

# **Requirements on Keypad Driver**

**Team X**

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## Scope of document:

This document specifies requirements for the module Keypad Driver. The Keypad driver is targeting 4\*4 Kaypad Hardware.

## Functional overview:

The Keypad driver initializes the 4\*4 Keypad and gets data from the keypad.

## Functional Requirements:

### Configuration and initialization:

- 1- [SRS\_Keypad\_311] The Keypad Driver shall support symbolic names for Keypad pins.

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

- 2- [SRS\_Keypad\_312] The Keypad driver shall provide a service that initializes the Keypad.

Type:	Valid
Description:	The Keypad driver shall provide a service that initializes Keypad pins and makes rows pins as output and high, and columns input and pull up.
Rationale:	Basic functionality
Use cases	Initialize the Keypad
Dependencies	[SRS_Keypad_311]
Supporting material	--

**Normal operation:**

- 1- [SRS\_Keypad\_313] The Keypad driver shall provide a service that gets value when the Button is pressed.

Type:	Valid
Description:	The Keypad driver shall provide a service that gets value when the button is pressed.
Rationale:	Basic functionality
Use cases	get number from 1 to 9 or symbol like +, -, *,/,= when use keypad
Dependencies	[SRS_Keypad_311] ,[SRS_Keypad_312]
Supporting material	--