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| Photo displaying partial image of two pie charts on a canvas-textured page |
| PO3\_DGW  Customer System Requirements Specifications Document |
| |  |  |  | | --- | --- | --- | | Bassem Ezzat | 1/24/20 | Mohanned Elsayed | |

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| *Version* | *Author(s)* | *Date* | *Changes* |
| 0.0 | - Bassem Ezzat  - Mohammed Elsayed | January 24, 2020 | Creation of CYRS document |
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1. Introduction
   1. Purpose

This document aimed to clarify the CRS doument and list a customer requierment specification to design a digital watch.

* 1. Document Abbreviation

|  |  |
| --- | --- |
| CYRS | Customer System Requirement Specifications |
| CRS | Customer Requirement Specifications |
| ERD | Entery relational digram |
| SIQ | Software interactive questionnaire |

* 1. Intended audience and reading suggestions

This project is a prototype for a digital watch and it is applicable to be a commercial product. This has been implemented under the guidance of ITI’s trainers.

* 1. Project Scope

The purpose of this project is to create modern stunning digital watch.

* 1. References

Not available yet

1. Overall Description
   1. Product features

The major feature of the digital watch as shown in below (ERD model).



* 1. Operation environment

Operating environments for the digital watch are houses, offices, shops, and hotels.

* 1. Design and Implementation constraints
* Software layer design
* Hardware components selection

1. System Features
   1. Functional requirements
      1. REQ\_PO3\_DGW\_CYRS\_01\_V01

The software shall display the current time in form of (HH: MM: SS: AM/PM) on an LCD in display time mode.

* + 1. REQ\_PO3\_DGW\_CYRS\_02\_V01

The software shall take an input time from the user in alarm mode, and notifies the user with a buzzer when the selected time arrived.

* + 1. REQ\_PO3\_DGW\_CYRS\_03\_V01

The Software shall start incrementing its display numbers referring to real time seconds, minutes and hours if the Stopwatch mode is chosen.

* + 1. REQ\_PO3\_DGW\_CYRS\_04\_V01

The Software shall reset every value on the screen to zeros if the stopwatch mode is chosen.

* + 1. REQ\_PO3\_DGW\_CYRS\_05\_V01

The software shall have a button that switches between three modes:

* Display Mode
* Alarm Mode
* Stopwatch Mode

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| **CYRS REQUIREMENT** | **CRS REQUIREMENT** |
| Req\_ PO3\_DGW\_CYRS\_02\_V01 | Display the time with 12 AM/PM format |
| Req\_ PO3\_DGW\_CYRS\_02\_V01 | Alarm to be set as per the input |
| Req\_ PO3\_DGW\_CYRS\_03\_V01 | Stopwatch with “start, stop, and Reset” |
| Req\_ PO3\_DGW\_CYRS\_04\_V01 | Reset all digits once entering stopwatch mode |
| Req\_ PO3\_DGW\_CYRS\_05\_V01 | User can control digital watch modes using one button |

1. External Interface Requirements
   1. User interfaces
   2. Hardware interfaces
   3. Software interfaces
   4. Communications interfaces

1. Nonfunctional Requirements
   1. Performance Requirements
   2. Safety requirements
   3. Security Requirements
   4. Software Quality