Archived:How to use a list widget with a scroll area 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

In this article we will learn how can we implement scroll bar in List Widget This code snippet and attached example shows the implementation of list widget with a scroll area. Using this we can scroll the list view **horizontally** as well as **vertically**.

A scroll area is used to display the contents of a child widget within a frame. If the widget exceeds the size of the frame, the view can provide scroll bars so that the entire area of the child widget can be viewed.

In this example following key classes are used:

- QScrollArea - Provides the scroll bars to the view
- QListWidget - The List box widget

Source Code for list widget in QScrollArea

```
#include "widget.h"


Widget::Widget(QWidget *parent)
    : QWidget(parent)
{
    list=new QListWidget();
    lay=new QHBoxLayout();
   QSizeGrip *gr=new QSizeGrip(list);//to resize the widget
    scroll=new QScrollArea();

    scroll->setWidget(list);
    scroll->setAlignment(Qt::AlignLeft);
   // scroll->setWidgetResizable(true);
    scroll->setBackgroundRole(QPalette::Dark);// set background of scroll Area
    //win=new QWidget();
   item1=new QListWidgetItem("BlueHills",list);//adding items to list
   item2=new QListWidgetItem("Sunset",list);
   item3=new QListWidgetItem("Water lilies",list);
   item4=new QListWidgetItem("Himaliya is a good place",list);
   item5=new QListWidgetItem("Ooty",list);
   item6=new QListWidgetItem("Hero Honda",list);
   item7=new QListWidgetItem("www.google.com",list);
   item8=new QListWidgetItem("orkut.com",list);
   item9=new QListWidgetItem("sunrise",list);
   item10=new QListWidgetItem("OVI",list);
   item11=new QListWidgetItem("Nokia N97",list);
   item12=new QListWidgetItem("forum.nokia.com",list);
   item13=new QListWidgetItem("wellcome to Qt",list);
   item14=new QListWidgetItem("Qt rocks for s60",list);
   item15=new QListWidgetItem("Symbian c++",list);
   item16=new QListWidgetItem("5800 Xpress Music",list);
   item17=new QListWidgetItem("My best Phone",list);
   item18=new QListWidgetItem("I like N97",list);
   item19=new QListWidgetItem("Go for 5800",list);
   item20=new QListWidgetItem("America",list);
 // lay->addWidget(list);
   lay->addWidget(scroll);

   setLayout(lay);//setting layout
   showMaximized();
}

Widget::~Widget()
{
}
```

Screenshot (using Symbian emulator)

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Source for Image in QScrollArea

```
#include "widget.h"


Widget::Widget(QWidget *parent)
    : QWidget(parent)
{
 QLabel *imageLabel = new QLabel(this);
 QImage image("E:\\flower.png",this);
 lay=new QHBoxLayout(this);
 imageLabel->setPixmap(QPixmap::fromImage(image));

 scrollArea = new QScrollArea(this);
 scrollArea->setWidgetResizable(1);
 scrollArea->setBackgroundRole(QPalette::Dark);
 scrollArea->setWidget(imageLabel);
 lay->addWidget(scrollArea);
 setLayout(lay);
}

Widget::~Widget()
{
}
```

Screenshot

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To do

- Zooming image with hekp of scrollArea

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