

ABSTRACT

The purpose of this research is to design a user interface that can override the ignition system on a motorcycle, and monitoring the condition through Blynk. This system is expected to be integrated with the fingerprint system.

There are two steps to starting a motorcycle. First, the motorcycle must get power from the accu to turn on the fuel pump so that the engine gets gasoline in the injector. Second, the motorcycle must get current from the starter so that the motorcycle coil can start the engine. The device consist of Wemos D1 R2 as the main controller and IoT Gateway. Relay module as a switch to turn on and off the motorcycle contacts and starters. There are two inputs from the whole system, that is from the fingerprint sensor and the Blynk user interface. The expected output of the system is that it can turn off and turn on the motorcycle.

The test results obtained, the system has a success rate of 70% based on the total targeted system response.

Keywords : *Fingerprint, Internet of Things, Motorcycle, Blynk*