# recGROCERY MANAGEMENT SYSTEM

## A MINI PROJECT REPORT


**Submitted by**

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# BONAFIDE CERTIFICATE

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# ABSTRACT

The recGrocery Management System revolutionizes the grocery shopping experience while simplifying inventory and order management. This documentation offers a concise exploration of its architecture, modules, employed technologies, and implementation essentials, serving as a quick guide for understanding the system's functionality and operation.

The system's architecture is meticulously designed for scalability and efficiency, comprising interconnected modules such as inventory management, order processing, user authentication, and analytics. Leveraging cutting-edge technologies, from robust database management systems to intuitive web development frameworks, ensures optimal performance and reliability.

This documentation provides insights into each module's functionalities, interactions, and underlying algorithms, alongside implementation details for seamless setup, configuration, and deployment. With this resource, stakeholders can harness the recGrocery Management System's full potential, optimizing grocery management operations and enhancing the shopping experience.

# ACKNOWLEDEMENT

Be for we describe in brief about our project, we would like to add a few heartfelt words for the people who were very much helpful for us in developing this project. We heartily thankful to our Mam **"Ms. Mahesmeena K."** for giving us this opportunity to develop the project. We give him our sincere salute for inspiring and motivating us.

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# Chapter 1

# 1. INTRODUCTION

## 1.1 INTRODUCTION

The recGrocery Management System (recGrocery) is designed to provide a seamless and efficient grocery shopping experience for users while enabling administrators to manage products, orders, and users effectively. The system is divided into two main modules: User and Admin. Each module encompasses a range of functionalities tailored to meet the needs of its respective users.

### User Module

The User Module allows customers to log in to the system, view their profiles, browse and search for products, add products to their cart, and place orders. This module focuses on providing a user-friendly interface and a smooth shopping experience.

### Admin Module

The Admin Module is designed for administrators to manage the system's backend operations. It includes functionalities for product management, order processing, user management, statistical analysis, and admin profile management. This module ensures efficient administration and maintenance of the system.

## 1.2 OBJECTIVES

- User Experience: To provide an intuitive and user-friendly shopping experience.
- Efficiency: To streamline the management of inventory, orders, and user data.
- Insights: To offer detailed statistical insights for informed decision-making.
- Security: To ensure secure handling of user data and transactions.
- Scalability: To design a system that can scale with increasing users and products.

## 1.3 MODULES

### User Module

- **Login:** Secure user authentication.
- **Profile Management:** View and update user profiles.
- **View Products:** Browse and search for products.

- **Cart Management:** Add, update, or remove products from the cart.
- **Order Management:** Place and track orders.

**Admin Module**

- **Login:** Secure admin authentication.
- **Statistics Dashboard:** View detailed reports and analytics.
- **Order Management:** Process and manage user orders.
- **Product Management:** Add, update, or delete products.
- **User Management:** Manage user accounts and permissions.
- **Admin Management:** Manage admin accounts and permissions.
- **Profile Management:** View and update admin profiles.

# Chapter 2

# 2. SURVEY OF TECHNOLOGY

## 2.1 SOFTWARE DESCRIPTION

The recGrocery system is developed using modern web technologies to ensure reliability, security, and performance. The front-end is built with Python, HTML/CSS, and PHP, providing a responsive and interactive user interface. The back-end is developed using Python and the Django framework, offering a robust and scalable server-side application. Data storage and management are handled using a relational database with SQL.

## 2.1 LANGUAGES

### 2.2.1 PYTHON

Python is a versatile and high-level programming language known for its simplicity and readability, making it an ideal choice for both beginners and experienced developers.

Python enables developers to write clear and logical code for small and large-scale projects alike.

Python supports multiple programming paradigms, including procedural, object-oriented, and functional programming, allowing developers to choose the best approach for their specific needs.

Its user-friendly nature encourages learning and development, contributing to its reputation as one of the most popular and influential programming languages in the world

### 2.2.2 HTML/CSS

HTML, short for HyperText Markup Language, serves as the backbone of web development, providing the structure and content for web pages.

As a markup language, HTML utilizes tags to define elements such as headings, paragraphs, links, and images, facilitating the creation of visually appealing and interactive web content.

Its simplicity and ease of use make it an essential skill for aspiring web developers, serving as the foundation upon which more advanced web technologies are built.

CSS, or Cascading Style Sheets, complements HTML by controlling the presentation and layout of web pages, enhancing their visual appeal and user experience.

CSS offers a wide range of styling options, including fonts, colors, margins, and animations, allowing developers to create stunning and responsive designs.

As an integral part of modern web development, proficiency in CSS is essential for crafting engaging and immersive web experiences.

