E-Rationing System

Business Requirement Specification

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1. Introduction

1.1 Document Purpose

The document specifies the business requirements for developing an e-rationing system. The scope of this document is to define the functional and non-functional requirements, business rules and other constraints requirements.

1.2 Project Background

Public Distribution System (PDS) is an Indian food security system. It is established by the Government of India under Ministry of Consumer Affairs, Food, and Public Distribution and managed jointly with state governments in India. The traditional PDS is used to distribute grocery items to India’s poor who are valid ration card holders. The validity and the allocation of the ration cards are monitored by the state governments. A ration card holder should be given 35 kg of food grain as per the norms of PDS. However, there are concerns about the efficiency of the distribution process. In order to make it efficient and improve the current system of PDS we are implementing e-Ration Shop.

1.3 Goals of the Project

This e-rationing website is to give information related to card holders and to record all transactions. The Fair Price Shop (FPS) does not open every day, nor do they keep regular hours. This website will provide information about the day and time to report at e-ration shop for the food items that they can get on their ration card saving a lot of time and avoiding manual errors. As aadhar card is unique human identity and hence it is used in the FPS to make it fool proof. Hence duplicate, bogus and ineligible beneficiaries can be avoided. Retailers will be benefitted and malpractices will be stopped. On the whole, e-rationing system only the entitled lot receives the subsidized food material with least human intervention.

1.4 Conceptual Framework

1. Stock provided based on category.
2. Stock availability will be notified on regular basis.
3. Complaint forum for complaints by users.
4. Authentication system by Aadhar and OTP.
5. Easy payment options.
6. Retailers can advertise their shops also.

2. Business Requirements

* E-Rationing system is a public web application.
* E-Rationing system is maintained by the admin.
* It will be available only in India.
* The end user should have the facility to select products from the catalog.
* All the transactions will be recorded.

3. Functional Requirements

E-Rationing system consist of four modules as described below :

1. End User Module
2. Government Authority Module
3. Admin Module
4. Retailer Module.

3.1 End User Module

* End users will be able to log in to the system with their credential.
* End users will be able to select product from product catalog.
* End users will be able to add selected items with quantity in the cart maintained by the system.
* End users are given the option to choose payment mode.
* End user can view transaction/order history.
* End user is allowed to change his/her mobile number and address.
* Will be able to give feedback.

3.2 Government Authority Module

* GA will have the authority to register a new customer.
* GA should be able to verify the customer details.
* GA should be able to update the customer details to the system.
* GA should be able to block the account of end user in case of fraudulent activity.
* GA will be able to Approve or Reject Retailers or End Users specific request raised.
* GA will be able watch End user, Retailers and Product wise revenue using Graphical charts.

3.3 Admin Module

* Admin will notify the customers about goods in their account.
* Admin will keep the track of transactions.
* Admin will keep the records of customer details and approve.
* Admin can update the rates and quantity whenever required.
* Admin will be able to Approve or Reject Retailers or End Users specific request raised.
* Admin will be able watch End user, Retailers and Product wise revenue using Graphical charts.

3.4 Retailer Module

* Retailer should have valid license issued by Gov.
* Retailer should provide the items requested by customer.
* Retailer will be able to see the details of End user.

4. Non-Functional Requirements

* The website should use professional design, look and feel and color scheme.
* The system will be available 24\*7 for the users.
* The system should be designed in such a manner that user will be able to complete tasks in minimum number of steps.
* The system should have user friendly interface. It should be easily updated, modified and reused.
* The system should provide good throughput and response to multiple users without burdening the system by using appropriate number of servers.