```
/*********************************
 MPLAB Harmony Application Header File
 Company:
   Microchip Technology Inc.
 File Name:
   app.h
 Summary:
   This header file provides prototypes and definitions for the application.
 Description:
   This header file provides function prototypes and data type definitions for
   the application. Some of these are required by the system (such as the
   "APP Initialize" and "APP Tasks" prototypes) and some of them are only used
   internally by the application (such as the "APP STATES" definition). Both
   are defined here for convenience.
*************************
//DOM-IGNORE-BEGIN
/******************************
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********************************
//DOM-IGNORE-END
#ifndef APP H
#define APP H
// ********************************
// Section: Included Files
// ****************************
```

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```
#include <stdint.h>
#include <stdbool.h>
#include <stddef.h>
#include <stdlib.h>
#include "system config.h"
#include "system definitions.h"
// DOM-IGNORE-BEGIN
#ifdef __cplusplus // Provide C++ Compatibility
extern "C" {
#endif
// DOM-IGNORE-END
// Section: Type Definitions
/* Application states
 Summary:
    Application states enumeration
 Description:
    This enumeration defines the valid application states. These states
    determine the behavior of the application at various times.
typedef enum
/st Application's state machine's initial state. st/
APP STATE INIT=0,
APP STATE SERVICE TASKS,
   APP STATE WAIT,
/st TODO: Define states used by the application state machine. st/
} APP STATES;
/* Application Data
 Summary:
   Holds application data
```

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```
Description:
  This structure holds the application's data.
 Remarks:
  Application strings and buffers are be defined outside this structure.
typedef struct
  /* The application's current state */
  APP STATES state;
  /* TODO: Define any additional data used by the application. */
} APP DATA;
// *********************************
// *********************************
// Section: Application Callback Routines
// ********************************
// ****************************
/* These routines are called by drivers when certain events occur.
// ***************************
// ****************************
// Section: Application Initialization and State Machine Functions
// *******************************
// *******************************
/*********************************
 Function:
  void APP Initialize ( void )
 Summary:
   MPLAB Harmony application initialization routine.
 Description:
  This function initializes the Harmony application. It places the
  application in its initial state and prepares it to run so that its
  APP Tasks function can be called.
 Precondition:
  All other system initialization routines should be called before calling
  this routine (in "SYS Initialize").
 Parameters:
  None.
 Returns:
  None.
```

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Example:
   <code>
   APP Initialize();
   </code>
 Remarks:
   This routine must be called from the SYS Initialize function.
void APP Initialize ( void );
void UpdateAppState(APP STATES newState);
void Get ADC Values(uint16 t index);
Function:
   void APP Tasks ( void )
 Summary:
   MPLAB Harmony Demo application tasks function
 Description:
   This routine is the Harmony Demo application's tasks function. It
   defines the application's state machine and core logic.
 Precondition:
   The system and application initialization ("SYS Initialize") should be
   called before calling this.
 Parameters:
   None.
 Returns:
   None.
 Example:
   <code>
   APP Tasks();
   </code>
 Remarks:
   This routine must be called from SYS Tasks() routine.
void APP Tasks ( void );
#endif /* APP H */
```

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C:/microchip/harmony/v2\_06/apps/2225\_VumetreFrequenciel/firmware/src/app.h //DOM-IGNORE-BEGIN #ifdef \_\_cplusplus #endif //DOM-IGNORE-END End of File \*/

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