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Title: **SMART RATION DISPENSING SYSTEM USING BIOMETRICS**

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SMART RATION DISPENSING SYSTEM USING BIOMETRICS

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ABSTRACT

In India after the freedom the people suffered from poverty after the few decades the government came with a solution to remove the poverty of India. The people in India to survive the food was the major problem so to overcome this problem the government of India made the ration card to fulfil the ration in all over India. But now a days in the system there is a lot of corruption because of there is a no automated system in ration distribution all process is in manual. To overcome this problem we are introduces the automatic ration dispensing system.in this system the measuring mistake and corruption can avoided to give the intimation to the government and customer with using automated process.

KEYWORDS Biometrics, GSM, Keyboard, controller.

1. INTRODUCTION

Ration card is an important aspect in India it is used as address proof of family or a person.in India ration card holder get subsidized grocessories in FPS distributed by government .But in Fair Price Shop (FPS) have lot of corruption because of manual work. There is no automated system. Overcome this problem we introduce the Smart Automated Ration Dispensing System.in this proposed system the main aim is to avoid corruption increase the efficiency.in smart ratio dispensing system the ration card get replaced with the biometric and GSM(Global System For Mobile).If you want a ration controller checks the thumb impression with id number stored in base station. Once the authentication is done by the user, after that it shows automatically materials with weigh in LCD display. Customer select the grocessories (Rice,

Sugar, Wheat etc.)Press the key Dispense the materials as per the fixed weight of each person in family. After dispensing is over it will send the message to customer and government server through using GSM technology.According to survey this system is for providing food grain and oil supply to over 45 crore Indians Below Poverty Live (BPL) at discount prices as well as remaining Above Poverty Line (APL) people at a concise and fixed rate. The Fair Price Shops (FPS) employ more than 4.5 lakh people in Karnataka alone according to 2016 survey.The entire budget accounts for only 25 % worth of stock yearly reaching the eligible Indian citizens. But in this system public funds going to waste, so overcome that our proposed system have a good solution to this problem using smart systems, IOT and automation.

2. RELATED WORK

Anshu Prasad[1] In this proposed system use the both the Biometric, SMS, Gateway and Radio frequency identification (RFID) tag. Customer take the ration they have RFID tag. Without RFID tag they cannot take the grains in fps. After distribution they send message to customer and government server Base station. The user will also have to provide thumb impression on the biometric machine.

Dr.M.Pallikonda Rajesekaran[2] Civil Supply distribution system now a days it faces lot of issues like corruption, smuggling of goods and adulteration in goods. It happen in the Fair Price Shop (FPS) in the rural and urban areas in India. Also include the irregular measurement and wrong entries in Register, to give fake details to customer and government. The system having manual work so wrong stock of commodities information to supplied or delivered to the consumers.

Jain College Of Engineering[3] In the work presented here, a technique has been developed to read all the information from a centralized server automatically using the internet for computers.in the proposed system, every family will have a separate RFID (Radio Frequency Identification Device) card. These cards are magnetic and they will contain beneficiary's information. Whenever a beneficiary gets the commodities from FPS (Fair price shops) all the transactions are recorded in the server.

3. PROPOSED METHO

Smart automatic ration dispensing system is solution for the exiting problem. Fig 3.1 show block diagram of proposed method.

It uses various method to overcome that. The customer went to the shop the quantity of weight required by the customer can be taken automatically by the stored family details in database after given the thumb impression. After that materials will display in LCD with quantities. Then the customer will select the materials like rice, wheat. Ones the material selected then grains can dispensed to the dispensing unit with show the weight to the customer. That replace the manual work with automatic work. the process will start with fingerprint after that process will start a small door-like opening in a container placed at a height, above the place where the container is used to store the grains be opened by a stepper motor. The grains start getting collected in the dispensed unit. The weight will keep increasing continuously. After dispensing the particular weight container will automatically closed the stepper motor. Stepper motor acts as an open and close door for container. It will open the door when the authentication is done .After it will take the opened the door-like opening in the container of grains. It will close that opening, as the required quantity has been reached. The customer details will stored and maintained the government server base station.

