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isen m1 iot

https://github.com/Jules-Calvet/Ewine

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# 1 Context

## Project context

M1 IOT project by students: Calvet Jules and Nicolas Justin

Sometimes people are invited to a dinner and don’t know when their bottles are best for drinking (OR expired) or are just simply buying wine and don’t remember how many or which kind of wine's bottles were left in their wine cellar.

## User Characteristics

Our product is intended for any wine lover to manage their wine cellar.

## How it’s work

Ewine Consists of a wine cellar connected to your cell phone which indicates with an infrared sensor the temperature of the cellar, the temperature for each independent bottle and how many bottle there are in the cellar. Moreover, there is also some pressure buttons to verify if the door is well closed. On the other hand, the customer will enter in the application the type, the producers and the year of his wine and the application will tell when the wine will be the best to drink or when it will be expired according to the type, the producers, the year, and the plot of the wine.

## Explanations

What is Ewine ?

The goal of Ewine is to be able to manage your wine cellar from all around the world. You won’t need to remember how many bottles there are left in the cellar or which wine you have left and many other features… Ewine is here to help you in that task.

Our cellar will consist in an application which link the sensors placed in the cellar to the database. The application will have multiple features : The visualization of all the bottle’s slots in the cellar with or without a bottle in it, to see the cellar temperature, if the door is well closed, which wine you have and if you want to buy some more, see how many you can buy. There will also be page for each bottle with the wine’s name, producer, year, plot, actual temperature, best period to be drink and the deadline after which the wine will not be very good. It will send notifications in the following cases : Critical drop of temperature, when a bottle is at its best period to be drink, when a bottle will be expired and need to be drink. As it will work with WIFI, there is no range limitations in order for the customer to be able to mange the cellar from anywhere.

## Document Releases

|  |  |  |  |
| --- | --- | --- | --- |
| Releases | Date  (dd/mm/yyyy) | Authors | Modifications |
| A01 | 03/10/2022 | Jules & Justin | Context + Architecture + Start FRS + Start searching Components |
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# 2. Reference Documents & Terminology

## 2.1 Technical Reference Documents

|  |  |  |
| --- | --- | --- |
| Component Name | Reference | Datasheet |
| IR Sensors |  |  |
| Pressure Button |  |  |
| STM32 MCU |  |  |

## 2.2 Terminology

Essential (Requirement)

Means that the software product will not be acceptable unless these requirements are provided in an agreed manner.

Conditional (Requirement)

Means that these requirements would enhance the software product but would not make it unacceptable if they were absent.