### 2.2.3 PHP MYSQL

PHP, originally standing for Personal Home Page, is a server-side scripting language widely used for web development and dynamic content generation.

PHP seamlessly integrates with HTML, allowing developers to embed PHP code directly within HTML files to create dynamic web pages.

PHP offers extensive functionality for database integration, file handling, and session management, enabling the creation of interactive and data-driven web applications.

Its open-source nature and vast community support contribute to its popularity and widespread adoption in the web development industry.

With its versatility and ease of use, PHP remains a cornerstone of server-side programming, empowering developers to build robust and scalable web solutions.

# Chapter 3

# 3. REQUIREMENT AND ANALYSIS

## 3.1 REQUIREMENTS SPECIFICATION

**Functional Requirements:**

- **User Authentication:** Secure login and registration for users and admins.
- **Product Listing:** Display available products with search and filter options.
- **Cart Management:** Add, update, or remove products from the shopping cart.
- **Order Processing:** Place, track, and manage orders.
- **Admin Management:** Manage products, users, orders, and other admins.
- **Statistical Reports:** Generate reports for sales, inventory, and user activities.

**Non-Functional Requirements:**

- **Security:** Protect user data and ensure secure transactions.
- **Usability:** Provide an intuitive and easy-to-navigate interface.
- **Performance:** Ensure fast loading times and efficient handling of requests.
- **Scalability:** Design the system to handle growing amounts of data and users.

## 3.2 HARDWARE AND SOFTWARE REQUIREMENTS

**Hardware Requirements:**

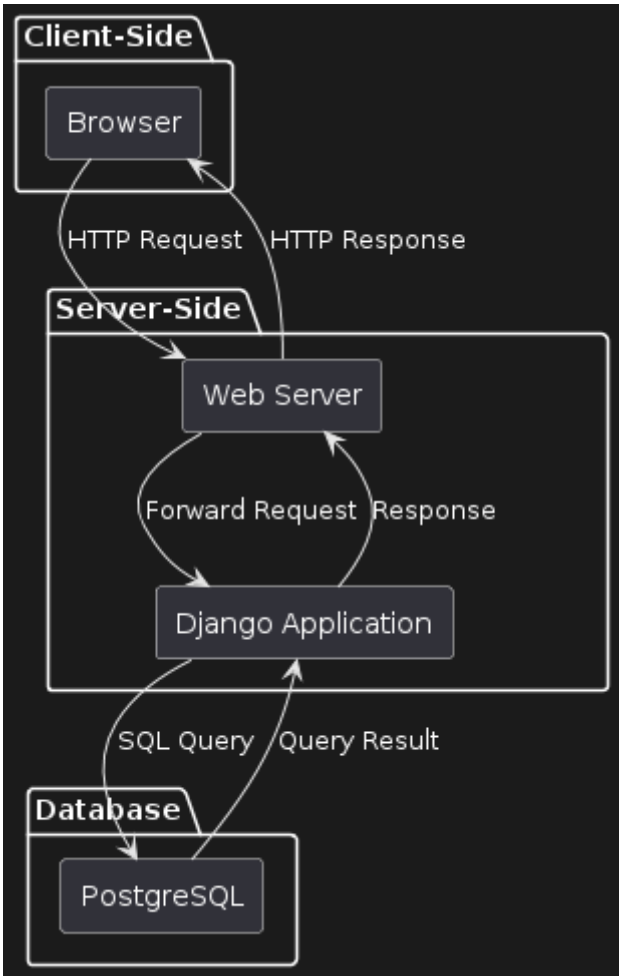
- **Server:** High-performance server with sufficient processing power and storage.
- **User Devices:** Computers, tablets, or smartphones with internet access. Desktop with at least 2GB RAM and dual-core processor, laptop with similar specifications.
    - 64-bit OS to utilize the full capabilities of the hardware
    - 1024 x 768 resolution monitor for optimal display of application

**Software Requirements:**

- **Operating System:** Windows 7 or later, macOS 10.12 or later, Ubuntu 16.04 or later
- **Web browser:** Google Chrome version 88 or later, Mozilla Firefox version 85 or later, Safari version 14 or later, Microsoft Edge version 88 or later
- **Web Server:** Apache or Nginx (XAMPP).
- **Database:** PHP SQL or MySQL.
- **Programming Languages:** Python, SQL, PHP.
- **Framework:** Django.

- **Front-end Libraries:** Bootstrap, CSS.
- **Internet Connections:** Stable broadband internet connection

### 3.3 ARCHITECTURE DIAGRAM




The architecture diagram illustrates a typical web application architecture with multiple layers and components:

User Interface (UI) Layer: This layer represents the frontend components of the web application, responsible for rendering the user interface and handling user interactions. It includes HTML, CSS, and JavaScript files served to the client's web browser.

