PSEUDO-IRC-SERVER

1.0

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Here is a list of all documented namespaces with brief descriptions:

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Namespace Documentation

5.1 CMD Namespace Reference

Enumerations

- enum {
  C_PRIVMSG = 1, C_PUBMSG, C_GWHO, C_CWHO,
  C_LIST, C_TOPIC, C_KICK, C_BAN,
  C_OP, C_DEOP = 20, C_JOIN, C_NICK,
  C_LEAVE, C_UNBAN, C_BANLIST }

5.1.1 Detailed Description

Namespace gathering command codes refering to the commands

5.1.2 Enumeration Type Documentation

5.1.2.1 anonymous enum

Enumerator

C_PRIVMSG Command private message

C_PUBMSG Command public message

C_GWHO Command general who

C_CWHO Command who on a channel

C_LIST Command list

C_TOPIC Command topic

C_KICK Command kick

C_BAN Command ban

C_OP Command op

C_DEOP Command deop

C_JOIN Command join

C_NICK Command nick

C_LEAVE Command leave

C_UNBAN Command unban

C_BANLIST Command banlist

5.2 ERROR Namespace Reference

Enumerations

- enum {
  esuccess = 0, eBadArg = 250, eNickCollision, eNotAuthorised,
  eMissingArg, eNotExist, error }

5.2.1 Detailed Description

Namespace gathering error codes binded to the commands

5.2.2 Enumeration Type Documentation

5.2.2.1 anonymous enum

Enumerator

esuccess Command has been executed successfully

eBadArg The parameter is non-compliant

eNickCollision The nickname is already in use by another client

eNotAuthorised Not enough rights to use this command

eMissingArg A parameter is missing to use this command correctly

eNotExist The argument refers to a client/channel that doesn't exist

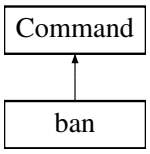
error Other errors

Chapter 6

Class Documentation

6.1 ban Class Reference

Inheritance diagram for ban:



Public Member Functions

- ban (Client *sender, Frame &frame)

  Constructor.
- virtual quint8 verify ()

  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.1.1 Constructor & Destructor Documentation

6.1.1.1 ban::ban (Client * *sender,* Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.1.2 Member Function Documentation

6.1.2.1 quint8 ban::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method check wether one argument is missing or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::esuccess if the command is valid.

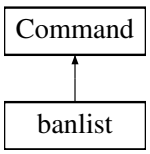
Implements Command.

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

- command.h
- command.cpp

6.2 banlist Class Reference

Inheritance diagram for banlist:



Public Member Functions

- banlist (Client *sender, Frame &frame)

  Constructor.
- virtual quint8 verify ()

  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.2.1 Constructor & Destructor Documentation

6.2.1.1 banlist::banlist (Client * *sender,* Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.2.2 Member Function Documentation

6.2.2.1 quint8 banlist::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method check wether one argument is missing or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::esuccess if the command is valid.

Implements Command.

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

- command.h
- command.cpp

6.3 bdPlatformLog Class Reference

The bdPlatformLog class.

`#include <bdPlatformLog.h>`

Public Member Functions

- bdPlatformLog ()

  Constructor.

Static Public Member Functions

- static void publish (_LogLevel logLevel, const char *channel, const char *pathtofile, const char *method, int line, const char *message)

  Publish a message.
- static void bdLogMessage (_LogLevel logLevel, const char *level, const char *channel, const char *pathtofile, const char *method, int line,...)

  Log a message.

6.3.1 Detailed Description

The bdPlatformLog class.

This class write an output message specified by the developper including more information such as the file name from where the class is called, the line and the member function

6.3.2 Constructor & Destructor Documentation

6.3.2.1 bdPlatformLog::bdPlatformLog ( )

Constructor.

