Archived:How to add submenu 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.

Overview

This code snippet shows how to create sub-menu in Qt. For more information see Qt Menus

We need to call QMenu::`addMenu()` method to add submenu in existing menu item.

Headers files

```
#ifndef SUBMENU_H
#define SUBMENU_H

#include <QtGui/QMainWindow>
#include "ui_SubMenu.h"

class SubMenu : public QMainWindow
{
    Q_OBJECT

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

private slots:
    void wikiForumNokia();
    void DiBoForumNokia();
    void nokiaIndia();
    void nokiaEurope();
    void help();
    void about();


private:
    void createMyMenus();

private:
    Ui::SubMenuClass ui;

    QMenu *nokiaMenu;
    QMenu *forumNokiaMenu;

    QAction *menu_nokiaIndiaAction;
    QAction *menu_nokiaEuropeAction;
    QAction *menu_wikiAction;
    QAction *menu_DiBoAction;
    QAction *menu_aboutAction;
    QAction *menu_helpAction;
    QAction *menu_exitAction;
};

#endif // SUBMENU_H
```

Source

```
#include "SubMenu.h"
#include <QMenu>
#include <QMessageBox>
#include <QDesktopServices>
#include <QUrl>

SubMenu::SubMenu(QWidget *parent)
    : QMainWindow(parent)
{
 ui.setupUi(this);
 setWindowTitle(tr("Sub Menus"));
 //Create memu and sub menu.
 createMyMenus();
}

void SubMenu::createMyMenus()
{

 //add action for help menu.
 menu_helpAction = new QAction(tr("Help"), this);
 menuBar()->addAction(menu_helpAction);
 connect(menu_helpAction, SIGNAL(triggered()), this, SLOT(help()));

 //add action for about menu.
 menu_aboutAction = new QAction(tr("About"), this);
 menuBar()->addAction(menu_aboutAction);
 connect(menu_aboutAction, SIGNAL(triggered()), this, SLOT(about()));

 /* for nokia menu and its sub menus. */
 //create action Nokia India sub menu item.
 menu_nokiaIndiaAction = new QAction(tr("Nokia India"), this);
        connect(menu_nokiaIndiaAction, SIGNAL(triggered()), this, SLOT(nokiaIndia()));

        //create action Nokia Europe sum menu item
```


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```
        menu_nokiaEuropeAction = new QAction(tr("Nokia Europe"), this);
 connect(menu_nokiaEuropeAction, SIGNAL(triggered()), this, SLOT(nokiaIndia()));

 //add menu item nokia to main menu
 nokiaMenu = menuBar()->addMenu(tr("Nokia"));
 //add action for nokia india sub-menu
 nokiaMenu->addAction(menu_nokiaIndiaAction);
 //add action for nokia india sub-menu
 nokiaMenu->addAction(menu_nokiaEuropeAction);

 //create action for Discussion Boards sub menu item
 menu_DiBoAction = new QAction(tr("Discussion Boards"), this);
        connect(menu_DiBoAction, SIGNAL(triggered()), this, SLOT(DiBoForumNokia()));

       //create action for Wiki sub menu item
        menu_wikiAction = new QAction(tr("Wiki"), this);
 connect(menu_wikiAction, SIGNAL(triggered()), this, SLOT(wikiForumNokia()));

 //add menu item Nokia Developer to menu item nokia
 forumNokiaMenu = nokiaMenu->addMenu(tr("Nokia Developer"));
 //add action for Discussion Boards sub-menu
 forumNokiaMenu->addAction(menu_DiBoAction);
 //add action for Wiki sub-menu
 forumNokiaMenu->addAction(menu_wikiAction);

 //Add action for exit menu.
 menu_exitAction = new QAction(tr("Exit"), this);
 menuBar()->addAction(menu_exitAction);
 connect(menu_exitAction, SIGNAL(triggered()), this, SLOT(close()));


}

/* handle action for wiki sub-menu item. */
void SubMenu::wikiForumNokia()
{
 QDesktopServices::openUrl(QUrl(tr("http://www.developer.nokia.comhttp://www.developer.nokia.com/Community/Wiki/Wiki_Home")));
}

/* handle action for Discussion Boards sub-menu item. */
void SubMenu::DiBoForumNokia()
{
 QDesktopServices::openUrl(QUrl(tr("http://www.developer.nokia.com/Community/Discussion/")));
}

