

```

1 //18111C_Master
2 //-----
3 // Gest_TFT.c
4 //-----
5 //
6 //
7 // Auteur      :
8 // Date        :
9 // Version     :
10 // Modifications : MDS 26.09.2022
11 // Description  :
12 //      Gestion du TFT de la carte Ticketing Master 1811C
13 //
14 /*-----*/
15
16 #include "app.h"
17 #include "Gest_TFT.h"
18 #include "DefineLCD.h"
19 #include "Gest_Menu.h"
20
21
22 #include <sys/attribs.h>
23 #include "system_definitions.h"
24 #include <stdio.h>
25 #include <stdlib.h>
26
27 void TFT_Init (void)
28 {
29
30     tft_begin();
31     setRotation(1);
32     tft_fillScreen(ILI9341_BLACK);
33     TFT_Font_debug ();
34
35
36 }
37
38
39
40 void TFT_Menu_Principal (void)
41 {
42     //tft_fillScreen(ILI9341_BLACK);
43     //tft_fillRect(10,10,300,220,0x221F);
44     //tft_setTextSize(2);
45     tft_setTextSize(1);
46     tft_setCursor(15,15);
47     tft_setTextColor(ILI9341_WHITE);
48     tft_writeString("Ticketing Martins");
49     tft_drawFastHLine(10,31,300,ILI9341_WHITE);
50     tft_drawFastHLine(10,32,300,ILI9341_WHITE);
51     //tft_setTextSize(3);
52     tft_setTextSize(1);
53     tft_setCursor(90,50);
54     tft_writeString("Liste");
55     tft_setCursor(90,100);
56     tft_writeString("Config");
57 }
58
59 void TFT_Font_debug (void)
60 {
61
62     /*tft_fillScreen(ILI9341_WHITE);
63     tft_drawFastHLine(23,30,10,ILI9341_BLUE);
64     tft_drawFastHLine(19,31,18,ILI9341_BLUE);
65     tft_drawFastHLine(17,32,22,ILI9341_BLUE);
66     tft_drawFastHLine(15,33,26,ILI9341_BLUE);
67     tft_drawFastHLine(14,34,28,ILI9341_BLUE);
68     tft_drawFastHLine(12,35,32,ILI9341_BLUE);
69     tft_drawFastHLine(11,36,34,ILI9341_BLUE);
70     tft_drawFastHLine(10,37,36,ILI9341_BLUE);
71     tft_drawFastHLine(9,38,38,ILI9341_BLUE);
72     tft_drawFastHLine(8,39,40,ILI9341_BLUE);
73     tft_drawFastHLine(8,40,40,ILI9341_BLUE);

