

```

1  /*****
2  *
3  *   |-----|-----|-----|-----|-----|-----|
4  *   | | | | | | | | | | | | | | | | | | | | | | |
5  *   | | | | | | | | | | | | | | | | | | | | | | |
6  *   | | | | | | | | | | | | | | | | | | | | | | |
7  *   |-----|-----|-----|-----|-----|-----|
8  *
9  *****/
10 *
11 * File      : app.h
12 * Version   : 1.0
13 *
14 *****/
15 *
16 * Description : Managing global state machine
17 *
18 *****/
19 *
20 * Author      : Miguel Santos
21 * Date        : 25.09.2023
22 *
23 *****/
24 *
25 * MPLAB X      : 5.45
26 * XC32         : 2.50
27 * Harmony      : 2.06
28 *
29 *****/
30
31 #ifndef _APP_H
32 #define _APP_H
33
34 /*****
35 *
36 * #include <stdint.h>
37 * #include <stdbool.h>
38 * #include <stddef.h>
39 * #include <stdlib.h>
40 * #include "system_config.h"
41 * #include "system_definitions.h"
42 * #include "modules/counter.h"
43 *
44 *****/
45
46 /* Application states */
47 typedef enum
48 {
49     APP_STATE_INIT,
50     APP_STATE_IDLE,
51     APP_STATE_SETUP_WIFI,
52     APP_STATE_SETUP_RFID,
53     APP_STATE_ASKING,
54     APP_STATE_OFF,
55     APP_STATE_ON,
56
57 } APP_STATES;
58
59 /*****
60 *
61 * /* Structure to hold application data */
62 * typedef struct
63 * {
64 *     /* The application's current state */
65 *     APP_STATES state;
66 *
67 *     /* Timeout counter used to turn off output */
68 *     S_Counter timeOut;
69 *
70 * } APP_DATA;
71 *
72 *****/
73

```

```

74  /**
75   * @brief APP_Initialize
76   *
77   * Initialize APP state machine
78   *
79   * @param void
80   * @return void
81   */
82  void APP_Initialize ( void );
83
84  /*****
85
86  /**
87   * @brief APP_Tasks
88   *
89   * Execute APP state machine, should be called cyclically
90   *
91   * @param void
92   * @return void
93   */
94  void APP_Tasks ( void );
95
96  /*****
97
98  #endif /* _APP_H */
99
100  /* End of File *****/
101

```