The bdPlatformLog constructor

6.3.3 Member Function Documentation

6.3.3.1 void bdPlatformLog::bdLogMessage (_LogLevel *logLevel*, const char * *level*, const char * *channel*, const char * *pathtofile*, const char * *method*, int *line*, ...) [static]

Log a message.

Member function which logs a new message

Parameters

logLevel,:	the log level (_NONE, _WARNING, _ERROR, _DEBUG)
channel,:	unknown
pathtofile,:	the path to the file from where the member function was called
method,:	the method/function which called this method
line,:	the line of the file where the function was called
...,:	the others parameters, always starting with the format of the output message

6.3.3.2 void bdPlatformLog::publish (_LogLevel *logLevel,* const char * *channel,* const char * *pathtofile,* const char * *method,* int *line,* const char * *message*) [static]

Publish a message.

Member function which publishes a new message

Parameters

logLevel,:	the log level (_NONE, _WARNING, _ERROR, _DEBUG)
channel,:	unknown
pathtofile,:	the path to the file from where the member function was called
method,:	the method/function which called this method
line,:	the line of the file where the function was called
message,:	the message set by the developper

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

- bdPlatformLog.h
- bdPlatformLog.cpp

6.4 Channel Class Reference

Class reprensenting a channel.

Public Member Functions

- Channel (const QString &name)
  Constructor.
- void setTopic (const QString &topic)
  Set the topic of the channel.
- QString & getTopic (void)
  Getter of the topic of the channel.
- QString & getChannelName (void)
  Getter of the name of the channel.
- std::list< Client * > & getClientList (status s=REGULAR)
  Getter of the client lists of the channel.
- void addClient (Client *c, status s=REGULAR)
  Allows to add and/or set the status of a client on the channel.
- void removeClient (Client *c)
  Remove a client from a channel.
- void unbanClient (Client *c)
  Unban a client.
- bool isStatus (Client *c, status s=REGULAR)
  Check the status of a client on a channel.

6.4.1 Detailed Description

Class reprensenting a channel.

This class manage 3 lists of clients : banned, regular (connected to the channel including operators) and operator clients.

6.4.2 Constructor & Destructor Documentation

6.4.2.1 Channel::Channel (const QString & *name*)

Constructor.

Parameters

name	: Name of the channel.

6.4.3 Member Function Documentation

6.4.3.1 void Channel::addClient (Client * *c*, status *s* = REGULAR)

Allows to add and/or set the status of a client on the channel.

Parameters

c	: The address of the client you want to add and or change the status on the channel.
s	: The status you want to give to the client you are adding.

Returns

void.

6.4.3.2 QString & Channel::getChannelName (void)

Getter of the name of the channel.

Returns

A string containing the name of the channel.

6.4.3.3 std::list< Client * > & Channel::getClientList (status *s* = REGULAR)

Getter of the client lists of the channel.

For example : sampleChannel.getClientList(OPERATOR) returns the operator clients list of the channel.

If no status is given, the getter returns the connected clients list.

Parameters

s	: The client list you want to get

Returns

A list (from STL) containing the adresses of clients depending on the status given in parameter.

6.4.3.4 QString & Channel::getTopic (void)

Getter of the topic of the channel.

Returns

A string containing the topic of the channel.

6.4.3.5 bool Channel::isStatus (Client * c, status s = REGULAR)

Check the status of a client on a channel.

Parameters

c	: The address of the client you want to check the status.
s	: The status you want to check if the client has.

Returns

True if the client c is in the list corresponding to status given, false either.

6.4.3.6 void Channel::removeClient (Client * c)

Remove a client from a channel.

Remove a client from the regular and operator lists if the client is operator on the channel. This function doesn't intend to remove a client from the ban list, if you want to do so, you should use unbanClient().

Parameters

c	: The address of the client you want to remove from the channel.

Returns

void.

6.4.3.7 void Channel::setTopic (const QString & topic)

Set the topic of the channel.

Parameters

topic	: A string containing the topic of the channel.

Returns

void.

