

Mainwindow.h

```
#ifndef MAINWINDOW_H
#define MAINWINDOW_H

#include <QMainWindow>
#include<QProcess>
#include<QAction>
#include<QMenu>
#include<QMediaPlayer>
#include<QMediaPlaylist>
#include<QSystemTrayIcon>
#include<QMouseEvent>
#include<QCloseEvent>
#include<QVideoWidget>
#include<QDesktopServices>
#include<QDir>
#include<QFileDialog>
#include<QMediaObject>
#include<QAudioOutput>
#include"dialog.h"

namespace Ui {
class MainWindow;
}

class MainWindow : public QMainWindow
{
    Q_OBJECT

public:
    explicit MainWindow(QWidget *parent = 0);
    ~MainWindow();
private slots:
    void positionChanged(qint64);
    void durationChanged(qint64);
    void playTo(int,int);
    void updateSongList(int);

    void showOrHideSongList();
    void importSongs();
    void playLast();
    void playOrPause();
    void playNext();
};
```

```
void plusSound();  
void reduceSound();
```

```
void setPlaybackModel1();  
void setPlaybackModel2();  
void setPlaybackModel3();  
void setPlaybackModel4();
```

```
void support();  
void aboutUs();
```

```
void lyric();  
void deleteSong();  
void addSong();  
void luzhi();
```

```
void setPosition(int);
```

```
void iconActivated(QSystemTrayIcon::ActivationReason);
```

```
void on_toolButton_clicked();
```

```
private:
```

```
Ui::MainWindow * ui;  
void createContextMenu();  
void createSysytemTrayIcon();  
QPoint dragPos  
int volume;
```

```
QAction * restoreAction  
QAction * quitAction;  
QAction * seperatorAction1  
QAction * seperatorAction2  
QAction * seperatorAction3  
QAction * seperatorAction4  
QAction * seperatorAction5  
QAction * seperatorAction6  
QAction * seperatorAction7;
```

```
QMenu * trayContextMenu;
```

```
QMediaPlayer * player;  
QMediaPlaylist * playList;
```

```

        QSystemTrayIcon *trayIcon;
        bool b;
        int z;
//      QMediaObject *media_object;
protected:
        void mouseMoveEvent(QMouseEvent *);
        void mousePressEvent(QMouseEvent *);
        void closeEvent(QCloseEvent *);
public:
        void con();
};

```

```

#endif // MAINWINDOW_H

```

Mainwindow.cpp

```

#include "mainwindow.h"
#include "ui_mainwindow.h"
#include<QMessageBox>
#include<QDebug>
#include<QFile>
#include<QIODevice>
#include<QMovie>
#include<QMultimedia>
MainWindow::MainWindow(QWidget *parent) :
    QMainWindow(parent),
    ui(new Ui::MainWindow)
{
    ui->setupUi(this);

    this->setFixedSize(this->width(),this->height());
    ui->horizontalSlider->setRange(0,0);

    ui->label_2->show();

    ui->textEdit->hide();

    QMovie *movie=new QMovie(":/new/prefix1/images/ 搞笑.gif");
    ui->label_2->setMovie(movie);
    movie->start();

    volume=80;

    createContextMenu();
    createSysytemTrayIcon();

