

EA872 Dictionary

0.2

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Contents

Chapter 1

File Index

1.1 File List

Here is a list of all files with brief descriptions:

src/ header.c	??
src/ logger.c	??
src/ main.c	??
src/ parser.c	??
src/ process.c	??
src/ request.c	??
src/ response.c	??
src/ utils.c	??

Chapter 2

File Documentation

2.1 src/header.c File Reference

```
#include "header.h"
#include <string.h>
#include <stdlib.h>
#include <stdio.h>
Include dependency graph for header.c:
```

2.2 src/logger.c File Reference

```
#include "logger.h"
#include "utils.h"
#include <stdlib.h>
Include dependency graph for logger.c:
```

Functions

- Logger [loggerInit](#) ()
- void [logMessage](#) (Logger [logger](#), char *message)
- void [logRequest](#) (Logger [logger](#), Request *request)
- void [logResponse](#) (Logger [logger](#), Response *response)
- void [logError](#) (Logger [logger](#), char *error)
- void [loggerClose](#) (Logger [logger](#))

2.2.1 Function Documentation

2.2.1.1 logError()

```
void logError (
    Logger logger,
    char * error )
```

2.2.1.2 loggerClose()

```
void loggerClose (
    Logger logger )
```

2.2.1.3 loggerInit()

```
Logger loggerInit ( )
```

2.2.1.4 logMessage()

```
void logMessage (
    Logger logger,
    char * message )
```

2.2.1.5 logRequest()

```
void logRequest (
    Logger logger,
    Request * request )
```

2.2.1.6 logResponse()

```
void logResponse (
    Logger logger,
    Response * response )
```

2.3 src/main.c File Reference

```
#include <stdlib.h>
#include <string.h>
#include <sys/socket.h>
#include <sys/types.h>
#include <arpa/inet.h>
#include <unistd.h>
#include <signal.h>
#include "request.h"
#include "response.h"
#include "process.h"
#include "parser.h"
#include "logger.h"
Include dependency graph for main.c:
```


Functions

- void [initServer](#) (unsigned int port)
- void [finishServer](#) (int param)
- Request * [internalServerErrorRequest](#) ()
- int [main](#) (int argc, char **argv)

Variables

- int [socketDesc](#)
- Logger [logger](#)
- int [yydebug](#) =1

2.3.1 Function Documentation

2.3.1.1 finishServer()

```
void finishServer (  
    int param )
```

2.3.1.2 initServer()

```
void initServer (  
    unsigned int port )
```

2.3.1.3 internalServerErrorRequest()

```
Request* internalServerErrorRequest ( )
```

2.3.1.4 main()

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

2.3.2 Variable Documentation

2.3.2.1 logger

```
Logger logger
```

2.3.2.2 socketDesc

```
int socketDesc
```

2.3.2.3 yydebug

```
int yydebug =1
```

2.4 src/parser.c File Reference

```
#include "parser.h"
#include "parserYacc.tab.h"
Include dependency graph for parser.c:
```

Typedefs

- typedef struct yy_buffer_state * [YY_BUFFER_STATE](#)

Functions

- int [yyparse](#) ()
- [YY_BUFFER_STATE yy_scan_string](#) (char *str)
- void [yy_delete_buffer](#) ([YY_BUFFER_STATE](#) buffer)
- Request * [pickRequest](#) ()
- Request * [parseRequest](#) (char *message)

2.4.1 Typedef Documentation

2.4.1.1 YY_BUFFER_STATE

```
typedef struct yy_buffer_state* YY\_BUFFER\_STATE
```

2.4.2 Function Documentation

2.4.2.1 parseRequest()

```
Request* parseRequest (
    char * message )
```

2.4.2.2 pickRequest()

```
Request* pickRequest ( )
```

2.4.2.3 yy_delete_buffer()

```
void yy_delete_buffer (
    YY_BUFFER_STATE buffer )
```

2.4.2.4 yy_scan_string()

```
YY_BUFFER_STATE yy_scan_string (
    char * str )
```

2.4.2.5 yyparse()

```
int yyparse ( )
```

2.5 src/process.c File Reference

```
#include "process.h"
#include <fcntl.h>
#include <string.h>
#include <stdlib.h>
#include <stdio.h>
#include <sys/stat.h>
#include <unistd.h>
#include <time.h>
#include "utils.h"
Include dependency graph for process.c:
```

