E-Classroom Display Server

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Chapter 1

E-Classroom Display server

Author

Rick Ovehorst, Gerjon Eilander & Gerben van 't Ooster

Version

1.0

1.1 Introduction

This server program sends schedule data from the Windesheim's systems to the modules upon request.

1.2 Using the software

1.2.1 neccesary packages

The packages that are neccesary, can be optained by using folowing commands :

```
sudo apt-get install libmysqlclient-dev
sudo apt-get install libcurl4-nss-dev
sudo apt-get install libjsoncpp-nss-dev
sudo apt-get install mysql-server
sudo apt-get install mysql-client
```

Packages neccesary for compiling:

```
sudo apt-get install gcc
sudo apt-get install make
```

1.2.2 Running the software

To run the software use the following command: sudo bin/server <ip> <port>

Chapter 2

Class Index

2.1 Class List

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

CurlHandler 7
ECDH 14
MysqlHandler 15
Server 18

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

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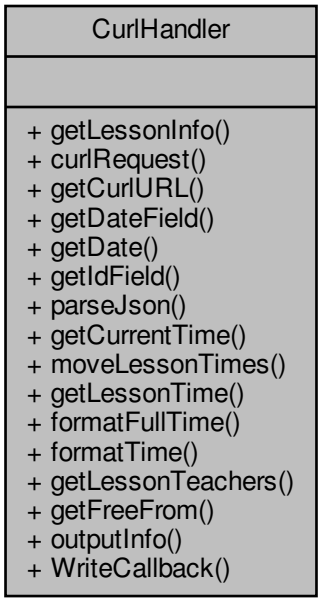
Chapter 4

Class Documentation

4.1 CurlHandler Class Reference

`#include <CurlHandler.h>`

Collaboration diagram for CurlHandler:



Public Member Functions

- char * getLessonInfo (int classId)

  This function retrieves & parses json.

- std::string curlRequest (int ID)
  This function requests Room data from roostertest.windesheim.nl by RoomID.
- std::string getCurlURL (int ID)
  This function creates the curl request URL with Date & RoomID.
- std::string getDateField ()
  This function creates Date part of the curl request URL.
- std::string getDate ()
  This function returns current date.
- std::string getIdField (int ID)
  This function creates RoomID part of the curl request URL.
- void parseJson (std::string *buffer)
  This function parses json and saves lesson data.
- int getCurrentTime ()
  This function returns current time.
- void moveLessonTimes (int lesson)
  This function movesLessonTimes.
- std::string getLessonTime (Json::Value obj, int lessonId, int lesson)
  This function gets the endTime of a lesson and returns lessontime.
- std::string formatFullTime (std::string startTime, std::string endTime)
  This function merges startTime & endTime String into single formatted string.
- std::string formatTime (std::string time)
  This function adds : to time string HHMM -> HH:MM.
- std::string getLessonTeachers (Json::Value obj, int i)
  This function gets the teachers from a lesson.
- void getFreeFrom ()
  This function calculates when the room is free.
- char * outputInfo ()
  Outputs Lesson info in used format.

Static Public Member Functions

- static size_t WriteCallback (void *contents, size_t size, size_t nmemb, void *userp)
  This function is used by curlRequest as WriteCallback.

4.1.1 Member Function Documentation

4.1.1.1 curlRequest()

```
std::string CurlHandler::curlRequest (
            int ID )
```

This function requests Room data from roostertest.windesheim.nl by RoomID.

Returns

none

Note

needs a pointer to a string buffer & RoomID int

4.1.1.2 formatFullTime()

```
std::string CurlHandler::formatFullTime (
            std::string startTime,
            std::string endTime )
```

This function merges startTime & endTime String into single formatted string.

Returns

String with lesson times in following format: HH:MM - HH:MM

Note

4.1.1.3 formatTime()

```
std::string CurlHandler::formatTime (
            std::string time )
```

This function adds : to time string HHMM -> HH:MM.

Returns

String with times in following format: HH:MM

Note

4.1.1.4 getCurlURL()

```
std::string CurlHandler::getCurlURL (
            int ID )
```

This function creates the curl request URL with Date & RoomID.

