Drag and drop in Qt

Overview

This example shows how to drag and drop items between two QListWidget.

Qt's drag and drop infrastructure is fully supported by the model/view framework. Items in lists, tables, and trees can be dragged within the views, and data can be imported and exported as MIME-encoded data.

Preconditions

- Download and Install the Qt SDK

Function/Property

- This property holds the drag and drop event the view will act upon.

```
list->setDragDropMode(QAbstractItemView::InternalMove);
```

here in the above function we can move the item or we can manually sor the item in one list..

- This property holds the view's drag and drop behavior.

If its value is true, the selected data will overwrite the existing item data when dropped, while moving the data will clear the item.

If its value is false, the selected data will be inserted as a new item when the data is dropped. When the data is moved, the item is removed as well.

```
list->setDragDropOverwriteMode ( 1 );
```

Source File

header.h

```
#include <QtGui/QWidget>
#include<QListWidget>
#include<QHBoxLayout>

class drag : public QWidget
{
    Q_OBJECT

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

private:
    QListWidget *list;
    QListWidget *list1;
    QHBoxLayout *lay;
};

#endif // DRAG_H
```

Source file

```
#include "drag.h"
#include<QAbstractItemView>
drag::drag(QWidget *parent)
    : QWidget(parent)
{
    list=new QListWidget(this);
    list->resize(0,0);
    list1=new QListWidget(this);
    lay=new QHBoxLayout(this);
    list->addItem("Nokia");               //Adding item to list
    list->addItem("Samsung");
    list->addItem("Motorola");
    list1->addItem("Nokia 6630");
    list1->addItem("5800 Xpress Music");
    list1->addItem("N96");

    list->setSelectionMode(QAbstractItemView::SingleSelection); // single item can be draged or droped
    list->setDragEnabled(true);
    list->setDragDropMode(QAbstractItemView::InternalMove);
    list->viewport()->setAcceptDrops(true);
```


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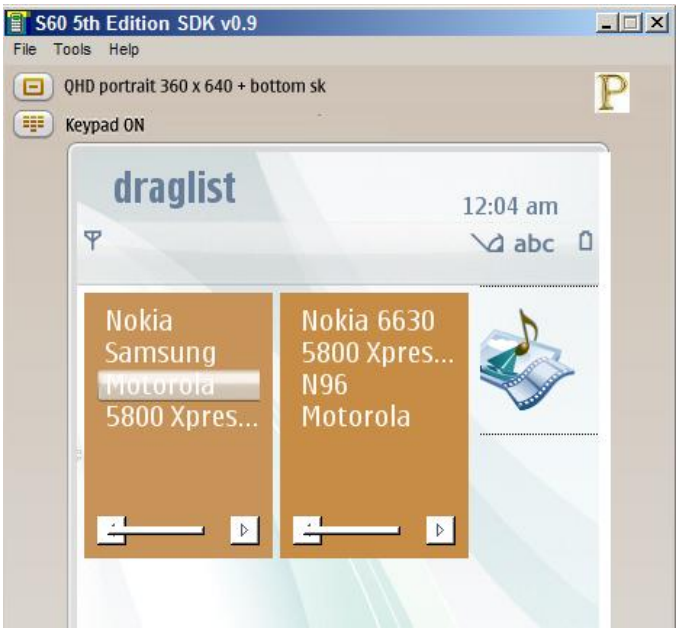
```
    list->setDropIndicatorShown(true);

    list1->setSelectionMode(QAbstractItemView::SingleSelection);
    list1->setDragEnabled(true);
    list1->viewport()->setAcceptDrops(true);

    list1->setDropIndicatorShown(true);

    lay->addWidget(list);
    lay->addWidget(list1);
    setLayout(lay);
    list->setStyleSheet("* { background-color:rgb(150,147,88);color:rgb(255,255,255); padding: 7px}}");
    list1->setStyleSheet("* { background-color:rgb(150,140,70);color:rgb(255,255,255); padding: 7px}}");
    resize(200,200);
}

drag::~drag()
{

// No need to delete any object that got a parent that is properly deleted.

}
```