6.4.3.8 void Channel::unbanClient (Client * c)

Unban a client.

Parameters

c	: The address of the client you want to unban.

Returns

void.

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

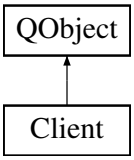
- channel.h
- channel.cpp

6.5 Client Class Reference

Class representing a Client connected to the server. This class inherits from QObjet to use slots and signals.

`#include <client.h>`

Inheritance diagram for Client:



Public Slots

- void onDisconnection (void)

  Remove the client from the server list of clients when it has left the server. SLOT connected to SIGNAL disconnected() of the QTcpSocket attribute.
- void onDataReady ()

Public Member Functions

- Client (QTcpSocket ∗socket, QObject ∗parent)

  Constructor.
- ∼Client ()

  Destructeur Frees up the memory allocated for the attribute m_socket.
- void setNickname (const QString &nickname)
- void setSocket (QTcpSocket ∗socket)
- void setState (bool state)
- QTcpSocket ∗ getSocket (void) const
- QString getNickname (void) const
- QString getMsg (void) const
- void setMsg (const QString &msg)
- bool getState (void) const

6.5.1 Detailed Description

Class representing a Client connected to the server. This class inherits from QObjet to use slots and signals.

6.5.2 Constructor & Destructor Documentation

6.5.2.1 Client::Client (QTcpSocket * *socket,* QObject * *parent*)

Constructor.

Parameters

socket	: the socket used to communicate with the server. Given by the server.
parent	: The adress of the Server instance. The client is binded to the server, when the server shuts down, the client is destroyed regularly by the application. It prevents problems like memory leak.

6.5.3 Member Function Documentation

6.5.3.1 QString Client::getMsg (void) const

Get the current message held by the client.

Returns

A QString containing the current message held by the client.

6.5.3.2 QString Client::getNickname (void) const

Get the nickname of the client

Returns

A QString containing the nickname of the client.

6.5.3.3 QTcpSocket * Client::getSocket (void) const

Get the socket used by the client to communicate with the server.

Returns

The address of the socket used by the client to communicate with the server.

6.5.3.4 bool Client::getState (void) const

Get the current state of the client

Returns

A boolean containing true if the client has a nickname, false either.

6.5.3.5 void Client::onDataReady ( ) [slot]

data sent by the client program corresponding.

Read and execute a command sent by the client program corresponding to the instance of the client. SLOT connected to SIGNAL readyRead() of the QTcpSocket attribute.

6.5.3.6 void Client::setMsg (const QString & *msg*)

Set the message of the client.

Parameters

msg	: A QString depicting the result of the last command sent by the client.

6.5.3.7 void Client::setNickname (const QString & *nickname*)

Set the nickname of the client.

Parameters

nickname	: A QString containing the new nickname for the client.

6.5.3.8 void Client::setSocket (QTcpSocket * *socket*)

Set the socket of the client.

Parameters

socket	: A QTcpSocket pointer containing the address of the QTcpSocket for the client.

6.5.3.9 void Client::setState (bool *state*)

Set the state of the client.

Parameters

state	: A boolean containing the new state of the client depending on wether it has set is nickname(true) or not(false).

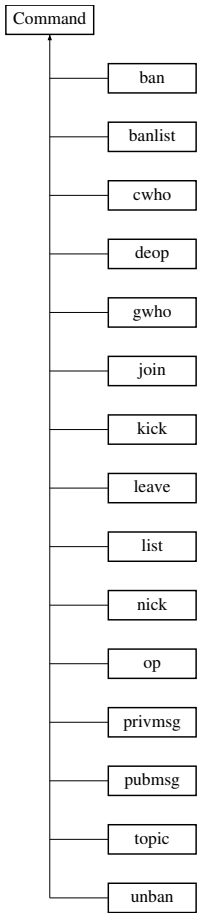
The documentation for this class was generated from the following files:

- client.h
- client.cpp

6.6 Command Class Reference

Class representing an abstract command.