Returns

String of URL

Note

Needs a RoomID

4.1.1.5 getCurrentTime()

```
int CurlHandler::getCurrentTime ( )
```

This function returns current time.

Returns

int with hour and minutes in following format: HHMM

Note

4.1.1.6 getDate()

```
std::string CurlHandler::getDate ( )
```

This function returns current date.

Returns

String with date in following format: YYYYMMDD

Note

4.1.1.7 getDateField()

```
std::string CurlHandler::getDateField ( )
```

This function creates Date part of the curl request URL.

Returns

String with date in following format: data=YYYYMMDD&

Note

4.1.1.8 getFreeFrom()

```
void CurlHandler::getFreeFrom ( )
```

This function calculates when the room is free.

Returns

none

Note

sets the freeFrom String

4.1.1.9 getIdField()

```
std::string CurlHandler::getIdField (
            int ID )
```

This function creates RoomID part of the curl request URL.

Returns

String with RoomID in following format: elementId=RoomID.

Note

Needs a RoomID

4.1.1.10 getLessonInfo()

```
char * CurlHandler::getLessonInfo (
            int classID )
```

This function retrieves & parses json.

Returns

none

Note

4.1.1.11 getLessonTeachers()

```
std::string CurlHandler::getLessonTeachers (
            Json::Value obj,
            int i )
```

This function gets the teachers from a lesson.

Returns

String with teacher(s) of a lesson

Note

4.1.1.12 getLessonTime()

```
std::string CurlHandler::getLessonTime (
            Json::Value obj,
            int lessonId,
            int lesson )
```

This function gets the endTime of a lesson and returns lessontime.

Returns

String with lesson times in following format: HH:MM - HH:MM

Note

4.1.1.13 moveLessonTimes()

```
void CurlHandler::moveLessonTimes (
            int lesson )
```

This function movesLessonTimes.

Returns

None

Note

moves until given lesson;

4.1.1.14 outputInfo()

```
char * CurlHandler::outputInfo ( )
```

Outputs Lesson info in used format.

Returns

none

Note

4.1.1.15 parseJson()

```
void CurlHandler::parseJson (
            std::string * buffer )
```

This function parses json and saves lesson data.

Returns

none

Note

4.1.1.16 WriteCallback()

```
size_t CurlHandler::WriteCallback (
            void * contents,
            size_t size,
            size_t nmemb,
            void * userp )  [static]
```

This function is used by curlRequest as WriteCallback.

Returns

Note

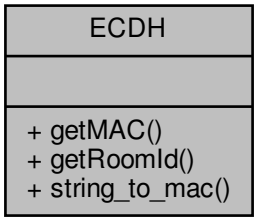
The documentation for this class was generated from the following files:

- /home/rso16/projects/ECDS/src/CurlHandler/CurlHandler.h
- /home/rso16/projects/ECDS/src/CurlHandler/CurlHandler.cpp

4.2 ECDH Class Reference

`#include <ECDH.h>`

Collaboration diagram for ECDH:



Public Member Functions

- uint64_t getMAC (char ∗serverRequest)

  This Function gets the MAC-address from the server request and changes it to an int (the way the MAC-address is stored in the db).
- int getRoomId (uint64_t MAC)

  Gets the room id from the db.
- uint64_t string_to_mac (std::string const &s)

  This Function turns the MAC-address into an int (the way the MAC-address is stored in the db).

4.2.1 Member Function Documentation

4.2.1.1 getMAC()

```
uint64_t ECDH::getMAC (
            char * serverRequest )
```

This Function gets the MAC-address from the server request and changes it to an int (the way the MAC-address is stored in the db).

Returns

The MAC-address in database form.

Author

Rick Overhorst

4.2.1.2 getRoomId()

```
int ECDH::getRoomId (
            uint64_t MAC )
```

Gets the room id from the db.

Returns

The room Id.

Author

Rick Overhorst

4.2.1.3 string_to_mac()

```
uint64_t ECDH::string_to_mac (
            std::string const & s )
```

This Function turns the MAC-address into an int (the way the MAC-address is stored in the db).

Returns

The MAC-address in database form.

