

ABSTRACT

India's Public Distribution System (PDS) is the largest retail system in the world. System of Public Distribution provides a ration card issued under an order or authority of the State Government for the buy of essential consumer materials like rice, wheat, kerosene and oil. State Government issues distinctive ration identity cards like yellow ration card, rose ration card, blue ration card and white ration card depending on family income. The consumer material is feeding to ration card holders in the first week of every month by ration shop keeper.

Using this proposed system we can avoid the corruption in system to a large extent by providing transparency at each level. As there is no manual data stored in books or register, all the data stored in database hence it is easy for higher authority to cross check the data at any point. So implementing this will be really helpful to targeted people. Reduce the corruption level and can mostly blight it from the above mentioned system which will aid the country's economy to reach new heights. The computerized PDS i.e. System of Public Distribution is simple to implement and requires much minus hard work when compared to the other system.

It is an approach in Public Distribution System useful for more efficient, accurate and automated technique of ration distribution. The conventional ration distribution system has drawbacks like inaccurate quantity of goods, low processing speed, large waiting time and material theft in ration shop. In this paper, proposed an Automatic Ration Materials Distribution technology instead of ration cards.

The main modules in this project are;

1. Admin module

In the Smart Ration Shop System When an Admin is logged in, the page will be redirected to Admin's home page and then he can access a lot of functionalities provided by the Smart Ration Shop System there. Administrator is power user. He has the power to verify the data entered by the Authorized user, processing of data and provide appropriate solutions.

Admin Functionalities:

- **Add panchayath:** Admin can add panchayath.
- **Add ration shop:** Admin can add ration shops coming under the added list of panchayath including the additional details like license no, email id etc.

- **Add card description:** Admin can add description about the different colored (blue, yellow, pink, white) ration cards.
- **Add ration items:** The civil supplies officer can add ration item details according to each type of cards.
- **Add subsidies:** Admin can add subsidy offer details of each card type including the special offer name, offer month and its details.
- **Assign ration items to shop:** The officer assign ration item details such as rice, kerosene, wheat etc. by choosing the ration shop. By selecting the ration shop admin can view the total number of members coming under that ration shop.
- **View report:** The final report that a shop has been sailed, can view by choosing the shop, month and year. The items sold and also the remain stock can view

2. Shop module

In the Smart Ration Shop System when a shop is logged in, the page will be redirected to shop's home page and they can use a lot of options provided by the System.

Ration Shop functionalities:

- **Add member:** Shopkeeper add members coming under his area of panchayath including details like name, date of birth, address, city, state, country, total number of family members, annual income, card type etc.
- **View card details:** The details about the colored cards can view.
- **View subsidy:** The added subsidy offer details by the civil supplies officer can be viewed by the shopkeeper including the information's such as offer name, offer month etc.
- **View ration details:** The ration item details added by the civil supplies officer can be viewed by the shopkeeper.
- **View supply details:** The report of total supplied item by the shop has been shown here. How many and how much items are purchased by the consumer can be shown here.

- **Update rations:** Here, at the time of choosing the card holder's name the total number of family members is displayed also the type of card color can be viewed. Here, the amount of item purchased by the consumer is updated by the shopkeeper to the system

3. User module

In this System when user is logged in, the page will be redirected to user's home page and then they can access a lot of functionalities provided by the Smart Ration Shop System there.

User functionalities:

- **My profile:** The consumer can see their profile.
- **View card details:** The details about the colored cards can view.
- **View subsidy:** The subsidy offer details added by the civil supplies officer can be viewed by the consumer including the information's such as offer name, offer month etc.
- **View ration details:** The ration item details added by the civil supplies officer can be viewed by the consumer.
- **View purchased item:** The items purchased by the consumer can view here including the purchased month and the amount of items purchased.