

# SMART RATION CARD USING SMART CARD AND GSM TECHNIQUE

Swati Bhongare<sup>1</sup>, Somesh Mhaske<sup>2</sup>, Sonam Sayal<sup>3</sup>, Azad Sayyed<sup>4</sup>, S. K..Patil<sup>5</sup>

*U.G. Student, Department of Computer Engineering, MMIT, Lohagaon, Pune, India<sup>1,2,3,4</sup>*

*Professor, Department of Computer Engineering, MMIT, Lohagaon, Pune, India<sup>5</sup>*

## ABSTRACT

*In the work introduced here, a procedure has been produced to peruse all the data from a concentrated server consequently utilizing the web for PCs. In the proposed framework, each family will have a different smart card. These cards are attractive and they will contain recipient's data. At whatever point a recipient gets the wares from FPS (Fair value shops) every one of the exchanges are recorded in the server. The framework lessens the work cost as well as builds the precision and spare some measure of time.*

**KEYWORDS:** IOT, Data Base, Java, My SQL,HTML.

## I. INTRODUCTION

The apportion circulation framework is built up by the Government of India under Ministry of Shopper Affairs, Food, and Public Distribution to circulate basic need things to destitute individuals at reasonable cost [2]. The current regular proportion card framework has various issues. These issues ranges from the fundamental issues of re-establishing the apportion card each year by sticking overabundance takes off which must be done physically by the representatives to the acts of neglect done by FPS merchants like occupying sustenance grains to open market to make profits[4]. There is another issue of inconsistency in opening shops and bogus declarations of shortfall in nourishment grains. By utilizing this framework the significant issues like pay off, unpredictable conveyance and different troubles looked by the destitute individuals are wiped out. Illicit exercises in the FPS can be incredibly diminished by this strategy. The circulation process is computerized utilizing brought together server thus the administration offices reach individuals legitimately. The debasement and gift is the significant issue in FPS which can be maintained a strategic distance from utilizing this framework. The electronic database kept up keeps away from wrong passage of the item by the authorities and gives confirmed transportation and appropriation.

## II. GOALS AND OBJECTIVES

The goal of the undertaking is to robotize the assignment of appropriation of things proficiently. The venture is planned to stop debasement and inconsistencies made in circulation shops. Here the framework must play out the accompanying.

- Validate the proportion shrewd card of the recipients.
- Validate the correct recipients.
- Avoiding inconsistencies in dispersion of grains.
- SMS warnings on the mobiles of the recipients.
- Stock support in the dispersion focus.

## III. PROBLEM STATEMENT

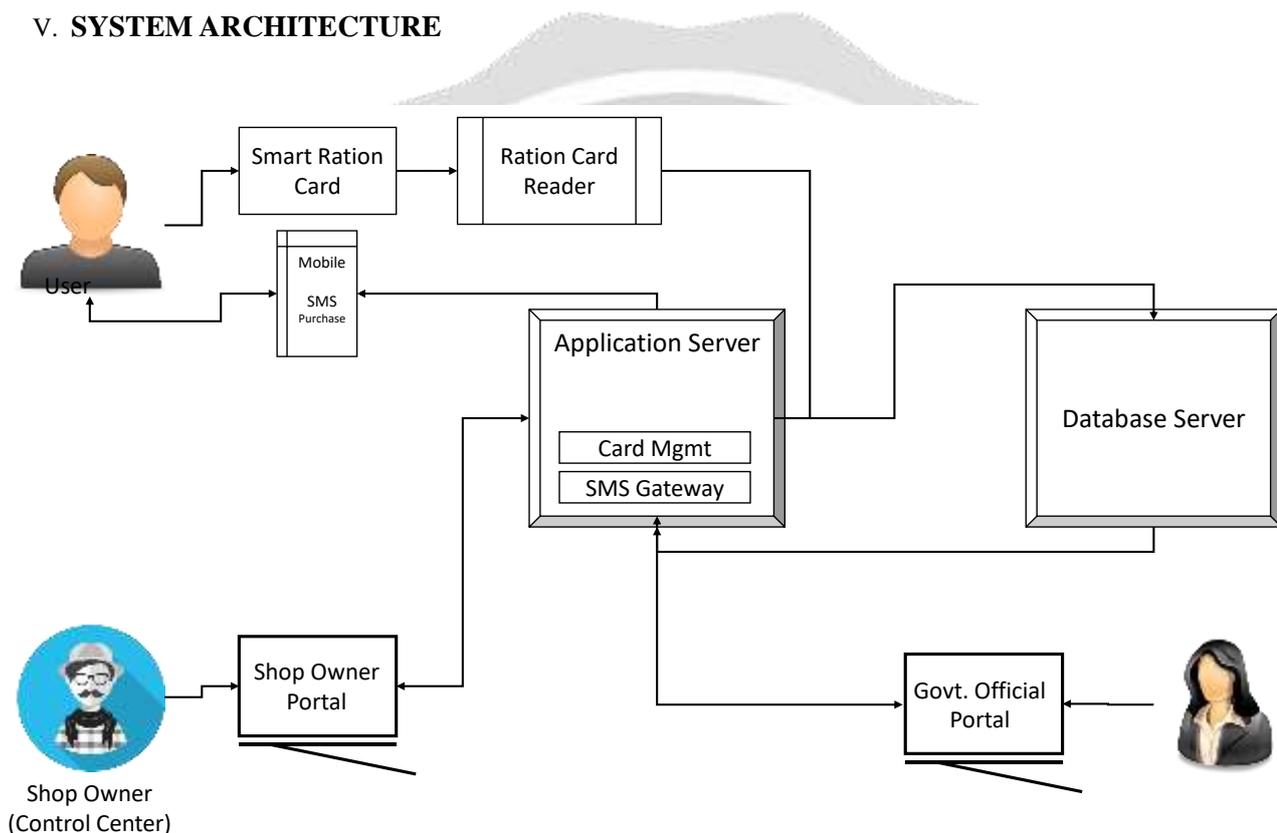
Proportion Distributed (Food Distribution) framework utilizing NFC based Smart Card of Ration Card holder. Each time proportion is gathered by the family it is signed into the Smart Card. The information logging frame work is associated with cloud to keep up a unified stock the country over. Each time before apportion gathering, the approved individual needs to experience the check stage. When confirmation is done, amount that he gathers is too signed into the framework.