BLOCK DIAGRAM

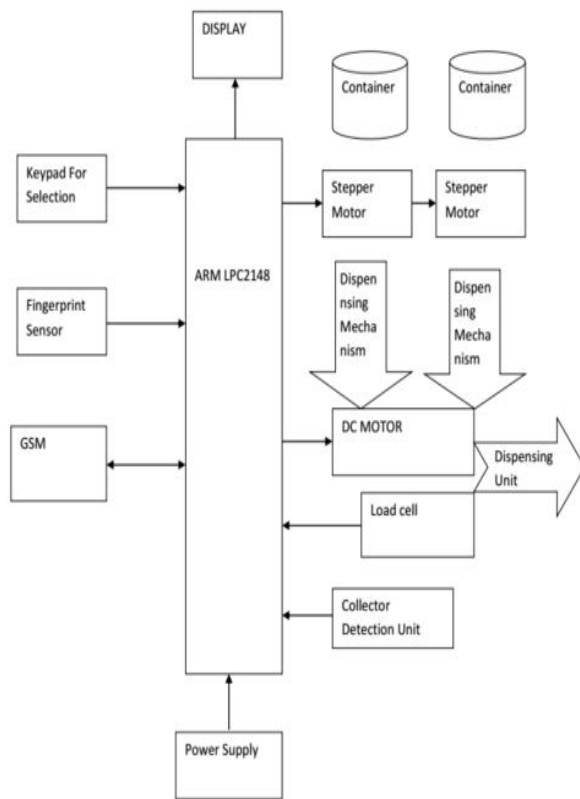
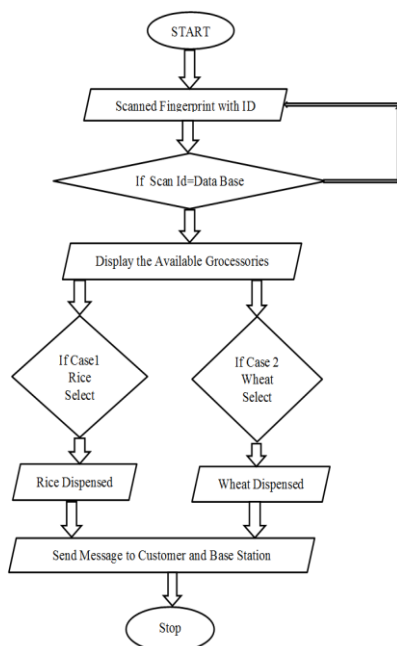


Fig 3.1: Block Diagram Method

Flow chart



4. RESULT

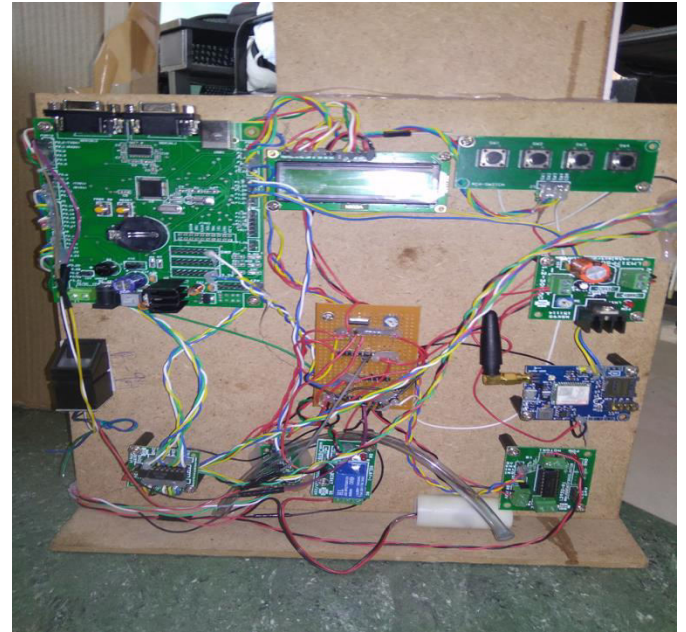


Fig 4.1: hardware module



Fig 4.2 : display the process



Fig 4.3 : Sending SMS

5. CONCLUSION

The proposed system is implemented to develop an efficient automated mechanism of ration distribution system .which incorporates a biometric identification module for verification and transparency.so that it provides security for preserving individual identity and corruption and illegal smuggling of goods.

6. REFERENCES

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