Author

Maxim Egorushkin

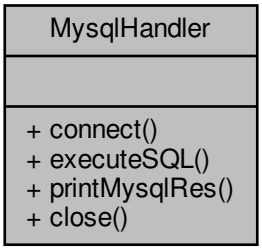
The documentation for this class was generated from the following files:

- /home/rso16/projects/ECDS/src/ECDH/ECDH.h
- /home/rso16/projects/ECDS/src/ECDH/ECDH.cpp

4.3 MysqlHandler Class Reference

```
#include <MysqlHandler.h>
```

Collaboration diagram for MysqlHandler:



Public Member Functions

- int connect (char *server, char *user, char *pass, char *db_name)
  connects to the db-server.
- MYSQL_RES executeSQL (char *sql)
  Executes the SQL query.
- int printMysqlRes (MYSQL_RES *res_set)
  Prints the result of the query.
- int close ()
  closes the connection with the db-server

4.3.1 Member Function Documentation

4.3.1.1 close()

```
int MysqlHandler::close ( )
```

closes the connection with the db-server

Returns

1

Warning

Error checking not yet added!

Author

Rick Overhorst

4.3.1.2 connect()

```
int MysqlHandler::connect (
            char * server,
            char * user,
            char * pass,
            char * db_name )
```

connects to the db-server.

Returns

1 if succesfull, -1 if the initialization failed & -2 if connection failed.

Author

Rick Overhorst

4.3.1.3 executeSQL()

```
MYSQL_RES MysqlHandler::executeSQL (
            char * sql )
```

Executes the SQL query.

Returns

The Results of the query.

Author

Rick Overhorst

4.3.1.4 printMysqlRes()

```
int MysqlHandler::printMysqlRes (
            MYSQL_RES * res_set )
```

Prints the result of the query.

Returns

1

Warning

Error checking not yet added!

Author

Rick Overhorst

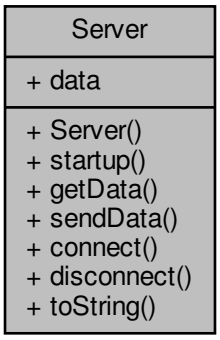
The documentation for this class was generated from the following files:

- /home/rso16/projects/ECDS/src/MysqlHandler/MysqlHandler.h
- /home/rso16/projects/ECDS/src/MysqlHandler/MysqlHandler.cpp

4.4 Server Class Reference

`#include <Server.h>`

Collaboration diagram for Server:



Public Member Functions

- Server (int port=80, char *ip_addr=(char *) "localhost")
- void startup ()
- char * getData ()
- void sendData (char *data)
- void connect ()
- void disconnect ()
- char * toString ()

Public Attributes

- char data [100]

4.4.1 Constructor & Destructor Documentation

4.4.1.1 Server()

```
Server::Server (
            int port = 80,
            char * ip_addr = (char *) "localhost" )
```

4.4.2 Member Function Documentation

4.4.2.1 connect()

```
void Server::connect ( )
```

4.4.2.2 disconnect()

```
void Server::disconnect ( )
```

4.4.2.3 getData()

```
char * Server::getData ( )
```

4.4.2.4 sendData()

```
void Server::sendData (
            char * data )
```

4.4.2.5 startup()

```
void Server::startup ( )
```

4.4.2.6 toString()

```
char * Server::toString ( )
```

4.4.3 Member Data Documentation

4.4.3.1 data

```
char Server::data[100]
```

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

- /home/rso16/projects/ECDS/src/Server/Server.h
- /home/rso16/projects/ECDS/src/Server/Server.cpp

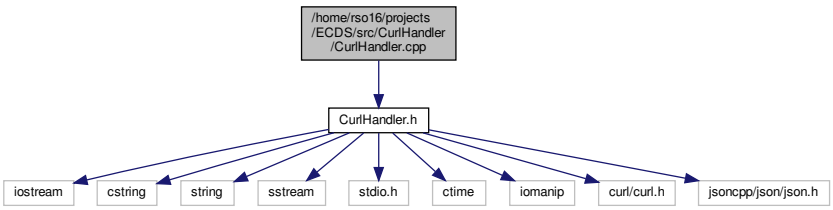
Chapter 5

File Documentation

5.1 /home/rso16/projects/ECDS/src/CurlHandler/CurlHandler.cpp File Reference

```
#include "CurlHandler.h"
```

