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Anti-Corruption Based Ration Distribution System

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Abstract: ***Ration distribution is one of the wide issues that involves corruption and smuggling of ration. Illegal activity occurs because of manual work and this activity includes illegal ration distribution, fake registration, low quality product, shopkeeper sell ration in open market, etc. people have no ideas about product quality and there prices. Huge amount of government money and ration product get used in unproductive manner which in turn affect negatively on common people who survive on ration. We propose the system which is "Anti- corruption Based Ration Distribution System" an advance ration distribution system which blocks loopholes in the system which majorly impacts on ration system.***
Keywords: Automated Teller Machine, Class Ratio, Fair Price Shop, Public Distribution System and Unique Identity.

I. INTRODUCTION

Ration Distribution system through provide ration to poor peoples. It is established by the Government of India. The PDS (Public Distribution System) is used to distribute wheat, Rice, Sugar and kerosene to India's poor people who are valid ration card holders. The validity and the allocation of the ration cards are monitored by the state governments. A ration card holder should be given different quantity of foods grain as per the ration card type of PDS. Ration distributed system is CR (Class Ratio) format distributed. There are different class of ration cards like Orange, White, yellow, etc. The allocation of ration cards is depends on user annual income and his identity of residency. The below poverty line get the yellow ration cards families annual income up to 50,000. The white ration cards are given to those families whose annual income above 2 lakh. The orange ration cards are given to those families whose annual income between 51000 to 1 lakh. In existing system there is manual work of ration distribution because of that corruption increases. To reduce the corruption here we are going to use online system for ration distribution purpose. Using this system peoples can get there grocery items from the FPS (Fair Price Shop). The main reason for using this online system to computerized is to remove the drawbacks of the present way of issuing products based on ration card. Also many retail shopkeepers have large number of fake ration cards to sell food grains in the open market. Many FPS dealers sell foods in open market to get more profit.

In urban areas, kerosene and goods is supplied to ration card holders in every month and the ration shop keepers are taking records of distributed rice, sugar, wheat and kerosene to cardholders a minimum of three or four days a week. But strangely, in rural areas, the general public is complaining that kerosene and goods is not supplied to them properly. Most of the times users do not get proper rations at same price provided by government. So in order to avoid all these drawbacks we are going to use the "ANTI-CORRUPTION BASED RATION DISTRIBUTION SYSTEM" which will help us to avoid the corruption in PDS.

II. LITERATURE REVIEW

This system is used for booking ration online by using website to reduce the corruption and peoples get the proper and good quality of rations. By using this system people save time and money.in this system for purpose unique identity aadhar card is used.

Rahul J. Jadhav, Dr. Pralhad K. Mudalkar [1] proposed Smart card based e-PDS system in which the ration card is replaced by the smart card which contains all user details. For purchasing ration people must use smart card for their identity.it also defines the role of administrator as well as ration distributor.

Mahammad Shafi, K. Munidhanalakshmi [3] proposed e- ration shop in which they using biometric devices to give information related to card holders. In this system a fingerprint scanner is proposed to be used as a biometric device. Since the fingerprint of the peoples are already in the database of aadhar card.

S.Sukhumar , K.Gopinathan , S.Kalpanadevi, P.Naveenkumar, N.Suthanthira Vanitha[4] proposed Automatic Rationing System Using Embedded System Technology. In this research paper, the proposed concept is to replace the manual work in public distribution system. The ration distribution system is automated by using Programmable Logic Controller, which is similar to the ATM. This automated ration system replaces the conventional ration card system by smart card. In addition, the finger print detector

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is placed in the machine in order to check the correct user access

III. PROPOSED SYSTEM

Ration Distribution System is to give information related to card holders and to record all transactions done by the card holders and shopkeeper. In this system, online website is proposed to be used. In our project aim to reduce corruption and properly supply foods to ration card holder. In Ration Distribution System structure all customers have to register for online account. The registration is done at main control station. For registration all customers have to provide their personnel details about their family, ration card and aadhar card. After this head of family is provided with user id and password which is used to buy their monthly ration. When the ration is dispatched to a ration shop a message is sent to the shop. The message contains the quantity of grains allotted for this month as well as message is send to all customers related to the particular ration shop to alert the customers that their monthly ration has been arrived. At ration shop we are using booking number for identification. After giving booking number to shopkeeper, shopkeeper check it from there system and verify the customer order. If verification is done then order is supply to the customer. After receiving ration if any issue occurred in ration then customer can give its feedback using system.

