SMART GROCERY

23MCA245 - Mini Project

Scrum Master

Ms. Sona Maria Sebastian

Assistant Professor
Department of Computer Applications

Sachin Sam Jacob

AJC23MCA-2054
REG-MCA 2023-25 S3
Git url: https://github.com/sachin-sam-jacob/Smart_Grocery.git
E Mail: sachinsamjacob2025@mca.ajce.in

**DEPARTMENT OF
COMPUTER APPLICATIONS**

ABSTRACT

SMART GROCERY

(SMART GROCERY SHOPPING WEBSITE)

The Smart Grocery website is an innovative platform designed to revolutionize the way consumers shop for groceries. By integrating advanced technologies and user-friendly features, this website aims to provide a seamless and efficient shopping experience. The project consists of various modules and features that collectively enhance convenience, personalization, and efficiency for users.

FEATURES & MODULES:

1. **User Authentication and Profile Management**

   - **User Registration/Login**: Secure registration and login functionality for users.

   - **Profile Management**: Users can manage their personal information, delivery addresses, and payment methods.

2. **Product Catalog and Search**

   - **Product Listings**: Comprehensive and categorized listing of grocery items with detailed descriptions, images, and prices.

   - **Search and Filter**: Advanced search functionality with filters based on categories, brands, price range, and more.

3. **Smart Shopping Cart**

   - **Add to Cart**: Easy addition of products to the shopping cart with real-time updates.

   - **Cart Management**: Users can view, edit, and remove items from the cart, along with the ability to save items for later.

4. **Personalized Recommendations**

- **Recommendation Engine**: AI-driven recommendations based on users' browsing history, past purchases, and preferences.

5. **Secure Payment and Checkout**:

- Multiple secure payment options including credit/debit cards, digital wallets, and bank transfers.

- Streamlined checkout process with options for guest checkout and saved payment details

6. **Order Tracking and Notifications:**

- Real-time order tracking and status updates.

- Email and SMS notifications for order confirmation, shipment, and delivery.

7. **Customer Support and Live Chat:**

- Responsive customer support through email, phone, and live chat.

- Extensive FAQ section and user guides for common inquiries.

8. **Customer Support:**

- **Live Chat and Help Center:** Instant assistance through live chat and a comprehensive help center.

- **Feedback and Reviews:** Users can provide feedback and reviews on products and services.

9. **Admin Panel**

- **User Management**: Admins can manage user accounts and monitor user activity.

- **Product Management**: Admins can add, update, and remove products from the catalog.

- **Order Management**: Admins can oversee and manage all orders placed on the website.

10.**Smart Shopping Assistant:**

- **AI Recommendations:** Use AI to provide personalized product recommendations based on past purchases, dietary preferences, and health goals.

- **Voice-Activated Assistance:** Integrate with voice assistants (e.g., Amazon Alexa, Google Assistant) to allow users to add items to their shopping list or place orders hands-free.

11.**Custom Meal Planning:**

- **Recipe Integration:** Suggest recipes based on items in the user's shopping cart or pantry and allow users to add all necessary ingredients to their shopping list with one click.

12.**Dynamic Pricing and Deals**:

- Provide dynamic pricing and real-time deals based on current stock levels, time of day, or user location.

User Functionalities

1. User Registration/Login

2. Profile Management

3. Browse and Search Products

4. Add to Cart

5. View/Edit/Remove Cart Items

6. Secure Checkout

7. Track Orders

8. Customer Support Access

9. Provide Feedback and Reviews

10. Receive Notifications

Admin Functionalities

1. Manage User Accounts

2. Add/Update/Remove Products

3. Oversee Order Management

4. Manage Inventory

5. Resolve Customer Queries

6. Generate Reports

7. Monitor Website Analytics

8. Manage Deals and Discounts

Mini Project Modules

1. **User Authentication and Profile Management**

   - User Registration/Login

   - Profile Management

2. **Product Catalog and Search**

   - Product Listings

   - Search and Filter

3. **Smart Shopping Cart**

   - Add to Cart

   - Cart Management

4. **Secure Payment and Checkout**

   - Multiple Secure Payment Options

   - Streamlined Checkout Process

5. **Order Tracking and Notifications**

   - Real-time Order Tracking

   - Email and SMS Notifications

6. **Customer Support and Live Chat**

   - Responsive Customer Support

   - Extensive FAQ Section and User Guides

7. **Admin Panel**

   - User Management

   - Product Management

   - Order Management

Main Project Modules

1. **Personalized Recommendations**

   - Recommendation Engine

2. **Advanced Customer Feedback and Reviews**

   - Feedback and Reviews Module

3. **Smart Shopping Assistant**

   - AI Recommendations

   - Voice-Activated Assistance

4. **Custom Meal Planning**

   - Recipe Integration

5. **Dynamic Pricing and Deals**

   - Dynamic Pricing Module

6. **Enhanced Admin Panel**

   - Monitor User Activity

   - Manage Inventory Levels

- Integrate with Suppliers

- Update Stock Information

- Schedule Deliveries

- Maintain Secure Payment Gateways