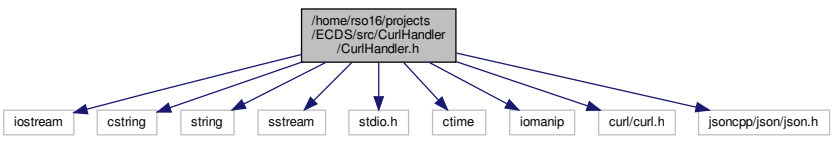
Include dependency graph for CurlHandler.cpp:



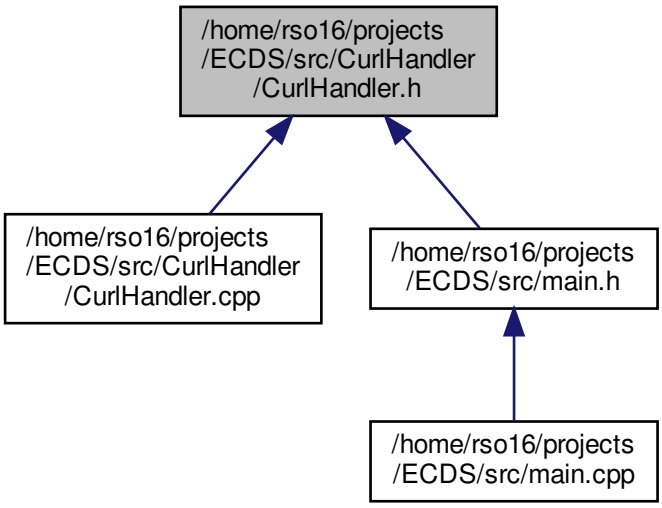
5.2 /home/rso16/projects/ECDS/src/CurlHandler/CurlHandler.h File Reference

```
#include <iostream>
#include <cstring>
#include <string>
#include <sstream>
#include <stdio.h>
#include <ctime>
#include <iomanip>
#include <curl/curl.h>
#include <jsoncpp/json/json.h>
```

Include dependency graph for CurlHandler.h:



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



Classes

- class CurlHandler

Macros

- #define BUFFER_SIZE 500

Variables

- const std::string BaseURL = "https://roostertest.windesheim.nl/WebUntis/Timetable.do?request.prevent↩ Cache=1543327601812&"
- const std::string RequestClassData = "ajaxCommand=getWeeklyTimetable&elementType=4&department↩ Id=0&filterId=2&"

5.2.1 Macro Definition Documentation

5.2.1.1 BUFFER_SIZE

```
#define BUFFER_SIZE 500
```

5.2.2 Variable Documentation

5.2.2.1 BaseURL

```
const std::string BaseURL = "https://roostertest.windesheim.nl/WebUntis/Timetable.do?request.↩
preventCache=1543327601812&"
```

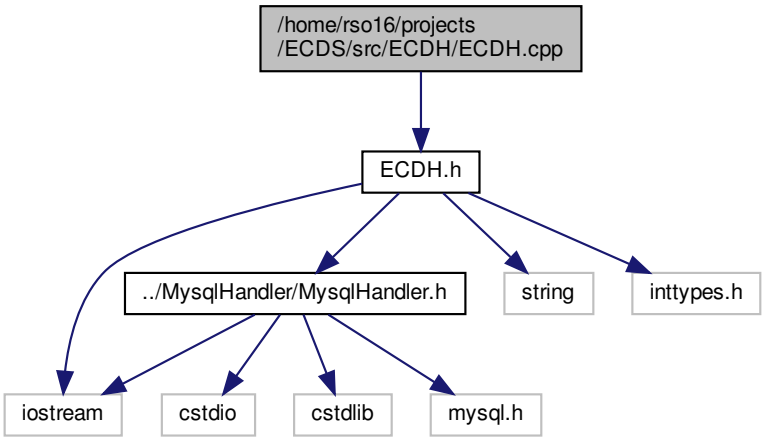
5.2.2.2 RequestClassData

```
const std::string RequestClassData = "ajaxCommand=getWeeklyTimetable&elementType=4&department↩
Id=0&filterId=2&"
```

