

06/28/18 02:33:31 /home/ivan/Desktop/Repositorio-Final/main.c

```

1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <string.h>
4
5  #include "main.h"
6
7
8  /*****Externs*****/
9  extern char context_csv;
10 extern char * context_xml[MAX_XML_CONTEXTS];
11 extern setup_t setup;
12 extern char * format_dictionary[MAX_FORMATS];
13 extern char * sort_dictionary[MAX_SORTS];
14
15 int main(int argc, char *argv[])
16 {
17     size_t out_index;
18     status_t st;
19     void * context;
20
21     /*Se validan los argumentos*/
22     if((st = validate_arguments(argc, argv, &setup, &out_index, &context)) != OK)
23     {
24         print_error(st);
25         return st;
26     }
27
28     if((st = process_mp3_files (out_index, context, argc, argv, &setup)) != OK)
29     {
30         print_error(st);
31         return st;
32     }
33
34     return OK;
35 }
36
37 /*Función que valida los argumentos de la invocación*/
38 status_t validate_arguments(int argc, char * argv[], setup_t * setup, size_t * index_out_file, void **
context)
39 {
40     size_t i;
41     size_t fmt_flag = 0;
42     size_t sort_flag = 0;
43     size_t out_flag = 0;
44     status_t st;
45
46     if(argv == NULL || setup == NULL)
47         return ERROR_NULL_POINTER;
48
49     if(argc < MIN_ARGUMENTS)
50     {
51         return ERROR_INVOCATION;
52     }
53
54     for(i=0; i<argc; i++)
55     {
56         if(strcmp(argv[i], FORMAT_FLAG_TOKEN) == 0)
57             fmt_flag = i;
58         if(strcmp(argv[i], SORT_FLAG_TOKEN) == 0)
59             sort_flag = i;
60         if(strcmp(argv[i], OUT_FLAG_TOKEN) == 0)
61             out_flag = i;
62     }
63
64     if(!fmt_flag || !sort_flag || !out_flag)
65         return ERROR_INVOCATION;
66
67     for(i=0 ; i < MAX_FORMATS; i++)
68     {
69         if (!(strcmp(argv[fmt_flag + 1], format_dictionary[i])))
70         {
71             setup->doc_type = i;
72             break;
73         }
74     }
75     if((st = set_printer_context(setup, context)) != OK)
76         return st;
77
78     if(i == MAX_FORMATS)
79         return ERROR_INVOCATION;

```

```
80
81     for(i=0 ; i < MAX_SORTS ; i++)
82     {
83         if(!(strcmp(argv[sort_flag + 1], sort_dictionary[i])))
84         {
85             setup->sort_by = i;
86             break;
87         }
88     }
89
90     if(i == MAX_SORTS)
91         return ERROR_INVOCATION;
92
93     *index_out_file = out_flag + 1;
94
95     return OK;
96 }
97
98 status_t set_printer_context (setup_t * setup, void ** context)
99 {
100     if (setup == NULL || context == NULL)
101         return ERROR_NULL_POINTER;
102
103     switch (setup->doc_type)
104     {
105         case (FMT_XML) :
106             *context = &context_xml;
107             break;
108
109         case (FMT_CSV) :
110             *context = &context_csv;
111             break;
112     }
113     return OK;
114 }
```