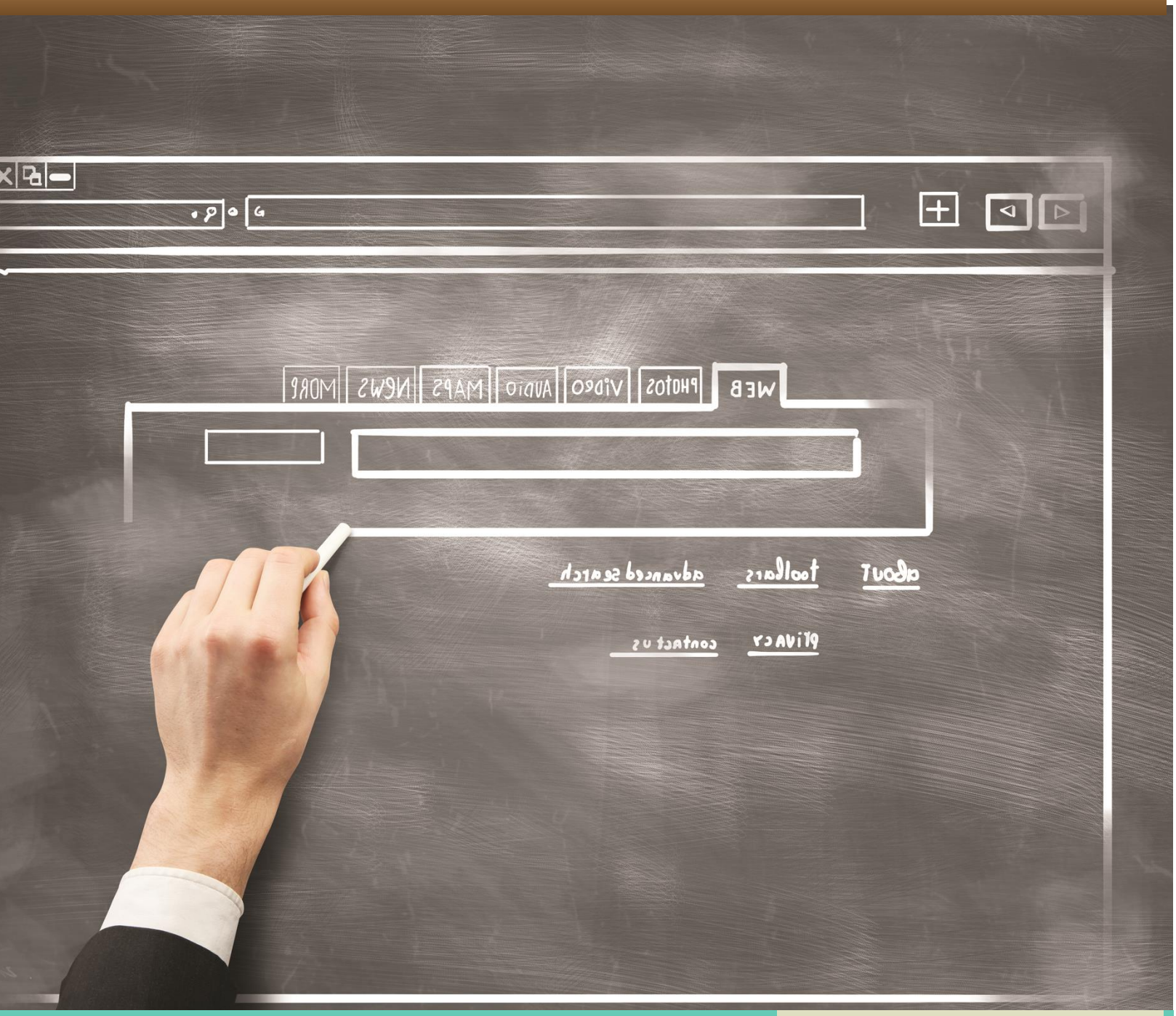
LABVIEW PROJECT



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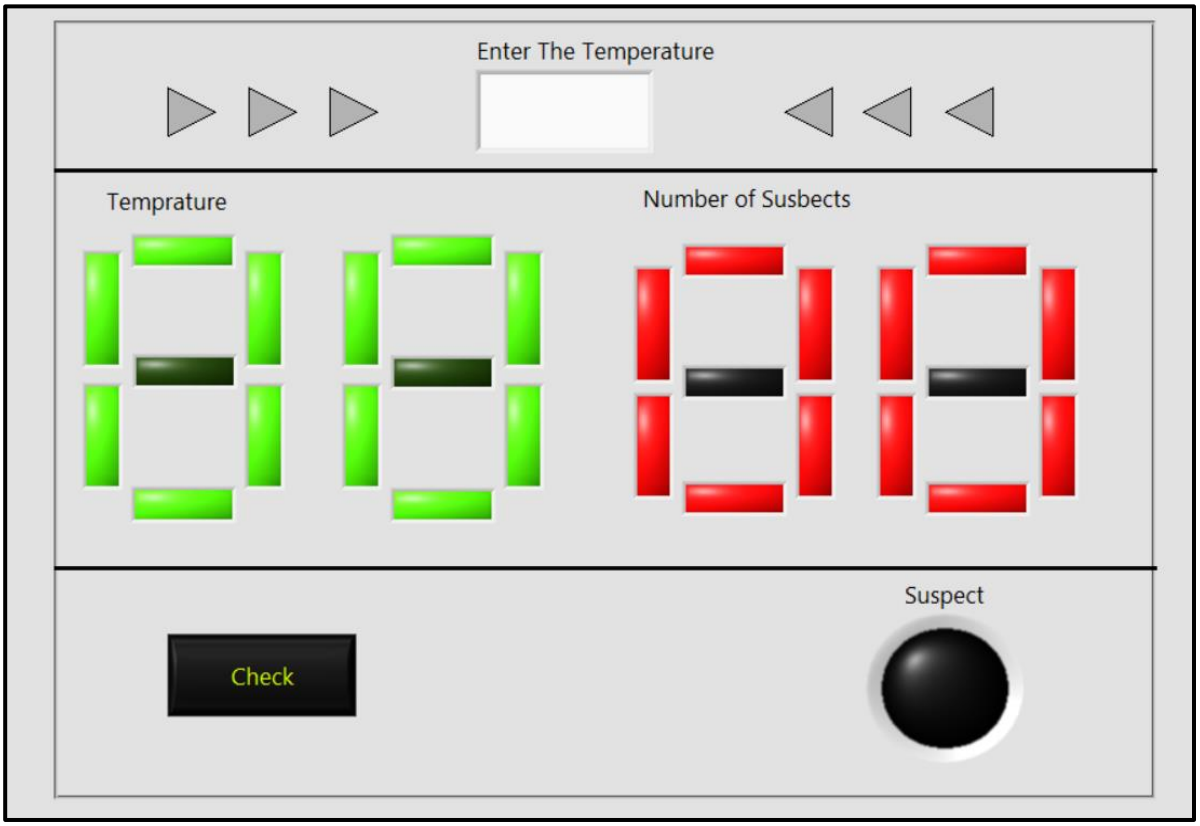
Brief Description

Because of the current pandemic of corona virus, and the process of detection is a little long to be practical to check every person enter or leaving an establishment.
This project "**Temperature gauges, or Thermal sensing for detecting corona virus**" will help to at least detect the most common symptoms of the virus which is (fever i.e.. High temperature). Then count the number of suspects persons.

To use this project, follow these steps

- Person (entering the establishment) stand in front of the temperature sensor.
- The temperature value enters to the program by a string number from the sensor.
- Using the “Check” button the program will start executing the possibility of the person being infected.
- The number between 30-47 "by default" is displayed on seven segment.
- Checking if the temperature is higher than or equal to 38 C (as most healthcare facilities detect as fever).
- If the condition is true, The Suspect indicator will light up RED and the suspect counter will add 1 automatically.
- Otherwise, there’s no suspecting of fever, and the user is free to go.
- If another person enters, the same process starts from 1-7.

