First MC Static Architecture

SPI_DRIVER

Function Name		uint8 SPI_Init(void);
Arguments	void	Void
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function initializes SPI Driver as a master or a slave

Function Name		uint8 SPI_Transfer(uint8 TX_Data,uint8 * RX_Data);
Arguments	i/p	TX_Data: Type: unsigned Char Description: this argument is the data which I want to transmit.
	o/p	RX_Data: Type: Pointer to unsigned Char Description: this argument is a pointer to address which I want to save the received data in
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function is to transmit and receive data through SPI

LCD_DRIVER

Function Name		uint8 LCD_Init(void);
Arguments	void	Void
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function initializes LCD Driver.

Function Name		uint8 LCD_WriteCmd(uint8 Command);
Arguments	i/p	Command: Type: unsigned Char Description: this argument is the command which I want to write on LCD Driver.
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function is to write a command on LCD Driver.

Function Name		uint8 LCD_WriteData(uint8 Data);
Arguments	i/p	Data: Type: unsigned Char Description: this argument is the Data which I want to write on LCD Screen.
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function is to write a data on LCD Screen.

Function Name		uint8 LCD_WriteString(uint8 String_Size,uint8 * String);
Arguments	i/p	String_Size: Type: unsigned Char Description: this argument is the size of string which we want to write on LCD screen.
	o/p	String: Type: Pointer to unsigned Char Description: this argument is a pointer to address which has the string that we want to write on LCD.
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function used to write a string on LCD.

Function Name		uint8 LCD_WriteString(uint8 Col,uint8 Row);
Arguments	i/p	Col: Type: unsigned Char Description: this argument is the column which we want to go to on LCD.
	i/p	Row: Type: unsigned Char Description: this argument is the Row which we want to go to on LCD.
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function used to go to specific location on LCD.

Function Name		uint8 LCD_WriteInt(uint16 Integer);
Arguments	i/p	Integer: Type: unsigned short integer. Description: this argument is the integer which I want to write on LCD Screen.
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function is to write an integer on LCD Screen.

UART_DRIVER

Function Name		uint8 UART_Init(void);
Arguments	void	Void
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function initializes UART Driver as a configuration structure.

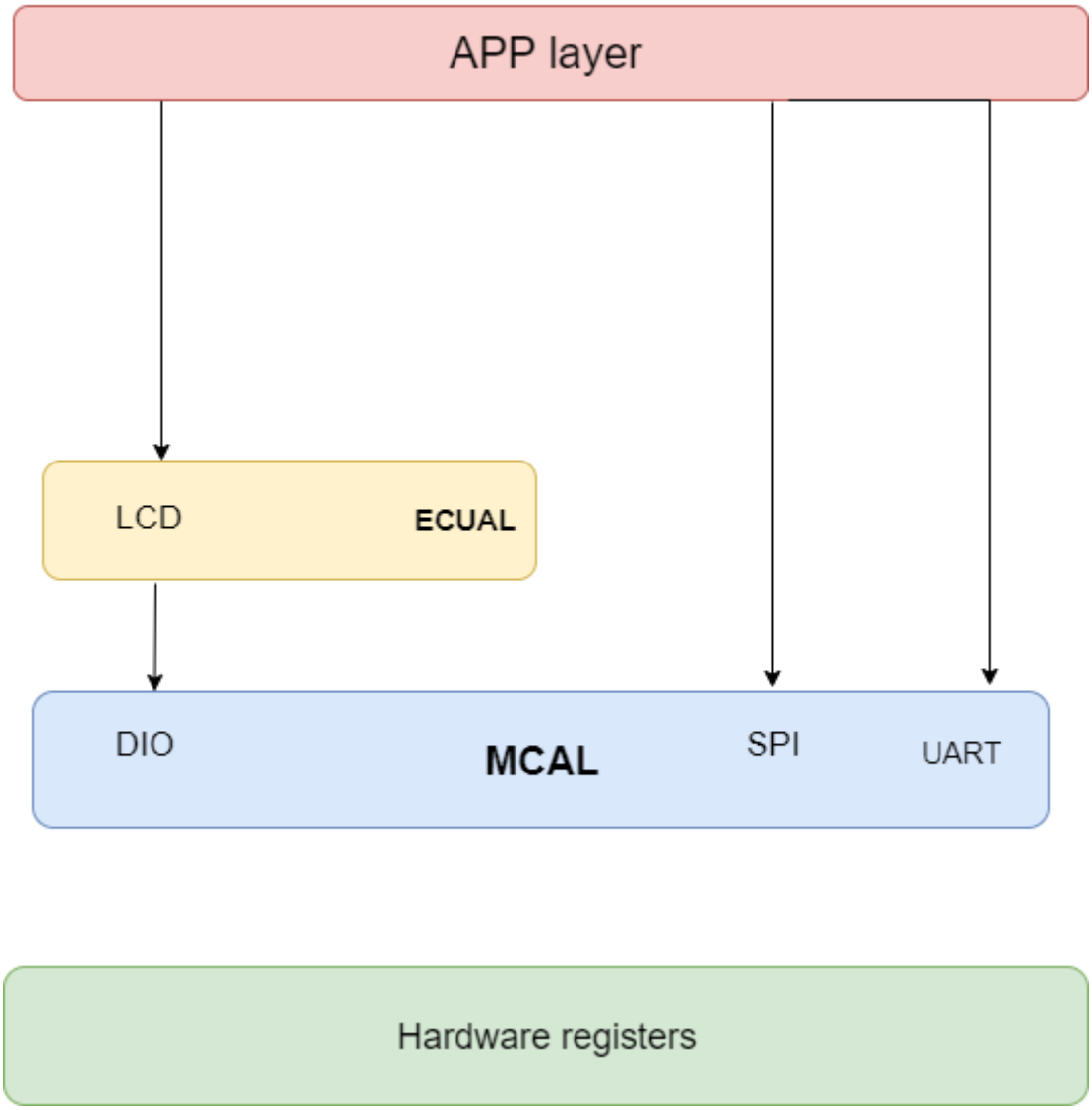
Function Name		uint8 UART_SendWord(uint16 TX_Data);
Arguments	i/p	TX_Data: Type: unsigned short integer Description: this argument is the data which I want to transmit.
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function is to transmit data through UART.