Inheritance diagram for Command:



Public Member Functions

- virtual quint8 **execute** ()=0
- virtual quint8 **verify** ()=0

Static Public Member Functions

- static Command * getCommand (Client *c, Frame &frame)

  Get a parameterized command object from a raw Frame object.

Protected Member Functions

- Command ()

  Constructor.

6.6.1 Detailed Description

Class representing an abstract command.

This class encapsulate a request as an object. It uses the pattern Command.

6.6.2 Member Function Documentation

6.6.2.1 Command * Command::getCommand (Client * *c*, Frame & *frame*) [static]

Get a parameterized command object from a raw Frame object.

This method uses the parameters and the command id code contained in the Frame object to return a specialized command (inherited from Command) and parameterized correctly, ready to be self verified and executed.

Parameters

c	: The client who requests the Command object.
frame	: The frame providing all the informations to instantiate the right Command object well parameterized.

Returns

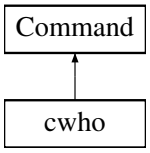
A pointer on the Command object parameterized according to the Frame object.

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

- command.h
- command.cpp

6.7 cwho Class Reference

Inheritance diagram for cwho:



Public Member Functions

- cwho (Client *sender, Frame &frame)

  Constructor.
- virtual quint8 verify ()

  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.7.1 Constructor & Destructor Documentation

6.7.1.1 cwho::cwho (Client * *sender*, Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.7.2 Member Function Documentation

6.7.2.1 quint8 cwho::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method check wether one argument is missing or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::esuccess if the command is valid.

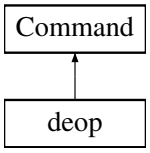
Implements Command.

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

- command.h
- command.cpp

6.8 deop Class Reference

Inheritance diagram for deop:



Public Member Functions

- deop (Client ∗sender, Frame &frame)
  Constructor.
- virtual quint8 verify ()
  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.8.1 Constructor & Destructor Documentation

6.8.1.1 deop::deop (Client ∗ *sender,* Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.8.2 Member Function Documentation

6.8.2.1 quint8 deop::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method check wether one argument is missing or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::esuccess if the command is valid.

Implements Command.

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

- command.h
- command.cpp

6.9 Frame Class Reference

Public Member Functions

- **Frame** (QByteArray &data)
- quint16 **getSize** (void) const
- quint16 **getId** (void) const
- quint8 **getCode** (void) const
- QStringList **getArgList** (void) const
- quint16 **getNbArg** (void) const
- void **debug** (void) const

Static Public Member Functions

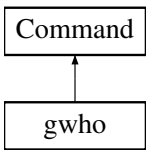
- static QByteArray **getReadyToSendFrame** (QString data, quint16 id, quint8 code)

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

- frame.h
- frame.cpp

6.10 gwho Class Reference

Inheritance diagram for gwho:



Public Member Functions

- gwho (Client *sender, Frame &frame)

  Constructor.
- virtual quint8 verify ()

  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.10.1 Constructor & Destructor Documentation

6.10.1.1 gwho::gwho (Client * *sender,* Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.10.2 Member Function Documentation

6.10.2.1 quint8 gwho::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method begin to check if one argument is missing and then check wether the regex given is valid or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::eBadArg if the regex given isn't valid, ERROR::esuccess if the command is valid.

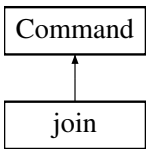
Implements Command.

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

- command.h
- command.cpp

6.11 join Class Reference

Inheritance diagram for join:



Public Member Functions

- join (Client *sender, Frame &frame)

  Constructor.
- virtual quint8 verify ()

  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.11.1 Constructor & Destructor Documentation

6.11.1.1 join::join (Client * *sender*, Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.11.2 Member Function Documentation

6.11.2.1 quint8 join::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method begin to check if one argument is missing and then check wether the channel name given is valid or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::eBadArg if the channel name given isn't valid, ERROR::esuccess if the command is valid.