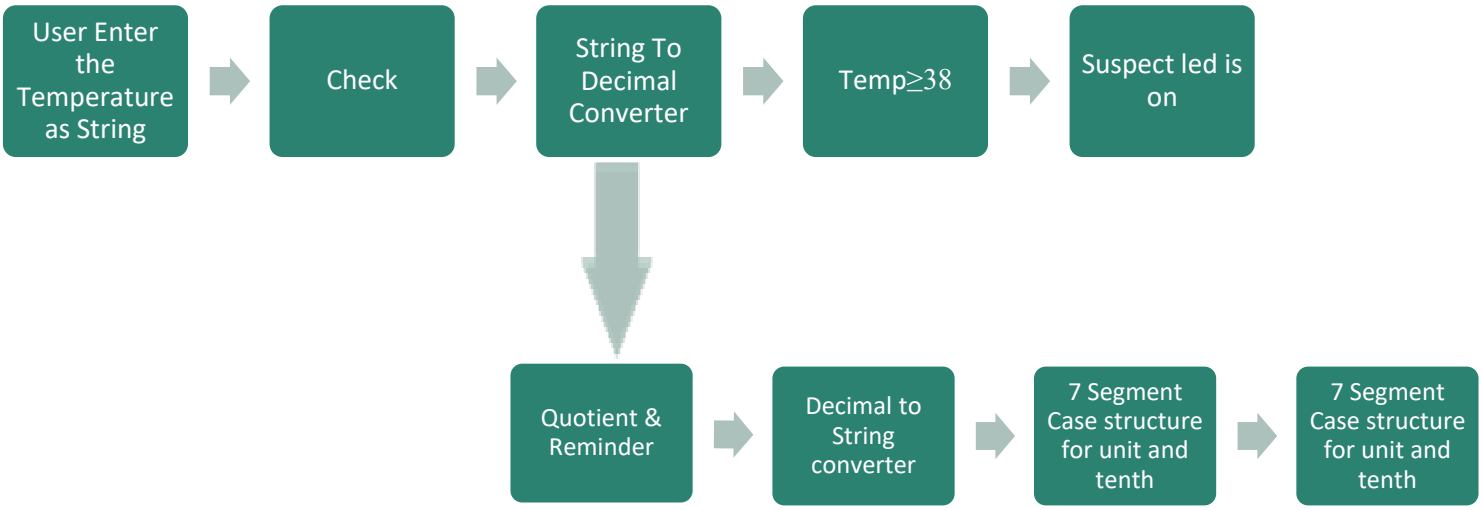
GUI:



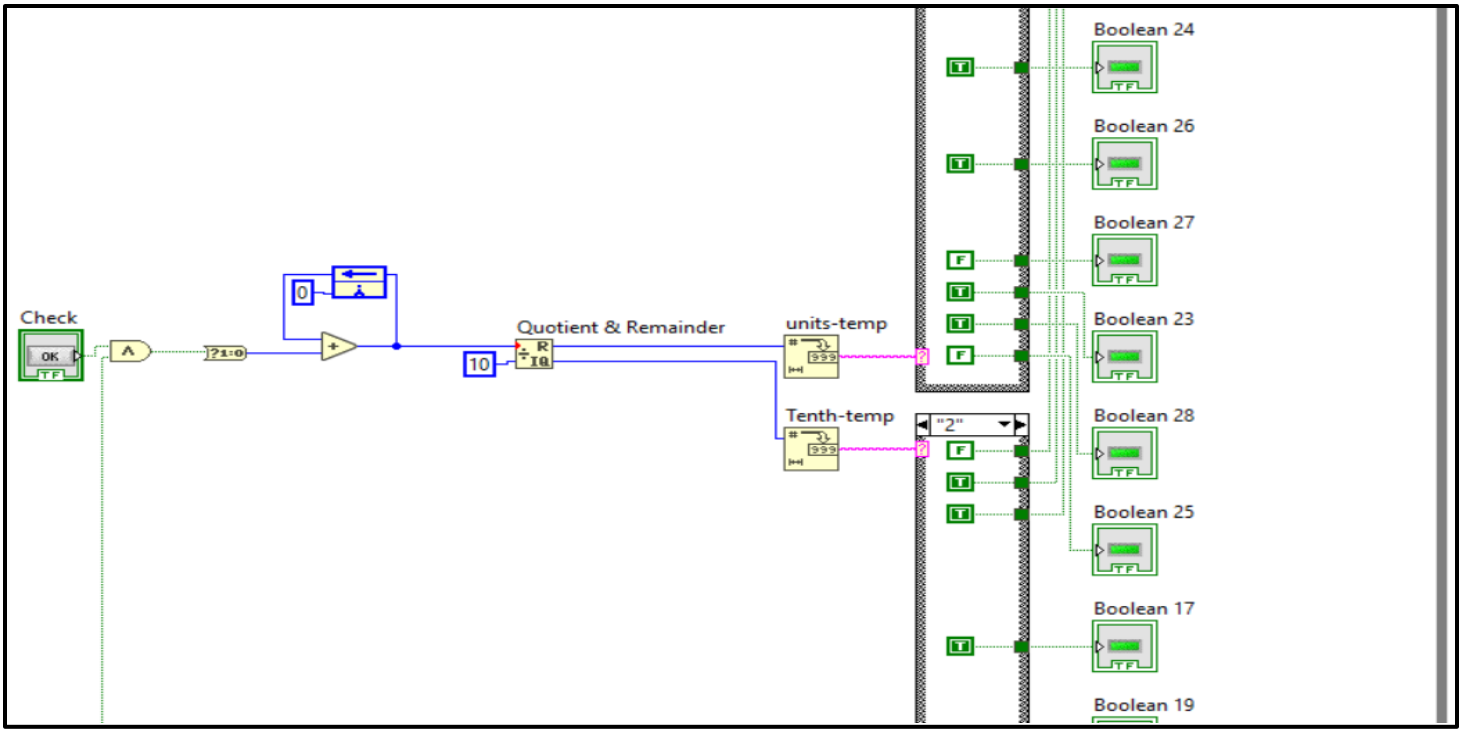
Note: This project doesn't include the Temperature Sensor but expecting an input signal from the temperature to function properly, and for the sake of experimenting, replacing the temperature will be numeric value that the user can use to test the project in LabVIEW.