```

```

74     tft_drawFastHLine(7,41,42,ILI9341_BLUE);
75     tft_drawFastHLine(7,42,42,ILI9341_BLUE);
76     tft_drawFastHLine(6,43,44,ILI9341_BLUE);
77     tft_drawFastHLine(6,44,44,ILI9341_BLUE);
78     tft_drawFastHLine(6,45,44,ILI9341_BLUE);
79     tft_drawFastHLine(6,46,44,ILI9341_BLUE);
80     tft_drawFastHLine(5,47,46,ILI9341_BLUE);
81     tft_drawFastHLine(5,48,46,ILI9341_BLUE);
82     tft_drawFastHLine(5,49,46,ILI9341_BLUE);
83     tft_drawFastHLine(5,50,46,ILI9341_BLUE);
84     tft_drawFastHLine(5,51,46,ILI9341_BLUE);
85     tft_drawFastHLine(5,52,46,ILI9341_BLUE);
86     tft_drawFastHLine(5,53,46,ILI9341_BLUE);
87     tft_drawFastHLine(5,54,46,ILI9341_BLUE);
88     tft_drawFastHLine(5,55,46,ILI9341_BLUE);
89     tft_drawFastHLine(5,56,46,ILI9341_BLUE);
90     tft_drawFastHLine(6,57,44,ILI9341_BLUE);
91     tft_drawFastHLine(6,58,44,ILI9341_BLUE);
92     tft_drawFastHLine(6,59,44,ILI9341_BLUE);
93     tft_drawFastHLine(6,60,44,ILI9341_BLUE);
94     tft_drawFastHLine(7,61,42,ILI9341_BLUE);
95     tft_drawFastHLine(7,62,42,ILI9341_BLUE);
96     tft_drawFastHLine(8,63,40,ILI9341_BLUE);
97     tft_drawFastHLine(8,64,40,ILI9341_BLUE);
98     tft_drawFastHLine(9,65,38,ILI9341_BLUE);
99     tft_drawFastHLine(10,66,36,ILI9341_BLUE);
100    tft_drawFastHLine(11,67,34,ILI9341_BLUE);
101    tft_drawFastHLine(12,68,32,ILI9341_BLUE);
102    tft_drawFastHLine(14,69,28,ILI9341_BLUE);
103    tft_drawFastHLine(15,70,26,ILI9341_BLUE);
104    tft_drawFastHLine(17,71,22,ILI9341_BLUE);
105    tft_drawFastHLine(19,72,18,ILI9341_BLUE);
106    tft_drawFastHLine(23,73,10,ILI9341_BLUE);
107    tft_setTextSize(3);
108    tft_setCursor(12,42);
109    tft_setTextColor(ILI9341_WHITE);
110    tft_writeString("Es");
111
112    tft_drawFastHLine(48,25,5,ILI9341_BLUE);
113    tft_drawFastHLine(46,26,9,ILI9341_BLUE);
114    tft_drawFastHLine(45,27,11,ILI9341_BLUE);
115    tft_drawFastHLine(44,28,13,ILI9341_BLUE);
116    tft_drawFastHLine(44,29,13,ILI9341_BLUE);
117    tft_drawFastHLine(43,30,15,ILI9341_BLUE);
118    tft_drawFastHLine(43,31,15,ILI9341_BLUE);
119    tft_drawFastHLine(43,32,15,ILI9341_BLUE);
120    tft_drawFastHLine(43,33,15,ILI9341_BLUE);
121    tft_drawFastHLine(43,34,15,ILI9341_BLUE);
122    tft_drawFastHLine(44,35,13,ILI9341_BLUE);
123    tft_drawFastHLine(44,36,13,ILI9341_BLUE);
124    tft_drawFastHLine(45,37,11,ILI9341_BLUE);
125    tft_drawFastHLine(46,38,9,ILI9341_BLUE);
126    tft_drawFastHLine(48,39,5,ILI9341_BLUE);
127    tft_setTextSize(2);
128    tft_setCursor(46,26);
129    tft_setTextColor(ILI9341_WHITE);
130    tft_writeString("+");
131    tft_setTextSize(1);
132    tft_setCursor(18,75);
133    tft_setTextColor(ILI9341_BLUE);
134    tft_writeString("ETML");
135
136    tft_setTextSize(4);
137    tft_setCursor(20,120);
138    tft_setTextColor(ILI9341_BLACK);
139    tft_writeString("Bienvenue !");*/
140
141
142
143
144    //Si tft_setTextSize n'est pas 1 affiche rien
145    //tft_fillRect ne fonctionne pas
146    //tft_fillScreen ne fonctionne pas;

```

```

147
148
149
150     tft_fillRect(10,10,300,220,ILI9341_WHITE);
151 // tft_setTextSize(2);
152     tft_setTextSize(1);
153     tft_setTextColor(ILI9341_WHITE);
154     tft_setCursor(10,10);
155     tft_writeString("Initializing");
156     tft_drawFastHLine(10,31,300,ILI9341_WHITE);
157     tft_drawFastHLine(10,32,300,ILI9341_WHITE);
158 // tft_setTextSize(1);
159
160
161 //         tft_setCursor(10,50);
162 //         tft_writeString("SD Is Plugged:");
163 //
164 //         tft_setCursor(10,70);
165 //         tft_writeString("SD Mount:");
166 //
167 //         tft_setCursor(10,90);
168 //         tft_writeString("Student file found:");
169 //
170 //         tft_setCursor(10,110);
171 //         tft_writeString("Getting list of students:");
172 //
173 //         tft_setCursor(10,130);
174 //         tft_writeString("Students found:");
175
176 //         tft_setCursor(10,50);
177 //         tft_writeString("checking link:");
178 //
179 //         tft_setCursor(10,70);
180 //         tft_writeString("Students link:");
181
182
183 }
184
185 void TFT_SD_PLUG_OK (void)
186 {
187     tft_setTextSize(1);
188     tft_setTextColor(ILI9341_WHITE);
189     tft_setCursor(95,50);
190     tft_writeString("OK");
191 }
192
193 void TFT_SD_Mount_OK (void)
194 {
195     tft_setTextSize(1);
196     tft_setTextColor(ILI9341_WHITE);
197     tft_setCursor(65,70);
198     tft_writeString("OK");
199 }
200
201 void TFT_Student_File_Detected (void)
202 {
203     tft_setTextSize(1);
204     tft_setTextColor(ILI9341_WHITE);
205     tft_setCursor(125,90);
206     tft_writeString("OK");
207 }
208
209
210 void TFT_List_Of_Students_OK (void)
211 {
212     tft_setTextSize(1);
213     tft_setTextColor(ILI9341_WHITE);
214     tft_setCursor(160,110);
215     tft_writeString("OK");
216 }
217
218 void TFT_Students_Found (char T_Nb_Students [3])
219 {

