

Secure distribution ration product using machine learning

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Abstract: Public Distribution System (PDS) [i.e.] ration product intimation and Distribution system is established by the government of India to distribute grocery items at fair price. The controversial issue in this system is smuggling of goods and late delivery of goods. This is because in the existing system all the work is done manually. In order to overcome this, we have proposed an idea to automate the intimate of product in the ration shop along with the facial recognition in order to verify that the buyer belongs to the particular family or not. A database maintained by the government which is accessed by the proposed system. The database contains the details of people in a locality and the of product distribution date along with their photos. Due to this illegal entries are avoided. When the product arrives at the ration shop it is updated in the database and the system sends an alert message to the people. The people can get the ration product when user image is recognized correctly. Customer can purchase the ration product and the list of product available and them

1.Introduction:

Centralized Web Enabled Ration Distribution and Corruption Controlling System is the project that will allow a smooth and easy ration distribution. This paper explains the concept of ration distribution and controlling. The project is about using the latest technology in the oldest theory of Ration Distribution of our nation. This system enabled the distribution of food equally among poor people. In addition to household ration card, all the BPL cardholders are issued with two different colors of coupons separately for rice and kerosene. India's Public Distribution PDS is an important constituent of the strategy for poverty eradication and is intended to serve as a safety net for the poor whose number is more than 33 Crores and are nutritionally at risk.

System (PDS) with a network of 4.78 Lacs Fair Price Shops (FPS) is perhaps the largest retail system of its type in the world. Since 1951 public distribution of food grains has been retained as deliberate social policy by India with the objectives of: (i) Providing food grains and other essential items to vulnerable sections of the society at reasonable (subsidized) prices PDS is an important constituent of the strategy for poverty eradication and is intended to serve as a safety net for the poor

PDS is operated under the joint responsibility of the Central and the State Governments. The Central Government has taken the responsibility for procurement, storage, transportation and bulk

allocation of food grains, etc The operational details of the PDS differ from state to state. Though the policy of setting up of FPSs owes its initiation to national food policy, its implementation remains the direct responsibility of the state governments. In order to operate the PDS effectively, the Central Government issues guidelines from time to time to the states regarding the operational details of the PDS. The operational responsibilities including allocation within the State, identification of families below poverty line, issue of ration cards, supervision and monitoring the functioning of FPSs rest with the State Governments. The Food and Civil Supplies Department of the State Government is mainly entrusted with the task of monitoring PDS

2.Literature survey: The Public Distribution System (PDS) in the country facilitates the supply of food grains to the poor at a subsidized price. However, doubts have been raised about the efficacy and cost-effectiveness of the PDS, especially in the light of the growing food subsidy and food stocks. The PDS needs to be restructured and there is a need to explore the possibility of introducing innovative ideas such as smart cards, food credit/debit cards, food stamps and decentralized procurement, to eliminate hunger and make food available to the poor wherever they may be in cost-effective manner.[4] To prevent corruption and foster the development of small and medium-sized enterprises, the United Nations Industrial

The people can get the product by particular date. Customer can purchase the product and the list of product available for them.

ARM Controller: The circuit is built around 32 bit ARM 7 RISC (reduced instruction set

Development Organization (UNIDO) and the United Nations Office on Drugs and Crime (UNODC) have joined forces to carry out this study, which looks at the nature and extent of the problem. This report is based on field-based assessments and a meeting of experts that discussed obstacles for SME development created by public and private sector corruption.

