Review on Public Ration Distribution System By Using Authentication OTP

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Abstract: **Public distribution system is a conventional system that involves corruption and illegal distribution of goods. Government of India Provides a Ration card to poor and people who is below poverty line. All people having ration card to buy material from the Shop. But in conventional system some drawbacks occurs that one is the weight of the material may be inaccurate due to Human Mistakes and another , if material is not taken by any Ration card holder then shopkeepers are doing miss use of these things by selling in the market and doing the corruption and irregularities. To avoid these illegal activities. This paper proposed the concept of automatic rationing system which replaces the manual work in rationing distribution by using Authentication OTP. This provides effective system through which government gets acknowledgement of consumption of food grains by people. Government would have all required control over the transaction at ration shop. This would bring transparency in rationing distribution system as there will be direct communication between people and government**

I. INTRODUCTION

In this section, we are going to provide a brief introduction about automatic rationing for public distribution system (PDS) using Authentication OTP technology to prevent irregularities & corruption. Using the contact number and details Information about people, the Government can send a message (SMS) to the individuals, containing information regarding quality and quantity of products & one authentication OTP allotted to him/her in a respective/specific ration shop. Ration card is a very important proof for each citizen in India. Ration card is used to buy diverse vital items like sugar, oil etc. from the ration shops at a less expensive fee, issued via the government. Once authenticated, automatic rationing system would get updated information regarding the existing subsidies for the current user. User can only take the subsidies on products allotted to him/her by Government according to the available database records. Central database would be updated immediately after every transaction made by the users.

II. LITERATURE REVIEW

The most of the people having a ration card to buy the materials from the ration shops. When get the material from the ratio shop, first need to submit the ration card and they will put the sign in the ratio card depends on the materials. Then they will issue the materials through weighting system with help of human. There is chance to sell the material to unauthorized person without intimation to owner. Whenever an unauthorized person try to use the ration card then simultaneously get alert to specific person through GSM. Based on RFID technology it is used to provide security for authorize person i.e. family members but in this system huge amount of data storage is not applicable[3].

III. EXISTING SYSTEM

Fig.1.

The classical system of Public Distribution System (PDS) established by the Indian government for provides food security to the people. There are various ration shops in the entire nation where there are employees who give the people various commodities like food grains, oil, kerosene etc. The customer has to go the ration shop and ask the employee to give the commodity and the amount he needs. The employee then manually measures it and gives it to the customer. This transaction also needs to be added in to the ration card.

This is the total interaction which takes place. This system faces with various problems. As there are many ration shops and the customers coming to buy from ration shops are normally believed to be below poverty line and illiterate, the customers are fooled to a large extent. There are complaints related to the quality of the product they receive, the quantity they receive is many a times less than the quantity demanded by them as the employees steal from it. Moreover, they end up paying more for the quantity they receive. Also the quantity which is added in the ration card is wrong. So they cannot buy more the next time they need. So there is a lot of cheating and fooling of the customers that takes place[3].In the existing system, works like product distribution, ration card entry, product weighing, product delivery are done manually.

IV. PROPOSED SYSTEM

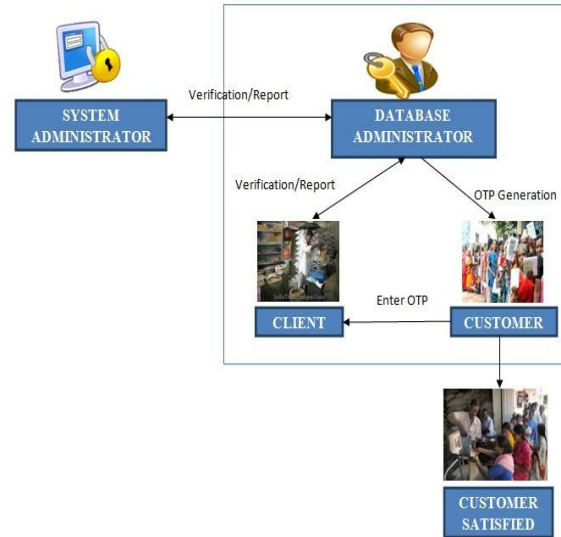***In the proposed system we will develop the Public***

Ration Card System based on the OTP(One Time Password) , in which the user can enter OTP And also the manual working is reduce. When user got the OTP message on mobile this OTP is valid for only three days. If user not enter the OTP within three day's then user not able to take the grocery. When user wants a ration, he/she come in to local distributor shop then enter the OTP and check whether the user is valid or not. The OTP verification of that user also check and the allocated ration is distribute to that particular user, changes of adding and issuing of ration is done automatically in the administrative database. In our system the user can enter the OTP on the computer in allocated local distributor shop and then the system will check whether the user is authenticated or not if user is valid then show the allocated grocery and amount of that grocery display on the computer screen. Local distributor distribute that grocery to particular customer. Then customer take that grocery and pay the money to the Local distributor and exits. After user enter the OTP if user is valid then one text message is send on user's primary mobile number. If user is not valid then exit or the user not able to take the ration.

A.OTP:

OTP(One Time Password) An OTP is more secure than a static password, especially a user-created password, which is typically weak. OTPs may replace authentication login information or may be used in addition to it, to add another layer of security.

V. SYSTEM ARCHITECTURE

Fig.2.

VI. CONCLUSION

A system we can avoid corruption in ration/public distribution system to large extend. This system is greater scope in future. As there is no manual data stored & all information is stored in database. The higher authority can check the details. Properly distribution of gains to customer.

REFERENCES

[1] International Journal of science technology & management vol.No.4,Issue No.12,dec 2015 A PROTOTYPE OF AUTHENTICATION RATION CARD SYSTEM Desam.Sivaramireddy1, G.V Ramana Reddy2 1 Pursuing M.Tech, 2Associate Professor, Nalanda Institute of Engineering and Technology (NIET), Siddharth Nagar, Kantepudi Village, Sattenepalli Mandal, Guntur Dist, AP, (India)

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