Button Drivers

LOW LEVEL DESGIN Document

Version: 1st   **Date: 26/10/2023**

1. API specification

1.1 Type definitions

Name:	G_button_state
Type:	Uint8
Element:	-
Description:	Variable which return the state of button

Name:	BUTTON_config_t
Type:	Struct
Element:	DIO_PIN_ID pin_id; DIO_PORT_ID port_id; DIO_PIN_DIRECTION_TYPE pin_direction;
Description:	Type definition for a Button configuration

2. Function definitions

Service name:	HAL_BUTTON_init()
Syntax:	HAL_BUTTON_init(BUTTON_config_t *button_config)
Parameters (in):	BUTTON_config_t *button_config
Parameters (in/out):	NONE
Parameters (out):	NONE
Return value:	NONE
Description:	Set the BUTTON configuration structure as input.
Requirements:	[Button001][Button002]

Service name:	**HAL_BUTTON_getState()**
Syntax:	HAL_BUTTON_getState(Button_PORT,Butt on_PIN)
Parameters (in):	Button_PORT,Button_PIN
Parameters (in/out):	NONE
Parameters (out):	NONE
Return value:	G_button_state	it's a uint8 which return the button pressed or relesed
Description:	return the button state pressed or relesed
Requirements:	[button003]