AUTOMATIC HAND SANITIZER MACHINE

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ABSTRACT

The design illustrated shows the prevention approach that can be taken during the global COVID-19 epidemic. The most important solution to this is the AUTOMATIC HAND SANITIZER MACHINERY. We have developed a system where we can clean our hand and monitor the temperature without contact with the machine. And the cleaning spray is injected into the sanitizer of the object

Keywords: - *COVID - 19 , NODE MCU, PIR Sensor , Etc*.

1. INTRODUCTION

Corona Virus (Covid19) is causing extensive damage worldwide. Since The WHO has declared it a pandemic and many cities have been closed, people can't get out of their homes and already thousands have lost them lives. As the global Covid-19 crisis continues to spread, wash and clean toilets hands have become a perfect necessity in everyday affairs. Supported by default fog Sanitizer removal systems are a very useful tool in the fight against coronavirus.

This small contact distribution system helps to clean hands without contact with cleaning areas and will help reduce the spread of contamination pollution. This non-stick extraction unit sprays an alcohol-based disinfectant when both hands placed under it. Then 5 to 6ml sanitizer .drop on hand. we sanitizer to ensure maximum utilization. It soothes a thick mist of cone spray for 12 seconds at a time performance. The intangible technology operates with an ultrasonic sensor to ensure zero touch, high accuracy of working to kill germs on both hands at the same time. Can be on an inserted wall with LED indicators to indicate the opening / closing position and continuation of process. The power tank ensures the duration of use thus eliminating the hassle to fill it regularly. The sanitizer container allows for maximum display on it

2. METHODOLOGY

the main goal of the system is to provide a non-touch cleaner and temperature sensor

scanner. This system is different from other systems in that it incorporates a temperature sensor.

The design includes a few parameters that should be measured and prioritized, such as:

• Temperature sensor installation.

• Installation of LCD display temperature and led for show.

• Ultrasonic and PIR sensors will be installed.

• *Installation of underwater and water pumps.*

• *Use NODE MCU to synchronize all sensors.*

3. BLOCK DIAGRAM

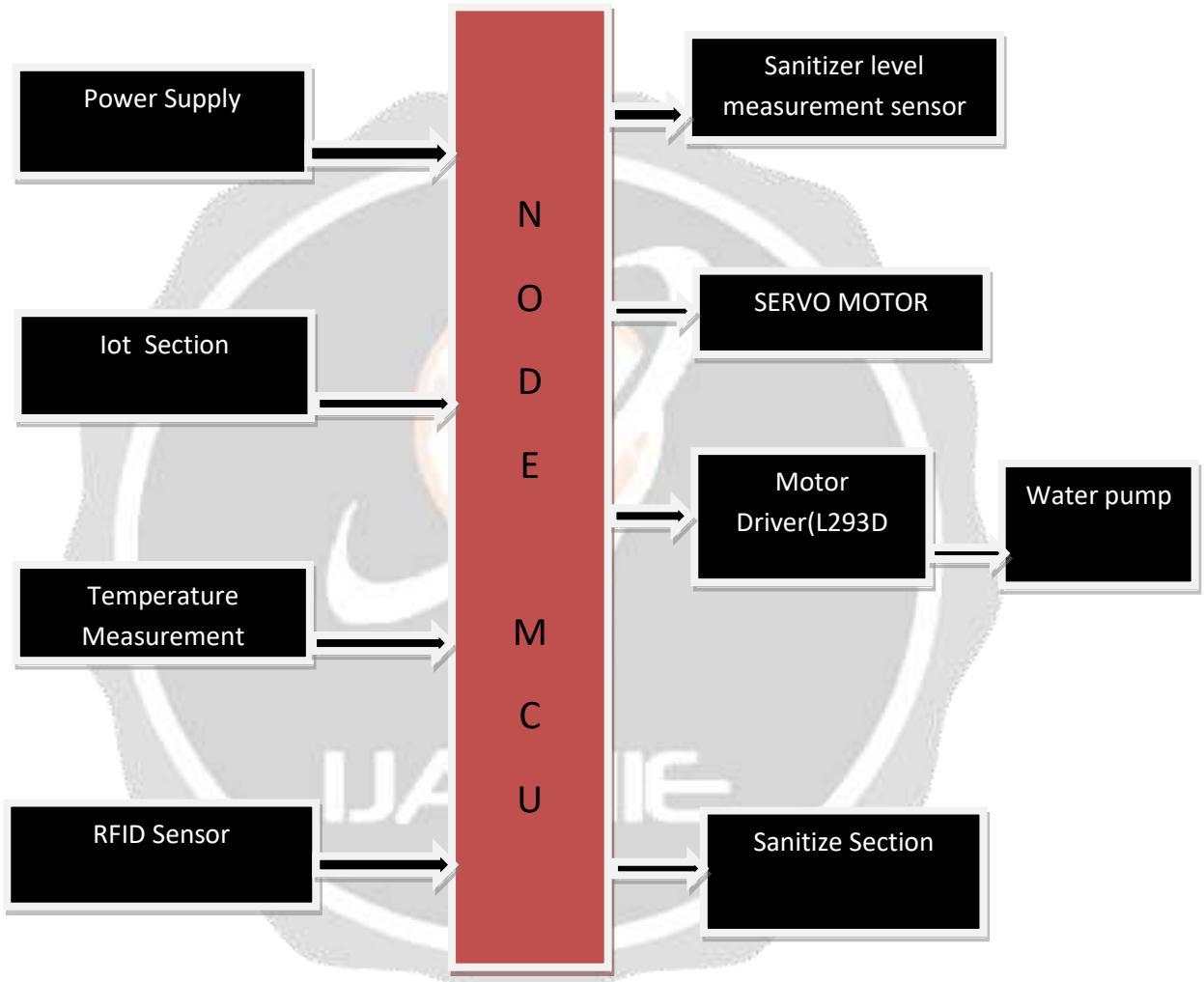

Fig.3.1 Block diagram of the proposed system

4. WORKING

When you switch devices, the sensors connected to the NOD MCU are activated. We have two programs that will work with each other simultaneously. Firstly, it is an automatic disinfection machine, and secondly, it has a temperature sensor connected to it. The ultrasonic sensor and PIR sensor are attached to the NOD MCU to detect individual/object variations and sequential movements. The PIR sensor is about 5m to 12m in diameter and each detection at a certain distance opens the filter and cleans the environment by activating the spray pump 1 connected to the fan, allowing the disinfectant to reach the environment. The ultrasonic sensor, on the other hand, defines every movement, especially near the hand, at a distance of less than 30 cm.

5. ADVANTAGES

1) This application is fully automated and does not require any human contact without setting a start time setting.

2) LCD and PC interface are both provided with RFID-based destination system. This provides the advantage of instant viewing on the LCD or away from the computer.

3) They attract attention that can enhance the hygiene of the hands.

4) Installation is easy .

5) They are to use, especially for people who find it difficult to access countertops to reach the exit.

6. CONCLUSION

Program is a low-cost system designed to withstand any environment and surroundings, it provides ingenuity and vigilance and better comfort. In addition, the NOD MCU board allows the system to be installed a much easier way. RFID technology guarantees improved performance and improved performance efficiency of business and administrative processes. All future work is expected without spending any money additional costs, even one cent in the current system. From the paper above, we come to realize that alcohol-based antibiotics are more effective than soap, and are easier to use. The paper also states that non-contact distribution is also important to prevent the spread of the pathogen and finally, hand hygiene is very important and should be part of our daily routine. life.

7. REFERENCES

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