

Informatics Institute of Technology in Collaboration With

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Automated Hand Sanitizer Dispenser with Temperature Reader

A dissertation by

Mr. Moveen Wijerathne

Supervised by

Ms. Nipuni Perera

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Abstract

The COVID 19 virus is a deadly virus. This has built an evolved situation for personal health and hygiene practices. Outside every shop a sanitizer bottle has been placed. Especially outside supermarkets and shopping malls there is a special person dedicated to check the temperature of the people who are entering the premise. The indirect contact people have through these sanitizer bottles might have an impact to the virus spreading faster. Sometimes these bottles are empty. The shop workers have no idea about this. As a result of this matter people go inside to the supermarkets without sanitizing their hands. In general practice the person who's now dedicated to the temperature checking process is the person who used to be in charge of the parking lot back in the days. So, this has tended to make problems in the parking lot now days. If supermarkets and such bodies were to hire new employees it can cost them extra cash. Sometimes these people don't do their job properly by misreading the temperature. This has led people with fever enter the supermarkets. Sometimes even though people know they have fever conditions tend to enter supermarkets without thinking about the impact this can cause other people.

Automated Hand Sanitizer Dispenser with The Temperature Reader has built with the aim of automating the process of sanitizer dispensing and the process of temperature reading. If the temperature is too high this machinery rings a bit loud alarm. It makes that person and the others around him aware about his high temperature condition. If the sanitizer inside the machine is running low this machine is programmed to send a message to a shop worker.

This machine has created to solve many of the above matters. Through the automated sanitizer dispensing procedure, we've been able to provide sanitizer without contacting the container. The automated temperature reading mechanism has been able to detect an accurate temperature reading. Furthermore, the alarm indication of the machine gives a

guilty feeling to the people who are above the normal temperature level to enter the supermarkets. This is a good strategy to prevent people selfishly entering supermarkets. Using the SMS alert system, supermarkets can prevent the sanitizer container running empty. This also helps premises like supermarkets to minimize their wage expenses since they don't have to hire a dedicated person to do the temperature readings. As mentioned above in the day-to-day practice the temperature reading chore is done by the parking lot handler and this has created some matters in that area. By using this machine supermarkets will be able to prevent this matter as well.