

Project Name: Electric Blender

Project ID: **PO2\_EBL**

Version: **1.3**

Project Status: **proposed**

CYRS

Document

**Document History**

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| --- | --- | --- | --- |
| Version | Author | Date | Change description |
| 1.0 | Mohamed Adel Anis | 22/01/2020 | Initial Creation of CYRS   * Creating two sections in document [Overall Description & Project Description] * **Overall Description section** contains general information about the project. * **Project Description section** contains detailed information about the system requirement. |
| 1.1 | Mohamed Adel Anis | 04/02/2020 | Updating the document according to the review of version 1.0   * **Re-arranging** the position of Document   history table and documents info. |
| 1.1 | Fatima Gomaa | 04/02/2020 | Updating the document according to the review of version 1.0   * **Abstracting** requirements from the level of SW to be in System level prospective. * **Adding** Reference table at the end of the documents. |
| 1.2 | Ahmed Geneidi | 07/02/2020 | **Reviewed** the document and gave my feedback that there should be two sections for each one to sate the change every one did and the document was edited.  **Changing** its status to be **released.** |
| 1.3 | Mohamed Adel Anis | 09/02/2020 | Updating the document upon the review of version 1.2   * **Modify** requirements (2&3) version. * **Adding** extra requirement (4) * **Modify** the document history according the review on version 1.2 |

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# Introduction

# Purpose

This is Customer requirement specification document (CYRS) for the KENOVO – Electric Blender project.

The purpose of CYRS is to describe the requirements of the client in more technical terms.

CYRS contains:

* Overall description of the customer requirements of the product.
* Functional analysis of the system requirements.

# Document Structure

This document is organized as follows:

* Section 1: Introduction to identify the document.
* Section2: Overall description about the system and information about it.
* Section 3: Requirements of the customer listed in more technical details.

# General Description

# Project Description

The goal of this project is to create an Electric blender that customer can change its rotating speed to three different levels of speed using only one button. The operating voltage should be monitored to detect any failure in the system.

# Block Diagram

Red: Input Devices
Blue: Intermediate devices 
Green: Output Device

Figure 1 -System Block Diagram

# System Requirements

Req\_ PO2\_EBL\_Electric\_Blender\_CYRS\_001-1.0 Imp#SW

{

The blender is operated with three main speeds.

}

Req\_ PO2\_EBL\_Electric\_Blender\_CYRS\_002-1.1 Imp#SW&HW

{

The blender should have push button to control the blender status and speed in which the sequence of the blender states is as following:

Turned OFF 🡪 Speed 1 🡪 Speed 2 🡪 Speed 3 🡪Turned OFF

The push button should be sensitive enough that a click on it will switch it to the next status without a delay or escaping a status.

}

Req\_ PO2\_EBL\_Electric\_Blender\_CYRS\_003-1.1 Imp#SW&HW

{

The system should monitor and detect any changes in the input voltage level of the electric blender’s electricity source.

If the voltage dropped lower than the cutoff value, the system will stop entirely, indicating a problem in the system.

}

Req\_ PO2\_EBL\_Electric\_Blender\_CYRS\_004-1.0 Imp#HW

{

The system shall communicate with the motor using Motor driver to control its speed and status.

}

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| --- | --- | --- |
| Document | Version | Author |
| CRS | 1.0 | KENOVO |
|  |  |  |

# Reference Table