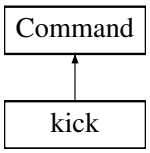
Implements Command.

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

- command.h
- command.cpp

6.12 kick Class Reference

Inheritance diagram for kick:



Public Member Functions

- kick (Client *sender, Frame &frame)

  Constructor.
- virtual quint8 verify ()

  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.12.1 Constructor & Destructor Documentation

6.12.1.1 kick::kick (Client * *sender,* Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.12.2 Member Function Documentation

6.12.2.1 quint8 kick::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method check wether one argument is missing or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::esuccess if the command is valid.

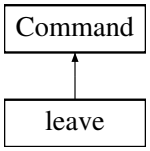
Implements Command.

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

- command.h
- command.cpp

6.13 leave Class Reference

Inheritance diagram for leave:



Public Member Functions

- leave (Client *sender, Frame &frame)

  Constructor.
- virtual quint8 verify ()

  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.13.1 Constructor & Destructor Documentation

6.13.1.1 leave::leave (Client * *sender,* Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.13.2 Member Function Documentation

6.13.2.1 quint8 leave::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method check wether one argument is missing or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::esuccess if the command is valid.

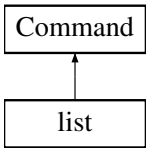
Implements Command.

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

- command.h
- command.cpp

6.14 list Class Reference

Inheritance diagram for list:



Public Member Functions

- list (Client *sender, Frame &frame)

  Constructor.
- virtual quint8 verify ()

  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.14.1 Constructor & Destructor Documentation

6.14.1.1 list::list (Client * *sender,* Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.14.2 Member Function Documentation

6.14.2.1 quint8 list::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method begin to check if one argument is missing and then check wether the regex given is valid or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::eBadArg if the regex given isn't valid, ERROR::esuccess if the command is valid.

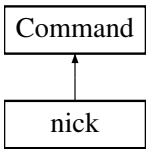
Implements Command.

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

- command.h
- command.cpp

6.15 nick Class Reference

Inheritance diagram for nick:



Public Member Functions

- nick (Client ∗sender, Frame &frame)

  Constructor.
- virtual quint8 verify ()

  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.15.1 Constructor & Destructor Documentation

6.15.1.1 nick::nick (Client ∗ *sender,* Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.15.2 Member Function Documentation

6.15.2.1 quint8 nick::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method begin to check if one argument is missing and then check wether the nickname given is valid or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::eBadArg if the nickname given isn't valid, ERROR::esuccess if the command is valid.

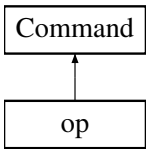
Implements Command.

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

- command.h
- command.cpp

6.16 op Class Reference

Inheritance diagram for op:



Public Member Functions

- op (Client *sender, Frame &frame)
  Constructor.
- virtual quint8 verify ()
  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.16.1 Constructor & Destructor Documentation

6.16.1.1 op::op (Client * *sender,* Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.16.2 Member Function Documentation

6.16.2.1 quint8 op::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method check wether one argument is missing or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::esuccess if the command is valid.

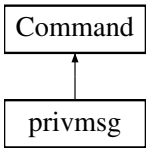
Implements Command.

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

- command.h
- command.cpp

6.17 privmsg Class Reference

Inheritance diagram for privmsg:



Public Member Functions

- privmsg (Client *sender, Frame &frame)

  Constructor.
- virtual quint8 verify ()

  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.17.1 Constructor & Destructor Documentation

6.17.1.1 privmsg::privmsg (Client * *sender,* Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.17.2 Member Function Documentation

6.17.2.1 quint8 privmsg::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method check wether one argument is missing or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::esuccess if the command is valid.

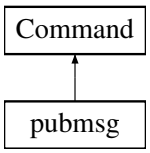
Implements Command.