Functions

- Header * [responseHeader](#) (Request *request, char *lastModified, unsigned int length)
- Response * [responseError](#) (Request *request, unsigned int errorCode)
- Response * [traceRequest](#) (Request *request)
- Response * [optionsRequest](#) (Request *request)
- Response * [getRequest](#) (char *path, Request *request, struct stat resourceStat)
- Response * [headRequest](#) (char *path, Request *request, struct stat resourceStat)
- Response * [processRequest](#) (Request *request)

Variables

- char [basePath](#) [] = "bin/data"

2.5.1 Function Documentation

2.5.1.1 [getRequest\(\)](#)

```
Response* getRequest (
    char * path,
    Request * request,
    struct stat resourceStat )
```

2.5.1.2 [headRequest\(\)](#)

```
Response* headRequest (
    char * path,
    Request * request,
    struct stat resourceStat )
```

2.5.1.3 [optionsRequest\(\)](#)

```
Response* optionsRequest (
    Request * request )
```

2.5.1.4 [processRequest\(\)](#)

```
Response* processRequest (
    Request * request )
```

2.5.1.5 responseError()

```
Response* responseError (
    Request * request,
    unsigned int errorCode )
```

2.5.1.6 responseHeader()

```
Header* responseHeader (
    Request * request,
    char * lastModified,
    unsigned int length )
```

2.5.1.7 traceRequest()

```
Response* traceRequest (
    Request * request )
```

2.5.2 Variable Documentation

2.5.2.1 basePath

```
char basePath[] = "bin/data"
```

2.6 src/request.c File Reference

```
#include "request.h"
#include <stdlib.h>
#include <string.h>
#include <stdio.h>
Include dependency graph for request.c:
```

Functions

- Request * [createRequest](#) (char *type, char *resource, char *httpVersion)
- Request * [addHeaders2Request](#) (Request *request, Header *headersList)
- void [freeRequest](#) (Request *request)
- char * [getRequestType](#) (Request *request)
- char * [printRequest](#) (Request *request)
- char * [findConnection](#) (Request *request)
- Request * [addPayload2Request](#) (Request *request, char *payload)

2.6.1 Function Documentation

2.6.1.1 addHeaders2Request()

```
Request* addHeaders2Request (
    Request * request,
    Header * headersList )
```

2.6.1.2 addPayload2Request()

```
Request* addPayload2Request (
    Request * request,
    char * payload )
```

2.6.1.3 createRequest()

```
Request* createRequest (
    char * type,
    char * resource,
    char * httpVersion )
```

2.6.1.4 findConnection()

```
char* findConnection (
    Request * request )
```

2.6.1.5 freeRequest()

```
void freeRequest (
    Request * request )
```

2.6.1.6 getRequestType()

```
char* getRequestType (
    Request * request )
```

2.6.1.7 printRequest()

```
char* printRequest (
    Request * request )
```

2.7 src/response.c File Reference

```
#include "response.h"
#include <stdlib.h>
#include <stdio.h>
#include <string.h>
Include dependency graph for response.c:
```

Functions

- Response * [createResponse](#) (char *httpVersion, unsigned int httpCode, char *codeText)
- Response * [addHeaders2Response](#) (Response *response, Header *headersList)
- Response * [addPayload2Response](#) (Response *response, char *payload)
- void [freeResponse](#) (Response *response)
- char * [printResponse](#) (Response *response)
- char * [getContentLength](#) (Response *response)

2.7.1 Function Documentation

2.7.1.1 addHeaders2Response()

```
Response* addHeaders2Response (
    Response * response,
    Header * headersList )
```

2.7.1.2 addPayload2Response()

```
Response* addPayload2Response (
    Response * response,
    char * payload )
```

2.7.1.3 createResponse()

```
Response* createResponse (
    char * httpVersion,
    unsigned int httpCode,
    char * codeText )
```

2.7.1.4 freeResponse()

```
void freeResponse (
    Response * response )
```

2.7.1.5 getContentLength()

```
char* getContentLength (
    Response * response )
```

2.7.1.6 printResponse()

```
char* printResponse (
    Response * response )
```

2.8 src/utils.c File Reference

```
#include "utils.h"
#include <stdio.h>
#include <string.h>
Include dependency graph for utils.c:
```

Functions

- char * [getDate](#) (char *fmt)
- char * [getLoggerFileDate](#) ()
- char * [getLoggerDate](#) ()
- char * [getHTTPDate](#) ()

2.8.1 Function Documentation

2.8.1.1 getDate()

```
char* getDate (
    char * fmt )
```


2.8.1.2 getHTTPDate()

```
char* getHTTPDate ( )
```

2.8.1.3 getLoggerDate()

```
char* getLoggerDate ( )
```

2.8.1.4 getLoggerFileDate()

```
char* getLoggerFileDate ( )
```