Application Layer: The Application Layer contains the business logic and application functionalities. This layer is implemented using a server-side scripting language, such as PHP, which interacts with the frontend to process user requests, perform operations, and generate dynamic content.

Database Layer: The Database Layer consists of one or more databases that store the application's data. In this diagram, it's represented by the "Database" block, which could be a relational database management system (RDBMS) like MySQL or PostgreSQL.

Web Server: The Web Server is responsible for hosting and serving the web application to users over the internet. It handles incoming HTTP requests, routes them to the appropriate components, and sends back the corresponding responses. Common web servers include Apache HTTP Server and Nginx.

Client Devices: These represent the devices used by end-users to access the web application, such as desktop computers, laptops, tablets, and smartphones.

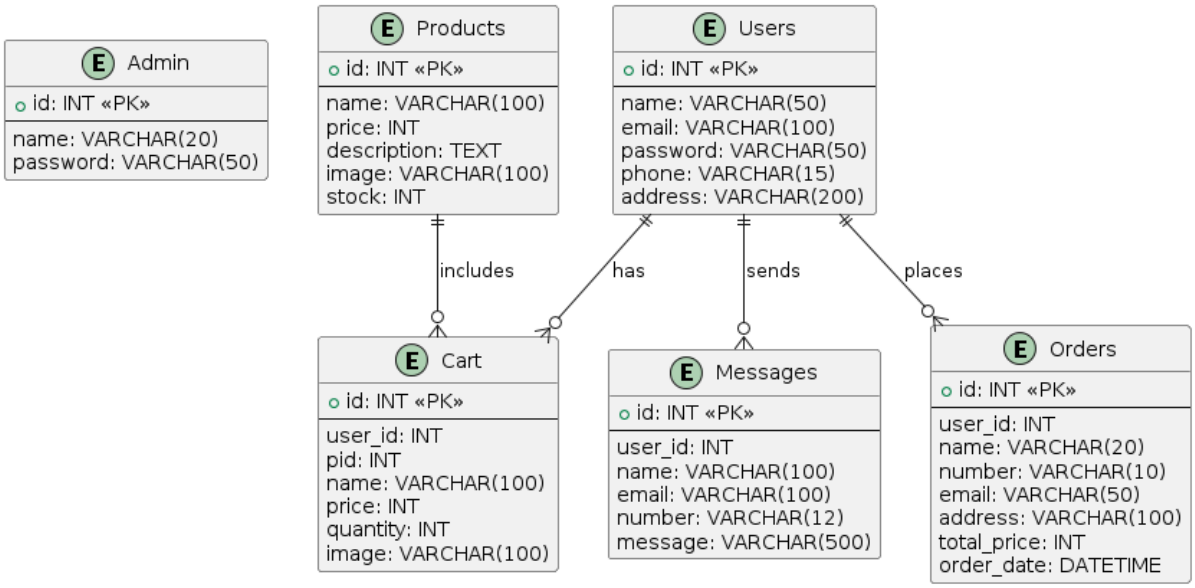
Network Infrastructure: This includes the networking components that facilitate communication between different parts of the system, including routers, switches, and firewalls.

Overall, the architecture follows a typical client-server model, where the frontend (client) interacts with the backend (server) to perform operations and retrieve data from the database. This layered architecture promotes modularity, scalability, and maintainability of the web application.

### 3.4 ER DIAGRAM

**Tables and Relationships:**

- **Admin:** Manages the admin users.
- **Cart:** Stores cart items for users.
- **Messages:** Stores user messages.
- **Orders:** Stores order details.
- **Products:** Stores product details.
- **Users:** Stores user details.



### 3.5 NORMALIZATION

**First Normal Form (1NF)**

Ensures that all columns contain atomic, indivisible values, and each column contains values of a single type.

```
CREATE TABLE admin (
   id INT NOT NULL PRIMARY KEY,
   name VARCHAR(20) NOT NULL,
   password VARCHAR(50) NOT NULL
);

CREATE TABLE cart (
   id INT NOT NULL PRIMARY KEY,
   user_id INT NOT NULL,
   pid INT NOT NULL,
   name VARCHAR(100) NOT NULL,
   price INT NOT NULL,
   quantity INT NOT NULL,
   image VARCHAR(100) NOT NULL
);

CREATE TABLE messages (
   id INT NOT NULL PRIMARY KEY,
   user_id INT NOT NULL,
   name VARCHAR(100) NOT NULL,
   email VARCHAR(100) NOT NULL,
   number VARCHAR(12) NOT NULL,
   message VARCHAR(500) NOT NULL
);

CREATE TABLE orders (
   id INT NOT NULL PRIMARY KEY,
   user_id INT NOT NULL,
   name VARCHAR(20) NOT NULL,
   number VARCHAR(10) NOT NULL,
   email VARCHAR(50) NOT NULL,
   address VARCHAR(100) NOT NULL,
   total_price INT NOT NULL,
   order_date DATETIME NOT NULL
);

CREATE TABLE products (
   id INT NOT NULL PRIMARY KEY,
   name VARCHAR(100) NOT NULL,
   price INT NOT NULL,
   description TEXT NOT NULL,
   image VARCHAR(100) NOT NULL,
   stock INT NOT NULL
```

```
);

CREATE TABLE users (
    id INT NOT NULL PRIMARY KEY,
    name VARCHAR(50) NOT NULL,
    email VARCHAR(100) NOT NULL,
    password VARCHAR(50) NOT NULL,
    phone VARCHAR(15) NOT NULL,
    address VARCHAR(200) NOT NULL
);
```

