SDI Project

V1.0

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Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

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Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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Consts::errors 17
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MainWindow 22
Media 25
Message 27
Moderator 29
Consts::navigation 31
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Chapter 4

File Index

4.1 File List

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Chapter 5

Namespace Documentation

5.1 Consts Namespace Reference

Classes

- struct buttons
- struct dialogs
- struct errors
- struct formatting
- struct hashData
- struct navigation
- struct timer
- struct topics

Variables

- struct Consts::errors errors
- struct Consts::buttons buttons
- struct Consts::dialogs dialogs
- struct Consts::topics topics
- struct Consts::hashData hashData
- struct Consts::navigation navigation
- struct Consts::formatting formatting
- struct Consts::timer timer

5.1.1 Variable Documentation

5.1.1.1 buttons

```
struct Consts::buttons Consts::buttons
```

5.1.1.2 dialogs

struct Consts::dialogs Consts::dialogs

5.1.1.3 errors

struct Consts::errors Consts::errors

5.1.1.4 formatting

struct Consts::formatting Consts::formatting

5.1.1.5 hashData

struct Consts::hashData Consts::hashData

5.1.1.6 navigation

struct Consts::navigation Consts::navigation

5.1.1.7 timer

struct Consts::timer Consts::timer

5.1.1.8 topics

struct Consts::topics Consts::topics

5.2 Ui Namespace Reference

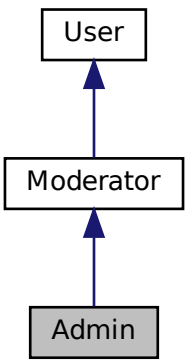
Chapter 6

Class Documentation

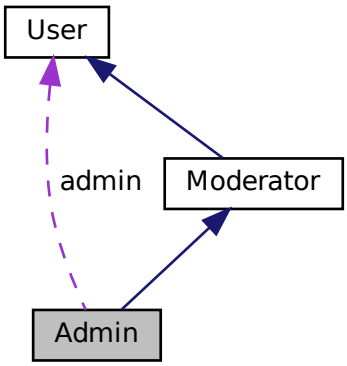
6.1 Admin Class Reference

```
#include <admin.h>
```

Inheritance diagram for Admin:



Collaboration diagram for Admin:



Public Member Functions

- Admin ()

Public Attributes

- User admin

Additional Inherited Members

6.1.1 Constructor & Destructor Documentation

6.1.1.1 Admin()

```
Admin::Admin ( )
```

6.1.2 Member Data Documentation

6.1.2.1 admin

```
User Admin::admin
```

The documentation for this class was generated from the following files:

- headers/admin.h
- src/admin.cpp

6.2 Consts::buttons Struct Reference

```
#include <consts.h>
```

Public Attributes

- const std::string connect = "Connect"
- const std::string disconnect = "Disconnect"
- const std::string username = "Username:"
- const std::string roomname = "Room Name:"

6.2.1 Member Data Documentation

6.2.1.1 connect

```
const std::string Consts::buttons::connect = "Connect"
```

6.2.1.2 disconnect

```
const std::string Consts::buttons::disconnect = "Disconnect"
```

6.2.1.3 roomname

```
const std::string Consts::buttons::roomname = "Room Name:"
```

6.2.1.4 username

```
const std::string Consts::buttons::username = "Username:"
```

The documentation for this struct was generated from the following file:

- headers/consts.h

6.3 Channel Class Reference

```
#include <channel.h>
```

Public Member Functions

- Channel ()
- void setName (std::string name)
- std::string getName ()
- void addMessage (Message message)
- void deleteMessage (Message message)

Public Attributes

- std::string name
- std::vector< Message > messages

6.3.1 Constructor & Destructor Documentation

6.3.1.1 Channel()

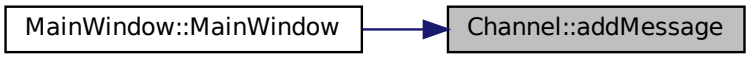
```
Channel::Channel ( )
```

6.3.2 Member Function Documentation

6.3.2.1 addMessage()

```
void Channel::addMessage (
            Message message )
```

Here is the caller graph for this function:



6.3.2.2 deleteMessage()

```
void Channel::deleteMessage (
            Message message )
```

6.3.2.3 getName()

```
std::string Channel::getName ( )
```

6.3.2.4 setName()

```
void Channel::setName (
            std::string name )
```

6.3.3 Member Data Documentation

6.3.3.1 messages

```
std::vector<Message> Channel::messages
```

6.3.3.2 name

```
std::string Channel::name
```

The documentation for this class was generated from the following files:

- headers/channel.h
- src/channel.cpp

6.4 Consts::dialogs Struct Reference

```
#include <consts.h>
```

Public Attributes

- const std::string enterroomname = "Enter Room Name"
- const std::string enterChannelName = "Enter Channel Name"
- const std::string channelName = "Channel Name:"
- const std::string noChannel = "no-channel-connected"
- const std::string noGroup = "no-group-selected"
- const std::string enterUsername = "Enter Username"

6.4.1 Member Data Documentation

6.4.1.1 channelName

```
const std::string Consts::dialogs::channelName = "Channel Name:"
```

6.4.1.2 enterChannelName

```
const std::string Consts::dialogs::enterChannelName = "Enter Channel Name"
```

6.4.1.3 enterroomname

```
const std::string Consts::dialogs::enterroomname = "Enter Room Name"
```

6.4.1.4 enterUsername

```
const std::string Consts::dialogs::enterUsername = "Enter Username"
```

6.4.1.5 noChannel

```
const std::string Consts::dialogs::noChannel = "no-channel-connected"
```

6.4.1.6 noGroup

```
const std::string Consts::dialogs::noGroup = "no-group-selected"
```

The documentation for this struct was generated from the following file:

- headers/consts.h

6.5 Consts::errors Struct Reference

```
#include <consts.h>
```

Public Attributes

- const std::string error = "Error"
- const std::string noRoomSelected = "Error: No Room Selected"
- const std::string noChannelSelected = "Error: No Channel Selected"
- const std::string subscription = "Could not subscribe. Is there a valid connection?"
- const std::string sendMessage = "Error: Could not Send Message"
- const std::string emptyUser = "Error: Username Field Empty"
- const std::string userNotFound = "Error: Username Not Found"
- const std::string userSubscribed = "Error: User Already Subscribed"
- const std::string invalidCreds = "Login Credentials Invalid"
- const std::string emptyFields = "Error: Fields must not be empty"
- const std::string somethingWrong = "Something went wrong!"
- const std::string missingFile = "Error: Missing file"
- const std::string alreadyMod = "Error: User Already Mod"
- const std::string userNotMod = "Error: User Not Mod"

6.5.1 Member Data Documentation

6.5.1.1 alreadyMod

```
const std::string Consts::errors::alreadyMod = "Error:  User Already Mod"
```

6.5.1.2 emptyFields

```
const std::string Consts::errors::emptyFields = "Error:  Fields must not be empty"
```

6.5.1.3 emptyUser

```
const std::string Consts::errors::emptyUser = "Error:  Username Field Empty"
```

6.5.1.4 error

```
const std::string Consts::errors::error = "Error"
```

6.5.1.5 invalidCreds

```
const std::string Consts::errors::invalidCreds = "Login Credentials Invalid"
```

6.5.1.6 missingFile

```
const std::string Consts::errors::missingFile = "Error:  Missing file"
```

6.5.1.7 noChannelSelected

```
const std::string Consts::errors::noChannelSelected = "Error:  No Channel Selected"
```

6.5.1.8 noRoomSelected

```
const std::string Consts::errors::noRoomSelected = "Error:  No Room Selected"
```

6.5.1.9 sendMessage

```
const std::string Consts::errors::sendMessage = "Error:  Could not Send Message"
```

6.5.1.10 somethingWrong

```
const std::string Consts::errors::somethingWrong = "Something went wrong!"
```

6.5.1.11 subscription

```
const std::string Consts::errors::subscription = "Could not subscribe.  Is there a valid connection?"
```

6.5.1.12 userNotFound

```
const std::string Consts::errors::userNotFound = "Error:  Username Not Found"
```

6.5.1.13 userNotMod

```
const std::string Consts::errors::userNotMod = "Error:  User Not Mod"
```

6.5.1.14 userSubscribed

```
const std::string Consts::errors::userSubscribed = "Error:  User Already Subscribed"
```

The documentation for this struct was generated from the following file:

- headers/consts.h

6.6 Consts::formatting Struct Reference

```
#include <consts.h>
```

Public Attributes

- const std::string delimiterStr = "|"
- const char delimiterChar = '|'

6.6.1 Member Data Documentation

6.6.1.1 delimiterChar

```
const char Consts::formatting::delimiterChar = '|'
```

6.6.1.2 delimiterStr

```
const std::string Consts::formatting::delimiterStr = "|"
```

The documentation for this struct was generated from the following file:

- headers/consts.h

6.7 Consts::hashData Struct Reference

```
#include <consts.h>
```

Public Attributes

- const std::string pepper = "!#frog-_-rats#!"

