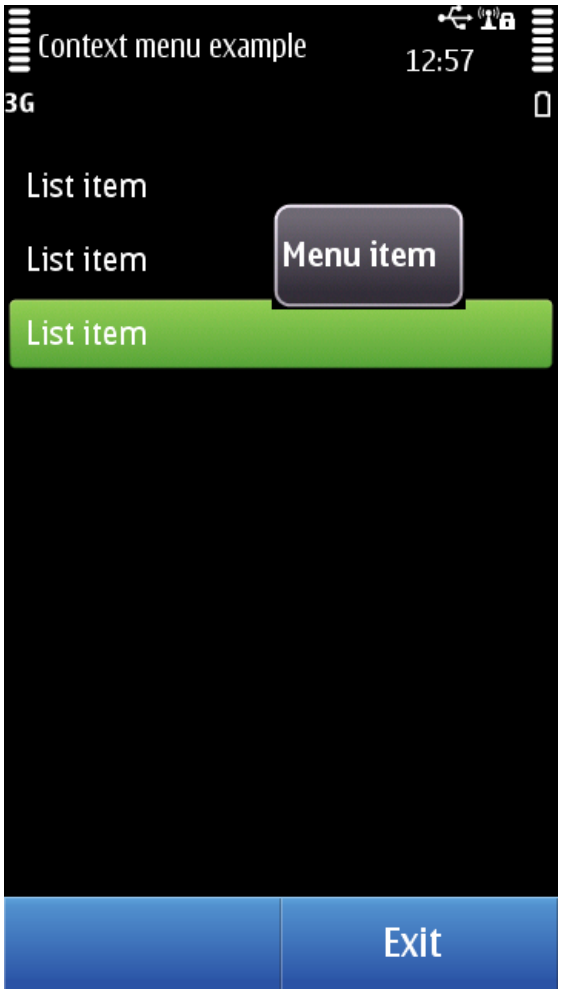
Qt Quick should be used for all UI development on mobile devices. The approach described in this article (based on QWidget) is deprecated.

This article shows how to define context menu for the QWidget using a QListWidget.



Defining context menus

```
#include <QtGui>
class MainWindow : public QMainWindow
{
    Q_OBJECT

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

private:
    void createContextMenu();

private slots:
    void showContextMenu(const QPoint&);
```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```
private:
    QMenu* m_contextMenu;
    QListWidget* m_list;
};
```

```
MainWindow::MainWindow(QWidget *parent)
    : QMainWindow(parent)
{
    m_list = new QListWidget(this);
    new QListWidgetItem("List item",m_list);
    new QListWidgetItem("List item",m_list);
    new QListWidgetItem("List item",m_list);
    this->setCentralWidget(m_list);

    #ifdef Q_OS_SYMBIAN
    // Remove context menu from all widgets
    QWidgetList widgets = QApplication::allWidgets();
    QWidget* w = 0;
    foreach(w,widgets){
        w->setContextMenuPolicy(Qt::NoContextMenu);
    }
    #endif

    #if defined Q_OS_SYMBIAN || defined Q_WS_MAEMO_5
    createContextMenu();
    #endif
}

MainWindow::~MainWindow()
{
}

void MainWindow::createContextMenu()
{
    // Define context menu for the QListWidget
    m_list->setContextMenuPolicy(Qt::CustomContextMenu);

    // Connect to customContextMenuRequested signal
    QObject::connect(m_list, SIGNAL(customContextMenuRequested(const QPoint&)),
    this, SLOT(showContextMenu(const QPoint&)));

    // Context menu for QListWidget
    m_contextMenu = new QMenu(this);

    // Create one action item
    QAction* menuItem = new QAction("Menu item",0);
    //QObject::connect(menuItem, SIGNAL(triggered()), this, SLOT(someSlot()));
    m_contextMenu->addAction(menuItem);
}

void MainWindow::showContextMenu(const QPoint& pos)
{
    // If statement is workaround for QTBUG-6256
    if (pos != QPoint(0,0)) {
```


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```
        // Execute context menu
        m_contextMenu->exec(pos);
    }
}
```

QTBUG-6256

If a widget receives `setContextMenuPolicy(Qt::CustomContextMenu)` It gets an entry in the softkeys Options menu called "Actions", which when triggered emits `QWidget::customContextMenuRequested()`. However, the flag `Qt::CustomContextMenu` is not spec'd to cause that, `Qt::ActionsContextMenu` is. See more from QTBUG-6256

Postconditions

Holding stylus on `QListWidget` opens defined context menu.

See also

- QWidget::contextMenuPolicy()
- Qt::CustomContextMenu
- QTBUG-6256

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