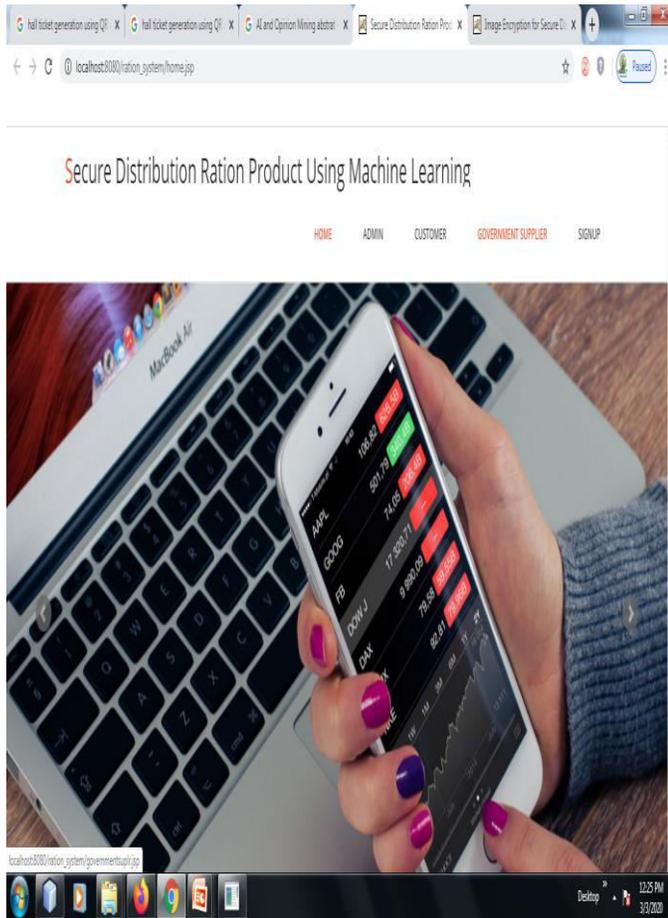
3.Objective: The Objective of the project is to automate the task of intimation of ration product efficiently. Its aim is to stop corruption and discrepancies created in distribution shops.

4.Existing System: In the existing system, works like product intimation and distribution, ration card entry, product weighing, product delivery are done manually. Manual Ration card having the problem of Renewing every year. Other than family member can also buying products. People not able to know about the working days and availability of product ration shop. Because of manual work No proper list is verified by higher Authority.

5.Proposed System:Our Proposed system to automate the intimate of product in the ration shop. A database maintained by the government which is accessed by the proposed system. The database contains the details of people in a locality and the of product distribution date. Due to this illegal entries are avoided. When the product arrives at the ration shop it is updated in the database and the system sends an alert message to the people.

complexity) type of controller. It consists of 64 pins with two ports of 32 bits. It uses Von Neumann architecture with three stage pipelining

Form Module:



RFID

The ration distribution system is established by the government of India under Ministry of Consumer Affairs, Food, and Public Distribution to distribute grocery items to poor people at fair price[2]. The existing conventional ration card system has numerous problems. These problems range

The basic issues of renewing the ration card every year by pasting excess leaves which has to be done manually by the employees to the malpractices done by the ration store dealers like diverting food grains to open

The RFID uses wireless technology to identify the object. It consists of RFID tag and the reader. The bidirectional communication between the tag and the reader is accomplished by the radio frequency (RF) part of the electromagnetic spectrum to carry the information between an RFID tag and reader

GSM

The GSM (Global System for Mobile communication) module consists of GSM modem. It is a standard developed by the European telecommunication standard institute to describe protocols for 2G digital cellular networks used by mobile phones. It accepts SIM cards, and operates over a subscription to a mobile operator, just like mobile phones.

