

A Survey Paper on Ration Card using Biometrics & SMS Gateway

Miss. Nikam Neha¹ Miss. Kolpe Priyanka² Miss. Jadhav Akshada³ Miss. Mengal Pooja⁴

^{1,2,3,4}Department of Information Technology

^{1,2,3,4}SND Coe & Rc, Yeola, Dist- Nashik, State- Maharashtra, India

Abstract— Nowadays, Ration Card is very important for required and need homes. Generally ration card is used for family member details for gas connection and also ration card is at as an address proof etc. All the needed people who are having ration card can buy various material from the ration shop like (sugar, rice, oil, dals) in less rates that from other shops. But this ration cards system faces two drawbacks:- First the shopkeeper who weighted the material can be inaccurate because of his mistake. Second is if the material is not buy at the end of the month they will send to others without permission of the government. To overcome this drawback we have proposed in this system bio-metrics and SMS gateway to prevent the ration forgery. In this system, a thumb and finger tag is used that carries family member details and the customer needs to show this tag at the ration shop. If the user is found authenticate then the quantity of ration to be given to customer according to the total number of family member will be displayed on the personal computer. This ration card is free from theft and forgery as the information about the delivered ration will be send directly to the government and customer through SMS gateway.

Key words: SMS Gateway, Biometrics, Webcam

I. INTRODUCTION

Ration card is one of the most important documents in India. The ration card is mainly support for purchasing the foodstuffs and fuel. It is used in identification process while making passports, PAN cards, Aadhar card, and act as an address proof for citizens of India. It also provides connection with government databases. Our proposed system eliminates the drawback of existing system by making used of biometrics technique. Biometric technique will be used to authenticate the users as biometric details are unique for each person, even of identical twins. The Thumb and Finger Tag will contain all details of user and his family.

This system will be provided to every registered user which can be used as a ration. Each ration shop will have thumb reader which can read finger print. Any user who wants ration will have to take their finger print through the reader. Whenever any user press the thumb or any finger print it will checked in the database whether the user is valid or not. When a valid user will match through the biometrics scanner, the amount of ration taken by him will be displayed on computers and also deducted from his monthly ration quota. If any person can't take ration then our system will continue send the message upto the 4 months after the 4 months we will send the alert message to the customer that if you are not responding to your monthly quota then the system will block to you. Further, all details will also get updated in government database at each level. To show transparency in the system, transaction details will be send to the customers registered mobile number via SMS.

II. LITERATURE SURVEY

A. Adhaar Card

1) Advantage

- a) G-UID and centralized, online identity verification would be the basis for building these multiple services and application, and facilitating greater connectivity to markets.
- b) G-UID would also give any resident the ability to access this service and resources, anytime, anywhere in the country. G-UID would also be a foundation for the effective enforcement of individual rights. A clear registration and recognition of the individual's identity with the state is necessary to implement their rights to employment, education, food, Human Resources etc. The number, by ensuring such registration and recognition of individuals, would help the state deliver these rights.

B. Disadvantages

- a) No one can provide more than one G-UID number.
- b) The sun symbolizes a promise that shines on all resident equally the number would enable access to services and resources for everyone, including people who have long been disadvantages, such as a marginal groups, migrants, and women and children.

III. PROPOSED SYSTEM

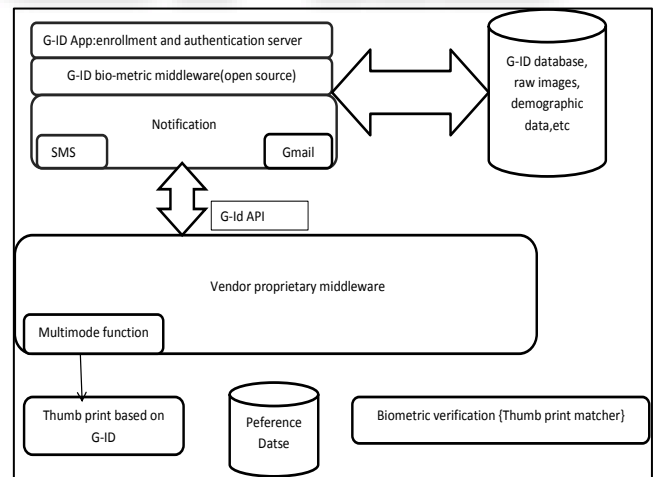


Fig. 1: System Block Diagram

This system will be provided to every registered user which can be used as a ration. Each ration shop will have thumb reader which can read fingerprint. Any user who wants ration will have to take their fingerprints through the reader. Whenever any user press the thumb or any fingerprint it will check in the database whether user is valid or not. When a valid user will match through the bio-metrics scanner, the amount of ration by him will be displayed on computer and also deducted from his monthly ration quota. If any person can't take ration then our system continue 4 months send

message then after 4 months send alert message in next months he has not response then he will block. Further, all details will also get updated in government database at each level. To show transparency in the system, transaction details will be send to the customers registered mobile number via SMS.

IV. ADVANTAGES

- 1) User Friendly.
- 2) Reduce corruption.
- 3) Avoiding irregularities in distribution of grain Increase storage utilization.
- 4) Active contribution toward step towards digital.
- 5) Stock maintenance's in the distribution center.

V. APPLICATIONS

- 1) Applicable in government sector.
- 2) We can use to develop an online database for large number of users and receive an acknowledgement for the delivered message.
- 3) Similar digitized web applications.
- 4) On successful authentication SMS is sent to user.
- 5) Useful in providing transparency to both government and consumer.

VI. CONCLUSION

Using this system we can have better management of ration distribution. Government can have indirect check on the availability of the ration to the beneficiary. It is transparent and has control over prices of some item in the open market. Validate user will take ration, if user not valid then he can't use fake ration cards. This system helps to modernize traditional rationing and reduce corruption up to a great extent.

REFERENCES

- [1] Anshu Prasad ,Aparna Ghenge ,Sonali Zende, Smart ration card using RFID, biometrics and SMS gateway in Vol. 2, Issue 11, November 2013.
- [2] M. Agarwal M. Sharma B. Singh Shantanu "Smart Ration Card Using RFID and GSM Technique" International Journal of Computer Application (IJAC) 2014.
- [3] Muhammad Saleen Kyung-Goo Doh "Generic Information System Using SMS Gateway" IEEE international Conference on Computer Science and Convergence Information Technology 2009.