如何用Qt完成录像功能

介绍

本文介绍如何使用Qt mobility 的 QCamera 和 QMediaRecorder 完成录像功能

代码实现

.h file

```
#ifndef DIALOG_H
#define DIALOG_H

#include <QDialog>
#include <QCamera>
#include <QCameraViewfinder>
#include <QMediaRecorder>
#include <QPushButton>
#include <QLabel>

namespace Ui {
class Dialog;
}

class Dialog : public QDialog
{
    Q_OBJECT

public:
    explicit Dialog(QWidget *parent = 0);
    ~Dialog();

public slots:

   void recordVideo();
   void changeDuration(qint64 seconds);
   void pause();
   void stop();


private:
    Ui::Dialog *ui;

    QCamera* camera;
    QCameraViewfinder* viewfinder;
    QMediaRecorder* mediaRecorder;


    QPushButton* recordButton ;
    QPushButton* pauseButton ;
    QPushButton* stopButton;
    QPushButton* exitButton;
    QLabel* timeDisplay;
};

#endif // DIALOG_H
```

.cpp file

```
#include "dialog.h"
#include "ui_dialog.h"
#include <QHBoxLayout>
#include <QVBoxLayout>
#include <QPushButton>


Dialog::Dialog(QWidget *parent) :
    QDialog(parent),
    ui(new Ui::Dialog)
{
   // ui->setupUi(this);

    QByteArray cameraDevice = QCamera::availableDevices()[0];
    camera = new QCamera(cameraDevice);

    QHBoxLayout* layout = new QHBoxLayout;
    viewfinder = new QCameraViewfinder(this);

    QVBoxLayout* vLayout = new QVBoxLayout ;
    recordButton = new QPushButton("record", this);
    pauseButton = new QPushButton("pause", this);
    stopButton = new QPushButton("stop", this);
    exitButton = new QPushButton("exit", this);
    timeDisplay = new QLabel(this);
    vLayout->addWidget(recordButton);
    vLayout->addWidget(pauseButton);
    vLayout->addWidget(stopButton);
    vLayout->addWidget(timeDisplay);
    vLayout->addWidget(exitButton);

    connect(recordButton, SIGNAL(clicked()), this, SLOT(recordVideo()));
    connect(pauseButton,SIGNAL(clicked()),this, SLOT(pause()));
    connect(stopButton,SIGNAL(clicked()), this,SLOT(stop()));
    connect(exitButton,SIGNAL(clicked()), this, SLOT(close()));

    layout->addWidget(viewfinder);
    layout->addLayout(vLayout);
```


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```
     camera->setViewfinder(viewfinder);
     camera->setCaptureMode(QCamera::CaptureVideo);
     camera->start();

     mediaRecorder = new QMediaRecorder(camera);
     connect(mediaRecorder, SIGNAL(durationChanged(qint64)), this, SLOT(changeDuration(qint64)));

     setLayout(layout);
}

Dialog::~Dialog()
{
    delete mediaRecorder;
    delete camera;

}

void Dialog:: recordVideo()
{
    qDebug() << "record video";
    mediaRecorder->record();
    //QString str = QString("Recorded %1 sec").arg(mediaRecorder->duration());
    //timeLabel->setText(str);

}

void Dialog:: changeDuration(qint64 seconds)
{
    qDebug() << seconds;
    //QString str = QString("Recorded %1 sec").arg(seconds);
    timeDisplay->setNum(int(seconds));
}

void Dialog::pause()

{
    qDebug() << "pause";
    mediaRecorder->pause();
}

void Dialog::stop()
{
    mediaRecorder->stop();
}
```

代码下载

File:Camera.zip

相关链接

- Portal:Qt (Chinese)
- 多媒体开发

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