Zappy SERVER

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Chapter 1

Class Index

1.1 Class List

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

s_app
s_client s_client !
s_game
s_gui
s_ia (
s_incantation_info
s_inventory
s_list
s_list_node
s_node_data
s_parsing
Struct for parsing the arguments
s_server
s_team
s_time_info
s_vector2i
tile_s
Struct for a map's tile

2 Class Index

Chapter 2

File Index

2.1 File List

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

/home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/parsing.h	16
/home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/rules.h	17
/home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/types.h	19
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/home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/ai/cmd/command_ai.h	12
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File Index

Chapter 3

Class Documentation

3.1 s_app Struct Reference

Collaboration diagram for s_app:

3.2 s_client Struct Reference

Public Attributes

size_t fd

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/server/client.h

3.3 s_game Struct Reference

Collaboration diagram for s_game:

Public Attributes

- size_t height
- size_t width
- tile_t ** map
- struct timeval start
- struct timeval start_food
- int freq

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

 $\bullet \ \ / home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/game/game.h$

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3.4 s_gui Struct Reference

Collaboration diagram for s_gui:

Public Attributes

- size t fd
- list_t * list_messages

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/gui/gui.h

3.5 s ia Struct Reference

Collaboration diagram for s_ia:

Public Attributes

- size_t fd
- list_t * list_command
- list t * list messages
- vector2i_t * position
- · orientation_t direction
- inventory_t * inventory
- incantation_info_t * incantation
- size_t level
- time_info_t * time

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/ai/ai.h

3.6 s_incantation_info Struct Reference

Public Attributes

- · bool status_incantation
- size_t target_level

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/ai/ai.h

3.7 s_inventory Struct Reference

Public Attributes

- · size t food
- size_t linemate
- size_t deraumere
- size_t sibur
- · size_t mendiane
- · size t phiras
- · size_t thystame

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

· /home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/ai/ai.h

3.8 s_list Struct Reference

Collaboration diagram for s list:

Public Attributes

- list_node_t * first
- list node t * last
- size_t len

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/list/type.h

3.9 s_list_node Struct Reference

Collaboration diagram for s_list_node:

Public Attributes

- · node_data_t data
- struct s_list_node * next
- struct s_list_node * prev

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/list/type.h

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3.10 s_node_data Union Reference

Collaboration diagram for s_node_data:

Public Attributes

- ia_t * ai
- gui_t * gui
- client_t * client
- team_t * team
- char * message
- char * command
- vector2i_t * coord

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

/home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/list/type.h

3.11 s_parsing Struct Reference

Struct for parsing the arguments.

```
#include <types.h>
```

Public Attributes

- int port
- · int width
- int height
- int clientsNb
- int freq
- char ** names

3.11.1 Detailed Description

Struct for parsing the arguments.

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/types.h

3.12 s server Struct Reference

Public Attributes

- · fd set read fds
- fd_set write_fds
- int fd
- · socklen_t addrlen
- struct sockaddr_in addr

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/server/server.h

3.13 s_team Struct Reference

Collaboration diagram for s_team:

Public Attributes

- list_t * list_ai
- list_t * egg_position
- char * name
- · size_t max_place

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

· /home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/ai/team.h

3.14 s_time_info Struct Reference

Public Attributes

- bool stuck
- struct timeval start_stuck
- double total_stuck
- · struct timeval start_life
- · double total_life

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/ai/ai.h

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3.15 s_vector2i Struct Reference

Public Attributes

- int x
- int y

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/list/type.h

3.16 tile_s Struct Reference

Struct for a map's tile.

```
#include <map.h>
```

Public Attributes

- · size t food
- size_t linemate
- size_t deraumere
- size_t sibur
- size_t mendiane
- size_t phiras
- size_t thystame

3.16.1 Detailed Description

Struct for a map's tile.

