

Automated Door and Body Temperature Detect System for COVID Patients

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Abstract: In view of current situation the COVID-19 is found all over the world. COVID-19 is a viral disease that is spread all over the world which has caused huge loss of the populations around the world. The virus mainly targets the respiratory organs like lungs. The spreading of this virus occurs when a healthy person comes in contact with air or surface which contains the droplets of infected persons sneeze, cough or breathe through hands. As a precautionary measure it is essential that we sanitize our hands regularly to protect ourselves from being affected by the virus. It is necessary to predict the symptoms of these viral diseases to know who is infected so as to not allow them at the public places. Hence usage of automatic hand sanitizing dispenser and temperature reading systems can prevent the spreading of viral disease. One of the initial symptoms is high body temperature; it is difficult to check temperature of each person who enters the public place. In the process of checking the temperature there may be a chance of being in contact with the person who has symptoms of this virus, hence an automatic body temperature system is presented to check the temperature of entering person at the entrance and then allow the person into the entering place if his temperature is within threshold limit. The person whose temperature is not within the threshold limit is not allowed to enter the public place. In this system an attempt is made to develop a prototype for Automatic Temperature Detect System to avoid spreading of COVID-19.

Keywords: ARDUINO UNO, PIR Sensor, LCD Display, Servo Motor and Buzzer

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