6.7.1 Member Data Documentation

6.7.1.1 pepper

```
const std::string Consts::hashData::pepper = "!#frog-_-rats#!"
```

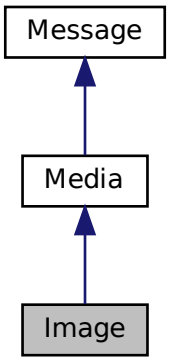
The documentation for this struct was generated from the following file:

- headers/consts.h

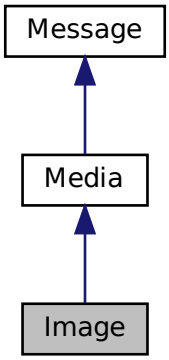
6.8 Image Class Reference

`#include <image.h>`

Inheritance diagram for Image:



Collaboration diagram for Image:



Public Member Functions

- Image ()
- void view ()
- void getImage ()

Additional Inherited Members

6.8.1 Constructor & Destructor Documentation

6.8.1.1 Image()

```
Image::Image ( )
```

6.8.2 Member Function Documentation

6.8.2.1 getImage()

```
void Image::getImage ( )
```

6.8.2.2 view()

```
void Image::view ( )
```

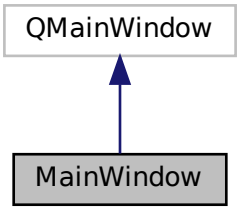
The documentation for this class was generated from the following files:

- headers/image.h
- src/image.cpp

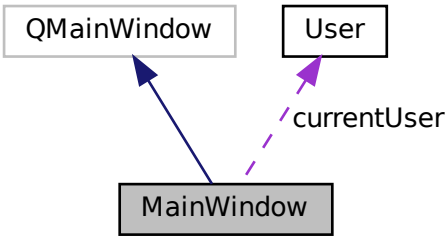
6.9 MainWindow Class Reference

```
#include <mainwindow.h>
```

Inheritance diagram for MainWindow:



Collaboration diagram for MainWindow:



Public Member Functions

- MainWindow (QWidget ∗parent=nullptr)
- ∼MainWindow ()

Public Attributes

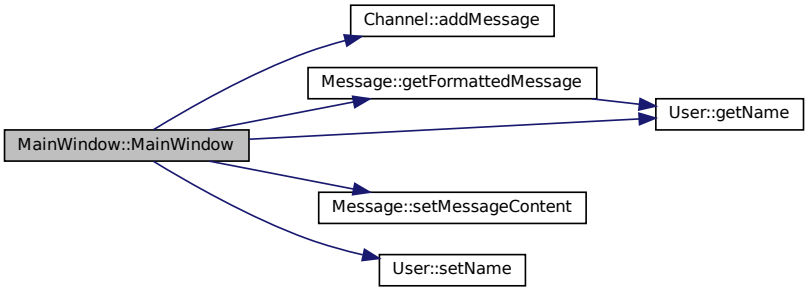
- const std::string credFilepath = "../appconfig/credentials.txt"
- const std::string userFilepath = "../appconfig/userConfig.txt"
- const std::string roomFilepath = "../appconfig/roomConfig.txt"
- const std::string adminFilepath = "../appconfig/roomAdminConfig.txt"
- std::vector< Room > rooms
- std::vector< User > users
- User currentUser

6.9.1 Constructor & Destructor Documentation

6.9.1.1 MainWindow()

```
MainWindow::MainWindow (
            QWidget * parent = nullptr )
```

Create new instance of QMqttClient and set host and port values When CLient is disconnected call broker↩ Disconnect() When a message is recieved, create the format 'QDate + ":" + string' and send to message logHere is the call graph for this function:



6.9.1.2 ~MainWindow()

```
MainWindow::~MainWindow ( )
```

6.9.2 Member Data Documentation

6.9.2.1 adminFilepath

```
const std::string MainWindow::adminFilepath = "../appconfig/roomAdminConfig.txt"
```

6.9.2.2 credFilepath

```
const std::string MainWindow::credFilepath = "../appconfig/credentials.txt"
```

6.9.2.3 currentUser

```
User MainWindow::currentUser
```

6.9.2.4 roomFilepath

```
const std::string MainWindow::roomFilepath = "../appconfig/roomConfig.txt"
```

6.9.2.5 rooms

```
std::vector<Room> MainWindow::rooms
```

6.9.2.6 userFilepath

```
const std::string MainWindow::userFilepath = "../appconfig/userConfig.txt"
```

6.9.2.7 users

```
std::vector<User> MainWindow::users
```

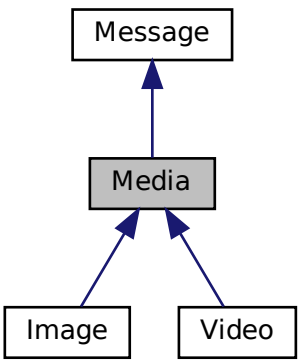
The documentation for this class was generated from the following files:

- headers/mainwindow.h
- src/mainwindow.cpp

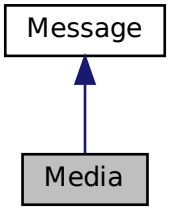
6.10 Media Class Reference

```
#include <media.h>
```

Inheritance diagram for Media:



Collaboration diagram for Media:



Public Member Functions

- Media ()
- void Download ()

Additional Inherited Members

6.10.1 Constructor & Destructor Documentation

6.10.1.1 Media()

```
Media::Media ( )
```

6.10.2 Member Function Documentation

6.10.2.1 Download()

```
void Media::Download ( )
```

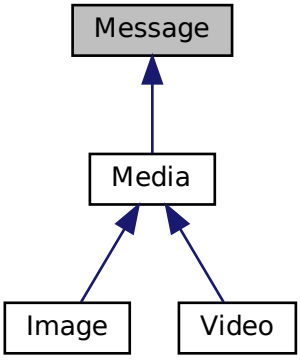
The documentation for this class was generated from the following files:

- headers/media.h
- src/media.cpp

6.11 Message Class Reference

`#include <message.h>`

Inheritance diagram for Message:



Public Member Functions

- Message ()
- QString getFormattedMessage (User &user)
- QString getMessageContent ()
- void setMessageContent (std::string)

Public Attributes

- std::string messageContent
- std::string username

6.11.1 Constructor & Destructor Documentation

6.11.1.1 Message()

`Message::Message ( )`

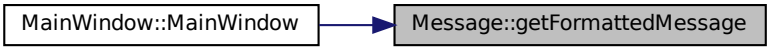
6.11.2 Member Function Documentation

6.11.2.1 getFormattedMessage()

```
QString Message::getFormattedMessage (
            User & user )
```

Here is the call graph for this function:

Here is the caller graph for this function:



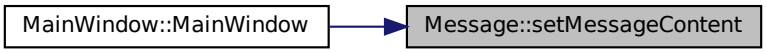
6.11.2.2 getMessageContent()

```
QString Message::getMessageContent ( )
```

6.11.2.3 setMessageContent()

```
void Message::setMessageContent (
            std::string message )
```

Here is the caller graph for this function:



6.11.3 Member Data Documentation

6.11.3.1 messageContent

```
std::string Message::messageContent
```

6.11.3.2 username

```
std::string Message::username
```

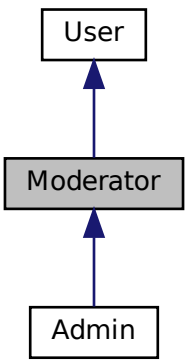
The documentation for this class was generated from the following files:

- headers/message.h
- src/message.cpp

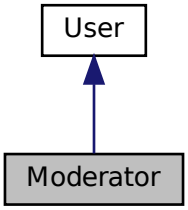
6.12 Moderator Class Reference

```
#include <moderator.h>
```

Inheritance diagram for Moderator:



Collaboration diagram for Moderator:



Public Member Functions

- Moderator ()
- User getUser ()

Public Attributes

- std::vector< User > moderator

Protected Member Functions

- void addUser (User user)
- void removeUser (User user)

Additional Inherited Members

6.12.1 Constructor & Destructor Documentation

6.12.1.1 Moderator()

```
Moderator::Moderator ( )
```

6.12.2 Member Function Documentation

6.12.2.1 addUser()

```
void Moderator::addUser (
            User user )  [protected]
```

6.12.2.2 getUser()

```
User Moderator::getUser ( )
```

6.12.2.3 removeUser()

```
void Moderator::removeUser (
            User user )  [protected]
```

6.12.3 Member Data Documentation

6.12.3.1 moderator

```
std::vector<User> Moderator::moderator
```

The documentation for this class was generated from the following files:

- headers/moderator.h
- src/moderator.cpp

6.13 Consts::navigation Struct Reference

```
#include <consts.h>
```

Public Attributes

- const int loginPage = 0
- const int signupPage = 1
- const int mainPage = 2
- const int settingsPage = 3

6.13.1 Member Data Documentation

6.13.1.1 loginPage

```
const int Consts::navigation::loginPage = 0
```

6.13.1.2 mainPage

```
const int Consts::navigation::mainPage = 2
```

6.13.1.3 settingsPage

```
const int Consts::navigation::settingsPage = 3
```

6.13.1.4 signupPage

```
const int Consts::navigation::signupPage = 1
```

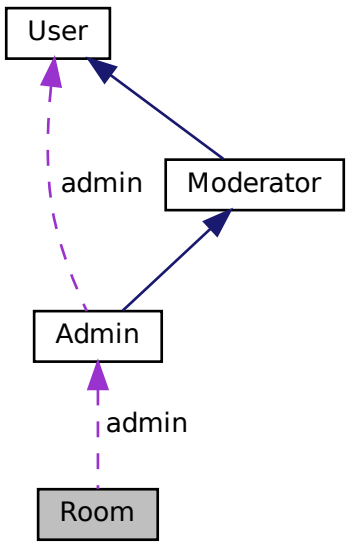
The documentation for this struct was generated from the following file:

- headers/consts.h

6.14 Room Class Reference

```
#include <room.h>
```

Collaboration diagram for Room:



Public Member Functions

- Room ()
- void setName (std::string theName)
- std::string getName ()
- void setRoomID (int id)
- int getRoomID ()
- std::vector< std::string > getMembers ()
- void addMembers (std::string member)
- void removeMember (std::string member)
- void addMod (Moderator mod)
- void removeMod (std::string modName)
- void addChannel (Channel channel)
- std::vector< Channel > getChannelList ()

Public Attributes

- std::string name
- std::vector< Channel > channels
- std::vector< std::string > members
- std::vector< Moderator > moderators
- Admin admin
- int roomID

6.14.1 Constructor & Destructor Documentation

6.14.1.1 Room()

```
Room::Room ( )
```

6.14.2 Member Function Documentation

6.14.2.1 addChannel()

```
void Room::addChannel (
            Channel channel )
```

6.14.2.2 addMembers()

```
void Room::addMembers (
            std::string member )
```

6.14.2.3 addMod()

```
void Room::addMod (
            Moderator mod )
```

6.14.2.4 getChannelList()

```
std::vector< Channel > Room::getChannelList ( )
```

6.14.2.5 getMembers()

```
std::vector< std::string > Room::getMembers ( )
```

6.14.2.6 getName()

```
std::string Room::getName ( )
```

6.14.2.7 getRoomID()

```
int Room::getRoomID ( )
```

6.14.2.8 removeMember()

```
void Room::removeMember (
            std::string member )
```

6.14.2.9 removeMod()

```
void Room::removeMod (
            std::string modName )
```

6.14.2.10 setName()

```
void Room::setName (
            std::string theName )
```

6.14.2.11 setRoomID()

```
void Room::setRoomID (
            int id )
```

6.14.3 Member Data Documentation

6.14.3.1 admin

```
Admin Room::admin
```

6.14.3.2 channels

```
std::vector<Channel> Room::channels
```

6.14.3.3 members

```
std::vector<std::string> Room::members
```

6.14.3.4 moderators

```
std::vector<Moderator> Room::moderators
```

6.14.3.5 name

```
std::string Room::name
```

6.14.3.6 roomID

```
int Room::roomID
```

The documentation for this class was generated from the following files:

- headers/room.h
- src/room.cpp

6.15 Consts::timer Struct Reference

```
#include <consts.h>
```

Public Attributes

- const int timerDuration = 900000

6.15.1 Member Data Documentation

6.15.1.1 timerDuration

```
const int Consts::timer::timerDuration = 900000
```

The documentation for this struct was generated from the following file:

- headers/consts.h

6.16 Consts::topics Struct Reference

```
#include <consts.h>
```

Public Attributes

- const QMqttTopicFilter statusFilter {"status"}
- const QMqttTopicName status {"status"}

6.16.1 Member Data Documentation

6.16.1.1 status

```
const QMqttTopicName Consts::topics::status {"status"}
```

6.16.1.2 statusFilter

```
const QMqttTopicFilter Consts::topics::statusFilter {"status"}
```

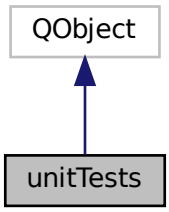
The documentation for this struct was generated from the following file:

- headers/consts.h

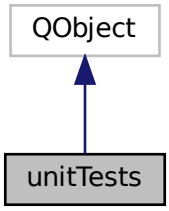
6.17 unitTests Class Reference

```
#include <unitTests.h>
```

Inheritance diagram for unitTests:



Collaboration diagram for unitTests:



Public Member Functions

- void testApp ()

6.17.1 Member Function Documentation

6.17.1.1 testApp()

```
void unitTests::testApp ( )
```

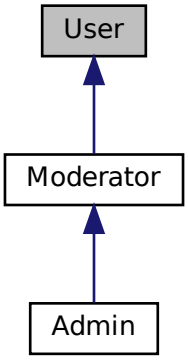
The documentation for this class was generated from the following files:

- headers/unitTests.h
- src/unitTests.cpp

6.18 User Class Reference

```
#include <user.h>
```

Inheritance diagram for User:



Public Member Functions

- User ()

  User class.
- void setName (std::string username)
- std::string getName ()
- bool subscribeToRoom (std::string room)
- void unsubscribeFromRoom (std::string room)

  unsubscribes from room
- void setOnlineStatus (bool online)
- bool getOnlineStatus ()

Public Attributes

- std::vector< std::string > rooms

Protected Attributes

- std::string userID
- std::string name
- std::string status
- bool online = false

6.18.1 Constructor & Destructor Documentation

6.18.1.1 User()

```
User::User ( )
```

User class.