5.3 /home/rso16/projects/ECDS/src/ECDH/ECDH.cpp File Reference

```
#include "ECDH.h"
```

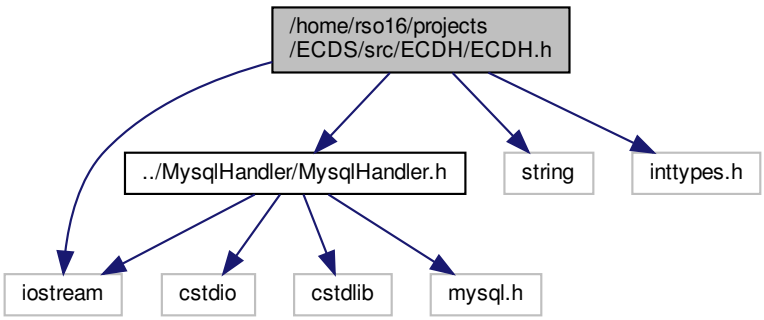
Include dependency graph for ECDH.cpp:



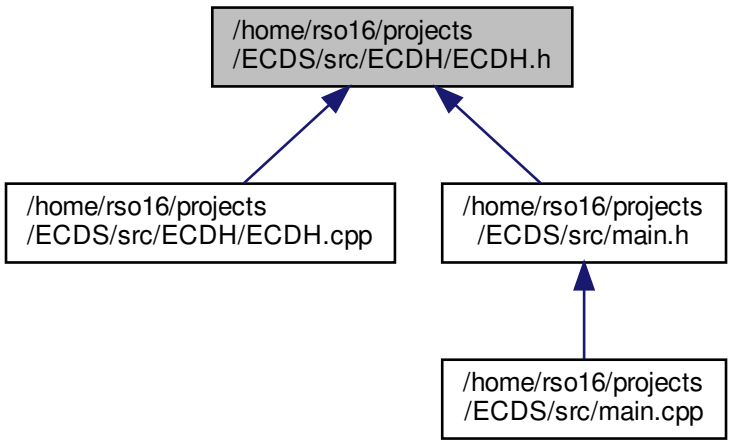
5.4 /home/rso16/projects/ECDS/src/ECDH/ECDH.h File Reference

```
#include "../MysqlHandler/MysqlHandler.h"
#include <iostream>
#include <string>
#include <inttypes.h>
```

Include dependency graph for ECDH.h:



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



Classes

- class ECDH

Macros

- #define BEGIN_OF_MAC 0
- #define MAC_SIZE 17
- #define SQL_SIZE 53
- #define SQL_STM "select RID from Boards where MAC = "
- #define __STDC_FORMAT_MACROS
- #define PI_BOX 0
- #define U_BOX 1
- #define BOX U_BOX
- #define SERVER "localhost"
- #define USER "root"
- #define PASSWORD ""
- #define DATABASE "windesheim"

5.4.1 Macro Definition Documentation

5.4.1.1 __STDC_FORMAT_MACROS

```
#define __STDC_FORMAT_MACROS
```

5.4.1.2 BEGIN_OF_MAC

```
#define BEGIN_OF_MAC 0
```

5.4.1.3 BOX

```
#define BOX U_BOX
```

5.4.1.4 DATABASE

```
#define DATABASE "windesheim"
```

5.4.1.5 MAC_SIZE

```
#define MAC_SIZE 17
```

5.4.1.6 PASSWORD

```
#define PASSWORD ""
```

5.4.1.7 PI_BOX

```
#define PI_BOX 0
```

5.4.1.8 SERVER

```
#define SERVER "localhost"
```

5.4.1.9 SQL_SIZE

```
#define SQL_SIZE 53
```

5.4.1.10 SQL_STM

```
#define SQL_STM "select RID from Boards where MAC = "
```

5.4.1.11 U_BOX

```
#define U_BOX 1
```

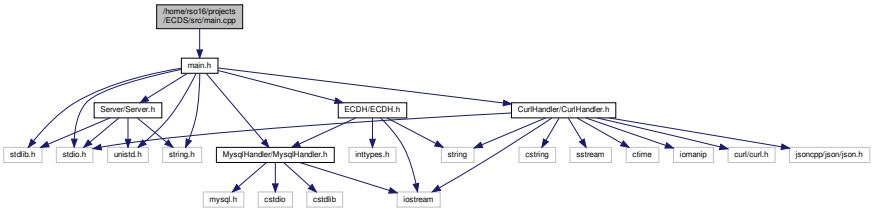
5.4.1.12 USER

```
#define USER "root"
```

