



CLIMATE-BASED HOME CONTROLLER USING ARDUINO

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Abstract

The climates are changing depending upon nature. Oman's climate is very hot during summer and very cold in winter. Due to this extreme climate, all people have to use a room heater and air conditioner to adjust the temperature at their house. Summer temperature can rise to 50 degrees Celsius; Humidity can be as high as 90 percent. In winter, temperatures drop can go up to 5 Celsius. It is difficult to use water for household purposes such as washing, cooking, etc. The objective of this project is to provide cold, hot, or normal temperatures inside the house according to climate change for all countries. In addition, send notifications and alerts through mobile. We have designed an IoT device to manage the equipment (Heater / Air conditioner) based on temperature without the need for a human operator. This device cost is very less; it can be used by any kind of user whether poor or rich. If we forget to switch on the heater or air conditioner, our device will do it automatically. Also, we learned the functions of IoT devices and their programming to control the particular device.

Keywords: Cold and HoT, Temperature, Climates, IoT device.