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Description automatically generated

Digital Watch Project PO2\_DGW‏

(Buzzer)

Table 1 Status Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Document Name** | **Author** | **Version** | **Date** | **Status** |
| Buzzer\_CDD | Rasha Saad | 1.0 | 17/3/2023 | Proposed |

Table 2 Document History

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Description of Change** | **Author** | **Date** | **Document Status** |
| 1 | Initial creation of Buzzer\_CDD Document | Rasha Saad | 17/3/2023 | Proposed |

Table 3 Reference Table

|  |  |  |
| --- | --- | --- |
| Reference Input Documents | Version | Status |
| SRS | 1.2 | Proposed |
| GDD | 1.1 | Proposed |

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# Switch software context diagram

Diagram

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Figure . Buzzer context diagram.

# Sequence diagram

Chart, diagram, box and whisker chart

Description automatically generated

Figure Sequence diagram

# Component ʹs application programming interfaces (APIs)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Req\_ID** | | | Req\_PO2\_DGW\_Buzzer\_CDD\_01\_V01. | | | | | |
| **Covers** | | | Req\_PO2\_DGW\_GDD\_08\_V01.0  Req\_PO2\_DGW\_SRS\_03\_V01.2  Req\_PO2\_DGW\_SRS\_04\_V01.2 | | | | | |
| **Author** | Rasha Saad | | **Date** | | 17/3/2023 | | | |
| **API\_Name** | | Buzzer\_voidSetState | **Scope** | | | public | | |
| **Description** | | | It sets buzzer state according to its config file that it configures its port and pin. | | | | | |
| **Inputs** | | | **Type** | **Name** | | | **Description** | **Range** |
| u8 | State | | | Buzzer state to set its pin to this state.  High -> 1  Low -> 0 | 0 to 255 |
| **Outputs** | | | void | \_\_\_\_\_ | | | \_\_\_\_\_ | \_\_\_\_\_ |
| **Algorithm** | | | Diagram  Description automatically generated | | | | | |