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<b>Platform</b>	S60 3rd Edition, FP1, FP2 S60 5th Edition	<b>Tested on devices</b>	Nokia 5800 XpressMusic
<b>Category</b>	Qt for S60	<b>Subcategory</b>	UI

**Keywords (APIs, classes, methods, functions):** QMenu

## Overview

This code snippets shows how to create sub-menu in Qt. we need to call addMenu() method to add submenu in existing menu item.

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

## Preconditions

- Download and Install latest version [Qt for Symbian - Installation packages](#) which has links on how to install the latest version

## 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();
};
```

## How\_to\_add\_submenu\_in\_Qt\_for\_Symbian

```
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)
{
    setupUi(this);
    setWindowTitle("Sub Menus");
    //Create menu and sub menu.
    createMyMenus()
}

void SubMenu::createMyMenus()
{
    //add action for help menu.
    menu_helpAction = new QAction(tr("Help"), this);
    connect(menu_helpAction, SIGNAL(triggered()), this, SLOT(help()));

    //add action for about menu.
    menu_aboutAction = new QAction(tr("About"), this);
    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 sub menu item
    menu_nokiaEuropeAction = new QAction(tr("Nokia Europe"), this);
    connect(menu_nokiaEuropeAction, SIGNAL(triggered()), this, SLOT(nokiaIndia()));
}
```

## How\_to\_add\_submenu\_in\_Qt\_for\_Symbian

```
//add menu item nokia to main menu
nokiaMenuBar()->addMenu(tr("Nokia"));
//add action for nokia india sub-menu
nokiaIndiaAction = new QAction(menu_nokiaIndiaAction);
//add action for nokia india sub-menu
nokiaEuropeAction = new QAction(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 forum nokia to menu item nokia
forumNokiaAction = new QAction(tr("Forum Nokia"));
//add action for Discussion Boards sub-menu
forumNokiaAction->addAction(menu_DiBoAction);
//add action for Wiki sub-menu
forumNokiaAction->addAction(menu_wikiAction);

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

}

/* handle action for wiki sub-menu item. */
void SubMenu::wikiForumNokia()
{
    QDesktopServices::openUrl(QUrl(tr("http://wiki.forum.nokia.com/index.php/Wiki_Home")));
}

