

## **PROJECT ABSTRACT**

***Name: Rose Maria Roy***

***INMCA S9***

***ROLL NO:52***

# MINI PROJECT

## ShyMart: Supermarket

The website for the online supermarket is a comprehensive solution created to offer clients a smooth shopping experience, allowing them to browse, search, sell and buy products. A user-friendly interface and simple navigation are provided, ensuring easy access to a large selection of goods across numerous categories.

The website for the online supermarket improves the shopping experience by providing these features, enabling users to effortlessly explore a wide range of product catalogues, make safe payments, and take advantage of quick order fulfilment. It improves the admin's control over product and customer management, order processing, and business growth.

Customers may simply explore, search, and browse products thanks to an intuitive and user-friendly layout, which streamlines the purchasing process.

### Functionalities of Module

#### 1. User Module:

User login and registration, profile creation and management, and preference customization are among the application's primary features. Product browsing, searching, product details, reviews are all part of the product catalogue module.

1. **Registration and Login**: user can login or register the account with their email id.
2. **Cart management**: user can add, remove product to the cart and checkout the products.
3. **Wishlist**: user can add product to which list.
4. **Review**: user can write review for the purchased products.
5. **Payment**: creating a payment page for transaction purposes.
6. **Basic Searching**: searching the product using its name (keyword-based search).

#### 2. Admin Module:

Admin module is intended for the admin or the team in charge of running the store. It has features for keeping track of products, orders, users, sellers.

1. **Registration and Login**: admin can login or register the account with their email id
2. **Product Management**: Admin can remove and edit the product details.

3. **View order**: admin can view the orders that purchased by the customer.
4. **User management**: admin can remove and edit the user details.

### 3. **Seller Module:**

The seller module is designed for company who want to sell their products.

1. **Registration and Login**: seller can login or register the account with their email id.
2. **Product Listing**: The seller can add the product details with name description image and price.

## **Main Project**

An overview of a cutting-edge online supermarket website that smoothly combines buyer, seller, admin operations is provided in this abstract. The website offers clients a thorough and user-friendly platform that allows them to conveniently shop for groceries and other necessities from the comfort of their homes.

The website for the online supermarket is a comprehensive solution created to offer clients a smooth shopping experience, allowing them to browse, search, sell and buy products.

Customers can buy groceries and other necessary items online using the online supermarket's easy and user-friendly platform. The website seeks to transform how consumers purchase for daily necessities in the digital age with its broad product range, personalised recommendations, and secure payment processing.

Administrators have complete control over the entire website, giving them the ability to keep an eye on sales metrics, oversee user and seller account. The admin interface makes effective inventory management and produce sales report.

The website's offers are centred on personalization, which is achieved via customising product recommendations based on user preferences, past purchases, and browsing habits. By offering each individual client relevant and alluring options, this strategy improves customer engagement and satisfaction.

### **Functionalities of Module:**

#### **1. User Module:**

1. **Product Recommendation**: user get personalized recommendation for purchasing products.
2. **Filtering**: Filter the product according to the category and price.
3. **Return and Refund Amount**: user can return the product and the amount get refunded.
4. **Payment Integration**: ensure secure payment with the help of payment gateway.

#### **2. Admin Module:**

1. **Inventory management**: involves monitoring and controlling product stock levels to ensure product availability and prevent stockouts.
2. **Admin dashboard**: Provide an overview of user and seller activity, sales report.

3. **Seller management**: admin can add, remove and edit the seller.
4. **Stock update**: Give a stock update to the seller so that we can avoid the out of stock.
5. **Order Processing**: Provide access to customer orders placed for the seller's products, allowing them to process, fulfil, and ship orders.
6. **Delivery Management**: Admin can manage the delivery agent and can assign the order.

### 3. Seller Module:

1. **Seller Dashboard**: Provide a dedicated dashboard where sellers can access and manage their account, products, and sales data.
2. **Sales Reports**: Generate reports on sales performance, revenue.

### 3. Delivery Agent

1. **Delivery Agent Login**: seller can login or register the account with their email id.
2. **Order Assignments**: Assign delivery agents to specific orders for delivery fulfilment.
3. **Order status**: agent update the status whether delivered or not
4. **Order Details**: Display comprehensive order details, including delivery address, contact information, and order items.

## **ShyMart: Supermarket Mini Project**

### 1.User Module:

- Registration and Login
- Cart management
- Wishlist
- Review
- Payment
- Basic
- Searching

### 2.Admin Module:

- Registration and Login
- Product Management
- View order
- User management

### 3.Seller Module:

- Registration and Login
- Product Listing

## **ShyMart: Supermarket Mini Project**

### 1.User Module:

- Product Recommendation
- Filtering
- Return and Refund Amount
- Payment Integration

### 2.Admin Module:

- Inventory management
- Admin dashboard
- Seller management
- Stock update
- Order Processing
- Delivery Management

### 3.Seller Module:

- Seller Dashboard
- Sales Reports

### 4.Seller Module:

- Delivery Agent Login
- Order Assignments
- Order status
- Order Details

## **SEMINAR TOPIC**

### **Demand forecasting**

It is a process of using historical data and market trend to predict the future demand for the product or services.

A *hybrid strategy* that includes *machine learning* and *time series* analysis is frequently used for demand forecasting in an online supermarket store using purchase history, pricing, and review data.

Use time series analysis to identify the historical patterns in the data on past purchases. (Moving average, ARIMA)

Use machine learning methods to combine data from several variables, such as price, and review data allowing for a more dynamic and data-driven forecasting. (Regression, decision trees).