Global Design Document

**Version 1.0**

**February 25, 2020**

**Electric Blender**

**PO2\_EBL**

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| 1.0 | **Mostafa Ramadan & Fatima Gomaa** | **25-02-2020** | **Adding document status and document history table**  **And diagram to state the s/w and the public APIs of the system** |

**Reference Table:**

|  |  |  |
| --- | --- | --- |
| Document | Version | Author |
| SRS | **1.6** | **Mostafa Ramadan** |
| CYRS | **1.4** | **Mohamed Anis & Fatima Gomaa** |

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1. ***Introduction***
   1. ***Purpose***

The purpose of this document is to present the flow of the software through the system and shows the APIs that will cover the functionality of the software. And how the software shall act and react against certain parameters.

This document will explain the features of the system from the functional software manner.

1. ***Software Context Diagram***
2. ***Static Architecture***
3. ***Software Sequence Diagram***

|  |  |  |  |
| --- | --- | --- | --- |
| **Req\_ID** | Req\_ PO2\_EBL\_Electric\_Blender\_GDD\_001-1.0 | **Covers** | Covers\_ PO2\_EBL\_Electric\_Blender\_SRS\_001-1.0 |
| **Author** | Mostafa Ramadan | **DATE** | 28/2/2020 |
| **API** | errStatus Button\_Pressed(u8 Button, u8 \*BData); | | |
| **Description** | This Function in App Layer shall get the status of the power button from the below layer (HAL Layer) and return an error status in case it met the required functionality or not. | | |
| **Inputs** | u8 Button, u8 \*Data | **Outputs** | err\_Status |

1. ***Public APIs***

|  |  |  |  |
| --- | --- | --- | --- |
| **Req\_ID** | Req\_ PO2\_EBL\_Electric\_Blender\_GDD\_002-1.0 | **Covers** | Covers\_ PO2\_EBL\_Electric\_Blender\_SRS\_001-1.0 |
| **Author** | Mostafa Ramadan | **DATE** | 28/2/2020 |
| **API** | errStatus Read\_SwitchState(u8 Switch\_CH, u8 \*BData); | | |
| **Description** | This Function in HAL Layer shall get the status of the Switch from the below layer (MCAL Layer) and return an error status in case it met the required functionality or not. | | |
| **Inputs** | u8 Switch\_CH, u8 \*Data | **Outputs** | err\_Status |