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

• /home/tjerome-rocher/Desktop/Tek2/Zappy/server/include/map/map.h

Chapter 4

File Documentation

4.1 ai.h

```
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy Server
00004 ** File description:
00005 ** AI
00006 */
00007
00008 #pragma once
00009
00010 #include <stddef.h>
00011 #include <stdlib.h>
00012 #include <stdbool.h>
00014 #include "list/list.h"
00015
00016 typedef struct s_app app_t;
00017
00018 typedef enum {
          NORTH,
00019
         EAST,
WEST,
00021
00022
00023 } orientation_t;
00024
00025 typedef struct s_inventory {
00026 size_t food;
00027
            size_t linemate;
00028
            size_t deraumere;
00029
           size_t sibur;
         size_t mendiane;
size_t phiras;
size_t thystame;
00030
00031
00032
00033 } inventory_t;
00034
00035 typedef struct s_time_info {
00036 bool stuck;
00037
            struct timeval start_stuck;
00038 double total_stuck;
00039 struct timeval start_life;
00040 double total_life;
00041 } time_info_t;
00042
00043 typedef struct s_incantation_info {
        bool status_incantation;
size_t target_level;
00044
00046 } incantation_info_t;
00047
00048 typedef struct s_ia {
        size_t fd;
list_t *list_command;
list_t *list_messages;
vector2i_t *position;
00049
00050
00052
00053
            orientation_t direction;
            inventory_t *inventory;
incantation_info_t *incantation;
00054
00055
            size_t level;
time_info_t *time;
00056
00058 } ia_t;
```

```
00059
00068 ia_t *create_ia(app_t *app, int fd, team_t *team);
00069
00077 void add_ia(app_t *app, size_t fd, char *line);
00078
00086 ia_t *find_ia(app_t *app, size_t fd);
00087
00087
00093 void check_die(app_t *app);
```

4.2 command ai.h

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy Server
00004 ** File description:
00005 ** AI Command
00006 */
00007
00008 #pragma once
00009
00010 #include "ai/ai.h"
00011
00012 #define BEGIN INCANTATION 1
00013 #define END_INCANTATION 2
00014
00022 void command_ai_handler(app_t *app, ia_t *ai, char *line);
00023
00033 bool move_command(app_t *app, ia_t *ai, char *line);
00034
00044 bool object_info_command(app_t *app, ia_t *ai, char *line);
00045
00055 bool other_command(app_t *app, ia_t *ai, char *line);
00063 void eject_cmd(app_t *app, ia_t *ai);
00064
00071 void eject_player(app_t *app, ia_t *ai);
00072
00079 void eject_egg(app_t *app, ia_t *ai);
08000
00086 void dead_response(app_t *app);
00087
00094 void fork_cmd(app_t *app, ia_t *ai);
00095
00102 void connect_nbr_cmd(app_t *app, ia_t *ai);
00110 void take_cmd(app_t *app, ia_t *ai);
00111
00118 void set_cmd(app_t *app, ia_t *ai);
00119
00129 bool broadcast_command(app_t *app, ia_t *ai, char *line);
00130
00140 bool incantation_command(app_t *app, ia_t *ai, char *line);
00141
00152 bool check_incantation(app_t *app, ia_t *ai, int status);
00153
00161 void update_status(app_t *app, ia_t *ai, int update_status);
00162
00169 void level_up(app_t *app, ia_t *ai);
00170
00177 void add_command_to_list(ia_t *ai, char *line);
00178
00184 void treat_command(app_t *app);
00185
00191 void destroy_command_list(list_t *command_list);
```

4.3 look.h

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy Server
00004 ** File description:
00005 ** AI Command
00006 */
00007
00008 #pragma once
00009
00010 #include "ai/ai.h"
00011
00012 #define PLAYER_STRING " player"
```

