

# Project Title: E-Ration Shop System with Celebration Offers

## Project Overview

The **E-Ration Shop System with Celebration Offers** is a comprehensive platform designed to streamline the management, purchasing, and distribution of ration supplies with added seasonal and promotional features. The system connects **Admins**, **Ration Shop Owners**, and **Users** through a mobile app, providing transparent access to ration supplies, government-subsidized items, and special celebration offers.

- **Admin:** Manages stock, verifies ration shop owners, and oversees the creation of promotional offers.
- **Ration Shop Owners:** Purchase stock from the Admin, manage orders from Users, and have the ability to feature special products or discounts during holidays and festivals.
- **Users:** Place orders, view available stock, and enjoy special offers on selected products during celebration days.

This system is designed to enhance efficiency in ration management while providing users with access to seasonal offers, encouraging engagement, and supporting local businesses.

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## Objectives

- To create a unified platform for ration distribution with efficient stock management and order tracking.
  - To enable Users to easily order products while enjoying special seasonal offers.
  - To empower Admins and Ration Shop Owners to set up and promote offers for celebration days, increasing user engagement.
  - To comply with government policies for fair distribution of ration supplies.
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## Key Modules and Features

## 1. Admin Module

The **Admin** role includes managing and overseeing the system operations and introducing promotional features during celebration days.

### Key Features:

#### 1. Stock Management:

- **Add and Update Stock:** Admins can add new items to the inventory, including special stock for festivals or holiday seasons.
- **Stock Level Monitoring:** Real-time tracking of stock levels with low-stock notifications.
- **Allocate Stock to Ration Shops:** Admins can distribute inventory based on demand, quotas, or celebration days.

#### 2. Order Management:

- **View and Process Orders from Ration Shop Owners:** Admins can review and fulfill bulk orders placed by ration shops.
- **Tracking and Reporting:** Detailed order tracking and report generation for monitoring ration distribution.

#### 3. Ration Shop Owner Verification and Management:

- **Verify Ration Shop Owners:** Approve or reject applications from ration shop owners.
- **User Management:** Update or deactivate ration shop accounts.
- **Notifications:** Send updates to ration shops about stock, policy changes, or approval status.

#### 4. Special Offers and Promotions:

- **Create Celebration Offers:** Admins can set up special offers for festivals, national holidays, or other significant days.
- **Discount Management:** Apply discounts to specific products and limit quantities if necessary.
- **Promotion Period:** Define start and end dates for offers, ensuring limited-time promotions for celebration days.
- **Featured Products:** Mark certain items as "Featured" for celebration days, making them more visible to Users.

#### 5. Report Generation:

- Generate reports on stock levels, orders, and promotional effectiveness.

## 2. Ration Shop Owner Module

Ration shop owners manage their stock, orders, and participate in celebration day offers by promoting specific products.

### **Key Features:**

#### **1. Purchase Stock from Admin:**

- **Place Bulk Orders:** Purchase items in bulk from Admin's inventory, especially for celebration days.
- **Order History:** View order history with details of pending and fulfilled orders.
- **Transaction Management:** Handle payments for stock purchases.

#### **2. Product Management:**

- **Add Products:** Add items for sale to Users, including seasonal or celebratory items.
- **Price and Quantity Management:** Set prices for each product, including discounted prices during special promotions.
- **Government Policy Compliance:** Mark certain items as subsidized, adhering to government guidelines.

#### **3. User Order Management:**

- **Process User Orders:** Accept, pack, and dispatch orders placed by Users.
- **Order Tracking:** Track order status and update Users on delivery progress.
- **Customer Notifications:** Send notifications about new stock arrivals, special offers, or order updates.

#### **4. Policy Implementation:**

- **Government Policies:** Ensure government policies on ration items are applied to products.
- **Celebration Day Offers:** Promote special offers or discounted products during festivals.

#### **5. Special Offers and Promotions:**

- **Promote Celebration Day Items:** Feature specific products or discounts based on Admin-defined promotions.
- **Create Custom Offers:** Within limits set by the Admin, shop owners can provide additional discounts on selected products during celebrations.

### **3. User Module**

Users can interact with the system to place orders for ration supplies, track purchases, and enjoy celebration day discounts.

**Key Features:**

**1. Account Management:**

- **User Registration and Profile Management:** Users can create an account, log in, and manage their personal information.

**2. Browse and Order Products:**

- **Product Catalog:** View available items from the nearest ration shop, including celebration day products and offers.
- **Search Functionality:** Search for specific products or categories.
- **Special Offers and Discounts:** View and apply discounts on products featured during celebration days.