```

```

220     tft_setTextSize(1);
221     tft_setTextColor(ILI9341_WHITE);
222     tft_setCursor(100,130);
223     tft_writeString(T_Nb_Students);
224 }
225
226 void TFT_Cheking_Link (void)
227 {
228     tft_setTextSize(1);
229     tft_setTextColor(ILI9341_WHITE);
230     tft_setCursor(95,150);
231     tft_writeString("OK");
232 }
233
234
235 void TFT_Students_Link (int Nb_Link)
236 {
237     char T_Nb_Students [3];
238     sprintf(T_Nb_Students,"%d",Nb_Link);
239     tft_setTextSize(1);
240     tft_setTextColor(ILI9341_WHITE);
241     tft_setCursor(95,170);
242     tft_writeString(T_Nb_Students);
243 }
244
245 void TFT_Init_OK (void)
246 {
247     //tft_setTextSize(2);
248     tft_setTextSize(1);
249     tft_setTextColor(ILI9341_WHITE);
250     tft_setCursor(10,190);
251     tft_writeString("OK tap green");
252     tft_setCursor(10,220);
253     tft_writeString("Re_Init tap Red");
254 }
255
256
257 void TFT_Aff_List (int I, char StudentName [15])
258 {
259     //tft_setTextSize(2);
260     tft_setTextSize(1);
261     tft_setTextColor(ILI9341_WHITE);
262     tft_setCursor(30,(35+((I-1)*20)));
263     tft_writeString(StudentName);
264 }
265
266 void TFT_aff_list_more (int I)
267 {
268     char more [9];
269     sprintf(more,"more %d v",I);
270     //tft_setTextSize(2);
271     tft_setTextSize(1);
272     tft_setTextColor(ILI9341_WHITE);
273     tft_setCursor(20,215);
274     tft_writeString(more);
275 }
276
277 void TFT_Cursor_MenuPrincipale (void)
278 {
279     static int LastCursorPos = 0;
280     tft_setTextSize(4);
281     switch (MenuSelected)
282     {
283         case SELECTED_NONE:
284             {
285                 if(LastCursorPos != 0)
286                 {
287                     //clear L'ancien Curseur
288                     tft_fillRect(40,LastCursorPos,20,28,0x221F);
289                 }
290                 break;
291             }
292         case SELECTED_LIST:

```

```

293     {
294         if (LastCursorPos != 0)
295         {
296             //clear L'ancien Curseur
297             tft_fillRect(40, LastCursorPos, 20, 28, 0x221F);
298         }
299         tft_setCursor(40, 50);
300         tft_writeString(">");
301         LastCursorPos = 50;
302         break;
303     }
304     case SELECTED_Configuration:
305     {
306         if (LastCursorPos != 0)
307         {
308             //clear L'ancien Curseur
309             tft_fillRect(40, LastCursorPos, 20, 28, 0x221F);
310         }
311         tft_setCursor(40, 100);
312         tft_writeString(">");
313         LastCursorPos = 100;
314         break;
315     }
316 }
317 }
318
319 void TFT_Font_List(void)
320 {
321     //tft_fillScreen(ILI9341_BLACK);
322     //tft_fillRect(10, 10, 300, 220, 0x221F);
323     //tft_setTextSize(2);
324     tft_setTextSize(1);
325     tft_setCursor(15, 15);
326     tft_setTextColor(ILI9341_WHITE);
327     tft_writeString("List");
328     tft_drawFastHLine(10, 31, 300, ILI9341_WHITE);
329     tft_drawFastHLine(10, 32, 300, ILI9341_WHITE);
330     //tft_setTextSize(2);
331     tft_setTextSize(1);
332     tft_setCursor(15, 35);
333     tft_setTextColor(ILI9341_WHITE);
334     tft_writeString(">");
335 }
336
337 void TFT_Font_config(void)
338 {
339     //tft_fillScreen(ILI9341_BLACK);
340     //tft_fillRect(10, 10, 300, 220, 0x221F);
341     //tft_setTextSize(2);
342     tft_setTextSize(1);
343     tft_setCursor(15, 15);
344     tft_setTextColor(ILI9341_WHITE);
345     tft_writeString("config");
346     tft_drawFastHLine(10, 31, 300, ILI9341_WHITE);
347     tft_drawFastHLine(10, 32, 300, ILI9341_WHITE);
348     tft_setTextSize(1);
349     tft_setCursor(15, 35);
350     tft_setTextColor(ILI9341_WHITE);
351     tft_writeString(">");
352 }
353
354 void TFT_aff_all_students (void)
355 {
356     int I;
357     tft_setTextSize(1);
358     tft_setCursor(25, 35);
359     tft_setTextColor(ILI9341_WHITE);
360     for (I = 0; I < I_Nbstudents; I++)
361     {
362         tft_writeString(Students_Info[I].StudentName);
363         tft_setCursor(25, 35 + ((I + 1) * 10));
364     }
365 }

```

```
366
367 void TFT_Update_Config_cursor (int pos)
368 {
369
370 }
```