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

- command.h
- command.cpp

6.18 pubmsg Class Reference

Inheritance diagram for pubmsg:



Public Member Functions

- pubmsg (Client *sender, Frame &frame)
  Constructor.
- virtual quint8 verify ()
  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.18.1 Constructor & Destructor Documentation

6.18.1.1 pubmsg::pubmsg (Client * *sender,* Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.18.2 Member Function Documentation

6.18.2.1 quint8 pubmsg::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method check wether one argument is missing or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::esuccess if the command is valid.

Implements Command.

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

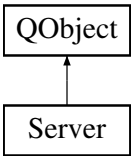
- command.h
- command.cpp

6.19 Server Class Reference

Class defining the Server. This class inherits from QObjet to use slots and signals. This class uses the pattern Singleton.

`#include <server.h>`

Inheritance diagram for Server:



Public Slots

- void **onNewConnection** (void)

Public Member Functions

- void **delClient** (Client ∗c)
- Channel ∗ **getChannelFromName** (QString &name)
- Client ∗ **getClientFromName** (QString &name)
- quint8 **nick** (Client ∗c, QString &nickname)
- quint8 **privmsg** (Client ∗c, QString &dest, QString &message)
- quint8 **pubmsg** (Client ∗c, QString &dest, QString &message)
- quint8 **join** (Client ∗c, QString &dest)
- quint8 **leave** (Client ∗c, QString &dest)
- quint8 **list** (Client ∗c, QString &filter)
- quint8 **topic** (Client ∗c, QString &dest, QString &topic)
- quint8 **gwho** (Client ∗c, QString &filter)
- quint8 **cwho** (Client ∗c, QString &dest)
- quint8 **kick** (Client ∗c, QString &dest_channel, QString &dest_client)
- quint8 **ban** (Client ∗c, QString &dest_channel, QString &dest_client)
- quint8 **unban** (Client ∗c, QString &dest_channel, QString &dest_client)
- quint8 **banlist** (Client ∗c, QString &dest_channel)
- quint8 **op** (Client ∗c, QString &dest_channel, QString &dest_client)
- quint8 **deop** (Client ∗c, QString &dest_channel, QString &dest_client)

Static Public Member Functions

- static Server ∗ **Instance** ()

Protected Member Functions

- **Server** (QObject ∗parent=0)
- void **broadCast** (QString &message, quint16 id, quint8 code, Channel ∗chan=NULL, Client ∗sender=NULL)

6.19.1 Detailed Description

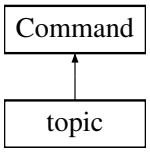
Class defining the Server. This class inherits from QObjet to use slots and signals. This class uses the pattern Singleton.

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

- server.h
- server.cpp

6.20 topic Class Reference

Inheritance diagram for topic:



Public Member Functions

- topic (Client ∗sender, Frame &frame)

  Constructor.
- virtual quint8 verify ()

  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.20.1 Constructor & Destructor Documentation

6.20.1.1 topic::topic (Client ∗ *sender,* Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.20.2 Member Function Documentation

6.20.2.1 quint8 topic::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method check wether one argument is missing or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::esuccess if the command is valid.

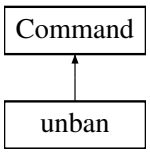
Implements Command.

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

- command.h
- command.cpp

6.21 unban Class Reference

Inheritance diagram for unban:



Public Member Functions

- unban (Client *sender, Frame &frame)
  Constructor.
- virtual quint8 verify ()
  Check the validity of the command according to the parameters contained in the frame given to the construcor.
- virtual quint8 **execute** ()

Additional Inherited Members

6.21.1 Constructor & Destructor Documentation

6.21.1.1 unban::unban (Client * *sender,* Frame & *frame*)

Constructor.

Parameters

sender	: A pointer on the client who requests the Command object.
frame	: The frame providing all the informations to parameterized the command.

