

ABSTRACT

In the last few decades, the development in the logistics industry has grown rapidly. Automatic goods calculation system is useful for counting goods and grouping goods according to type, so that the warehousing system continues to run more efficiently. In this study, an automatic goods calculation system based on raspberry pi and phpmysql database. This tool can be used in supermarkets and items that are calculated can be such as food products, staple goods and others.

In this research, the writer will calculate tool for food items, primary needs, and others. With the microprocessor method to qualify the criteria, which is the results of the microprocessor method using raspberry pi and using ultrasonic sensors that can detect motion and have a more accurate level to count the items will be included in the calculation. The items counting machine performing calculations following the qrcode system to be registered in the phpmysql database, the items have core components such as sensors, processors. The sensor has the ability to count items so it will be used as an appropriate reference to counted and there is the addition of a qr code system to store information in the form of an identification number.

The results expected in this study, the tool will determined the number of items entering automatically making it easier for users to do work and assisted in calculating the amount of items entering and from the specifications of this automatic goods counter tool will be predicted the items counter is very accurate at detecting and counting. Every item that enters will be monitored uses an ultrasonic sensor to get the value that comes out of the system completely accurate and the LCD is used to find out the output of the output counter. enter every day and the qrcode system to store information on the type of goods and item identification number to be more detail and easy to record.

Keywords : *Microprocessor, raspberry pi, ultrasonic sensor, qrcode.*