6.18.2 Member Function Documentation

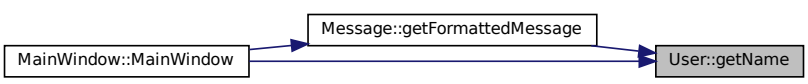
6.18.2.1 getName()

```
std::string User::getName ( )
```

Returns

Returns the Users name

Here is the caller graph for this function:



6.18.2.2 getOnlineStatus()

```
bool User::getOnlineStatus ( )
```

Returns

Returns users online status online:true offline:false

6.18.2.3 setName()

```
void User::setName (
            std::string username )
```

Here is the caller graph for this function:

6.18.2.4 setOnlineStatus()

```
void User::setOnlineStatus (
            bool online )
```

Parameters

online	status to be set online:true offline:false

6.18.2.5 subscribeToRoom()

```
bool User::subscribeToRoom (
            std::string room )
```

6.18.2.6 unsubscribeFromRoom()

```
void User::unsubscribeFromRoom (
            std::string room )
```

unsubscribes from room

Parameters

room	name to be unsubscribed from

6.18.3 Member Data Documentation

6.18.3.1 name

```
std::string User::name  [protected]
```

6.18.3.2 online

```
bool User::online = false  [protected]
```

6.18.3.3 rooms

```
std::vector<std::string> User::rooms
```

6.18.3.4 status

```
std::string User::status  [protected]
```

6.18.3.5 userID

```
std::string User::userID  [protected]
```

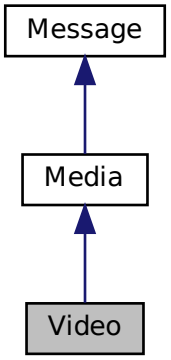
The documentation for this class was generated from the following files:

- headers/user.h
- src/user.cpp

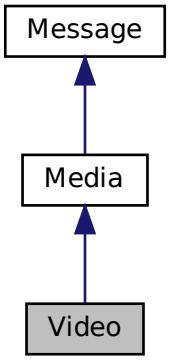
6.19 Video Class Reference

`#include <video.h>`

Inheritance diagram for Video:



Collaboration diagram for Video:



Public Member Functions

- Video ()
- void play ()
- void stop ()
- void load ()

Additional Inherited Members

6.19.1 Constructor & Destructor Documentation

6.19.1.1 Video()

```
Video::Video ( )
```

6.19.2 Member Function Documentation

6.19.2.1 load()

```
void Video::load ( )
```

6.19.2.2 play()

```
void Video::play ( )
```

6.19.2.3 stop()

```
void Video::stop ( )
```

The documentation for this class was generated from the following files:

- headers/video.h
- src/video.cpp

Chapter 7

File Documentation

7.1 appconfig/credentials.txt File Reference

7.2 appconfig/roomAdminConfig.txt File Reference

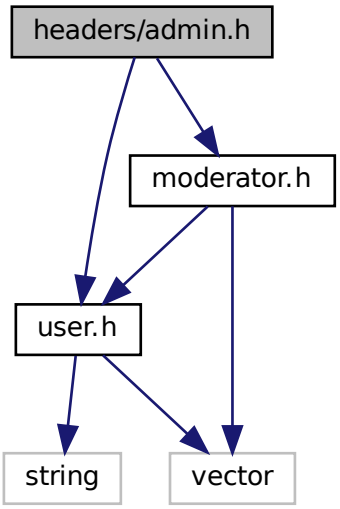
7.3 appconfig/roomConfig.txt File Reference

7.4 appconfig/userConfig.txt File Reference

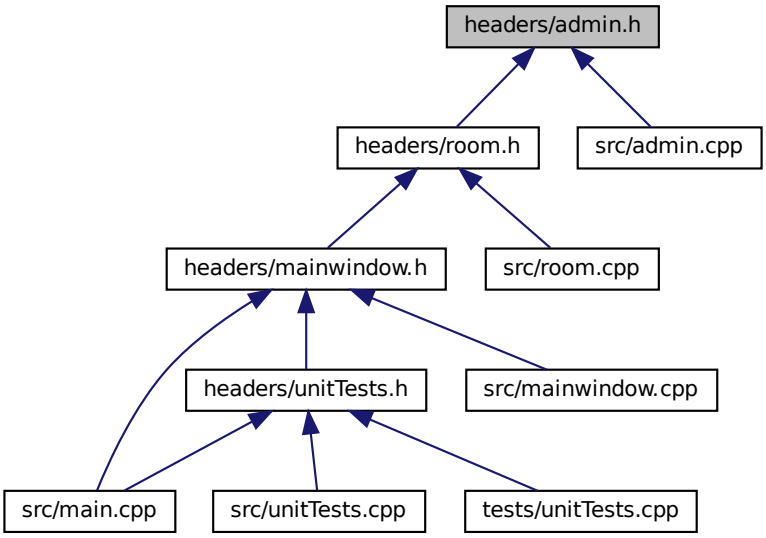
7.5 headers/admin.h File Reference

```
#include "user.h"
#include "moderator.h"
```

Include dependency graph for admin.h:



This graph shows which files directly or indirectly include this file:



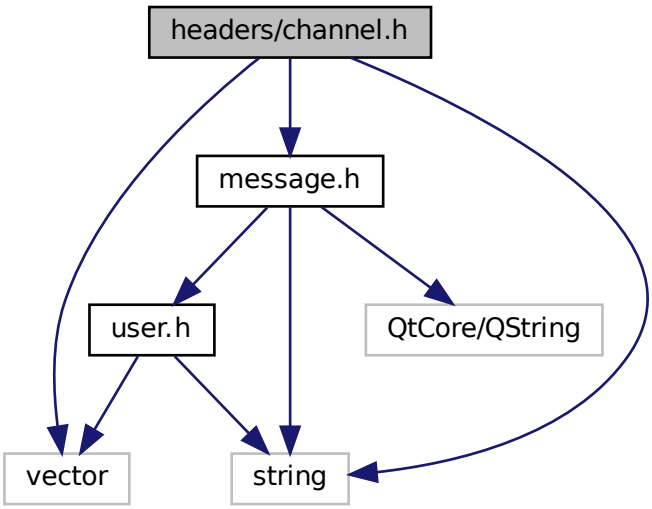
Classes

- class Admin

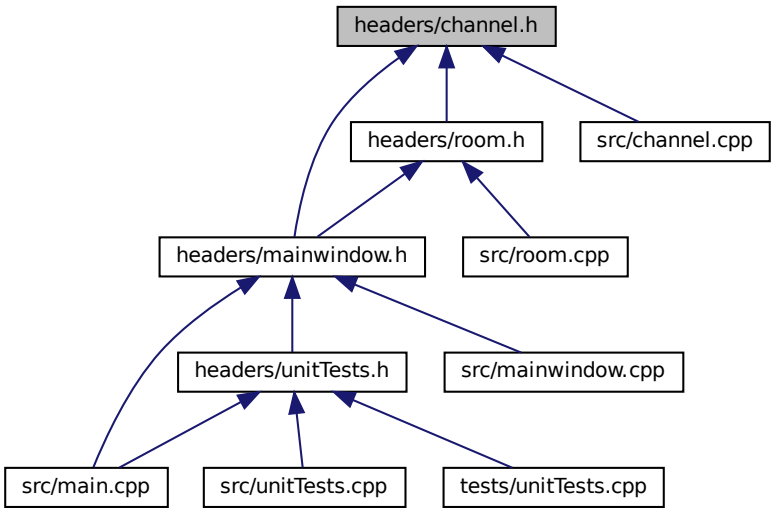
7.6 headers/channel.h File Reference

```
#include <string>
#include <vector>
#include "message.h"
```

Include dependency graph for channel.h:



This graph shows which files directly or indirectly include this file:



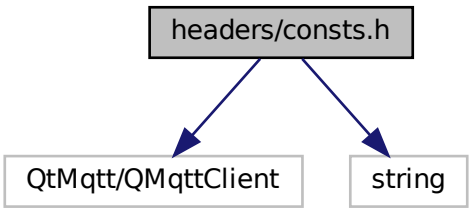
Classes

- class Channel

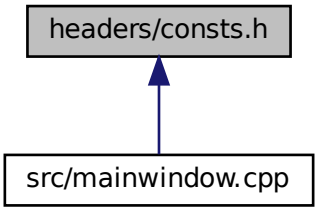
7.7 headers/consts.h File Reference

```
#include <QtMqtt/QMqttClient>
#include <string>
```

Include dependency graph for consts.h:



This graph shows which files directly or indirectly include this file:



Classes

- struct Consts::errors
- struct Consts::buttons
- struct Consts::dialogs
- struct Consts::topics
- struct Consts::hashData
- struct Consts::navigation
- struct Consts::formatting
- struct Consts::timer