```

```

    playList=new QMediaPlaylist;
    playList->setPlaybackMode(QMediaPlaylist::Loop);
    player=new QMediaPlayer;
    player->setPlaylist(playList);
    player->setVolume(volume);
    b=false;
    z=-1;
    con();

}
void MainWindow::con()
{

connect(ui->horizontalSlider, SIGNAL(sliderMoved(int)), this, SLOT(setPosition(int)
));

connect(ui->tableWidget, SIGNAL(cellClicked(int,int)), this, SLOT(playTo(int,int)));

connect(player, SIGNAL(positionChanged(qint64)), this, SLOT(positionChanged(qint
64)));

connect(player, SIGNAL(durationChanged(qint64)), this, SLOT(durationChanged(qint
64)));

connect(playList, SIGNAL(currentIndexChanged(int)), this, SLOT(updateSongList(int
)));

    connect(ui->action_SongList, SIGNAL(triggered()), this,
SLOT(showOrHideSongList()));
    connect(ui->action_Import, SIGNAL(triggered()), this, SLOT(importSongs()));
    connect(ui->action_Last, SIGNAL(triggered()), this, SLOT(playLast()));
    connect(ui->action_Play, SIGNAL(triggered()), this, SLOT(playOrPause()));
    connect(ui->action_Stop, SIGNAL(triggered()), player, SLOT(stop()));
    connect(ui->action_Next, SIGNAL(triggered()), this, SLOT(playNext()));
    connect(ui->action_SoundPlus, SIGNAL(triggered()), this,
SLOT(plusSound()));
    connect(ui->action_SoundReduce, SIGNAL(triggered()), this,
SLOT(reduceSound()));
    connect(ui->action_mode1, SIGNAL(triggered()), this,
SLOT(setPlaybackModel1()));
    connect(ui->action_mode2, SIGNAL(triggered()), this,
SLOT(setPlaybackModel2()));

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        connect(ui->action_mode3 SIGNAL(triggered()), this,
        SLOT(setPlaybackModel3()));
        connect(ui->action_mode4 SIGNAL(triggered()), this,
        SLOT(setPlaybackModel4()));
        connect(ui->action_support SIGNAL(triggered()), this, SLOT(support()));
        connect(ui->action_about SIGNAL(triggered()), this, SLOT(aboutUs()));
        connect(ui->action_Quit, SIGNAL(triggered()), this, SLOT(close()));
        connect(ui->action_lyric,SIGNAL(triggered(bool)),this,SLOT(lyric()));
        connect(ui->action_delete,SIGNAL(triggered(bool)),this,SLOT(deleteSong()));
        connect(ui->action_add,SIGNAL(triggered(bool)),this,SLOT(addSong()));
        connect(ui->action_luzhi,SIGNAL(triggered(bool)),this,SLOT(luzhi()));

        connect(ui->Last,SIGNAL(clicked(bool)),this,SLOT(playLast()));
        connect(ui->Play,SIGNAL(clicked(bool)),this,SLOT(playOrPause()));
        connect(ui->Stop,SIGNAL(clicked(bool)), player,SLOT(stop()));
        connect(ui->Next,SIGNAL(clicked(bool)),this,SLOT(playNext()));
    }
    void MainWindow::createContextMenu()
    {
        seperatorAction1new QAction(this);
        seperatorAction1>setSeparator(true);
        seperatorAction2new QAction(this);
        seperatorAction2>setSeparator(true);
        seperatorAction3new QAction(this);
        seperatorAction3>setSeparator(true);
        seperatorAction4new QAction(this);
        seperatorAction4>setSeparator(true);
        seperatorAction5new QAction(this);
        seperatorAction5>setSeparator(true);
        seperatorAction6new QAction(this);
        seperatorAction6>setSeparator(true);
        seperatorAction7new QAction(this);
        seperatorAction7>setSeparator(true);

        addAction(ui->action_SongList);
        addAction(ui->action_Import);
        addAction(seperatorAction7);
        addAction(ui->action_lyric);
        addAction(ui->action_luzhi);
        addAction(seperatorAction6);
        addAction(ui->action_delete);
        addAction(ui->action_add);
        addAction(seperatorAction1);
    }

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addAction(ui->action_Last);
addAction(ui->action_Play);
addAction(ui->action_Stop);
addAction(ui->action_Next);
addAction(seperatorAction2;
addAction(ui->action_mode1;
addAction(ui->action_mode2;
addAction(ui->action_mode3;
addAction(ui->action_mode4;
addAction(seperatorAction3;
addAction(ui->action_SoundPlus;