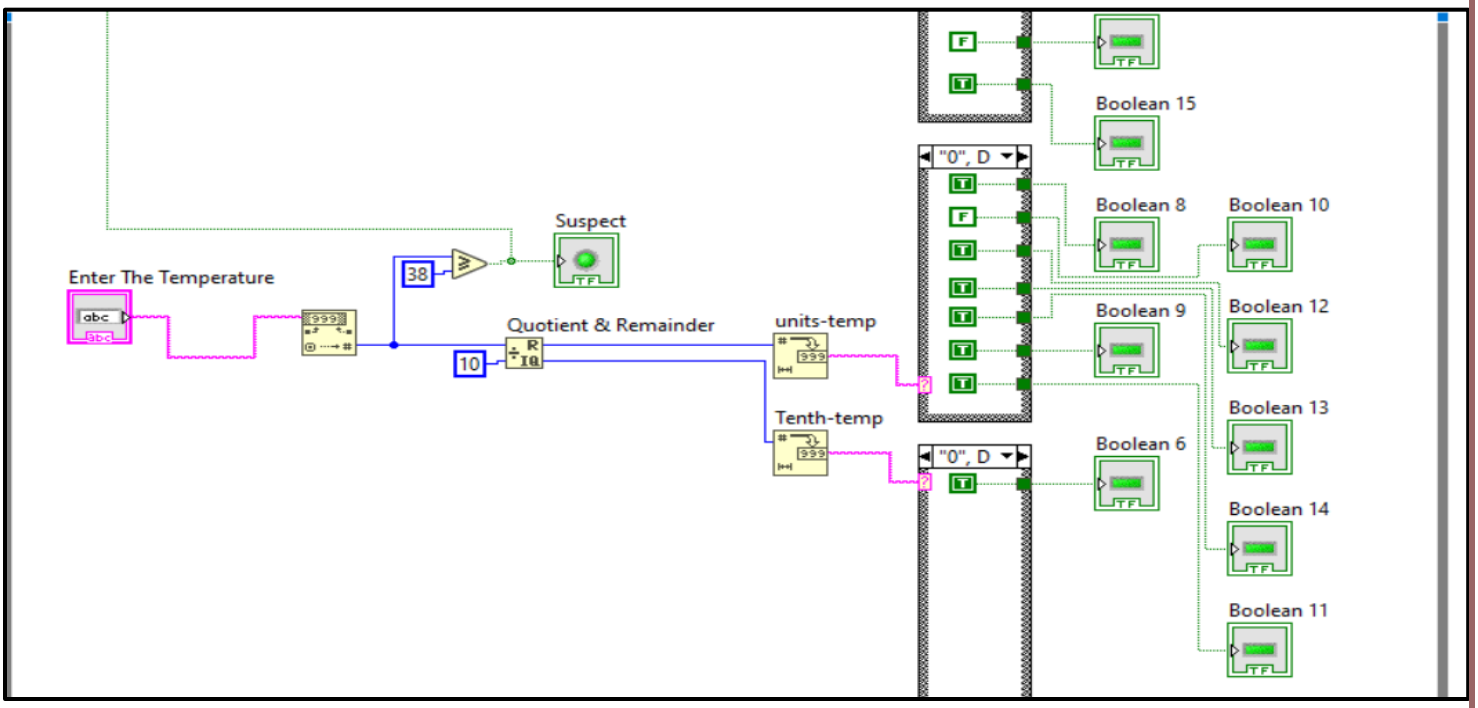
Program structure

1. Temperature Structure



2. Suspect Structure





3. Reset Structure

The Whole design is implemented in a while loop which have a function can reset the values every time the program is opened which is a great advantage.