SMARTCART

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ABSTRACT:

Shopping mall is a place where people get their daily necessities. There has been an emerging demand for quick and easy payment of bills in shopping malls. The main purpose of this work is in reducing the queuing delays in major supermarkets for billing by means of Smart Cart System which will introduce an intellectual approach to Billing Process through Barcode Scanning process. Smartcart consists of separate Database Developed for storing details of individual products, Each and every product has unique Barcode, when the customer if wants buy any product is inserted in the smart cart that will scanned through Barcode reader and display the cost and name of the product in LCD. The total cost of all the purchased products will be added to the final bill, that final bill will be saved in the raspberry pi and will be act as a memory when ever customer finish shopping the bill will be generated. It is used to save the customer’s time and also customer doesn’t wait a long time and long queue. This project is used to improve the security performance and also the speed.

BLOCK DIAGRAM:

- When a customer select an item and place it near barcode scanner, barcode on product will be detected by barcode scanner which is interfaced with Raspberry pi.
- As the items are added, its cost will get added to the total bill. The relevant product information is displayed on the display unit.
- Every product has a barcode that is an Unique ID. These ID’s are stored in the database assigned to the corresponding products. The information of the product is extracted from the database and displayed on the display.
• At the end of shopping, the customer can pay the bill and leave.

**Conclusions And Future Work :**

To conclude, this paper is about designing and developing a Smart Cart system that will simplify shopping experience of customers in supermarkets, reducing their waiting time in front of cashiers. This project proposes a unique approach in designing a Smart Cart system which is intended to reduce billing time in supermarkets. the working principle of the entire system is different from all other similar projects presented in the literature review chapter and it grants some flexibility in choice for market owners.