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```
00013 #define EGG_STRING " egg"
00014 #define FOOD_STRING " food"
00015 #define LINEMATE_STRING " linemate"
00016 #define DERAUMERE_STRING " deraumere"
00017 #define SIBUR_STRING " sibur"
00018 #define MENDIANE_STRING " mendiane'
00010 #define PHIRAS_STRING " phiras"
00020 #define THYSTAME_STRING " thystame"
00021
00028 void look_cmd(app_t *app, ia_t *ai);
00029
00038 void check_player(vector2i_t *pos, app_t *app, char **reply, ia_t *ai);
00039
00047 void check_egg(vector2i_t *pos, app_t *app, char **reply);
00048
00056 void check_resources(vector2i_t *pos, app_t *app, char **reply);
00057
00066 void look_north(app_t *app, ia_t *ai, int index_line, char **reply);
00076 void look_east(app_t *app, ia_t *ai, int index_line, char **reply);
00077
00086 void look_south(app_t *app, ia_t *ai, int index_line, char **reply);
00087
00096 void look_west(app_t *app, ia_t *ai, int index_line, char **reply);
```

4.4 stuck.h

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy Server
00004 ** File description:
00005 ** Game struct
00006 */
00007
00008 #pragma once
00009
00010 #include <stddef.h>
00011 #include <stdlib.h>
00012 #include <stdbool.h>
00013 #include <sys/time.h>
00014
00015 #include "list/list.h"
00016
00017 typedef struct s_app app_t;
00018
00025 double time_elapsed(struct timeval *time);
00026
00033 void set_time_stuck(ia_t *ai, double total_stuck);
00034
00040 void treat stuck(app t *app);
```

4.5 team.h

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy Server
00004 ** File description:
00005 ** Team struct
00006 */
00007
00008 #pragma once
00009
00010 #include <stddef.h>
00011 #include <stdlib.h>
00012 #include <stdbool.h>
00013
00014 #include "list/list.h"
00015
00016 typedef struct s_app app_t;
00017
00018 typedef struct s_team {
         list_t *list_ai;
00019
          list_t *egg_position;
00020
00021
          char *name;
00022
         size_t max_place;
00023 } team_t;
00024
00033 team_t *create_team(app_t *app, char *name, size_t max_place);
00034
```

```
00042 void add_team(app_t *app, char *team_name, size_t max_place);
00043
00049 void display_egg_position(app_t *app);
00050
00058 void add_egg(list_t *eggs, int random_x, int random_y);
00059
00067 team_t *find_team(app_t *app, size_t fd);
00068
00074 void destroy_team(list_t *teams_list);
```

4.6 app.h

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy Server
00004 ** File description:
00005 ** App
00006 */
00007
00008 #pragma once
00009
00010 #include <time.h>
00011 #include <stdio.h>
00012 #include <stdlib.h>
00013 #include <stdarg.h>
00014 #include <string.h>
00015 #include <signal.h>
00016
00017 #include "ai/ai.h"
00018 #include "ai/team.h"
00019 #include "gui/gui.h"
00020 #include "parsing.h"
00021 #include "ai/stuck.h"
00022 #include "list/list.h"
00023 #include "game/game.h"
00024 #include "server/server.h"
00025
00026 typedef struct s_app {
         list_t *gui_list;
list_t *teams_list;
00027
00028
00029
            list_t *clients_list;
00030
            server_t *server;
00031
            game_t *game;
00032 } app_t;
00040 app_t *create_app(parsing_t *parsing);
00041
00047 void destroy_app(app_t *app);
```

4.7 game.h

```
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy Server
00004 ** File description:
00005 ** Game struct
00006 */
00007
00008 #pragma once
00009
00010 #include "map/map.h"
00011
00012 typedef struct s_game {
       size_t height;
00013
00014
         size_t width;
00015
         tile_t **map;
00016
         struct timeval start;
00017
         struct timeval start_food;
00018
         int freq;
00019 } game_t;
00020
00029 game_t *create_game(int height, int width, int freq);
00030
00036 void spawn_ressources(app_t *app);
00037
00045 bool check_win(app_t *app);
00046
00052 void destroy_game(game_t *game);
```