addAction(ui->action_SoundReduce;
addAction(seperatorAction4;
addAction(ui->action_support);
addAction(ui->action_about);
addAction(seperatorAction5;
addAction(ui->action_Quit);

setContextMenuPolicy(Qt::ActionsContextMenu);
}
void MainWindow::createSysyemTrayIcon()
{
    trayIcon=new QSystemTrayIcon(this);
    trayIcon->setIcon(QIcon(tr(":/new/prefix1/images/icon.ico")));
    trayIcon->setToolTip(tr(" 酷音听听  - 音乐播放器 "));

    restoreAction=new QAction(tr(" 打开主面板 "), this);
    connect(restoreAction, SIGNAL(triggered()), this, SLOT(show()));

    quitAction=new QAction(tr(" 退出 "), this);
    connect(quitAction, SIGNAL(triggered()), qApp, SLOT(quit()));

    trayContextMenu=new QMenu(this);
    trayContextMenu->addAction(ui->action_SongList);
    trayContextMenu->addAction(ui->action_Import);
    trayContextMenu->addSeparator();
    trayContextMenu->addAction(ui->action_lyric);
    trayContextMenu->addAction(ui->action_luzhi);
    trayContextMenu->addSeparator();
    trayContextMenu->addAction(ui->action_delete);
    trayContextMenu->addAction(ui->action_add);
    trayContextMenu->addSeparator();
    trayContextMenu->addAction(ui->action_Last);
    trayContextMenu->addAction(ui->action_Play);

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    trayContextMenu->addAction(ui->action_Stop);
    trayContextMenu->addAction(ui->action_Next);
    trayContextMenu->addSeparator();
    trayContextMenu->addAction(ui->action_mode1);
    trayContextMenu->addAction(ui->action_mode2);
    trayContextMenu->addAction(ui->action_mode3);
    trayContextMenu->addAction(ui->action_mode4);
    trayContextMenu->addSeparator();
    trayContextMenu->addAction(ui->action_SoundPlus);
    trayContextMenu->addAction(ui->action_SoundReduce);
    trayContextMenu->addSeparator();
    trayContextMenu->addAction(ui->action_support);
    trayContextMenu->addAction(ui->action_about);
    trayContextMenu->addSeparator();
    trayContextMenu->addAction(restoreAction);
    trayContextMenu->addAction(quitAction);
    trayIcon->setContextMenu(trayContextMenu);

    trayIcon->show();
    connect(trayIcon, SIGNAL(activated(QSystemTrayIcon::ActivationReason)), \
            this, SLOT(iconActivated(QSystemTrayIcon::ActivationReason)));
}

void MainWindow::iconActivated(QSystemTrayIcon::ActivationReason reason)
{
    switch(reason) {
        case QSystemTrayIcon::DoubleClick:
        case QSystemTrayIcon::Trigger:
            if(this->isVisible()==true) {
                ;
            } else {
                this->show();
                this->activateWindow();
            }
            break;
        default:
            break;
    }
}

void MainWindow::closeEvent(QCloseEvent *event)
{
    if(trayIcon->isVisible()) {
        hide();
        trayIcon->showMessage(tr("提示"), tr(" 酷音听听将在后台运行  "));
        event->ignore();
    }
}

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        } else {
            event->accept();
        }
    }
}
void MainWindow:: mouseMoveEvent(QMouseEvent *event)
{
    if(event->button()==Qt::LeftButton) {
        dragPos=event->globalPos()-frameGeometry().topLeft();
        event->accept();
    }
}
void MainWindow:: mousePressEvent(QMouseEvent *event)
{
    if(event->button()==Qt::LeftButton) {
        dragPos=event->globalPos()-frameGeometry().topLeft();
        event->accept();
    }
}

void MainWindow::positionChanged(qint64 position)
{
    ui->horizontalSlider->setValue(position);
}
void MainWindow::durationChanged(qint64 duration)
{
    ui->horizontalSlider->setRange(0,duration);
}
void MainWindow::updateSongList(int i)
{
    ui->tableWidget->selectRow(i);
    ui->label->setText(tr("正在播放 : %1").arg(ui->tableWidget->item(i,
0)->text()));
    ui->label->setStyleSheet("color:red;font-weight:bold");
}
void MainWindow::showOrHideSongList()
{
    if(ui->tableWidget->isHidden()) {
        ui->tableWidget->show();
    } else {
        ui->tableWidget->hide();
    }
}
void MainWindow::playTo(int i,int)
{

