

ABSTRACT

Regarding the rise of shipping services, couriers as senders of goods to their destination often get problems, one of which is when the destination house is empty. This makes the courier unable to work optimally, user goods become unsafe because they are left unattended or entrusted to a neighbor. To solve this problem, a system that utilizes the Internet of Things (IoT) is needed to create a device that can help communication between customers and couriers. The device is built using the main components in the form of ESP32Cam, push button, relay, solenoid lock and whatsapp application which is useful for notification. The results showed that the system can work well, the push button can send messages that become whatsapp notifications and the blynk application can control the solenoid lock door. The test results on the camera with a distance of 5-10 cm produce images that can read the receipt number on the package, when more than that distance the package receipt number will not be visible. Furthermore, the results of the delay value on the device connection amounted to 181.5 ms, the value is included in the good category because it is between 150-300 ms.

Keyword : esp32cam, internet of things, monitoring box, solenoid lock, whatsapp