

# **Requirements on Button Driver**

**Team X**

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## Scope of document:

This document specifies requirements on the module Button Driver.

## Functional overview:

The Button driver initializes the Button, reads the value on the button's pin, and sets the state pull-up for the button.

## Requirement specifications:

### Functional Requirements:

#### Configuration and initialization:

- 1- [SRS\_Button\_211] The Button Driver shall support symbolic names for the Button.

Type:	Valid
Description:	The Button driver shall allow the static configuration of the following symbolic names: <ul style="list-style-type: none"><li>• Button port</li><li>• Button pin</li></ul>
Rationale:	Provide human-readable symbolic names for Button
Use cases	--
Dependencies	--
Supporting material	--

- 2- pins.[SRS\_Button\_212] The Button driver shall provide a service that initializes the Button.

Type:	Valid
Description:	The Button driver shall provide a service that initializes Button pin as input
Rationale:	Basic functionality
Use cases	Initialize the Button
Dependencies	[SRS_Button_211]
Supporting material	--

**Normal operation:****1- [SRS\_Button\_213] The Button driver shall provide a service read button pin**

Type:	Valid
Description:	The Button driver shall provide a service that reads the value of the button pin. This value may be high or low.
Rationale:	Basic functionality
Use cases	Read the value of button pin
Dependencies	[SRS_Button_211] , [SRS_Button_212]
Supporting material	--

**2- [SRS\_Button\_214] The Button driver shall provide a service that make button state as pull up.**

Type:	Valid
Description:	The Button driver shall provide a service that makes the button pull up which button's pin will be input and high.
Rationale:	Basic functionality
Use cases	makes button's pin as pull up.
Dependencies	[SRS_Button_211] , [SRS_Button_212]
Supporting material	--