mainwindow.h 1

```
#ifndef MAINWINDOW H
#define MAINWINDOW H
#include <QMainWindow>
#include <QtCore>
#include <vector>
#include <QSlider>
#include <QTreeWidgetItem>
#include "selectfiledialog.h"
#include "qtgstreamerdriver.h"
#include "videosink.h"
#include "librarymanageraudio.h"
#include "librarymanagervideo.h"
using std::vector;
namespace Ui {
class MainWindow;
class MainWindow : public QMainWindow
{
    Q OBJECT
    LibraryManagerAudio *mDBAudio;
    LibraryManagerVideo *mDBVideo;
    enum treeWidgetSortStatesAudio
        Folder,
        Artist,
        Album,
        Genre,
        Year
    };
    enum treeWidgetSortStatesVideo
        FolderVideo
    };
    int mSortStateAudio=Folder;
    int mSortStateVideo=FolderVideo;
    QTreeWidgetItem *mNowPlaying = NULL;
    vector < vector < QString > > mTreeViewDataAudio;
    vector < vector < QString > > mTreeViewDataVideo;
    QtGStreamerDriver *mGstDriver;
    bool isPlaying=false;
    bool isParentAudio=true;
    QIcon mPlay;
    QIcon mPause;
    QIcon mVolume;
    QIcon mVolumeMuted;
    QTime mPlayBacklength;
    QTime mPlayBackcurpos;
    QTimer mManagerTimer;
    unsigned long long mManagerTimerValue = 180000;
    int mManagerTimerCounter=1;
    long mTempTime;
```

mainwindow.h 2

```
VideoSink *mVideoWidget;
   bool isVideoModeON=false;
   int mCurrentVolume;
public:
   explicit MainWindow(QWidget *parent = 0);
   ~MainWindow();
   int getSortStateAudio();
   void setSortStateAudio(treeWidgetSortStatesAudio vState);
    int getSortStateVideo();
   void setSortStateVideo(treeWidgetSortStatesVideo vState);
signals:
   void setPlayState();
   void setPauseState();
   void setStopState();
   void setVideoWidgetToAudio(bool);
   void goFullScreen();
   void setVolumeAtVideo(int);
   void setNowPlayingVideo(QString);
private slots:
   void getSelectedAudioPath(QString);
   void getSelectedVideoPath(QString);
   void pushButtonAddAudio clicked();
   void pushButtonRemoveAudio_clicked();
   void pushButtonAddVideo clicked();
   void pushButtonRemoveVideo clicked();
   void updateTreeViewAudio(vector< vector<QString> >);
   void updateTreeViewVideo(vector< vector<QString> >);
   void onStateChanged();
   void onPositionChanged();
   void setPlayPause clicked();
   void setNext clicked();
   void setPrevious clicked();
   void positionSliderMoved(int);
   void setVolume(int);
   void treeLibraryDisplay_doubleClicked();
   void treeLibraryDisplay_Addto_Queue();
   void treeLibraryDisplay_itemClicked(QTreeWidgetItem *, int);
   void treeWidgetQueue onDoubleClicked(QTreeWidgetItem*);
   void treeCategoryChosser doubleClicked();
   void toggleMute();
   void toFullScreen();
   void toVideoMode();
```

mainwindow.h 3

```
void setVideoMode(bool);

void shutdown();

void pushButtonUpdate_clicked();

void runManager();

void toolButtonClearQueue_Clicked();

void treeQueue_RemoveFromQueue();

private:
    Ui::MainWindow *ui;
    SelectFileDialog *mDialog;

void sortTreeViewAudio();
 void sortTreeViewVideo();
 int setSliderOnClick(QSlider *, int);

// bool caseInsensitiveLessThan(QTreeWidgetItem * s1 , QTreeWidgetItem * s2);

// void closeEvent(QCloseEvent *);
};

#endif // MAINWINDOW_H
```