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A Review on Smart Ration Card System

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ABSTRACT: Presently a days Ration card is critical for required and need homes. By and large apportion card is utilized for relative points of interest for gas association and furthermore proportion card is go about as an address verification and so forth. All the required individuals who are having proportion card can purchase different material from the apportion shop like (sugar, rice, oil, dals) in less rates that from different shops. Be that as it may, this apportion card framework confronts two disadvantages:- first the businessperson who weighted the material can be erroneous as a result of his misstep. Second is if the material is not purchase toward the finish of the month they will send to others without authorization of the administration. To conquer this downside we have proposed in this paper "Programmed Ration Card Using RFID and GSM". RFID is (Radio Frequency Identification) and GSM (Global System for Mobile)technology rather than proportion card. The RFID (Radio Frequency Identification) innovation is supplanted by old framework apportion card. The utilization of RFID here is as opposed to giving proportion card to client they are giving RFID tag. On the off chance that any individual need to purchase any material from the proportion shop he will basically swap the RFID card to RFID peruser then subsequent to swapping RFID card microcontroller will distinguish every one of the points of interest with put away to appropriate material in apportion shop. After effective check client expected to enter the required material with the assistance of keypad. After conveying legitimate material to client microcontroller and in addition PDS Authorities utilizing GSM (Global System for Mobile Technology)

KEYWORDS: GSM, Microcontroller, RFID, Public Distribution System (PDS).

I. INTRODUCTION

Government of India's Public Distribution System (PDS) is the biggest dispersion framework on the planet. Open dissemination framework gives proportion card issued under an expert of state government for acquiring essential material from apportion shop. As per home's family pay state government chose and dispensed three proportion cards and that are yellow apportion card, saffron apportion card and white apportion card. What's more, customer material is provided to proportion card holder by the retailer. Open dissemination framework is generally questionable in weighting of the material prompts incorrect estimation or it might occur by misstep. Unlawfully businessperson can utilize buyer material without earlier information of apportion card holder. To conquer this sorts of errors.

To conquer this sorts of missteps the present work is supplanted via programmed framework in view of RFID and GSM framework. This framework acts as RFID has an exceptional distinguishing proof number. In the first place purchaser examine the card on RFID peruser which is interfaced with the microcontroller. This framework is kept in proportion shop. Once the buyer enter with the substantial secret key then framework will request that the customer enter the essential material at whatever point they need they will enter with the assistance of keypad. As indicated by purchaser ask for proper circularity will be enacted and shopper will get required material. The GSM interfaced with data microcontroller sends as SMS to related and approved individuals. The RFID based programmed framework would bring straightforwardness inside the general population and keep from different acts of neglect.

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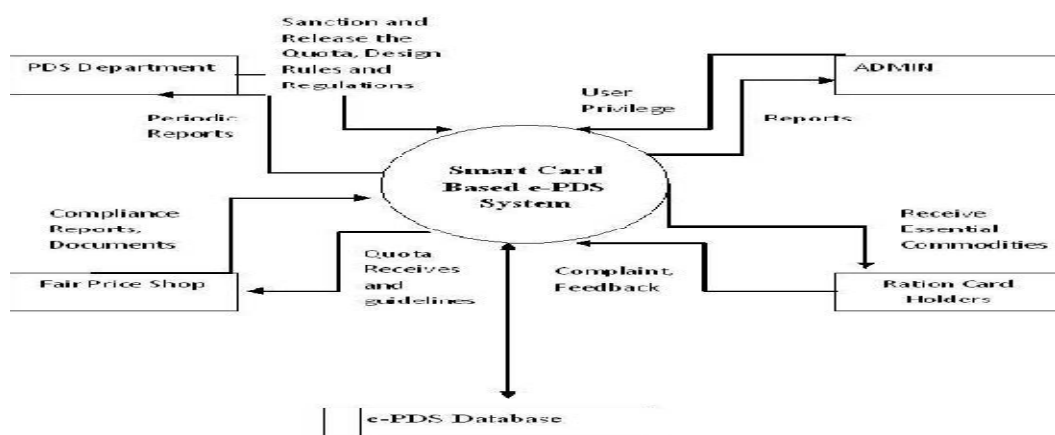
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II. EXISTING SYSTEM

Leaving systems manual and Contain excessively Human collaboration, Because of human connection delay in conveyance is there and misrepresentation in Quantity and conveyance is there by human. India's Public Distribution System is the biggest dispersion framework is on the planet. Open appropriation framework gives apportion card issues under an expert of the state government for obtaining fundamental material from proportion shop. As indicated by home's family salary state government has chosen and distributed three cards that are Saffron card Yellow card and white card and shopper material is provided to proportion card holder by the retailer. So to dodge this disadvantage we overcome and proposed new apportion card framework utilizing RFID tag and GSM framework.

III. PROPOSED ALGORITHM



To build up A keen proportion card framework Based on RFID and GSM innovation whichReliable and quick deliverable First shopper check the card on RFID peruser which is interfaced with the microcontroller. This framework is kept in apportion shop. Once the customer enter with the substantial secret word then framework will request that the buyer enter the fundamental material at whatever point they need they will enter with the assistance of keypad. As indicated by shopper ask for fitting circularity will be enacted and buyer will get required material. The GSM interfaced with data microcontroller sends as SMS to related and approved individuals. The RFID based programmed framework would bring straightforwardness inside the general population and keep from different acts of neglect.

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IV. RESULTS



V. CONCLUSION

In this paper overall conclusion is providing transparency with the consumer and provide required to the required people with the help of automatic and safe system without malpractices and also overcome the drawbacks of old system of ration card system.

VI. FUTURE WORK

In this paper general conclusion is outfitting straight forwardness with the purchaser and offer required to the required people with the help of modified and safe system without demonstrations of disregard besides overcome the inconveniences of old course of action of extent card structure.

VII. ADVANTAGE

- Figure below shows two cover images used in our tests. Faster than Manual Rationing Card system.
- Fraud is less because human interaction is reduced.
- Quantity of food required by consumer is same as he/she want because Automatic Operation.



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VIII. ACKNOWLEDGEMENT

In this paper general conclusion is furnishing straightforwardness with the buyer and give required to the required individuals with the assistance of programmed and safe framework without acts of neglect furthermore conquer the disadvantages of old arrangement of proportion card framework.

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