Function Name		uint8 UART_RecieveWord(uint16 * RX_Data);
Arguments	o/p	RX_Data: Type: pointer to unsigned short integer Description: this argument is a pointer to address which I wants to save received data in.
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function is to Receive data through UART.

Function Name		uint8 UART_RecieveBuffer(void);
Arguments	void	Type:void
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function is to Receive Buffer of data through UART.

Function Name		uint8 UART_SendBuffer(void);
Arguments	Void	Type:void
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function is to Send Buffer of data through UART.

MC1 Static Architecture in Serial Communication



Secound MC Static Architecture

TIMER_Driver

Function Name		uint8 TIMER0_Init(void);
Arguments	void	Void
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function initializes TIMER0 Driver through a configure Structure.

Function Name		uint8 TIMER0_Count(uint8 Delay);
Arguments	i/p	Delay: Type: unsigned Char Description: this argument tells the function the Delay which want to wait between actions.
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function counts the delay which wants to wait between actions.

SPI_DRIVER

Function Name		uint8 SPI_Init(void);
Arguments	void	Void
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function initializes SPI Driver as a master or a slave

Function Name		uint8 SPI_Transfer(uint8 TX_Data,uint8 * RX_Data);
Arguments	i/p	TX_Data: Type: unsigned Char Description: this argument is the data which I want to transmit.
	o/p	RX_Data: Type: Pointer to unsigned Char Description: this argument is a pointer to address which I want to save the received data in
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function is to transmit and receive data through SPI

UART_DRIVER

Function Name		uint8 UART_Init(void);
Arguments	void	Void
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function initializes UART Driver as a configuration structure.

Function Name		uint8 UART_SendWord(uint16 TX_Data);
Arguments	i/p	TX_Data: Type: unsigned short integer Description: this argument is the data which I want to transmit.
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function is to transmit data through UART.

Function Name		uint8 UART_RecieveWord(uint16 * RX_Data);
Arguments	o/p	RX_Data: Type: pointer to unsigned short integer Description: this argument is a pointer to address which I wants to save received data in.
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function is to Receive data through UART.

Function Name		uint8 UART_RecieveBuffer(void);
Arguments	void	Type:void
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function is to Receive Buffer of data through UART.

Function Name		uint8 UART_SendBuffer(void);
Arguments	void	Type:void
Return		Type: unsigned char
		Description: This return gives me the status of the function with OK or NOK status.
Description		This function is to Send Buffer of data through UART.

MC2 Static Architecture in Serial Communication