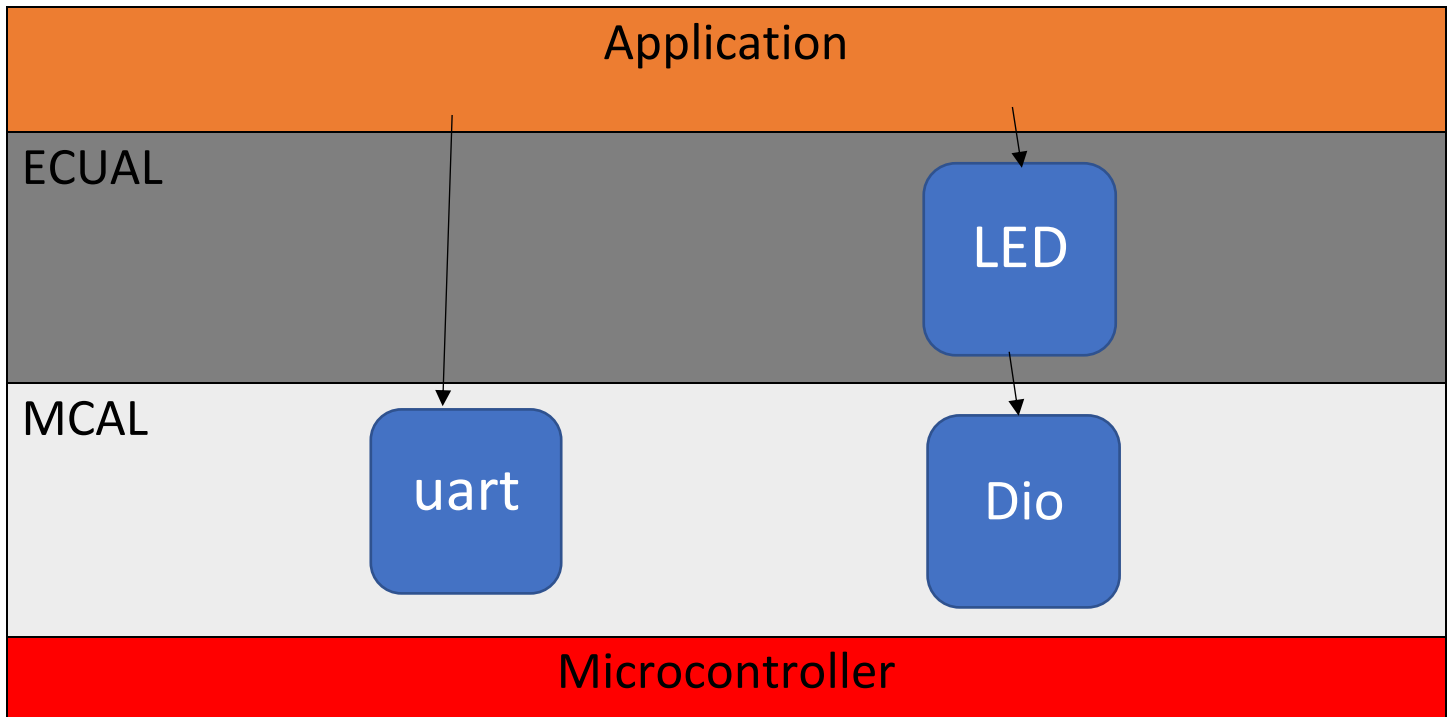


Layers:



DIO

```
enuDio_Status_t Dio_init(strDio_Config_t* strDio_pins);  
enuDio_Status_t Dio_readPin(uint8_t u8_pinID, uint8_t *pu8_pinValue);  
enuDio_Status_t Dio_writePin(uint8_t u8_pinID, uint8_t pu8_pinValue);  
enuDio_Status_t Dio_togglePin(uint8_t u8_pinID);
```

uart

```
UART_ERROR_t USART_Init(void);

UART_ERROR_t USART_Transmit(uint16_t u16_data);

UART_ERROR_t USART_Receive (uint16_t *Ptr_to_val);

UART_ERROR_t USART_Transmit_Packet(uint8_t *pu8_data,uint8_t SIZE);

UART_ERROR_t USART_receive_Packet(uint8_t *pu8_data,uint8_t u8_SIZE);

UART_ERROR_t USART_Transmit_INTDriven(uint8_t *pu8_data,void (*ptr)(void));

UART_ERROR_t USART_Receive_INTDriven(uint8_t *pu8_data,void (*ptr)(void));
```

LED

```
void ECUAL_LedInit(void);

void ECUAL_GreenSignON(void);

void ECUAL_GreenSignOFF(void);

void ECUAL_YellowSignON(void);

void ECUAL_YellowSignOFF(void);

void ECUAL_RedSignON(void);

void ECUAL_RedSignOFF(void);
```

APP

APIs:

```
void APP_init(void);
```

```
void APP_GetState(void);
```

```
void APP_UpdateState(void);
```

Private functions:

```
void APP_receiveCommand(void);
```

```
enCompareState_t APP_StringsCompare(enStates_t Command_type)
```

```
void APP_sendResponse(uint8_t *ptr)
```

State machine