5.5 /home/rso16/projects/ECDS/src/main.cpp File Reference

```
#include "main.h"
```

Include dependency graph for main.cpp:



Functions

- int main (int argc, const char ∗argv[ ])

5.5.1 Function Documentation

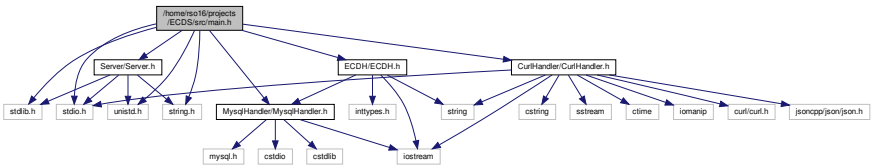
5.5.1.1 main()

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

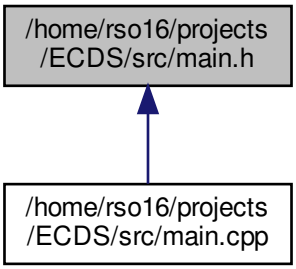
5.6 /home/rso16/projects/ECDS/src/main.h File Reference

```
#include <stdio.h>
#include "Server/Server.h"
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#include "MysqlHandler/MysqlHandler.h"
#include "ECDH/ECDH.h"
#include "CurlHandler/CurlHandler.h"
```

Include dependency graph for main.h:



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



Functions

- int main (int argc, const char ∗argv[ ])

Variables

- MysqlHandler mHandler
- ECDH eHandler
- Server server
- CurlHandler cHandler

5.6.1 Function Documentation

5.6.1.1 main()

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

5.6.2 Variable Documentation

5.6.2.1 cHandler

```
CurlHandler cHandler
```

5.6.2.2 eHandler

```
ECDH eHandler
```

5.6.2.3 mHandler

```
MysqlHandler mHandler
```

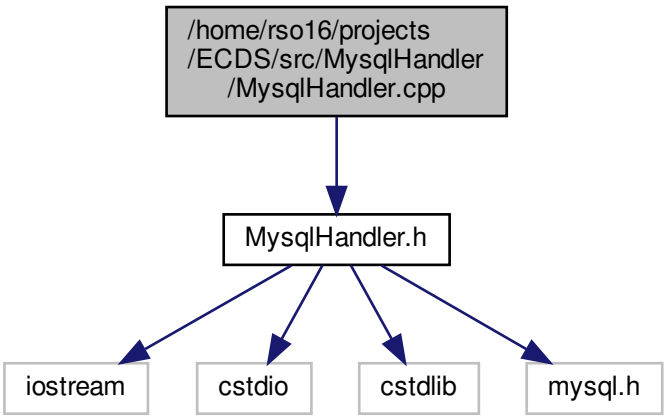
5.6.2.4 server

```
Server server
```

5.7 /home/rso16/projects/ECDS/src/MysqlHandler/MysqlHandler.cpp File Reference

```
#include "MysqlHandler.h"
```

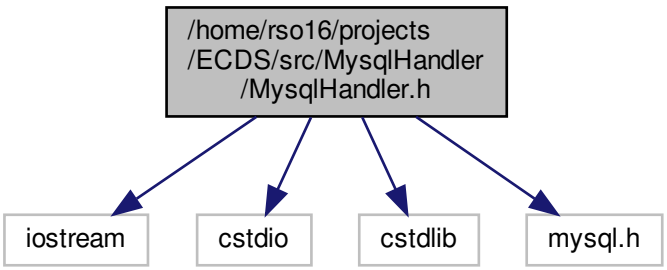
Include dependency graph for MysqlHandler.cpp:



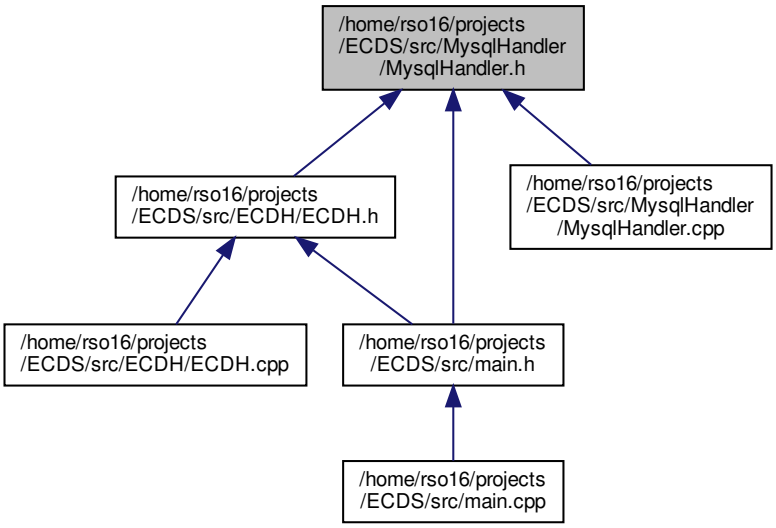
5.8 /home/rso16/projects/ECDS/src/MysqlHandler/MysqlHandler.h File Reference

```
#include <iostream>
#include <cstdio>
#include <cstdlib>
#include <mysql.h>
```

Include dependency graph for MysqlHandler.h:



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



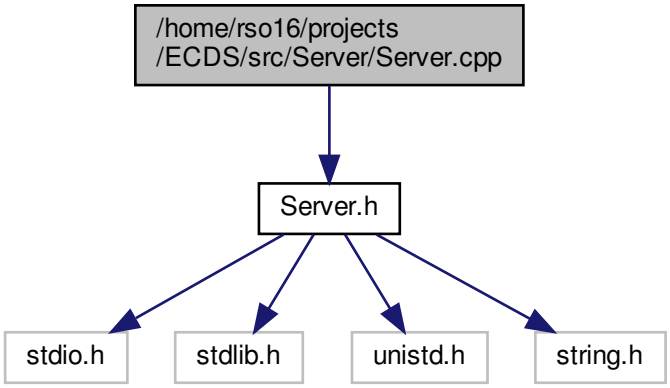
Classes

- class MysqlHandler

5.9 /home/rso16/projects/ECDS/src/Server/Server.cpp File Reference

```
#include "Server.h"
```

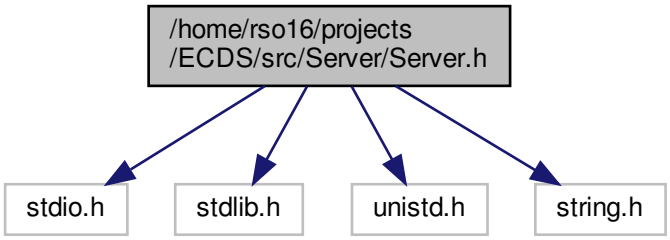
Include dependency graph for Server.cpp:



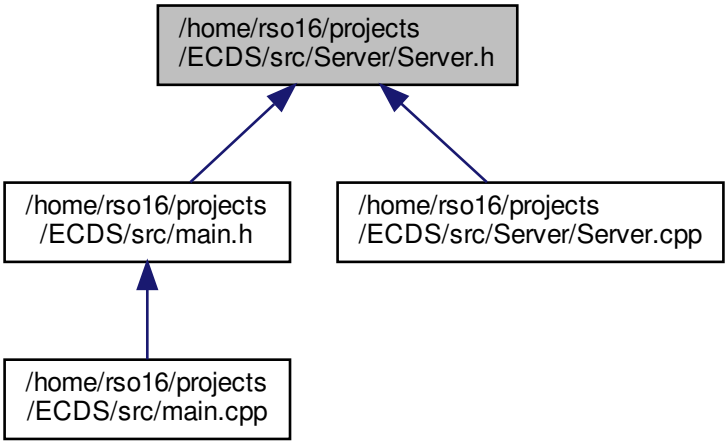
5.10 /home/rso16/projects/ECDS/src/Server/Server.h File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
```

Include dependency graph for Server.h:



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



Classes

- class Server

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