Namespaces

- Consts

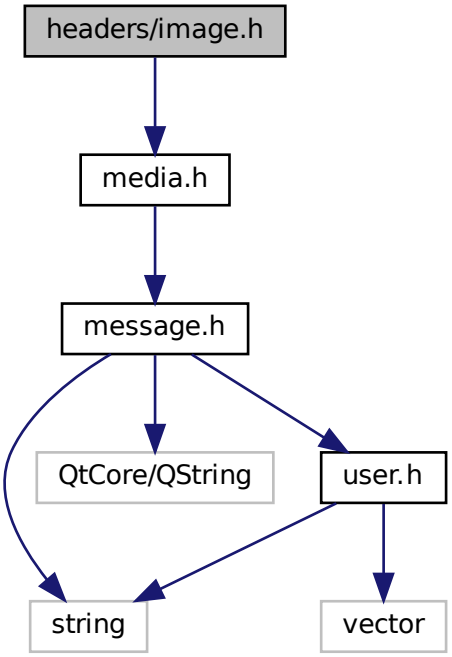
Variables

- struct Consts::errors Consts::errors
- struct Consts::buttons Consts::buttons
- struct Consts::dialogs Consts::dialogs
- struct Consts::topics Consts::topics
- struct Consts::hashData Consts::hashData
- struct Consts::navigation Consts::navigation
- struct Consts::formatting Consts::formatting
- struct Consts::timer Consts::timer

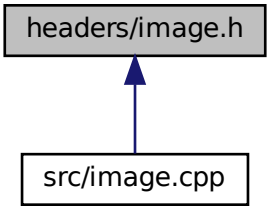
7.8 headers/image.h File Reference

```
#include "media.h"
```

Include dependency graph for image.h:



This graph shows which files directly or indirectly include this file:



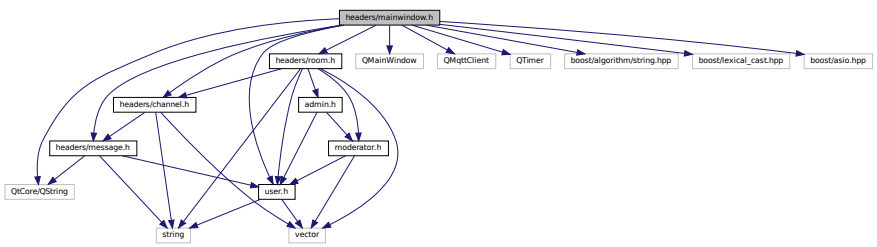
Classes

- class Image

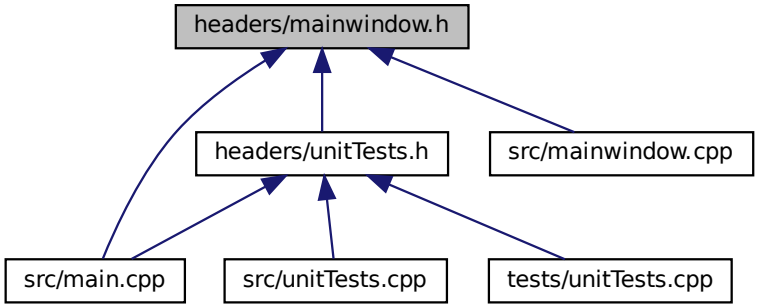
7.9 headers/mainwindow.h File Reference

```
#include "headers/message.h"
#include "headers/channel.h"
#include "headers/room.h"
#include "headers/user.h"
#include <QMainWindow>
#include <QMqttClient>
#include <QtCore/QString>
#include <QTimer>
#include <boost/algorithm/string.hpp>
#include <boost/lexical_cast.hpp>
#include <boost/asio.hpp>
```

Include dependency graph for mainwindow.h:



This graph shows which files directly or indirectly include this file:



Classes

- class MainWindow

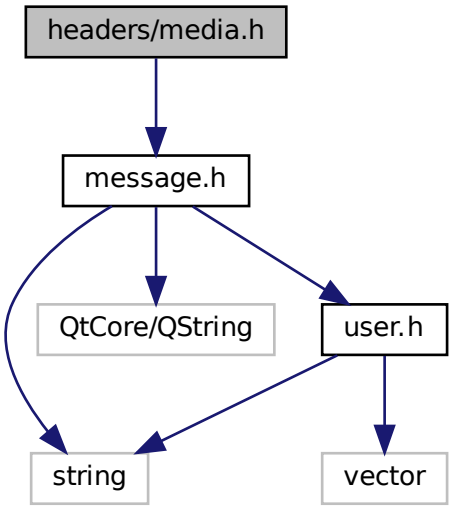
Namespaces

- Ui

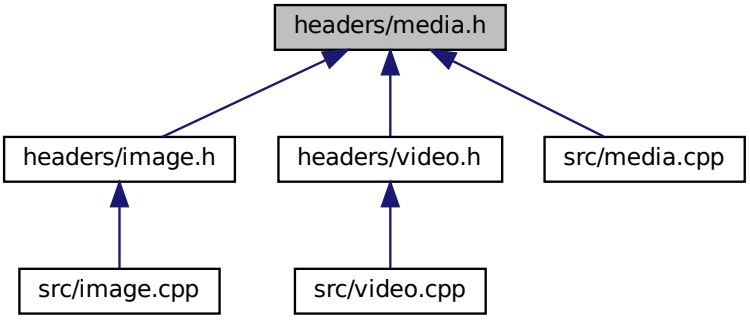
7.10 headers/media.h File Reference

```
#include "message.h"
```

Include dependency graph for media.h:



This graph shows which files directly or indirectly include this file:



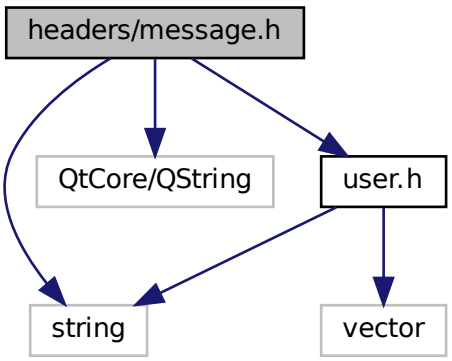
Classes

- class Media

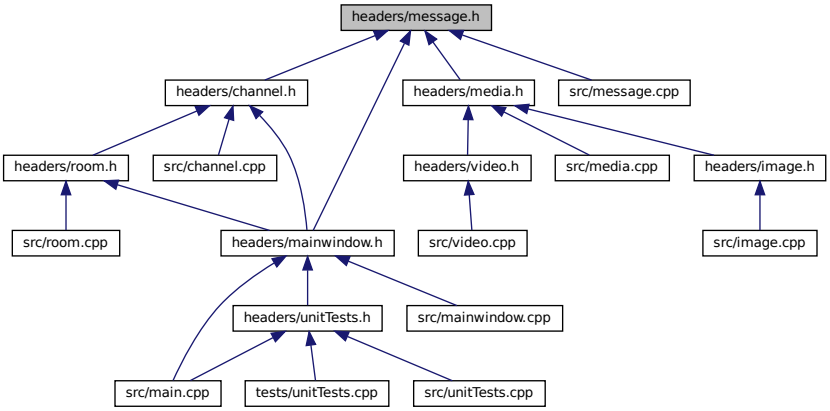
7.11 headers/message.h File Reference

```
#include <string>
#include <QtCore/QString>
#include "user.h"
```

Include dependency graph for message.h:



This graph shows which files directly or indirectly include this file:



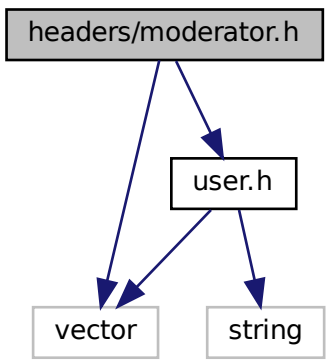
Classes

- class Message

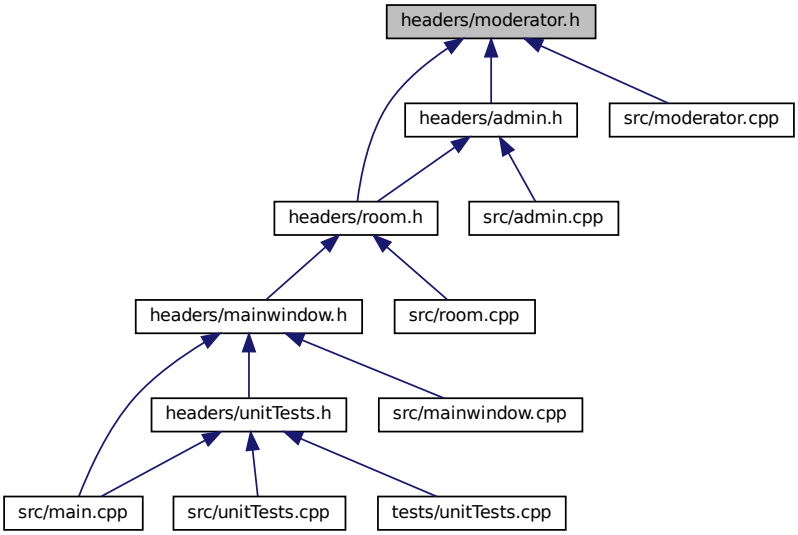
7.12 headers/moderator.h File Reference

```
#include <vector>
#include "user.h"
```

Include dependency graph for moderator.h:



This graph shows which files directly or indirectly include this file:



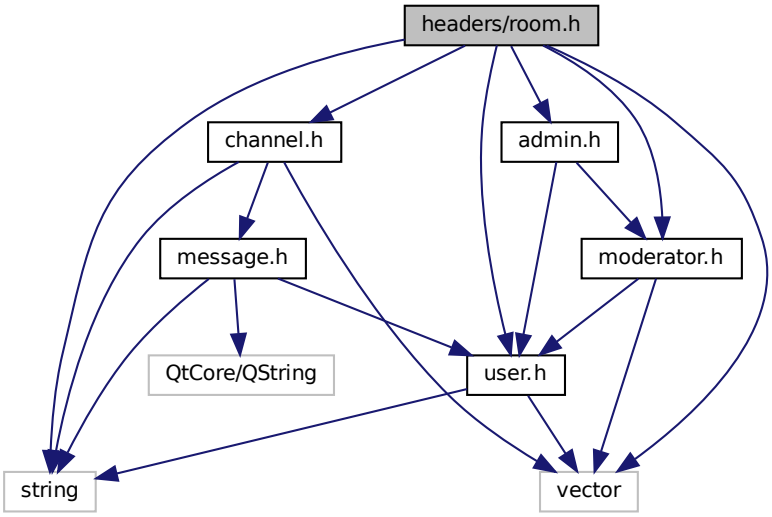
Classes

- class Moderator

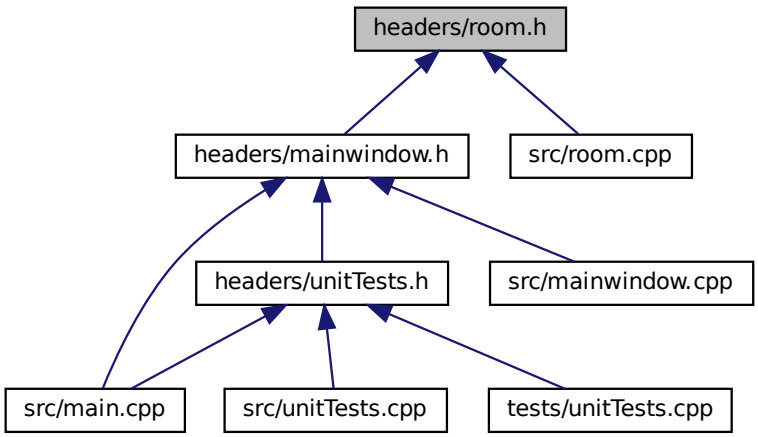
7.13 headers/room.h File Reference

```
#include <string>
#include <vector>
#include "channel.h"
#include "user.h"
#include "moderator.h"
#include "admin.h"
```

Include dependency graph for room.h:



This graph shows which files directly or indirectly include this file:



Classes

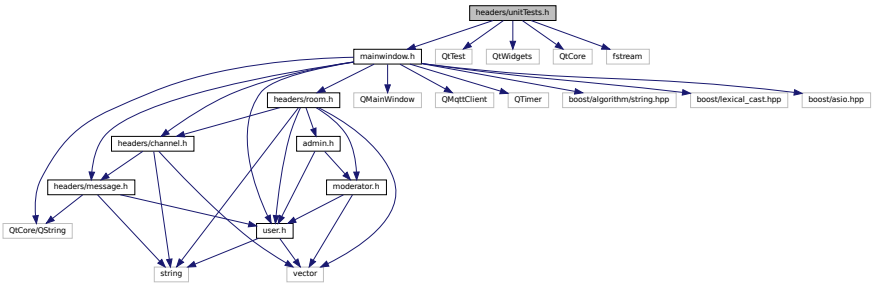
- class Room

7.14 headers/unitTests.h File Reference

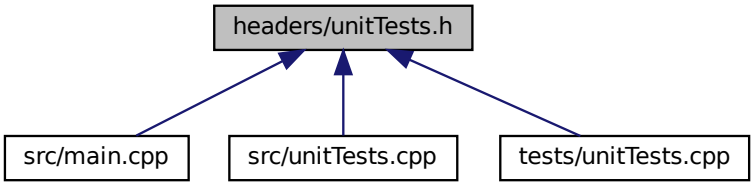
```
#include "mainwindow.h"
#include <QtTest>
```

```
#include <QtWidgets>
#include <QtCore>
#include <fstream>
```

Include dependency graph for unitTests.h:



This graph shows which files directly or indirectly include this file:



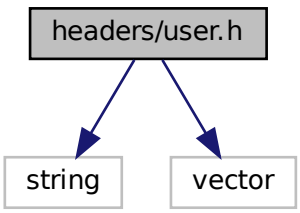
Classes

- class unitTests

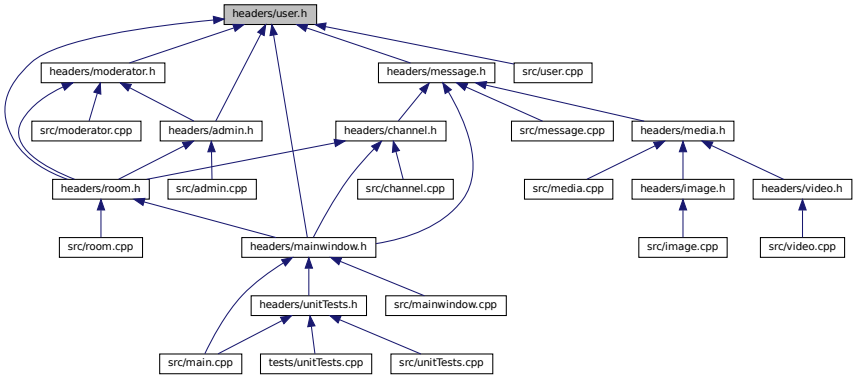
7.15 headers/user.h File Reference

```
#include <string>
#include <vector>
```

Include dependency graph for user.h:



This graph shows which files directly or indirectly include this file:



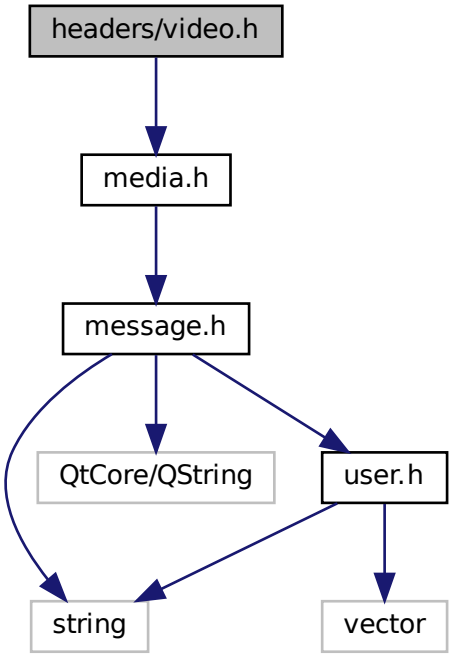
Classes

- class User

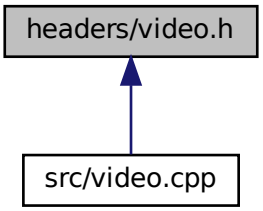
7.16 headers/video.h File Reference

```
#include "media.h"
```