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

/* 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. */
```

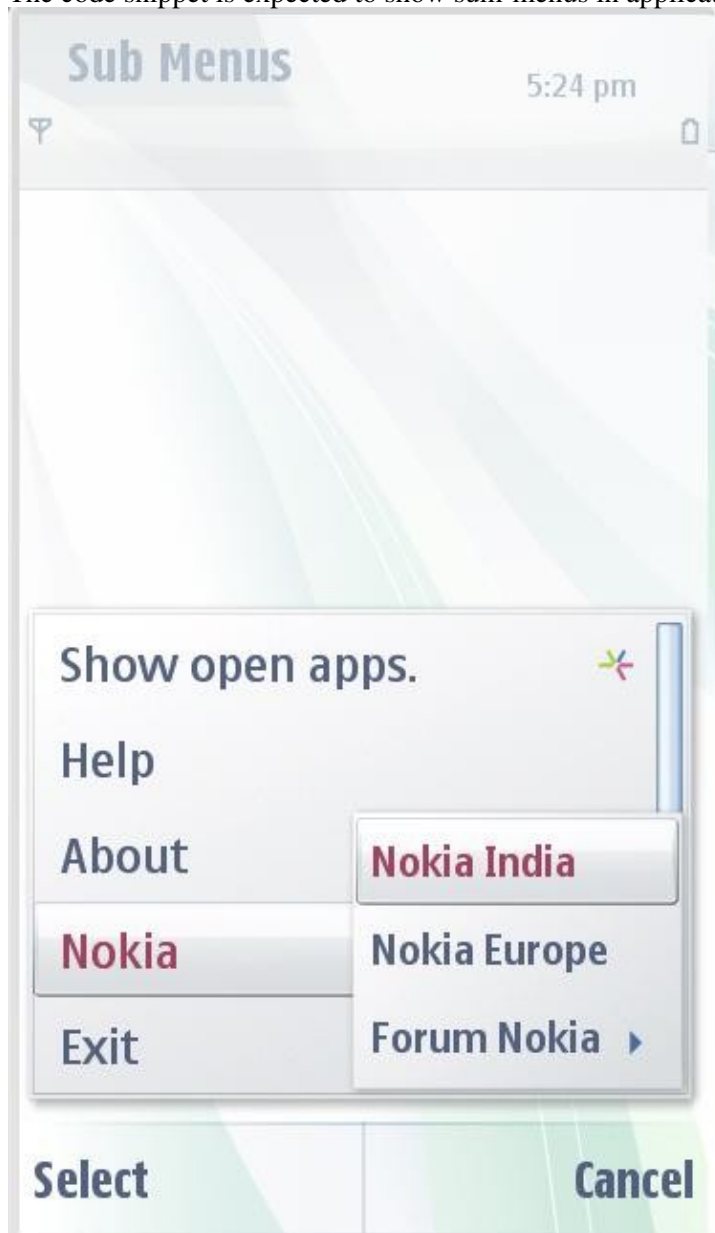
## How\_to\_add\_submenu\_in\_Qt\_for\_Symbian

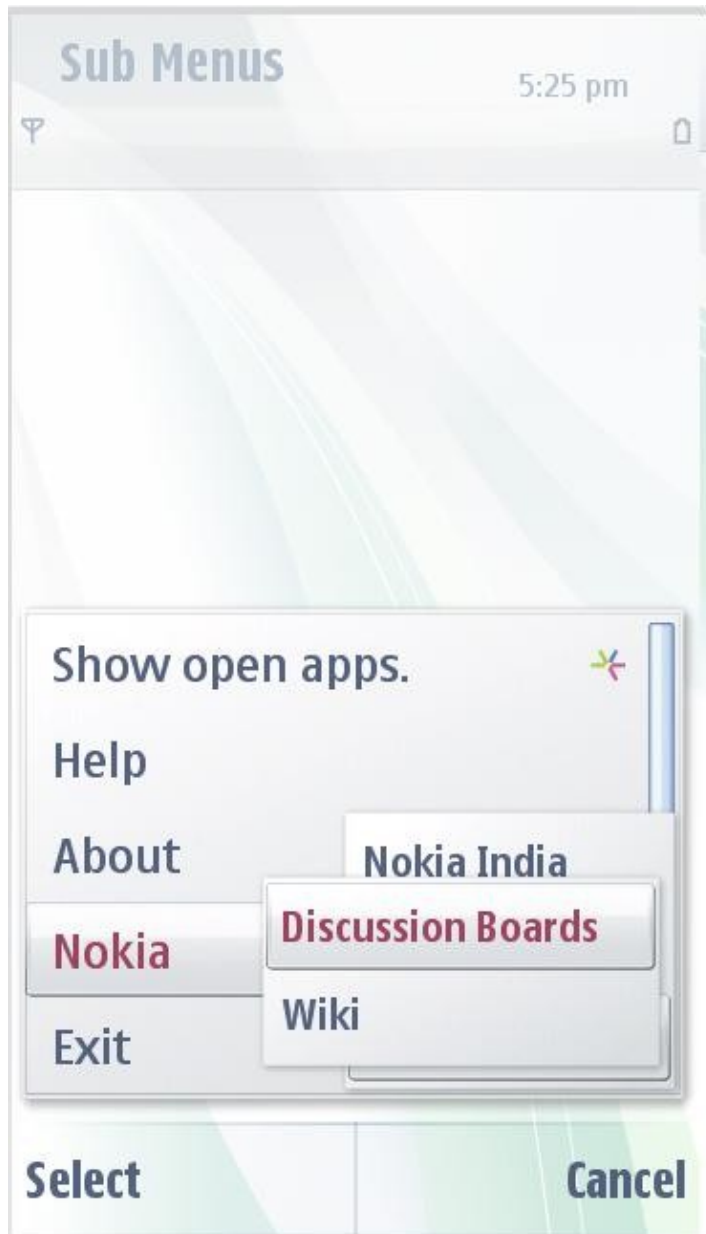
```
void SubMenu::about ()
{
    QMessageBb<this, tr("About Menu"),tr("Testing Sub-Menus.")>;
}

SubMenu::~SubMenu ()
{
}
```

## Postconditions

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





## External Links

- QMenu: [QMenu reference](#)

## Internal Links

- [How to create Menu in Qt for S60?](#)
- [Dynamic Menu?s with QT](#)

## Code Example

- The Code Example will show sub-menu in application and is tested on Nokia 5800 XpressMusic.