Rancang Bangun Sistem Ketel Kopi Listrik Menggunakan Mikrokontroler Berbasis Android

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ABSTRACT

As many coffee shop businesses have emerged, the coffee equipment industry has begun to issue many innovations for coffee making equipment products so that in serving coffee baristas can serve coffee better and efficiently. Serving coffee, especially manual brewing techniques. When getting an order for manual brewing, the barista takes time to heat the kettle so that the water temperature can be seen using a temperature thermometer. When the water temperature exceeds the desired limit, the barista needs to wait a while for the water temperature to fall back down, as well as when the water temperature is high.
Therefore, by utilizing existing tools, researchers will solve problems and add features that can adjust the water temperature using a smartphone. Researchers will use several supporting tools such as a thermometer sensor that is used to read temperature, RGB LED as an indicator of the temperature in a coffee kettle, and a NodeMCU microcontroller. NodeMCU functions as a control center and a link to applications on smartphones. With the existing problems, this research was made with the title Design and Construction of an Electric Coffee Kettle System Using an Android-Based Microcontroller, a tool

Keywords: *Kettle, Manual Brewing, Temperature, Microcontroller, NodeMCU, Android*