

```

1  /*****
2  MPLAB Harmony Application Header File
3
4  Company:
5  Microchip Technology Inc.
6
7  File Name:
8  app.h
9
10 Summary:
11 This header file provides prototypes and definitions for the application.
12
13 Description:
14 This header file provides function prototypes and data type definitions for
15 the application. Some of these are required by the system (such as the
16 "APP_Initialize" and "APP_Tasks" prototypes) and some of them are only used
17 internally by the application (such as the "APP_STATES" definition). Both
18 are defined here for convenience.
19 *****/
20
21 //DOM-IGNORE-BEGIN
22 /*****
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24
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42 (INCLUDING BUT NOT LIMITED TO ANY DEFENSE THEREOF), OR OTHER SIMILAR COSTS.
43 *****/
44 //DOM-IGNORE-END
45
46 #ifndef _APP_H
47 #define _APP_H
48
49 // ****
50 // ****
51 // Section: Included Files
52 // ****
53 // ****
54 #include <stdint.h>
55 #include <stdbool.h>
56 #include <stddef.h>
57 #include <stdlib.h>
58 #include <stdio.h>
59 #include "system_config.h"
60 #include "system_definitions.h"
61
62
63 // DOM-IGNORE-BEGIN
64 #ifdef __cplusplus // Provide C++ Compatibility
65
66 extern "C" {
67
68 #endif
69 // DOM-IGNORE-END
70
71 // ****
72 // ****
73 // Section: Type Definitions

```

```

74 // *****
75 // *****
76 // *****
77
78
79
80 /* Application states
81
82     Summary:
83         Application states enumeration
84
85     Description:
86         This enumeration defines the valid application states. These states
87         determine the behavior of the application at various times.
88 */
89
90 typedef enum
91 {
92     /* Application's state machine's initial state. */
93     APP_STATE_INIT=0,
94     APP_STATE_LINK_XBEE,
95     APP_STATE_SEND_ID,
96     APP_STATE_SEND_DATA,
97     APP_STATE_RESET,
98     APP_STATE_REFUSE,
99     APP_STATE_ACCEPT,
100     APP_STATE_PRESENCE,
101     APP_STATE_GEST_MENU,
102     APP_STATE_GET_DATA,
103
104     /* TODO: Define states used by the application state machine. */
105 } APP_STATES;
106
107
108
109 // *****
110 /* Application Data
111
112     Summary:
113         Holds application data
114
115     Description:
116         This structure holds the application's data.
117
118     Remarks:
119         Application strings and buffers are be defined outside this structure.
120 */
121
122 typedef struct
123 {
124     /* The application's current state */
125     APP_STATES state;
126
127     /* TODO: Define any additional data used by the application. */
128 } APP_DATA;
129
130
131
132 extern char buffReadName[]; // Buffer de reception de l'UART
133 extern uint8_t Name_Receive; // Flag de réception
134 extern uint8_t countCar; // Compteur du nombre de caracteres d'un nom
135 extern uint8_t Nb_Student;
136 extern uint8_t Nb_Student_max;
137 bool flag_Com_Received;
138
139 // *****
140 // *****
141 // Section: Application Callback Routines
142 // *****
143 // *****
144 /* These routines are called by drivers when certain events occur.
145 */
146

```

```

147 // *****
148 // *****
149 // Section: Application Initialization and State Machine Functions
150 // *****
151 // *****
152
153 /*****
154  Function:
155      void APP_Initialize ( void )
156
157  Summary:
158      MPLAB Harmony application initialization routine.
159
160  Description:
161      This function initializes the Harmony application. It places the
162      application in its initial state and prepares it to run so that its
163      APP_Tasks function can be called.
164
165  Precondition:
166      All other system initialization routines should be called before calling
167      this routine (in "SYS_Initialize").
168
169  Parameters:
170      None.
171
172  Returns:
173      None.
174
175  Example:
176      <code>
177      APP_Initialize();
178      </code>
179
180  Remarks:
181      This routine must be called from the SYS_Initialize function.
182  */
183
184 void APP_Initialize ( void );
185
186
187 /*****
188  Function:
189      void APP_Tasks ( void )
190
191  Summary:
192      MPLAB Harmony Demo application tasks function
193
194  Description:
195      This routine is the Harmony Demo application's tasks function. It
196      defines the application's state machine and core logic.
197
198  Precondition:
199      The system and application initialization ("SYS_Initialize") should be
200      called before calling this.
201
202  Parameters:
203      None.
204
205  Returns:
206      None.
207
208  Example:
209      <code>
210      APP_Tasks();
211      </code>
212
213  Remarks:
214      This routine must be called from SYS_Tasks() routine.
215  */
216
217 void APP_Tasks( void );
218
219 void APP_UpdateState( APP_STATES NewState );

```

```
220  #endif /* _APP_H */
221
222  //DOM-IGNORE-BEGIN
223  #ifdef __cplusplus
224  }
225  #endif
226  //DOM-IGNORE-END
227
228  /*****
229  End of File
230  */
231
232
```