INTERNET OF THING BASED SMART DELIVERY BOX MONITORING SYSTEM

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ABSTRACT

This paper discusses the concept of the smart delivery box monitoring system on the Internet of Things. People like to shop online today because anytime you can order anything on smartphones using on the internet. Like Lazada, Shoppe, amazon, Mudah.my, etc. The regular mailbox has many user problems. First, the customer is not at home to retrieve the package when the item is shipped to their house. The customer will carry his item to the service office and save time and money. Afterward, when they were busy with their jobs, the customer did not have time to go to the post office to get their package. The item sent to the mailbox has also no sufficient security. Another problem, anyone who will steal the item in the regular mailbox. Smart Delivery Box provides a lot of advantages especially to women who like to purchase items online. Advanced technology plays an important role in our daily lives in today's modern technology world. It promoted the human way of life. The Internet of Things Powered Smart Delivery Box Monitoring system is a revamped mailbox with the potential to notify the buyer, e-shop and courier of the presence of parcels or mails. Internet of Things For that device, a servo motor and Bluetooth are used Arduino Mega (IC Atmega328), SIM900A GSM board. IC Atmega328 is the core of this project. It contains all the programming used to control the functions of this mailbox. The Bluetooth module is used as an interface for the mailman to scan QR code to open the mailbox from the smartphone using MIT app inventor. Servo motor is used to lock the mailbox door and to unlock it. The data from the QR code scanner is sent to the GSM module. The signal is sent by GSM Module to the buyer, online shop and courier smartphone via SMS. Thus, the buyer will find this project is very useful for them. The buyer will receive the parcel safely in the Smart Delivery Box.

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