/* handle action for nokia india sub-menu item. */
void SubMenu::nokiaIndia()
{
 QDesktopServices::openUrl(QUrl(tr("http://www.nokia.co.in/")));
}

/* handle action for nokia europe sub-menu item. */
void SubMenu::nokiaEurope()
{
 QDesktopServices::openUrl(QUrl(tr("http://europe.nokia.com/home")));
}

/* handle action for help menu item. */
void SubMenu::help()
{
 QMessageBox::information(this, tr("Help Menu"),tr("This example shows how to create submenu."));
}

/* handle action for about menu item. */
void SubMenu::about()
{
 QMessageBox::about(this, tr("About Menu"),tr("Testing Sub-Menus."));
}


SubMenu::~SubMenu()
{

}
```

Postconditions

The code snippet is expected to show sum-menus in application.

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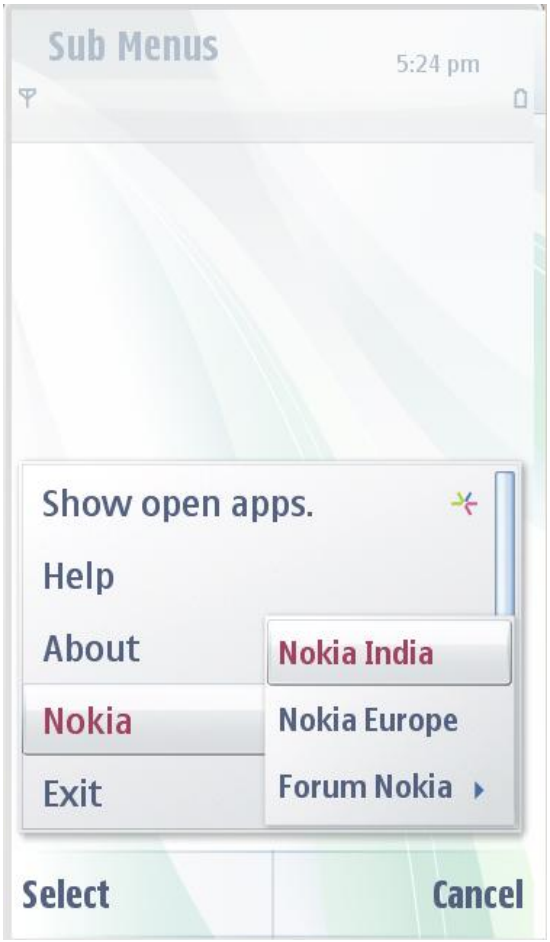

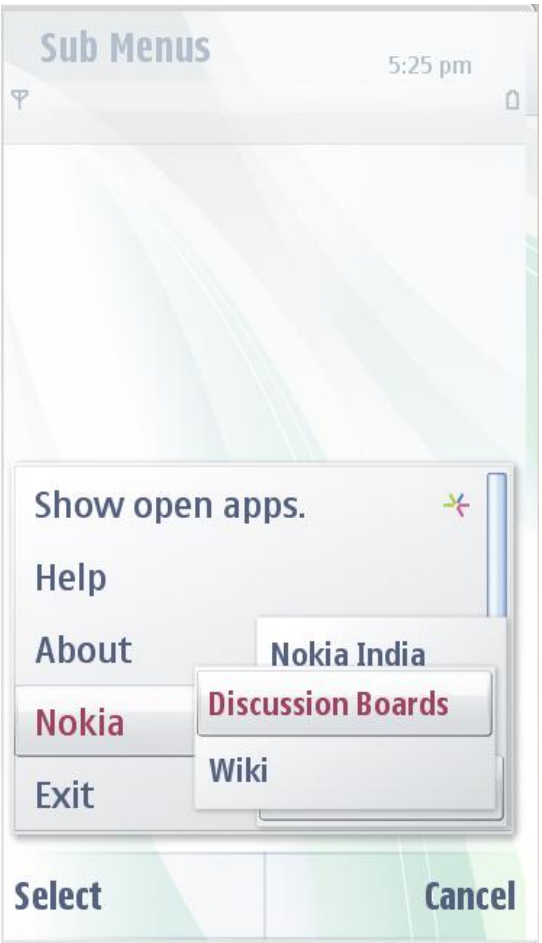

See also

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- Qt Menus
- Archived:How to create a menu in Qt
- Archived:Qt Dynamic Menus

Code Example

- File:QtSubMenu.zip will show sub-menu in application and is tested on Nokia 5800 XpressMusic.

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