



PO1\_DGC Calculator  
**(SRS)**  
**Status** : Draft

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## History Table

| Version | Author       | Date      | Change   |
|---------|--------------|-----------|--|
| 1.0     | Mina Youssry | 25/1/2020 | Initial creation                                       |
| 1.0     | Bishoy Nabil | 25/1/2020 | Created index and improved formatting for SRS document |

Figure 1

## Requirements

| Requirement Name                    | Requirement Description   |
|-------------------------------------|---|
| Req_PO1_DGC_CYRS_001_v1.0<br>Imp#HW | Hardware shall turn the calculator on/off when the button is pressed.   |
| Req_PO1_DGC_CYRS_002_v1.0<br>Imp#SW | Software shall assign a number (0-9) or operation(+, -, *, /, =) to each key on the keypad.   |
| Req_PO1_DGC_CYRS_003_v1.0<br>Imp#SW | Software shall display a number (0-9) when its corresponding key is pressed.  |
| Req_PO1_DGC_CYRS_004_v1.0<br>Imp#SW | Software shall display an operation(+, -, *, /) on the display when its corresponding key is pressed.   |
| Req_PO1_DGC_CYRS_005_v1.0<br>Imp#SW | Software shall allow multiplication or division only when there is a number already displayed on the LCD before it.<br>Software won't display the multiplication or division signs if there is nothing on the screen or if there is already an operand. |
| Req_PO1_DGC_CYRS_006_v1.0<br>Imp#SW | Software shall display the result on the display when the assignment (=) key is pressed.  |
| Req_PO1_DGC_CYRS_007_v1.0<br>Imp#SW | Software shall play a different tune for each button when pressed.  |

Figure 2

## Covers

| Requirement Name                    | Requirement Description   |
|-------------------------------------|---|
| Req_PO1_DGC_CYRS_002_v1.0<br>Imp#SW | Software shall assign a number (0-9) or operation(+,-,*,/,=) to each key on the keypad.   |
| Req_PO1_DGC_CYRS_003_v1.0<br>Imp#SW | Software shall display a number (0-9) when its corresponding key is pressed.  |
| Req_PO1_DGC_CYRS_004_v1.0<br>Imp#SW | Software shall display an operation(+,-,*,/) on the display when its corresponding key is pressed.  |
| Req_PO1_DGC_CYRS_005_v1.0<br>Imp#SW | Software shall allow multiplication or division only when there is a number already displayed on the LCD before it.<br>Software won't display the multiplication or division signs if there is nothing on the screen or if there is already an operand. |
| Req_PO1_DGC_CYRS_006_v1.0<br>Imp#SW | Software shall display the result on the display when the assignment (=) key is pressed.  |
| Req_PO1_DGC_CYRS_007_v1.0<br>Imp#SW | Software shall play a different tune for each button when pressed.  |

## Inputs

- Keypad

## Outputs

- Buzzer
- CLCD