A Review on E-Ration Card System

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ABSTRACT

The Public Distribution System in India is the largest retail system in the world. Major problem in this system are the inefficiency in the targeting of beneficiaries, improve weighing machines used an illegal selling of goods. Automated public ration distributed system aim to replace the manual work in Public Distribution System there by reducing the corruption an illegal selling of stock. This paper gives the review on the E- Ration card system to distribute the grains automatically. The proposed system is used the conventional ration card which is replaced by smart card by using RIFD card. The RFID card redirect to the web of the shop , the required item are selected and payment is done and then item are collected from the machine. In this system, the government has control overall transaction that occurs in the ration shop and all the stock records are updated to the government databases so as to refill the stock with material thereby reducing the corruption.

Keywords: Public Distribution System, Database, RFID card EM-18 Reader Module

I. INTRODUCTION

Public Distribution System is an Indian food security system with an network of around 5 lakh people. Established by the government of India under ministry of consumer affairs, foods ,public distribution and manage jointly with state government in India, it distribute subsidy food and non food item to India's poor people. This scheme was launched in India on June in 1997. Major commodities distributed include staple food grains, such as wheat ,rice, sugar and kerosene, through a network of fair price shop also known as ration shop. Established in several states across the country. The most important food security network is considered by coverage and public expenditure. The major problem associated with this system is robbery of grains from the essential commodities without there knowledge. The Public Distribution System today support over 45crores in Indian BPL with monthly supply of subsidy food grains. The central and State government state share

the responsibilities of regulating the Public Distribution System. While the central government is responsible for procurement, storage, transportation, and bulk allocation of food grains, state government hold the responsibilities for distributing the same to the consumer through the established network of fair price shop. State government are also responsible for operational responsibilities including allocation and identification of family below poverty line(BPL), issue of ration card , supervision and monitoring the functioning of fair price shop. However, there are concern about the efficiency of distribution process.

The Government of India as having a unique identification (UID) numbers system called Aadhar number, which contain all general information like age, count of family, fingerprint of family, address, contact number, bank account information etc. for every resident of country. User using the Aadhar number and the contact details, the government can send a message (SMS) to the individual, containing information regarding quality and quantity of product

od products allocate to him/her in reflective ration shop. The person would have to show the RFID card on the system plays at ration shop counter, The reader detect the card and redirect to the shop web page. The user name and the password is enter by the user for safe transaction. The required material are selected by using the check boxes. The payment is made either through payment gateway using wallet. Central database is updated about the stock detail immediately after every transaction.

II. RELATED WORKS

Existing research efforts relate to automate the public distribution system mostly consist of RFID smart card and EM-18 Reader module. This system are used for reducing the human power in the public distribution system. Automated system uses the RFID card and is used for user authentication. An efficient method for the user to buy the products in the ration shop is buy just scanning -the card at the RFID reader at the ration store. The user authentication is done by sending the random password text to the user mobile which has to be enter in the keypad. The purchase is validate by the employ inky after the detail are enter in the window application which store user personal and purchase information . Here the user can check there purchase in dedicated web site. The proposed methodology for automation in the ration shop is to reduced the improper measurements in the ration shop due to various factors. Further updating to the government database about the stock availability and the customer detail where not carried out.

FLOW CHART
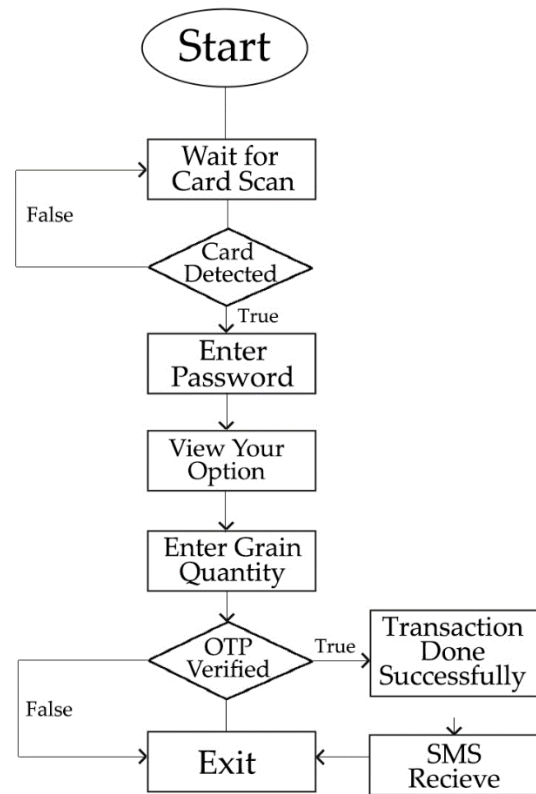
HARDWARE

These valves are used to stop the flow of a fluid or start the flow of fluid in a piping configuration. A 2way valve has the two port connections a pressure or input port and an outlet port. Usually , a 2-way valve is referred to as 2/2 valve, which means the valve has to port and 2 position. The position are : 1)normally open 2)normally closed.

SERVO MOTOR

Servo are used in the radio control airplanes to position control surface like elevators walking a robot or operating gripper . Servo motor are small have built in control circuitry and have to power for their size. In food services, the tools are designed are used in harsher environment, where the potential for corrosion Is high due to being washed at the high pressure and the temperature rapidly maintained strict hygiene standard.

RF READER

RF is Radio Frequency Identification Reader (RFID Reader) is device used to gather information from an RFID tag, which is used to tag individual objects. Radio webs are used to transfer data from the tag to RFID reader. RFID is similar to the theory for bar code technique.

III.CONCLUSION

Here we studied the existing system, there is a chance for illegal activities such as making wrong entries without knowledge of card holder. If they do not buy any material at the end of the month than they lose their grains and kerosene. The proposed system will overcome this problem, our system automatically update the account of the customer after every withdrawing of grains and kerosene.

IV. REFERENCES

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