IV. METHODOLOGY

A. System Design

System design is process of defining, components, modules, interfaces and data for a system to satisfy specified requirements. System design could be seen as the application of systems theory. The proposed system consists of two units Server and Client unit. The server will completely control the activities like customer identification, alerting the customers as well as shop owner at the arrival of grains and updating the database. The Admin have overall access to Server unit by logging into the system. Admin can perform various tasks which are under his control. The second unit is client unit which is placed at the ration shop. In system design admin gives permission to customer to purchase the order. The admin is centralized process between customers, shopkeeper database. Admin can be maintain the all reports of the buying and selling process as well as shopkeeper details.

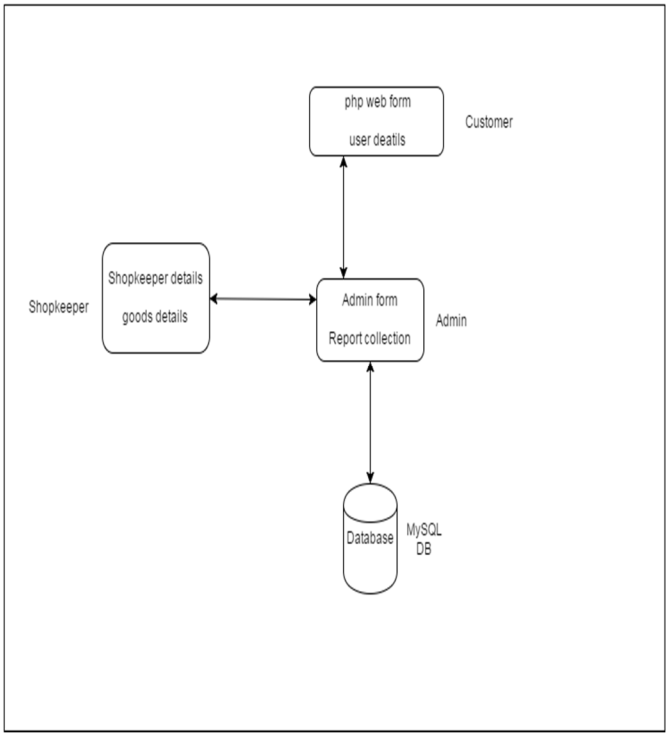

Figure 1: System Design

B. Database Maintenance

Ration Distribution System will have four databases for four different categories i.e. one for the card holder information and the second for the shopkeeper information and the third for the feedback and other one to store the details of the products that are being

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distributed to the customer. So every time the distribution has been made there is a necessity of updating and maintaining the database to avoid the miscalculations.

Customer's Database - For maintaining this database we have to collect all the related information like customer ration card number, aadhar card number and total members of family and have to store it in the database. Every time if there is any change in the details provided by the customer. It should be immediately updated in the respective database. When the distribution of the products is made then the credits will be deducted from the customer's account so the dealer should make sure that it is updated in the following database and the credits are deducted from his/her account.

Shopkeepers Database - For maintaining this database we have to collect all the related information like shopkeeper owner name, shop address, shop number and have to store it in the database. Every time if there is any change in the details provided by the customer. It should be immediately updated in the respective database.

Product's Database - This database is used to contain the details of the products available at the FPS. When the stock of products arrives at the FPS then that particular amount of data is updated in the database. For example if 3kg of rice has been distributed to particular customer then that 5kg should be deducted from the total amount(quantity) of rice in the database. Maintaining the database and generating the bill becomes important because these are the two factors that will help the government to avoid the corruption in PDS.

Feedback Database - In the feedback database all the feedback is given by customers are stored. According to given feedback by customers some action will be taken. By using this feedback they know the mistakes are done and they can improve it.

