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|  |
| SOVY |
| Digital Calculator PO1\_DGC\_MATH\_CALC\_CDD |

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# Document Status

|  |  |
| --- | --- |
| Name | SOVY |
| Version | 1.0 |
| Status | Draft |
| Author | Andrew Ezzat |
| Date | 15/4/2021 |

# Document History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Author | Date | Change |
| 1.0 | Andrew Ezzat | 15/4/2021 | Initial Creation. |

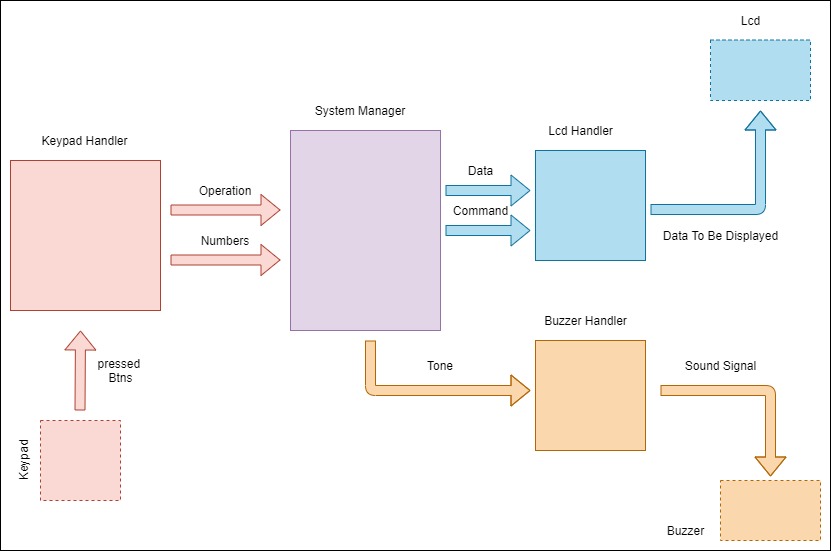
# Reference Documents

|  |  |  |  |
| --- | --- | --- | --- |
| Ref. No. | Doc. Name | Version | Status |
| 1 | Digital Calculator PO1\_DGC\_GDD | 1.3 | Proposed |
| 2 | PO1\_DGC\_SRS\_DigitalCalculator | 1.3 | proposed |

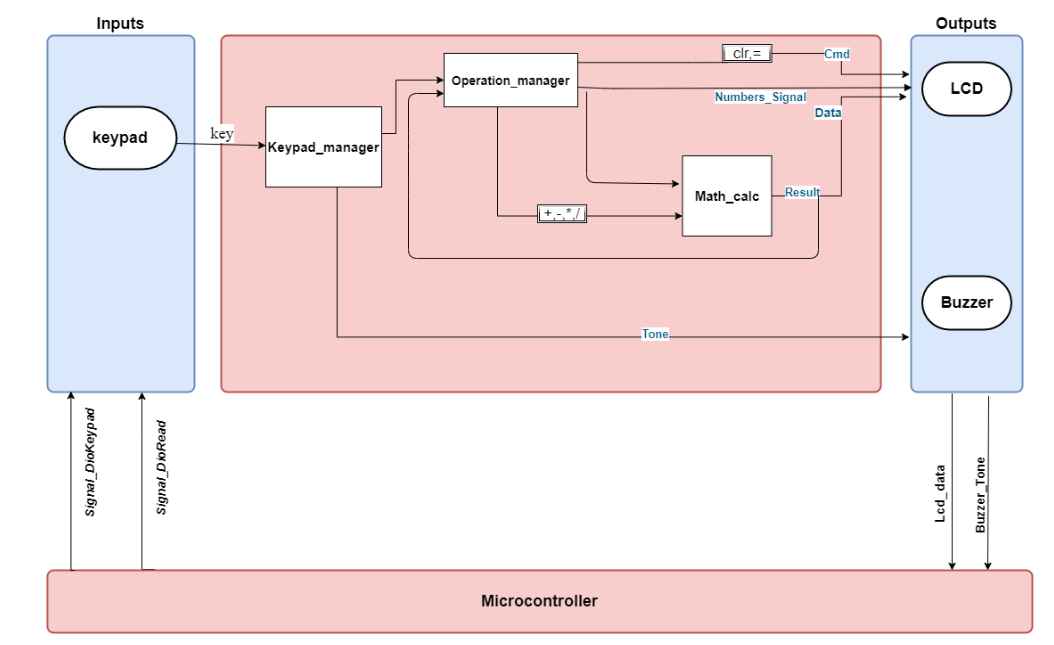
# 4.Project Description

“Sovy” is a simple digital calculator that performs basic mathematical operations and displays the operation on an LCD-screen, with an ON/OFF button and keypad for user input.

# 5.Software Context Diagram

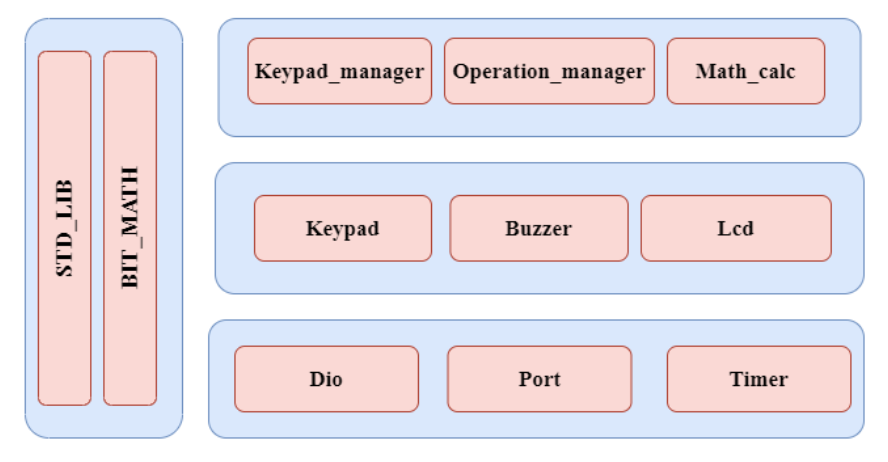


# 6. Software features



# 

# 7.Static Architecture



# 8. Component API’s

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Req\_ID** | PO1\_DGC\_MATH\_CALC\_CDD \_001-V1.0 | | **Covers** |  | Req\_PO1\_DGC\_GDD\_0011-V1.0 |
| **Description:** | It takes two operand and the operation in struct and make the operation on the operands and return it in pointer. | | | | |
| **API** | ReturnStatus\_e Math\_Calc( Math\_Calc\_t Data, f32 \* result ) | | | | |
| **Parameters** | **Type** | **Name** | | | **Description** |
| Math\_Calc\_t | Data | | | It is Srtuct that contain :  f16 operand\_1,  f16 operand\_2,  u8 operation |
| f32 \* | Result | | | It is pointer that the result of the operation will be saved in. |
| **Return** | **Type** | **Name** | | | **Description** |
| ReturnStatus\_e | \_\_\_\_\_ | | | STD\_ERORR  E\_OK -> If operation performed successful it returns 0  E\_NOK -> If operation performed **not** successful it returns 1 |
| **Algorithm** |  | | | | |