```



```

    playList->setCurrentIndex(i);
    player->play();
    b=true;
    z=i;
    // qDebug()<<"pppppppppppppp";
}
void MainWindow::playLast()
{
    int currentIndex=playList->currentIndex();
    if(--currentIndex<0) currentIndex=0;
    playList->setCurrentIndex(currentIndex);
    player->play();
}
void MainWindow::playOrPause()
{
    if(ui->Play->text()==tr(" 播放 ")) {
        player->play();
        ui->Play->setText(tr(" 暂停 "));
    } else {
        player->pause();
        ui->Play->setText(tr(" 播放 "));
    }
}
void MainWindow::playNext()
{
    int currentIndex=playList->currentIndex();
    if(++currentIndex== playList->mediaCount()) currentIndex=0;
    playList->setCurrentIndex(currentIndex);
    player->play();
}
void MainWindow::plusSound()
{
    volume+=5;
    if(volume>=100) {
        volume=100;
        ui->action_SoundPlus>setEnabled(false);
    }
    player->setVolume(volume);

    if(! ui->action_SoundReduce>isEnabled())
        ui->action_SoundReduce>setEnabled(true);

}

```

```

void MainWindow::reduceSound()
{
    volume=5;
    if(volume<=0) {
        volume=0;
        ui->action_SoundReduce>setEnabled(false);
    }
    player->setVolume(volume);

    if(! ui->action_SoundPlus>isEnabled())
        ui->action_SoundPlus>setEnabled(true);
}

void MainWindow::setPosition(int i)
{
    player->setPosition(i);
}

void MainWindow::setPlaybackModel1()
{
    playList->setPlaybackMode(QMediaPlaylist::Loop);
}

void MainWindow::setPlaybackModel2()
{
    playList->setPlaybackMode(QMediaPlaylist::Random);
}

void MainWindow::setPlaybackModel3()
{
    playList->setPlaybackMode(QMediaPlaylist::CurrentItemInLoop);
}

void MainWindow::setPlaybackModel4()
{
    playList->setPlaybackMode(QMediaPlaylist::Sequential);
}

void MainWindow::support()
{
    QMessageBox::about(this, tr("关于酷音听听 "), \
        tr(" 酷音听听 ，感谢您的使用！  "));
}

void MainWindow::aboutUs()
{
    const QUrl url("http://www.baidu.com");

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```

        QDesktopServices::openUrl(url);
    }

void MainWindow::lyric()
{
    QString str=ui->tableWidget->item(z,0)->text();
    //  QString stra("11111");
    //  qDebug()<<stra;
    //  qDebug()<<str;
    //  qDebug()<<z;
    if(ui->action_lyric->text()==" 显示歌词 ")
    {
        QFile file("C:/KuGou/Lyric/"+str+".krc");
        //qDebug()<<file.fileName();
        if(!file. open(QIODevice::ReadOnly|QIODevice::Text))
        {
            QMessageBox::warning(this, tr("提示 "), tr(" 当前目录下未找到歌词
文件 "));
        }
        else
        {
            QTextStream in(&file);
            QString result=in.readAll();
            ui->textEdit->setText(result);
            ui->textEdit->show();
            //ui->graphicsView->hide();
            ui->label_2->hide();
        }
        ui->action_lyric->setText("隐藏歌词 ");
    }
    else
    {
        ui->textEdit->hide();
        // ui->graphicsView->show();
        ui->label_2->show();
        ui->action_lyric->setText("显示歌词 ");
    }
}

void MainWindow::deleteSong()
{
    if (QMessageBox::Yes == QMessageBox::question(this,
        tr(" 提示 "),
        tr(" 您确定删除这首歌吗？  ")),

```

```

        QMessageBox::Yes | QMessageBox::No,
        QMessageBox::Yes))
    {
        ui->tableWidget->removeRow(z);
        playList->removeMedia(z);
    }
}

void MainWindow::addSong()
{
    QString path=QFileDialog::getOpenFileName(this,"增添歌曲",
QDir::homePath(),"*.mp3");
    path=QDir::toNativeSeparators(path);
    playList->addMedia(QUrl::fromLocalFile(path));
    QString fileName=path.split("\\").last();
    int rownum=ui->tableWidget->rowCount();
    ui->tableWidget->insertRow(rownum);
    ui->tableWidget->setItem(rownum, 0, new
QTableWidgetItem(fileName.split(".").front()));
    ui->tableWidget->setItem(rownum, 1, new
QTableWidgetItem(fileName.split(".").last()));
}
void MainWindow::luzhi()
{
    Dialog *dialog=new Dialog;
    dialog->show();
}
void MainWindow::importSongs()
{
    QString name=QDir::homePath();
    QStringList pathList=QFileDialog::getOpenFileNames(this,tr("选择歌曲"),name,tr("*.mp3"));
    for(int i=0;i<pathList.size();i++)
    {
        QString path=QDir::toNativeSeparators(pathList.at(i));
        if(!path.isEmpty())
        {
            playList->addMedia(QUrl::fromLocalFile(path));
            QString fileName=path.split("\\").last();
            int rownum=ui->tableWidget->rowCount();
            ui->tableWidget->insertRow(rownum);
            ui->tableWidget->setItem(rownum, 0, new
QTableWidgetItem(fileName.split(".").front()));

```

```

        ui->tableWidget->setItem(rownum, 1, new
QTableWidgetItem(fileName.split(".").last()));
    }
    //ui->tableWidget->setItem(rownum, 2, new QTableWidgetItem(path));
}

}
MainWindow::~MainWindow()
{
    delete ui;
}
void MainWindow::on_toolButton_clicked()
{
    if(b)
    {
        player->setVolume(0);

    }
    else {
        player->setVolume(volume);
    }
    b=!b;
}

```

运行截图：



