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Synopsis On

**Automatic Secured System For Public Distribution Shops**

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*in partial fulfillment for the award of the degree of*

# *Bachelor of Engineering in Computer Science & Engineering*



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[www.msrit.edu](http://www.msrit.edu), **May 2016**

**AUTOMATIC SECURED SYSTEM FOR PUBLIC DISTRIBUTION SHOPS**

**Introduction :**

India’s Public Distribution System (PDS) is the largest retail system in the world [7]. Public distribution system provides a ration card [6] issued under an order or authority of the State Government for the purchase of essential consumer materials like rice, wheat, kerosene and oil. State Government issues distinctive ration cards like yellow ration card, saffron ration card, and white ration card depending on family annual income. The consumer material is supplied to ration card holders in the first week of every month by ration shopkeeper*.*

Public Distribution System is one of the widely controversial issues that involve malpractice. The manual intervention in weighing of the materials leads to inaccurate measurements and/or it may happen, the ration shop owner illegally uses consumer materials without prior knowledge of ration card holders.

## Objective :

The main objective is to design a method to eliminate the corruption from public distribution system by adopting multi model biometric system as secure method. Major commodities distributed include staple food grains, such as wheat, rice, sugar, and kerosene, through a network of public distribution shops (also known as ration shops) established in several states across the country. Many FPS dealers resort to malpractice with illegal diversions of commodities.

To eliminate such malpractices a robust mechanism is needed and such mechanism should be fool-proof so that malpractices can be completely avoided. To arrive such method we are proposing biometric authentication with online Signature and Hand gesture.

To achieve the objectives specified above we are proposing Automatic Rationing System with Multi Model Biometric Secure System. In this project Online Signature verification and Hand gesture using Accelerometer as biometric devices are proposed. Linking Adhar card and automatic deduction from bank accounts of customer during transaction are incorporated to eliminate manual intervention. All the data base system is read-only making the system even foolproof and no one can edit the data manually.

Flow Diagram :

Start

Enter signature with Stylus

If both matched

Start bank transfer

No transaction

Enter Gesture

Database

Yes

no

*Fig – 2: Control Module*

Update Database

Exit Thread

Conclusion :

The existing conventional ration system has the basic issues of renewing the ration card every year by the employees to the malpractices done by the ration store dealers like diverting food grains to open market to make profit. To tackle this problems the “Cloud-Based Ration Card System using RFID and GSM Technology” , presents an efficient method for the user to buy the products in the ration shop by just flashing the card at the RFID reader. The user authentication is done by sending a random password text to the user mobile which has to be entered in a keypad. The purchase is validated by the employee only after the details are entered in a windows application which stores the user’s personal and purchase information.

**Referenes:**

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