6.21.2 Member Function Documentation

6.21.2.1 quint8 unban::verify ( ) [virtual]

Check the validity of the command according to the parameters contained in the frame given to the construcor.

The method check wether one argument is missing or not.

Returns

ERROR::eMissingArg if an argument is missing, ERROR::esuccess if the command is valid.

Implements Command.

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

- command.h
- command.cpp

Chapter 7

File Documentation

7.1 bdPlatformLog.h File Reference

A (nice) logging class.

```
#include <stdarg.h>
#include <stdio.h>
```

Classes

- class bdPlatformLog

  The bdPlatformLog class.

Enumerations

- enum _LogLevel { _NONE, _WARNING, _ERROR, _DEBUG }

7.1.1 Detailed Description

A (nice) logging class.

Author

Victorien MOLLE

Version

0.1

7.1.2 Enumeration Type Documentation

7.1.2.1 enum _LogLevel

Enumerator

_NONE Defines a 'none' level.

_WARNING Defines a 'warning' level.

_ERROR Defines an 'error' level.

_DEBUG Defines a 'debug' level.

7.2 channel.h File Reference

This file gathers tools to manage clients inside channels.

```
#include <list>
#include <iostream>
#include "client.h"
```

Classes

- class Channel

  Class reprensenting a channel.

Enumerations

- enum status { BANNED, REGULAR, OPERATOR }

  Status of a client on the channel.

7.2.1 Detailed Description

This file gathers tools to manage clients inside channels.

Author

yann feunteun

7.2.2 Enumeration Type Documentation

7.2.2.1 enum status

Status of a client on the channel.

Enumerator

BANNED Client is banned of the channel

REGULAR Client is connected to the channel

OPERATOR Client is operator on the channel note that it means the client is also connected to the channel

7.3 client.h File Reference

This file gathers informations on a client connected to the server using a TCP connection.

```
#include <QTcpSocket>
```

Classes

- class Client

  Class representing a Client connected to the server. This class inherits from QObjet to use slots and signals.

7.3.1 Detailed Description

This file gathers informations on a client connected to the server using a TCP connection.

Author

yann feunteun

7.4 command.h File Reference

File containing the declaration of the commands.

```
#include "server.h"
#include "frame.h"
```

Classes

- class Command

  Class representing an abstract command.
- class nick
- class privmsg
- class pubmsg
- class join
- class leave
- class list
- class topic
- class gwho
- class cwho
- class kick
- class ban
- class unban
- class banlist
- class op
- class deop

Namespaces

- namespace ERROR
- namespace CMD

Enumerations

- enum {
  ERROR::esuccess = 0, ERROR::eBadArg = 250, ERROR::eNickCollision, ERROR::eNotAuthorised,
  ERROR::eMissingArg, ERROR::eNotExist, ERROR::error }
- enum {
  CMD::C_PRIVMSG = 1, CMD::C_PUBMSG, CMD::C_GWHO, CMD::C_CWHO,
  CMD::C_LIST, CMD::C_TOPIC, CMD::C_KICK, CMD::C_BAN,
  CMD::C_OP, CMD::C_DEOP = 20, CMD::C_JOIN, CMD::C_NICK,
  CMD::C_LEAVE, CMD::C_UNBAN, CMD::C_BANLIST }

7.4.1 Detailed Description

File containing the declaration of the commands.

Author

yann feunteun

7.5 server.h File Reference

IRC Server Near-IRC server : A simplified IRC server not in accordance with RFC 1459.

```
#include <QTcpServer>
#include <list>
#include "client.h"
#include "channel.h"
```

Classes

- class Server

  Class defining the Server. This class inherits from QObjet to use slots and signals. This class uses the pattern Singleton.

7.5.1 Detailed Description

IRC Server Near-IRC server : A simplified IRC server not in accordance with RFC 1459.

Author

yann feunteun

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