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4.8 gui.h

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy Server
00004 ** File description:
00005 ** Gui struct
00006 */
00007
00008 #pragma once
00009
00010 #include <stddef.h>
00011 #include <stdbool.h>
00012
00013 #include "list/list.h"
00014
00015 typedef struct s_gui {
           size_t fd;
list_t *list_messages;
00016
00017
00018 } gui_t;
00019
00026 gui_t *create_gui(int fd);
00027
00035 void add_gui(app_t *app, size_t fd, char *line);
00036
00044 gui_t *find_gui(app_t *app, size_t fd);
00045
00051 void destroy_gui(list_t *gui_list);
```

4.9 list.h

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy Server
00004 ** File description:
00005 ** Function about list
00006 */
00007
00008 #pragma once
00009
00010 #include <stdbool.h>
00011
00012 #include "type.h"
00013
00019 list_t *list_new(void);
00020
00026 void list free(list t *list);
00027
00034 void list_delete(list_t *list, list_node_t *node);
00035
00041 void list_remove_front(list_t *list);
00042
00048 void list_remove_back(list_t *list);
00049
00057 bool list_add_back(list_t *list, node_data_t data);
00058
00066 bool list_add_front(list_t *list, node_data_t data);
```

4.10 type.h

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy Server 00004 ** File description:
00005 ** Type of List
00006 */
00007
00008 #pragma once
00009
00010 #include <stddef.h>
00011
00012 typedef struct s_ia ia_t;
00013 typedef struct s_gui gui_t;
00014 typedef struct s_team team_t;
00015 typedef struct s_client client_t;
00016
00017 typedef struct s_vector2i {
00018
         int x;
00019
          int y;
```

```
00020 } vector2i_t;
00021
00022 typedef union s_node_data {
          ia_t *ai;
gui_t *gui;
client_t *client;
team_t *team;
00023
00024
00025
00026
00027
          char *message;
00028
          char *command;
00029
          vector2i_t *coord;
00030 } node_data_t;
00031
00032 typedef struct s_list_node {
      node_data_t data;
00033
00034
          struct s_list_node *next;
00035
           struct s_list_node *prev;
00036 } list_node_t;
00037
00038 typedef struct s_list {
        list_node_t *first;
list_node_t *last;
00039
00040
00041
           size_t len;
00042 } list_t;
```

4.11 map.h

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy Server
00004 ** File description:
00005 ** map
00006 */
00007
00008 #pragma once
00009
00010 #include <stddef.h>
00011 #include <stdbool.h>
00012
00013 #define FOOD_DENSITY 0.5
00014 #define LINEMATE_DENSITY 0.3
00015 #define DERAUMERE_DENSITY 0.15
00016 #define SIBUR_DENSITY 0.1
00017 #define MENDIANE_DENSITY 0.1
00018 #define PHIRAS_DENSITY 0.08
00019 #define THYSTAME_DENSITY 0.05
00020
00024 enum entity_type_e {
00025
         EGG,
00026
          FOOD.
00027
          LINEMATE,
          DERAUMERE,
00028
00029
          SIBUR,
00030
          MENDIANE,
00031
          PHIRAS,
          THYSTAME,
00032
00033
          NONE
00034 };
00035
00039 typedef struct tile_s {
        size_t food;
00040
00041
          size_t linemate;
         size_t deraumere;
size_t sibur;
00042
00043
          size_t mendiane;
00045
          size_t phiras;
00046
          size_t thystame;
00047 } tile_t;
00048
00056 tile_t **create_map(int width, int height);
00057
00064 void free_map(tile_t **map, int height);
00065
00073 void display_map(tile_t **map, int height, int width);
```

4.12 parsing.h

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy
```

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```
00004 ** File description:
00005 ** Header file for parsing the arguments passed to the server.
00006 */
00007
00008 #pragma once
00009
00010 #define HELP_FLAG_LABEL "--help"
00011 #define HELP_FLAG "-h"
00012 #define PORT_FLAG "-p"
00013 #define WIDTH_FLAG "-x"
00014 #define HEIGHT_FLAG "-y"
00015 #define TEAMS_NAMES_FLAG "-n"
00016 #define CLIENTS_FLAG "-c"
00017 #define FREQUENCY_FLAG "-f"
00018
00019 #define NB_ARGS_MIN 13
00020 #define NB_ARGS_HELP 2
00021
00022 #include "types.h"
00023
00024 #include <stdbool.h>
00025
00033 parsing_t *parse_arg(int ac, char **av);
00034
00044 int handle_help(int ac, char **av);
00045
00053 int parse_positive_int_arg(char *arg);
00054
00067 int parse_client(char **arg, int *pos, parsing_t *parsing);
00068
00081 int parse_frequency(char **arg, int *pos, parsing_t *parsing);
00082
00095 int parse_height(char **arg, int *pos, parsing_t *parsing);
00096
00109 int parse_port(char **arg, int *pos, parsing_t *parsing);
00110
00123 int parse_width(char **arg, int *pos, parsing_t *parsing);
00137 int parse_names(char **arg, int *pos, parsing_t *parsing);
00138
00144 void destroy_parsing(parsing_t *parsing);
```