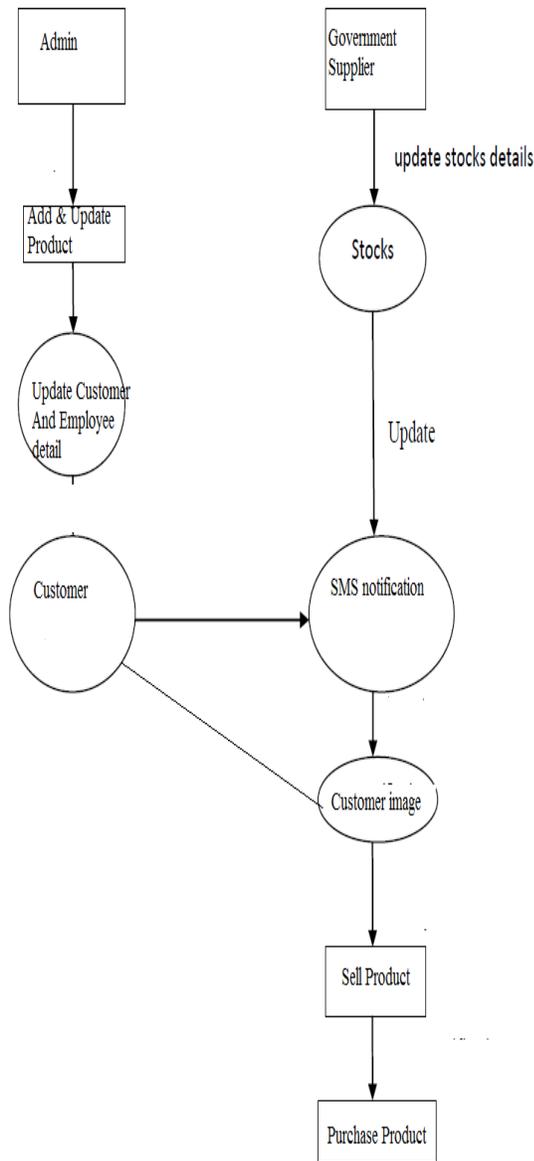
6.Application:

- Mainly used in government services PDS and FPS.

PDS(public distribution system) using the product in the product details in the application in te system using the data manul.

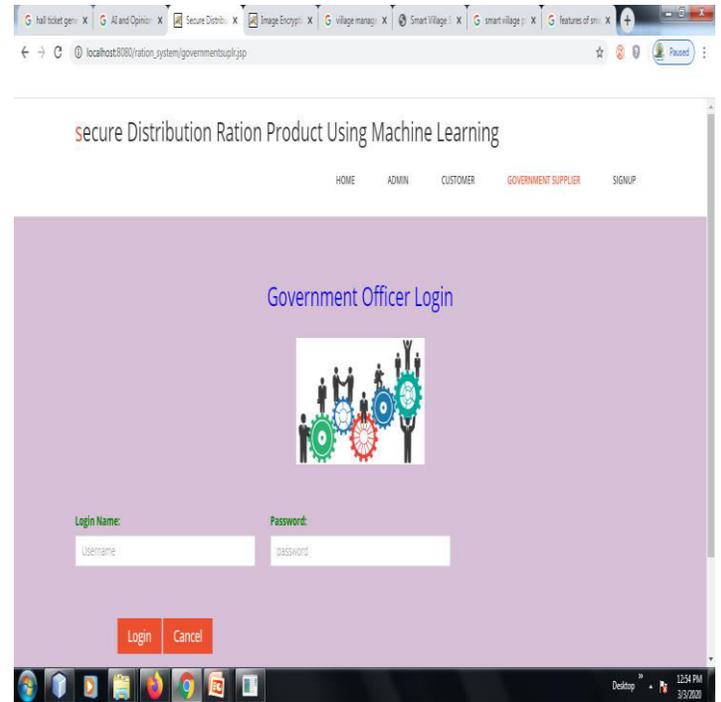
Fair Price Shops (FPS) is perhaps the largest retail system of its type in the world. Since 1951 public distribution of food grains has been retained as deliberate social policy by India with the objectives of: (i) Providing food grains and other essential items to vulnerable sections of the society at reasonable (subsidized) prices.

7.Data Flow Diagram:



8.Results:

Ration product are distribute to te Government supplier to sale on the product in customer and the product details colors,id,name,are details include in the web page and customer to login in site



9.Conclusion:

Using this proposed modern system we can have Better management of the ration distribution system. Govt. can have indirect check on the availability of the ration to the beneficiary. It is transparent and has control over prices of some commodities in the open market. Dealer will not be able to keep fake ration cards with them. System helps to modernize traditional rationing and combat corruption up to a great extent.

10.Future Scope:

Designed and implementation of a Ration Product Intimation system , only authentic person can be improved ration materials from ration shops based on the ration product available in the ration shop

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