**IV. LITERATURE SURVEY**

Open appropriation framework (PDS) is an Indian framework sustenance security built up by the Administration of India under Ministry of Consumer Affairs, Food, and Public Distribution and overseen together with state governments in India, it disseminates financed sustenance and non-nourishment things to India's poor. Significant items circulated incorporate staple sustenance grains, for example, wheat, rice, salt, and cooking oil, through a system of open appropriation shops (otherwise called proportion shops) built up in a few states the nation over. Nourishment Corporation of India, a governmentowned company, acquires and keeps up the PDS.

Shivabhakt [2] et al portrayed the idea to robotize the PDS, a Government of India activity process in which a settled measure of proportion is given month to month to the general population by the PDS stores. The expanded debasement in the market area can be counteracted if the framework ends up mechanized, increment in debasement can be forestalled too, the accumulating done by the authorities and workers of government.

**V. SYSTEM ARCHITECTURE**



**Figure 1.1: System Architecture**

Structural outline comprises of four parts, for example, recipient/client, NFC peruser, screen and database. The recipients touch base at the reasonable value shop with a keen card qualified for him. The recipients must be approved, which incorporates two way confirmations. Initial step incorporates swiping the savvy card over NFC peruser. The recipients are approved on checking the unique mark ID and Smart Card ID from the database. His/her unique mark ID or shrewd card ID is utilized to bring data on to the fundamental interface.

**Module Description and Architecture Desing:**

**I. Login Module**

In this module, the framework takes recipients points of interest like their name, address, date of birth, age, contact number for sending SMS cautions, tally of relatives and class of the card to which the family has a place with. All the data is put away in the database.

**II. NFC Card Verification Module**

NFC stands for near-field communication is a set of communication protocols that enable two electronic device ,one of which usually a portable device such as a smartphone, to establish communication by bringing them within 4 cm of each other.

NFC device are used in contactless payment system ,similar to those used in credit cards an electronic ticket smartcards allow mobile payment to replace/supplement these system..

### III. Buy Module

After check of smart card the recipient is given a rundown of wares introduce in the FPS. The recipient needs to select the rundown of product he/she needs to buy. The framework will show the aggregate amount of the items that he/she needs to buy. Once after he/she affirms the wares, installment is done and recipients are given a receipt in type of a SMS.

### IV. Ready Module

A SMS portal API effectively sends mass messages to its clients, here in this venture it assumes a part to intimate the recipient about the current exchange made by him/her by sending him/her the message on his/her enlisted number.

### V. Stock Module

The nourishment office will send the stock to the individual dissemination focuses and furthermore naturally refresh the supplies of the dispersion focus. In this module the framework keeps up the points of interest of approaching stock, appropriation and staying stock.

## VI. CONCLUSION

Proportion fraud is a standout amongst the most troublesome difficulties looked by the sustenance circulation office. There might be chances where apportion is conveyed to the recipients and false records are noted down, with respect to the conveyance by commission operator. What's more, there is likelihood of him (commission specialist) offering the items in open market with additional benefit and so forth. In this way, the proposed framework is more secure and straightforward then the ordinary existing framework. Passage of deceptive information in the apportion database can be dodged with the utilization of keen cards and extra security is given by the biometric confirmation. The commission operator is just mindful for entering the amount of the wares, where as refreshing and deducting is exclusively dealt with by the server (sustenance office). Keeping up the database is additionally useful for sending messages to the recipients about the apportion conveyance. It is expected that the proposed undertaking will make straightforwardness openly appropriation framework as the work winds up programmed and furthermore it makes the framework free from inconsistencies.

## VII. REFERENCES

- [1] Dhanashri Pingale, Sonali Patil, Nishigandha Gadakh, Reena Avhad, Gundal S.S “Web Enabled Ration Distribution and Corruption Controlling System”, International Journal of Engineering and Innovative Technology (IJEIT), Volume Issue 8, February 2013.
- [2] Shivbhakt mhalsakant Hanmant, Suraj V.S, Moresh Mukhedkar, “Automization of Rationing System”, International Journal of Computational Engineering & Management (IJCEM), Volume 7, Issue 6, November 2014.
- [3] ] S.Sukhumar, K.Gopinathan, S.Kalpanadevi,, P.Naveenkumar, N.Suthanthira Vanitha,“Automatic Rationing System Using Embedded System Technology”, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Vol. 1,Issue 8, November 2013.
- [4] Rajesh C. Pingle and P.B. Borole, Automatic Rationing for Public Distribution System (PDS) using RFID and GSM Module to prevent Irregularities, HCTL Open Int. of Technology Innovations and Research Volume 2, March 2013.
- [5] ] S.Valarmathy, R.Ramani, Fahim Akhtar, S.Selvaraju, G.Ramachandran, “Automatic Ration Material Sistributions Based on GSM and RFID Technology”, International Journal of Intelligent Systems and Applications, Volume 5, pp 47-54, October 2013.