Clipboard operations using Qt

The Qt clipboard offers a simple mechanism to copy and paste data between different applications or between the same widget in am application. QClipboard supports the same data types as QDrag, and uses similar mechanisms.

Source code

Note: This code is used only to copy the text content, code for MIME data is shown later in this section.

Header File

```
#ifndef BOARD_H
#define BOARD_H

#include <QtGui/QWidget>
#include<QClipboard>
#include<QString>
#include<QLineEdit>
#include<QPushButton>
#include<QVBoxLayout>
#include<QApplication>
#include<QMessageBox>
class board : public QWidget
{
    Q_OBJECT

public:
    board(QWidget *parent = 0);
    ~board();
private slots:
    void copy();
    void paste();
private:
    QLineEdit *edit;
    QPushButton *but;
    QPushButton *but1;
    QLineEdit *edit1;
    QVBoxLayout *lay;
    QClipboard *cb;
    QString str;
    QString str1;
    QMessageBox *box;


};

#endif // BOARD_H
```

Source File

```
#include "board.h"

board::board(QWidget *parent)
    : QWidget(parent)
{

    edit=new QLineEdit();

     box=new QMessageBox(this);
     but=new QPushButton(tr("Copy"),this);
    but1=new QPushButton(tr("Paste"),this);
    edit1=new QLineEdit(this);

    lay=new QVBoxLayout(this);
    cb=QApplication::clipboard();
    setStyleSheet("* { background-color:rgb(0,0,0);color:rgb(255,255,255); padding: 7px}}");
    QObject::connect(but,SIGNAL(clicked()),this,SLOT(copy()));
    QObject::connect(but1,SIGNAL(clicked()),this,SLOT(paste()));
    lay->addWidget(edit);
    lay->addWidget(but);
    lay->addWidget(but1);
    lay->addWidget(edit1);


    setLayout(lay);
    showMaximized();

}

board::~board()
{
 // No need to delete any object that got a parent that is properly deleted.
}
void board::copy()
{

    str=edit->text();
    cb->setText(str);//Text copied to clipboard
    box->setText("Text copied to clipboard");
    box->exec();


}
void board::paste()
{
    str1=cb->text();//text reterived from clipboard
    edit1->setText(str1);
```


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```
}
```

Advance clipboard(MIME data manipulation)

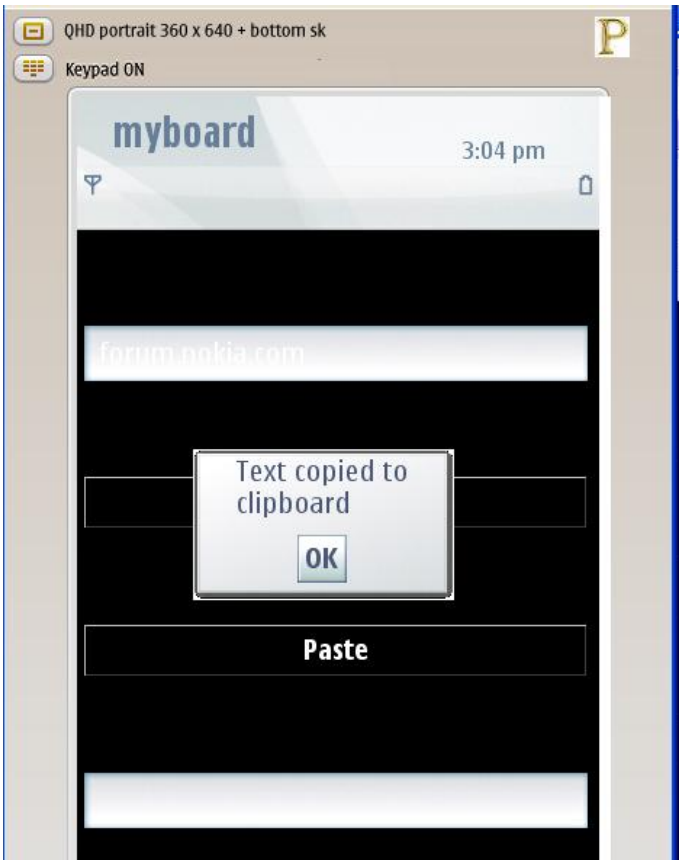
- Copying of MIME data

```
void board::copy()
{
    QApplication::clipboard()->setData(dragObject());
}
```

- Pasting of MIME data

```
void MyTable::paste()
{
    QMimeSource *source = QApplication::clipboard()->data();
    if (CellDrag::canDecode(source)) {
    QString str;
    CellDrag::decode(source, str);
    performPaste(str);
    }
}
```

Screenshots



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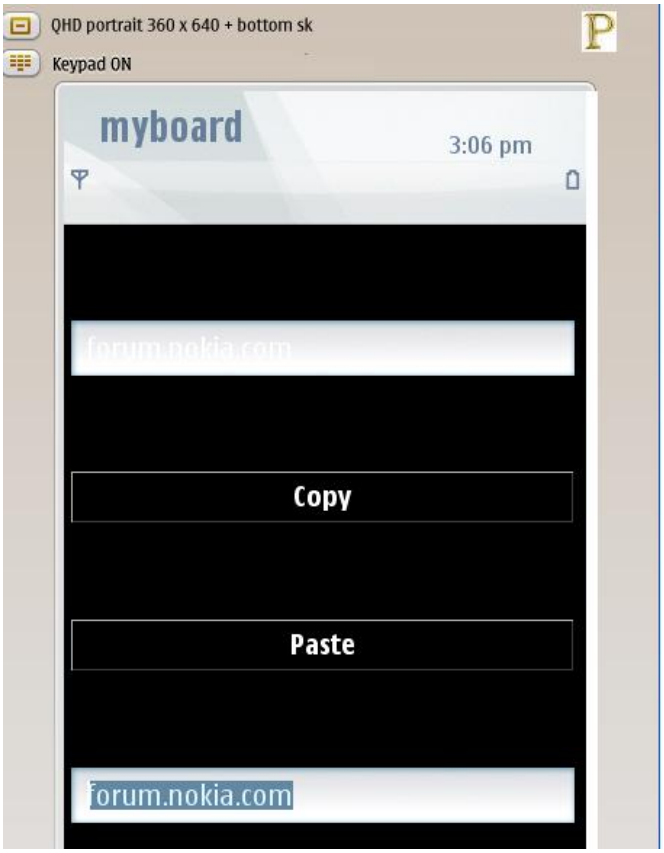

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