V. RESULT

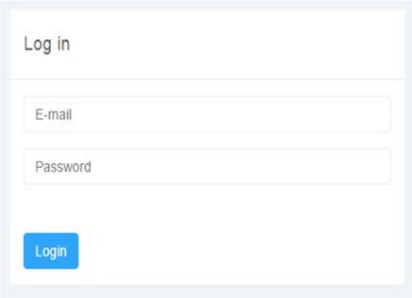

Figure 2: Login

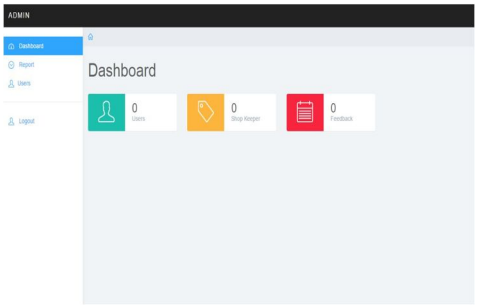

Figure 3: Dashboard

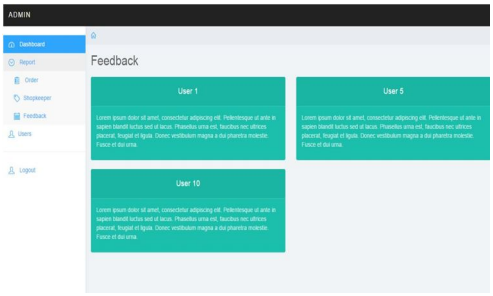

Figure 4: Feedback

VI. CONCLUSION

In this report we have proposed modern ration distribution we have better management of the ration distribution system through which government can be checked availability of ration, reducing document, corruption and increasing, the best of service and utilization.

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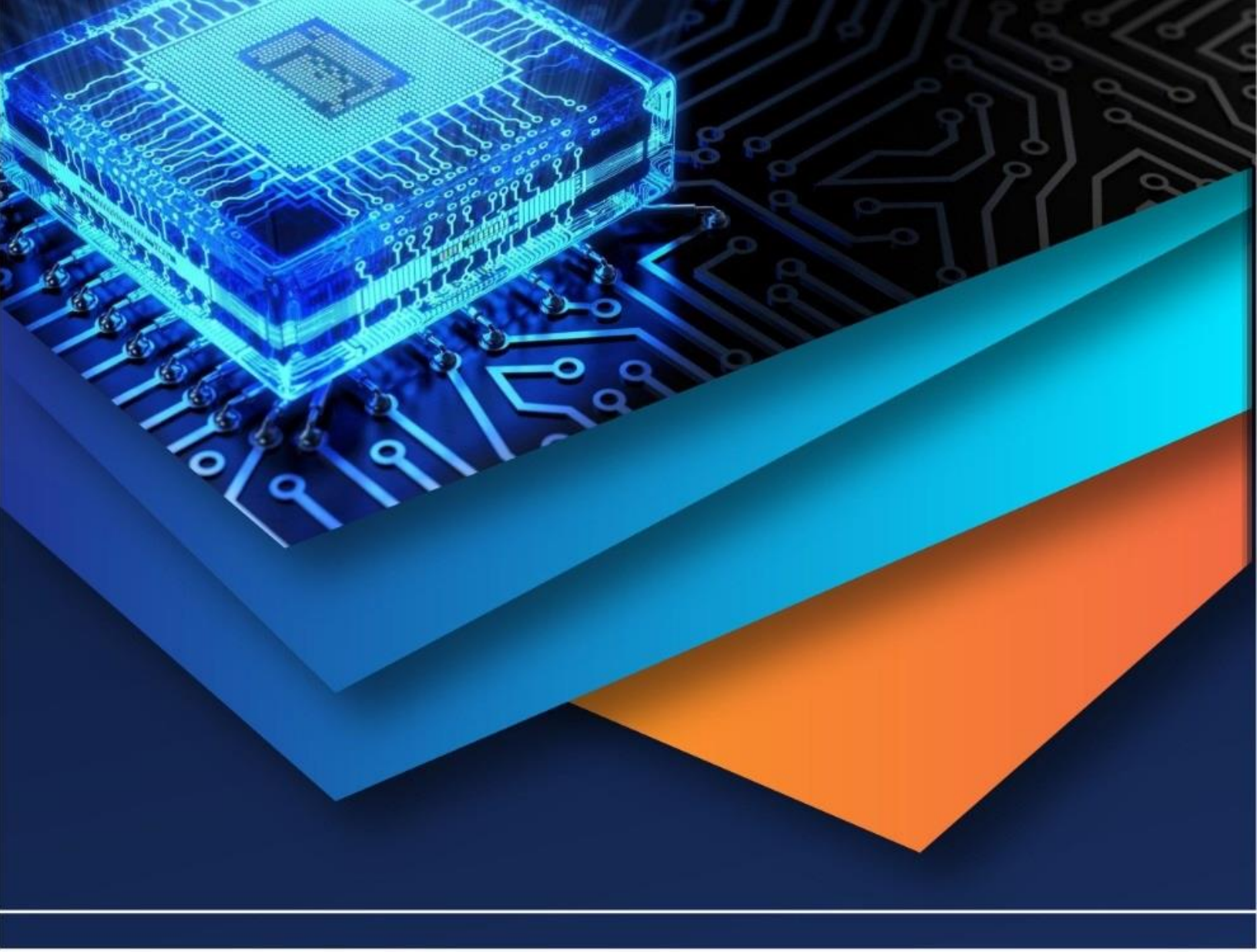

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