

FAN CONTROL SYSTEM USING THE INTERNET OF THINGS (MK Tattoart, Yogyakarta City)

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ABSTRACT

Cases of negligence in using electronic devices at home often occur and often cause short circuits, for example fans, which are the most common tool found in homes as air conditioners. Owners often neglect or forget to turn off the device, or when they want to turn it on, the owner has to go to the switch first. In this research, we will implement a fan control system using the Internet of Things, where with this tool the owner or user can find out and control the condition of the fan more efficiently using an application on an Android smartphone without having to move to the device switch. This research adopts data collection methods through observation, interviews and literature studies taken from MK Tattoo Art, a tattoo studio in Yogyakarta. The results of the implementation of this research are to minimize negligence in the use of home fan equipment so that it is more optimal. When automatic mode is activated, if the DHT11 sensor detects a temperature exceeding 28°, the fan will immediately turn on. Meanwhile, when the temperature is below 22°, the fan will turn off automatically. When the detected temperature is between 23° to 27° the fan will follow the initial conditions, whereas when automatic mode is on and the initial condition is 28° the fan will only stop when the DHT11 sensor detects a temperature of 22° or can also be turned off via the connected Android application. on the fan.

Keywords: Fan, Android, Internet of Things, Control System Implementation.