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|  | ABSTRACT    Windows User    PREPARED BY:   * Merna Hany * Sara Kassem * Asma Adel * Mahmoud Naguib * Mohamed Osama   SUPERVISED BY:   * Eng. Mahmoud Abo Youssef   VERSION:   * Code Design Document Draft: V1.1 |

Introduction:

This document contains a description of all the functions in the system and their inputs and outputs. This makes

Description:

Each section describes the functionality of the API, its inputs, outputs and prototype. Then a flow chart is drawn to describe the sequence of action of the function.

1. Dio\_voidClearBit

Description:

The function is supposed to take the port number and the pin number to clear its value to zero.

Input: Port number, Pin number

Output: Nothing

Prototype: void DIO\_voidClearBit (u8 Copy\_u8PortId, u8 Copy\_u8PinId)



1. Dio\_voidSetBit:

Description:

The function is supposed to take the port number and the pin number to clear its value to one.

Input: Port number, Pin number

Output: Nothing

Prototype: void DIO\_voidSetBit (u8 Copy\_u8PortId, u8 Copy\_u8PinId)

1. LCD\_voidWriteCharater:

Description:

The function is supposed to take the data and display it on the LCD

Input: Data

Output: Nothing

Prototype: void LCD\_voidClearBit (u8 Copy\_u8Data)

1. LCD\_voidSendCommand:

Description:

The function is supposed to take the command to send to the LCD

Input: Command

Output: Nothing

Prototype: void LCD\_voidClearBit (u8 Copy\_u8Command)

1. BUTTON\_u8IsPressed:

Description:

The function is supposed to check if the button is pressed or not

Input: The number of the connected pin

Output: status of the button

Prototype: u8 BUTTON\_u8IsPressed(u8 Copy\_u8PinId)

1. Buzzer\_voidStart:

Description:

The function is supposed to start the buzzer

Input: The number of the connected pin

Output: Nothing

Prototype: void BUZZER\_voidStart (u8 Copy\_u8PinId)

1. Buzzer\_voidStop:

Description:

The function is supposed to stop the buzzer

Input: The number of the connected pin

Output: Nothing

Prototype: void BUZZER\_voidStop(u8 Copy\_u8PinId)

1. ALARM\_voidSetAlarm:

Description:

The function is supposed to set the alarm with a given value

Input: Nothing

Output: Nothing

Prototype: void ALARM\_voidSetAlarm (void)

1. ALARM\_voidSetDate:

Description:

The function is supposed to set the date with a given value

Input: Nothing

Output: Nothing

Prototype: void ALARM\_voidSetDate (void)