



Layered architecture :-

SERVICE	APPLICATION	
	HAL	
	MCAL	
	MicroController	

utils	APPLICATION	
	Button	LED
STD_Types	DIO	
	MicroController	

Program APIS:-

- 1) `DIO_ERROR_TYPE DIO_INITPIN(DIO_PIN_TYPE PIN, DIO_PINSTATUS_TYPE STATUS);`
- 2) `DIO_ERROR_TYPE DIO_WRITEPIN(DIO_PIN_TYPE PIN, DIO_VOLTAGE_TYPE VOLTAGE);`
- 3) `DIO_ERROR_TYPE DIO_READPIN(DIO_PIN_TYPE PIN, DIO_VOLTAGE_TYPE* VOLT);`
- 4) `LED_ERROR_TYPE LED_INIT(DIO_PIN_TYPE PIN);`
- 5) `LED_ERROR_TYPE LED_ON(DIO_PIN_TYPE PIN);`
- 6) `LED_ERROR_TYPE LED_OFF(DIO_PIN_TYPE PIN);`
- 7) `BUTTON_ERROR_TYPE Button_INIT(DIO_PIN_TYPE PIN);`
- 8) `BUTTON_ERROR_TYPE Button_read(DIO_PIN_TYPE PIN, DIO_VOLTAGE_TYPE*VOLT);`