Abstract

Security is a measure concern while sending and receiving data over internet. In this paper smart trolley system is designed for the shopping mall or complex is a place where people do shopping and buy product and nowadays this is becoming a daily activity. In proposed system, RFID based smart trolley system is implemented. Trolley consists of circuitry with RFID module and the Zigbee module. Each product has given a RFID tag. RFID reader reads product details from the tag and sends it to PC through Zigbee wireless communication. For the payment, data is encrypted using Blowfish encryption algorithm which strengthens the security of the data. Performance of the blowfish algorithm is measured through average encryption time, memory usage and battery consumption.

References

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Index Terms

Computer Science Security

Keywords

Cryptography; Security; Zigbee Module; Blowfish Algorithm; RFID Module.