Include dependency graph for video.h:



This graph shows which files directly or indirectly include this file:



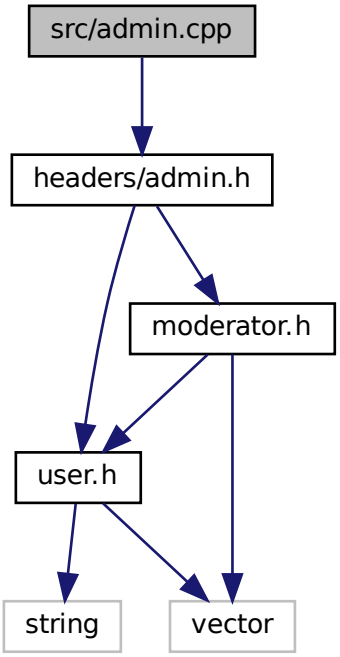
Classes

- class Video

7.17 src/admin.cpp File Reference

```
#include "headers/admin.h"
```

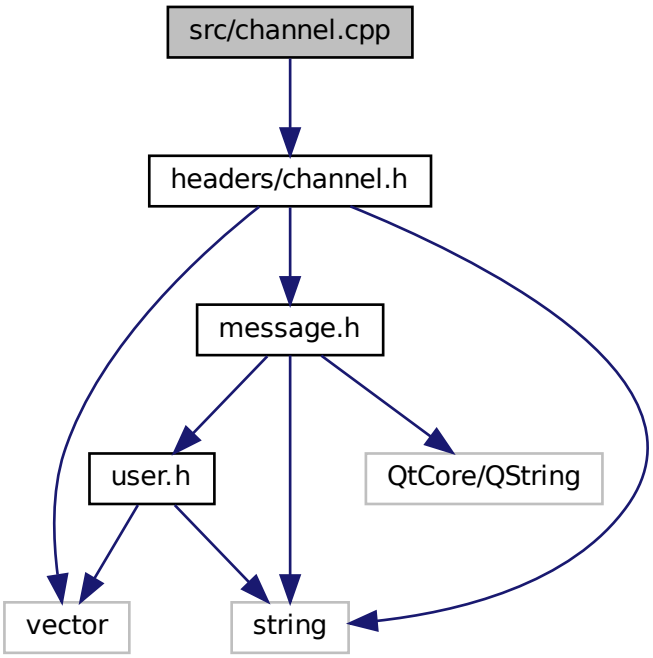
Include dependency graph for admin.cpp:



7.18 src/channel.cpp File Reference

```
#include "headers/channel.h"
```

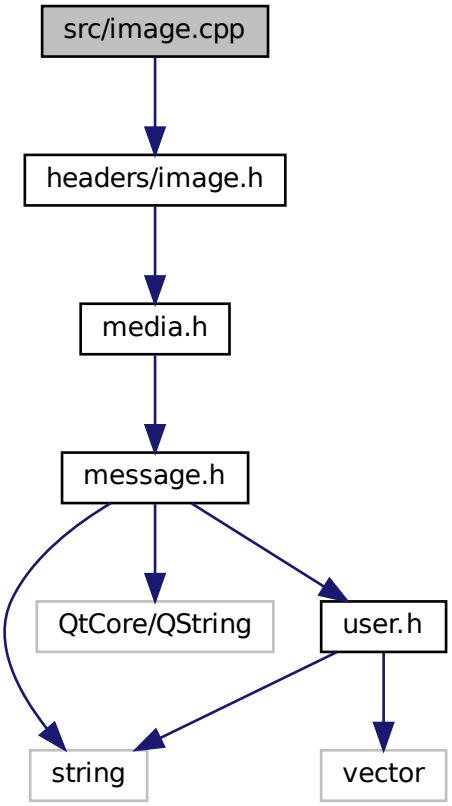
Include dependency graph for channel.cpp:



7.19 src/image.cpp File Reference

```
#include "headers/image.h"
```

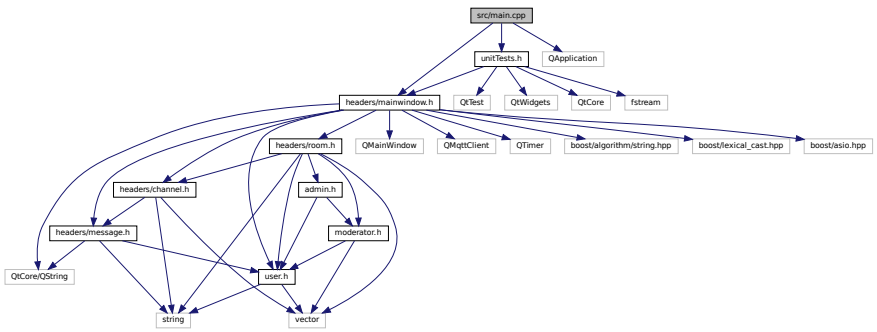
Include dependency graph for image.cpp:



7.20 src/main.cpp File Reference

```
#include "headers/mainwindow.h"
#include "unitTests.h"
#include <QApplication>
```

Include dependency graph for main.cpp:



Macros

- #define RUN_TESTS false

Functions

- int main (int argc, char ∗argv[ ])

7.20.1 Macro Definition Documentation

7.20.1.1 RUN_TESTS

```
#define RUN_TESTS false
```

7.20.2 Function Documentation

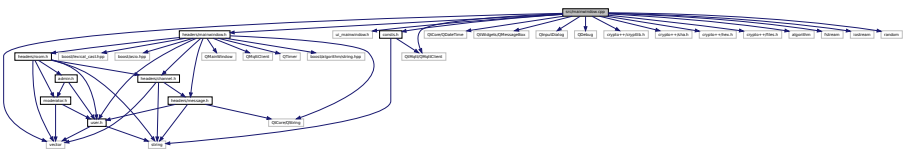
7.20.2.1 main()

```
int main (
            int argc,
            char * argv[] )
```

7.21 src/mainwindow.cpp File Reference

```
#include "headers/mainwindow.h"
#include "ui_mainwindow.h"
#include "consts.h"
#include <QtCore/QDateTime>
#include <QtMqtt/QMqttClient>
#include <QtWidgets/QMessageBox>
#include <QInputDialog>
#include <QDebug>
#include <crypto++/cryptlib.h>
#include <crypto++/sha.h>
#include <crypto++/hex.h>
#include <crypto++/files.h>
#include <algorithm>
#include <fstream>
#include <iostream>
#include <vector>
#include <random>
```

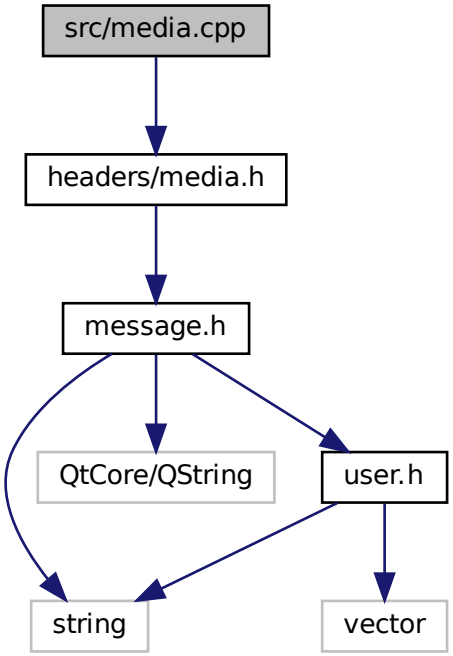
Include dependency graph for mainwindow.cpp:



7.22 src/media.cpp File Reference

```
#include "headers/media.h"
```

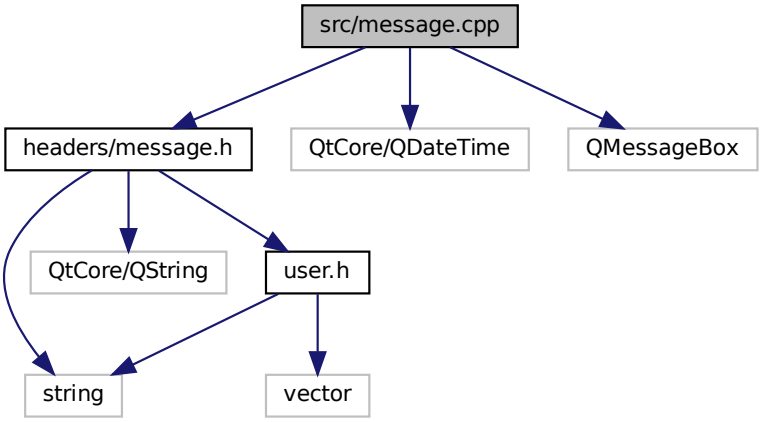
Include dependency graph for media.cpp:



7.23 src/message.cpp File Reference

```
#include "headers/message.h"
#include <QtCore/QDateTime>
#include <QMessageBox>
```

Include dependency graph for message.cpp:



Variables

- std::string messageContent

7.23.1 Variable Documentation

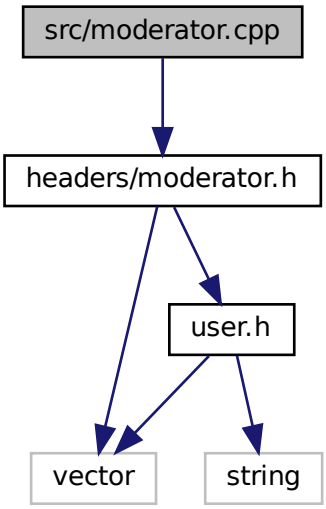
7.23.1.1 messageContent

```
std::string messageContent
```

7.24 src/moderator.cpp File Reference

```
#include "headers/moderator.h"
```

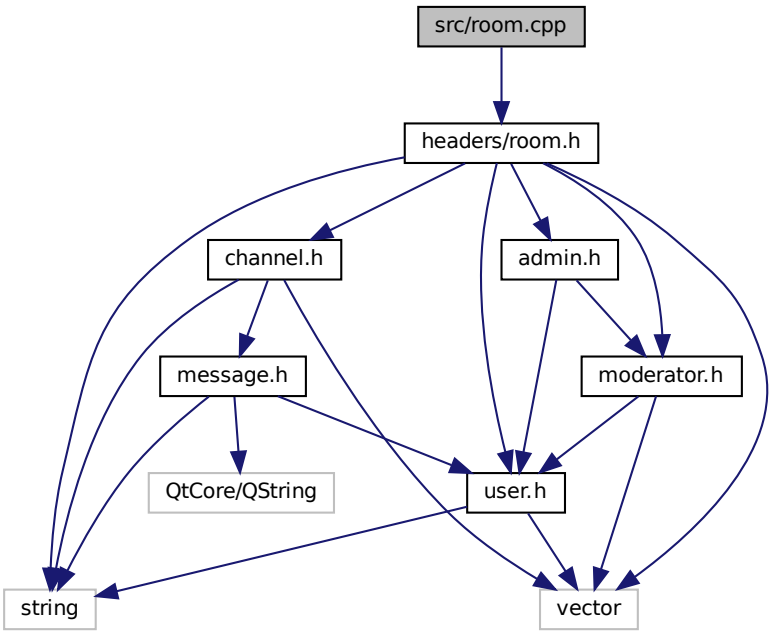
Include dependency graph for moderator.cpp:



7.25 src/room.cpp File Reference

```
#include "headers/room.h"
```

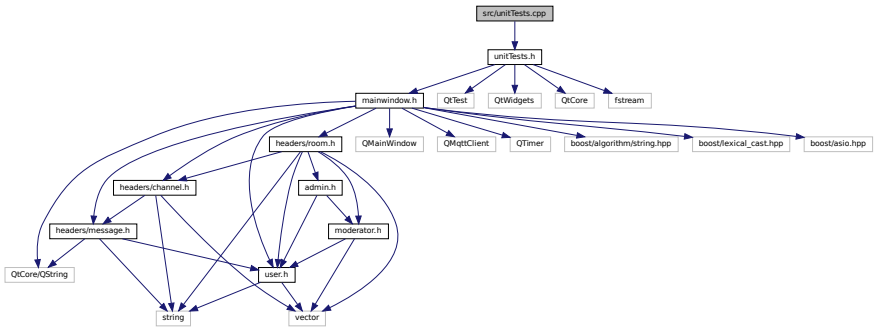
Include dependency graph for room.cpp:



7.26 src/unitTests.cpp File Reference

```
#include "unitTests.h"
```

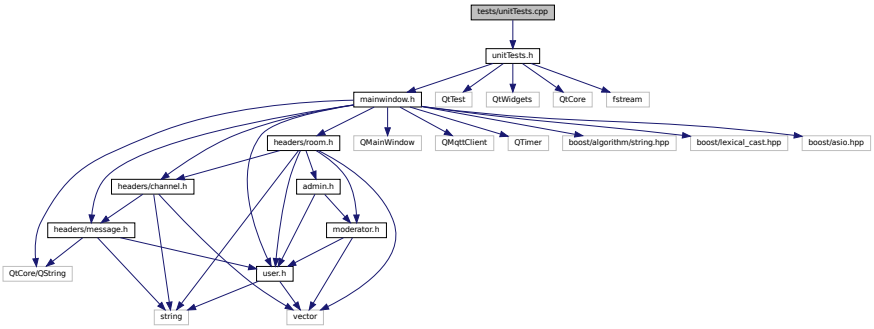
Include dependency graph for unitTests.cpp:



7.27 tests/unitTests.cpp File Reference

```
#include "unitTests.h"
```

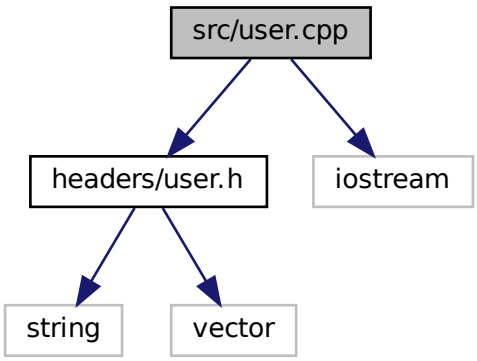
Include dependency graph for unitTests.cpp:



7.28 src/user.cpp File Reference

```
#include "headers/user.h"
#include <iostream>
```

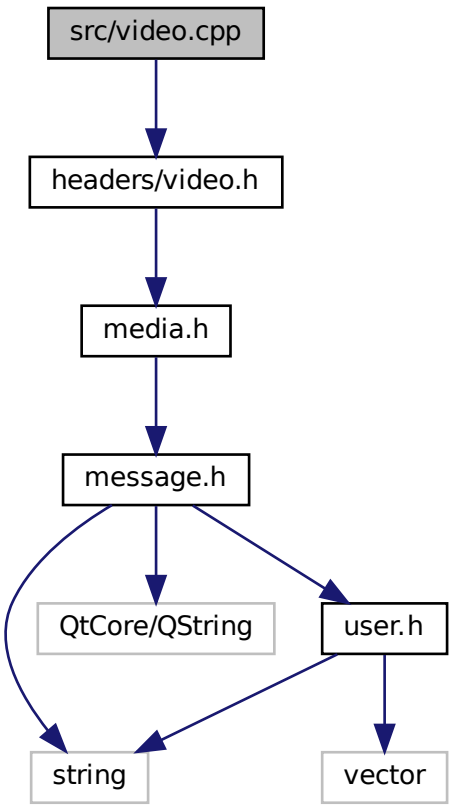
Include dependency graph for user.cpp:



7.29 src/video.cpp File Reference

```
#include "headers/video.h"
```

Include dependency graph for video.cpp:



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