ScreenShot



Draging

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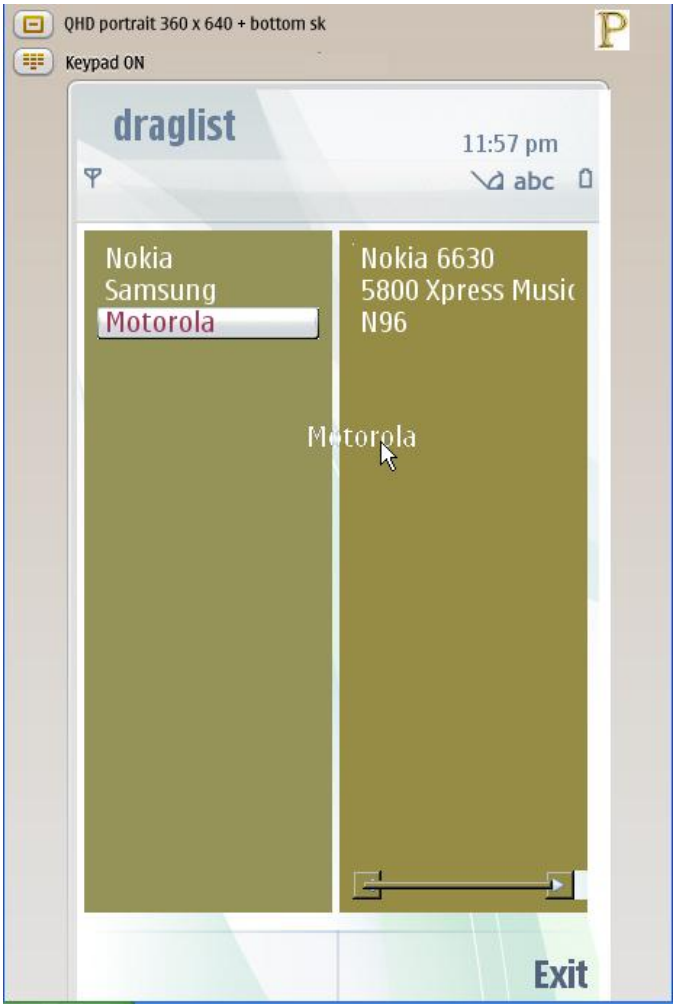

Internal Moves

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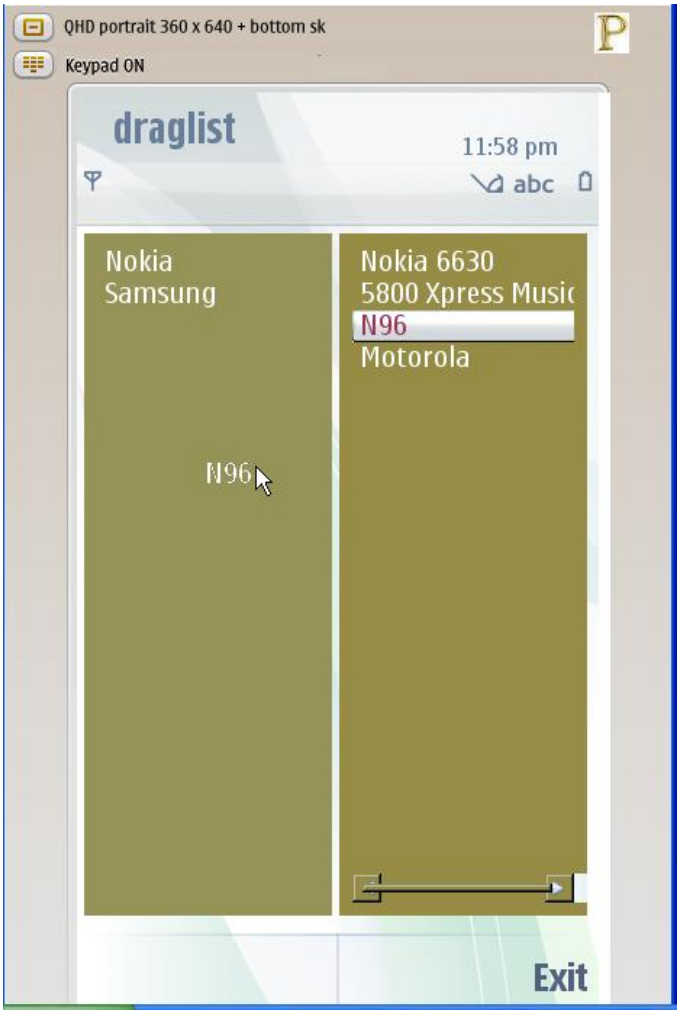

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