E-RATION CARD SYSTEM USING BARCODE

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ABSTRACT

In a developing & growing country India specifically, Ration card is one of the crucial files which poor people mainly the only beneath poverty line need. All the humans having a ration card to shop the diverse materials (sugar, rice, oil, kerosene, etc.) from the ration store which can be funded through government.

But as we recognize because of an increasing number of corruption and commercialization, it's turning into tough daily for humans to get a keep of products and stuffs what authorities sends within side the identical quantity.

In present day scenario, this machine is having drawbacks. Firstly the weight of the material may be inaccurate and inappropriate due to human manual mistakes and secondly, if we do not buy the goods and materials by the end of the month, they will re-sale to others without any intimation to the authorities and consumer. In this project, proposed an Automatic Ration Materials Distribution Based on Barcode.

INTRODUCTION

 In Today's global of fraud and commercialization, it will become very tough for human beings to get immediately the stuffs as and while delivered through authorities.Specifically in conventional ration system, maximum of the time the best of products aren't identical as given through authorities. Moreover the best which not unusualplace human beings and customer get are very degradable. There isn't any particular degree or method for not unusualplace humans to test the best which authorities has despatched and through default they ought to take delivery of what distributor offers those.

They can not improve as soon as voice in opposition to the injustice which takes place because of fraud by means of Distributors. Hence to keep transparency among authorities customers and distributors, we've got proposed a brand new technique for itemsdistribution by using barcode generation. This may also keep privateness among the customer and distributor.

Now at present authorities is presenting sugar, rice and fit for human consumption oil and kerosene for special type of customers like APL, BPL human beings classified primarily based totally on annual income. To

satisfy the call for of such grasping human beings authorities delivered fare charge stores this is public distribution structures in which in those poverty line human beings get ration card enlisting their info like name, quantity of grains in kg or oils or kerosene quantity, their house deal. We on this studies introducing use of barcode the use of AADHAR card that is particular identification of every customer .This will assist us to limit fraudulence.

The current structures have disadvantage that we can't display the distribution plus inventory availability with every distributor. We could be monitoring this via the software and standing may be logged.We have tried to minimize the human intervention as much as we can so as to run the system efficiently and cost efficiency is also considered here

Fig.Ration Card

LITERATURE SURVEY

Title - E-Ration System Using RFID and GSM Technology
Authors: Dinesh Aitwade

Description:The idea behind this paper is the advanced Ration Distribution System, named as Smart Ration Distribution and Controlling. Enormous measure of Govt. cash gets squandered because of defilement in the traditional Ration Distribution System.
This proposed system executes a straight forward PDA gadget (personal data assistant) with RFID tag utilized as an e - ration card set up instead of an ordinary ration card. This device is like the ticketing machine usedby transport conductor or bank operator and the e - ration card is like swipe card. The consumer needs to utilize this card rather than a traditional ration card to get ration from the merchant.

Title: Development of E Public Distribution System (E - PDS) Using Smart Card
Author: Mr. Nishant Patel

Description: The Smart card based programmed ration shop is one of new approach in dissemination framework (PDS) helpful for cost effective ration distribution system. The present ration distribution framework has many disadvantages.
 Few of them are like mistaken amount of goods, handling speed is low, holding up time is more, and material robbery in shop. Manual work is replaced by this system. The proposed programmed ration look for framework depends on Smart Card innovation that replaces ordinary ration cards. Here using this system, the RFID labels are given rather than ordinary ration cards.

Author: Dhanashri Pingale

Description:In her paper has described a Centralized Web Enabled Ration Distribution and Corruption Controlling System is the project that will allow a smooth and easy ration distribution. The paper explains the concept of ration distribution and controlling.
This system enabled the distribution of food equally among poor people. The commodities are stored in storage tank, when goods are inserted in the FPS, then that quantity of goods is updated in web server. That website can be accessed by the collector whenever he requires the ration from respective ration shop.

Author:Shivabhakt
Description: It described the concept to automate the PDS, a Government of India initiative process in which a fixed amount of ration is provided monthly to the people by the PDS stores. The increased corruption in the market sector can be prevented if the system becomes automated, increase in adulteration can be prevented as well, the hoarding done by the officials and laborers of government.

LIMITATIONS OF EXISTING SYSTEM

Following are some limitations of the existing Ration card system:

1) The current Ration Card system is completely manual process..In the present device,ration card info are inserted manually.

2) Lots of inaccuracy withinside the present system.No set of rules used for calculation in aid and confidence.

3)In the existing system,a lot of malpractices happens while the distribution of ration.

4) Customer need to weight to lengthy for the ration so ready time is more.

5)The weight of the material may be inaccurate and inappropriate due to human manual mistakes.

6) If we do now no longer purchase the products and substances through the give up of the month, they may re-sale to others with none intimation to the authorities and consumers..

7) There isn't anyt any unique degree or manner for not unusualplace humans to test the nice which authorities has despatched and through default they need to take delivery of what distributor offers them.

PROPOSED SYSTEM

In proposed work,start with we're going to utilize E-authorities technology this is being implemented in nearly each location of government administration.Corruption and degradation of quality of goods would be using ERationing system.

User might be registering online using credentials and data as registered. Also family information needs to be given as input while registering. Thus on every occasion the family data needs to be given as input while registering, he needs to go through the verification process to prove he is the authorized person.

Once verification is finished successfully, he can gather the amount as logged into the system. Using bar code, it is going to be feasible to uniquely construct a module for every customer.

Distributor will now no longer must a good deal government and additionally distributors system will directly related to the governments server in order that the possibilities of corruption might be reduce.

When distributor will distribute the ration to the customer then just before that one notification will send to the clients cell number in order that client can take a look at the ration he took and the ration display in the message is identical or not.

ADVANTAGES OF PROPOSED SYSTEM

- Transparency among government, customer and distributors
- Using barcode, customers can view the quality and quantity of products assigned to them..
- The proposed system replaces the manual work.
- stop bogus customer.
- Government can see how much grocery distributes to the customer and how much grocery remains.
- Corruption from the distributors end can be absolutely finished.
- Customer does not required that ration book. He can simply login the using cell and display his barcode to the distributor.

DISADVANTAGES OF PROPOSED SYSTEM

- In case of low internet speed,it will take some time to generate barcode
- If the OTP will not send then further process cant be done.

CONCLUSION

In this paper, we've defined how the impact of distributor can be minimized and extra power can be directly given to purchaser. This assignment will offer secure and stable technique for purchaser and might directly get access to the products granted to them. Introduction to Barcode generation makes this extra transparent for government and distributor.

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 substances aren't sold on the end of month, then they may sell too it without any intimation to clients and government.

Hence we are able to overcome those drawbacks using our proposed system. A system we are able to keep away from corruption in ration/public distribution system to huge 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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