4.13 rules.h

```
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy
00004 ** File description:
00005 ** Rules for the server
00006 */
00007
00008 #pragma once
00009
00010 enum RETURN CODES {
00011
          CODE_ERROR_MISSING_ARG = -1,
          CODE_ERROR_INVALID_ARG = -2,
CODE_ERROR_WRONG_FLAG = -3,
00012
00013
           CODE_ERROR_INVALID_NUMBER = -4,
00014
00015
           CODE_ERROR_MALLOC_FAILED = -5,
00016
           CODE_HELP_SUCCESS = 1,
00017
           CODE\_SUCCESS = 0,
00018
           CODE_FAILLURE = 84
00019 };
```

4.14 client.h

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy Server
00004 ** File description:
00005 ** Client
00006 */
00007
00008 #pragma once
00009
00010 #include <stddef.h>
00011 #include <stddib.h>
00012 #include <stdbool.h>
00013
```

4.15 server.h

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00002 ** EPITECH PROJECT,
00003 ** Zappy Server
00004 ** File description:
00005 ** Server struct
00006 */
00007
00008 #pragma once
00009
00010 #include <stdio.h>
00011 #include <stddef.h>
00012 #include <stdlib.h>
00013 #include <unistd.h>
00014 #include <stdbool.h>
00015 #include <sys/select.h>
00016 #include <netinet/in.h>
00017
00018 #include "list/list.h"
00019
00020 #define LISTEN_NUMBER 100
00021 #define WELCOME_MESSAGE "WELCOME\n" 00022 #define WELCOME_MESSAGE_LEN 8
00023
00024 typedef struct s_app app_t;
00025
00026 typedef struct s_server {
00027
          fd_set read_fds;
00028
          fd_set write_fds;
00029
          int fd;
00030
          socklen_t addrlen;
          struct sockaddr_in addr;
00031
00032 } server_t;
00033
00039 void destroy_server(server_t *server);
00040
00047 server_t *create_server(size_t port);
00048
00055 bool server_run(app_t *app);
00056
00064 bool server_connection_handler(app_t *app, size_t fd);
00065
00073 bool server_data_handler(app_t *app, size_t fd);
00074
00081 char *read_line(int fd);
00082
00089 void server_quit_handler(app_t *app, size_t fd);
00090
00099 bool write_message(list_t *list_messages, size_t fd);
00107 void add_message(list_t *list, char *message);
00108
00116 char *format_string(const char *format, ...);
00117
00123 void server_reset_fd(app_t *app);
00124
00132 void handle_request(app_t *app, size_t fd, char *line);
00133
00141 char *append_char(char *line, char current_char);
00142
00149 void handle_client_read(app_t *app, int fd);
00150
00157 void handle_client_write(app_t *app, int fd);
00158
00166 vector2i_t *create_vector2i(int x, int y);
00167
00174 void concatenate_strings(char **str1, char *str2);
00181 void destroy_message_list(list_t *message_list);
```

4.16 types.h 19

4.16 types.h

```
00001 /*
00002 ** EPITECH PROJECT, 2024
00003 ** Zappy
00004 ** File description:
00005 ** Types for the server
00006 */
00007
00008 #pragma once
00009
00014 typedef struct s_parsing {
00015    int port;
00016    int width;
00017    int height;
00018    int clientsNb;
00019    int freq;
00020    char **names;
00021 } parsing_t;
```

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```
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