

# Design of Smart Jar for controlled alcohol Consumption

## Introduction

In the advent of machinery, the people discovered the necessity to compete with the machines. As everything is automated, people try to equalise the work of machines, in order survive in their work culture. So, the people forced themselves to fit on the same page and get stressed. The most common way the people get rid of stress is by consuming alcohol. Since there are no control measures for limited consumption, people get addicted to it and there are no means to control the intake of alcohol. This issue can be addressed by a smart jar which limits the consumption of alcohol

## Objective

The main objectives of this project are as follows:

- To give people a control over consumption of alcohol and to avoid over consumption of alcohol.
- To avoid accidents due to drunk and drive.
- To assist the drunk people to avoid unnecessary problems.

## Components used

The following components are used in the project:

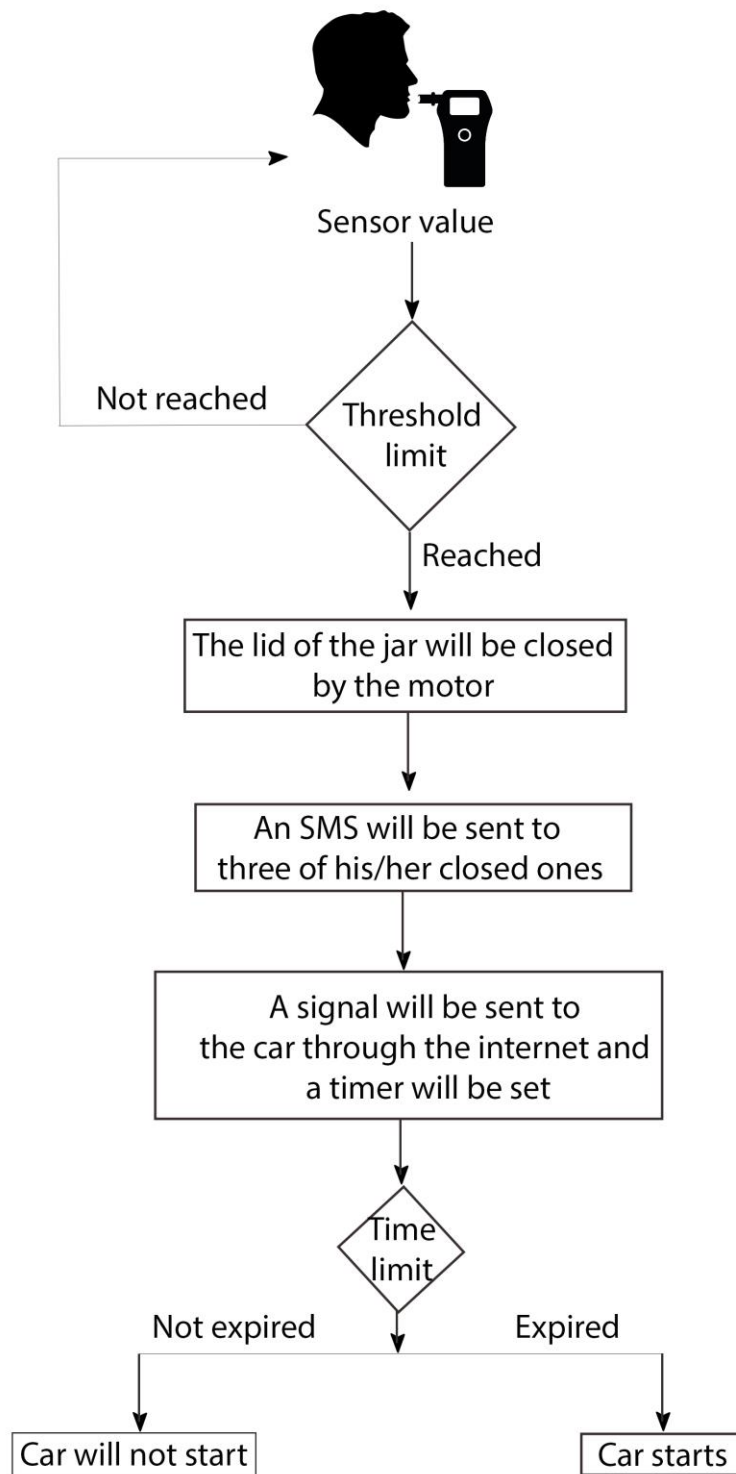
- Arduino
- Alcohol sensor
- GSM module
- Stepper motor
- Plastic jar
- Bread board
- Wi-fi module
- Connecting wires
- Voltage regulator
- 9-volt battery
- LEDs

## Working

The smart jar works by closing the lid of the jar when the threshold limit is reached and also sends an SMS to three of their closed ones. It works by sensing the breath of a person each

time they drink. The smart jar also has a level-indicator which lets the people know how drunk they are. Another important feature of smart jar is that it can be interfaced with a mobile application. This mobile application receives a signal when the threshold limit is reached in the smart jar through Bluetooth which doesn't allow the car to start for a particular period of time.

## Flow chart



## **Application**

The application of the smart jar are as follows:

- This smart jar can be used in rehabilitation centres to slowly reduce their drinking habits instead of stopping abruptly.
- This smart jar is handy for those people who want a control over themselves in consuming alcohol.
- This smart jar plays a major role in reducing the drunk and drive accidents to a greater extent.
- This smart jar will be helpful for those who consume alcohol to maintain their diet.

## **Conclusion**

Thus, this smart jar can be used to control the people getting addicted to alcohol and many drunk and drive accidents could be avoided. This smart jar will serve at its best in maintaining a good health care of people in the state. This smart jar can find its optimum usage in rehabilitation centres.