

E-Ration Distribution System based on QR- Code

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Abstract— Public distribution system i.e. rationing distribution is one of the widely controversial issues that involves corruption and illegal smuggling of goods. All these happen because every job in the ration shop involves manual work and there are no specific high-tech technologies to automate the job. Because of intervention of manual work there are lots of illegal activity occurs like wrong entry in register of shop about the amount of products that given to the people, sometimes there is chance of distribution of low quality products than actual product provided by government for poor people, people do not have idea about how much quantity of good provided by government to them etc. In this project we propose the concept about to replace manual work in public distribution system (rationing distribution system) as E-government is increasingly used to improve transparency in the government sector and to combat against corruption.

Key words: QR Code, Smart Ration Card, Short Message Service (SMS), Customers

I. INTRODUCTION

Observing citizen who have ration card but citizen don't get ration. And their ration taken by another people who take it by giving money. By this inappropriate system, we decide to develop a system in which each citizen will get ration, and if a person is not available to take ration then record will store and these record is given to government officers. If any complaint by citizen i.e. also kept as a record and seen by officers. And officers try to satisfy the citizen.

We get motivated by disadvantages of existing system. We propose the concept about to replace manual work in public distribution system (rationing distribution system) as E-government is increasingly used to improve transparency in the government sector and to combat against corruption. E-government is being implemented in more areas of government administration for both the local and national levels worldwide. E- Rationing system will reduce corruption in ration shops. In this project, online registration will done by user and user will fill his personal information and family information in system. Every time before ration collection, the authorized person needs to go through the verification phase. Once verification is done, quantity that he will collect also logged into the system.

II. RELATED WORK

In previous system, the work done was totally manual. There was no transparency in the system. The ration card holder was unaware from the monthly ration allocated to that ration card holder. But this system is very time consuming. In this system there is lot of wastage of the paper. In this system there is lot of corruption to avoid this new system is proposed.

To replace manual work in public distribution system (rationing distribution system) as E-government is increasingly used to improve transparency in the government sector and to combat against corruption. E- Rationing system

will reduce corruption in ration shops. To develop the Public Ration Distributed System by using authentication for avoiding the corruption and illegal uses. Improve the PDS.

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III. PROPOSED ALGORITHM

- We propose the concept about to replace manual work in public distribution system (rationing distribution system) as E-government is increasingly used to improve transparency in the government sector and to combat against corruption.
- E- Rationing system will reduce corruption in ration shops.
- In this project, online registration will done by user and user will fill his personal information and family information in system. Every time before ration collection, the authorized person needs to go through the verification phase. Once verification is done, quantity that he will collect also logged into the system.
- Previously RFID card for individuals ration card identification and a 4 digit password based security. In this project we get a more secure and interactive approach for automation of Public Distribution System (PDS). India Government provide a subsisted food under the public distribution scheme, but yet face a lot of problems like corruption, ration hijack, false ration delivery and etc. these problems have been resolved by implementing our system.

IV. PROPOSED OUTCOMES

- We can update all the information in the ration distribution system.
- Any of the family members can access this system.
- We can see all the information regarding to ration distribution system.
- Corruption can be reduced up to some extent.
- The Ration distribution is done by the QR code so here customer get all the material which is require for the customer .

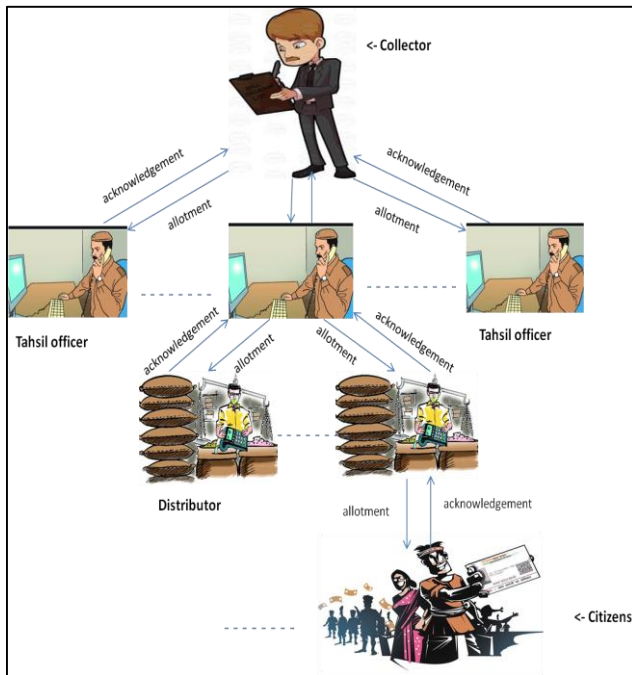


Fig. 1: System Architecture

Collector have all rights to control the system. Collector allocate work to tahsil officer then tahsil officer have control on distributors. Citizens take their ration to their respective ration shop. If citizen have any issue to then citizen write his complain in complain box and which is read by collector and then collector work on complain. All the records by distributor is given back to tahsil officer and tahsil officer give report to collector.

V. CONCLUSION & FUTURE WORK

There are few drawbacks in the existing system, such as all the data is handled manually and there is no technology involved in the system, secondly if the materials are not bought at the end of month, then they will sell too it without any intimation to customers and government. Hence we can overcome these drawbacks using our proposed system. 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 and all information is stored in database. The higher authority can check the details. Properly distribution of gains to customer

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