**Second Normal Form (2NF)**

Ensures that all non-key attributes are fully functional dependent on the primary key.

cart: The attributes name, price, quantity, and image are fully dependent on the composite key of user_id and pid.
orders: The attributes name, number, email, address, total_price, and order_date are fully dependent on id.

**Third Normal Form (3NF)**

Ensures that all non-key attributes are not transitively dependent on the primary key.

users: Ensures that all user details are stored in the users table without any transitive dependency.
products: Ensures that product details are stored in the products table without any transitive dependency.

# Chapter 4

# 4. PROGRAM CODE

### 4.1 CODE DETAILS

**#cart.py**

```
#!/usr/bin/env python3
execfile("components/connect.php")
php_session_start()
if (php_isset(lambda : PHP_SESSION["user_id"])):
    user_id_ = PHP_SESSION["user_id"]
else:
    user_id_ = ""
    php_header("location:home.php")
# end if
if (php_isset(lambda : PHP_POST["delete"])):
    cart_id_ = PHP_POST["cart_id"]
    delete_cart_item_ = conn_.prepare("DELETE FROM `cart` WHERE id = ?")
    delete_cart_item_.execute(Array(cart_id_))
    message_[-1] = "Cart item deleted!"
# end if
if (php_isset(lambda : PHP_POST["delete_all"])):
    delete_cart_item_ = conn_.prepare("DELETE FROM `cart` WHERE user_id = ?")
    delete_cart_item_.execute(Array(user_id_))
    #// header('location:cart.php');
    message_[-1] = "Deleted all from cart!"
# end if
if (php_isset(lambda : PHP_POST["update_qty"])):
    cart_id_ = PHP_POST["cart_id"]
    qty_ = PHP_POST["qty"]
    qty_ = filter_var(qty_, FILTER_SANITIZE_STRING)
    update_qty_ = conn_.prepare("UPDATE `cart` SET quantity = ? WHERE id = ?")
    update_qty_.execute(Array(qty_, cart_id_))
    message_[-1] = "Cart quantity updated"
# end if
grand_total_ = 0
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>My Cart</title>
```

```
<link rel=\"shortcut icon\" href=\"images/icon.png\"/>
<link rel=\"stylesheet\" href=\"https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"css/style.css\">
</head>
<body>

""")
execfile("components/user_header.php")
print("""<div class=\"heading\">
<h3>My Cart</h3>
</div>
<section class=\"products\">
<div class=\"box-container\">
""")
grand_total_ = 0
select_cart_ = conn_.prepare("SELECT * FROM `cart` WHERE user_id = ?")
select_cart_.execute(Array(user_id_))
if select_cart_.rowcount() > 0:
   while True:
      fetch_cart_ = select_cart_.fetch(PDO.FETCH_ASSOC)
      if not (fetch_cart_):
         break
      # end if
      print("      <form action=\"\" method=\"post\" class=\"box\">\n         <input
type=\"hidden\" name=\"cart_id\" value=\"")
      print(fetch_cart_["id"])
      print("\">\n         <button type=\"submit\" class=\"fas fa-times\" name=\"delete\"
onclick=\"return confirm('delete this item?');\"></button>\n         <img
src=\"uploaded_img/")
      print(fetch_cart_["image"])
      print("\" alt=\"\">\n         <div class=\"name\">")
      print(fetch_cart_["name"])
      print("</div>\n         <div class=\"flex\">\n            <div
class=\"price\"><span>â,¹</span>")
      print(fetch_cart_["price"])
      print("</div>\n            <input type=\"number\" name=\"qty\" class=\"qty\" min=\"1\"
max=\"99\" value=\"")
      print(fetch_cart_["quantity"])
      print("""\" maxlength=\"2\">
      <button type=\"submit\" class=\"fas fa-edit\" name=\"update_qty\"></button>
      </div>
      <div class=\"sub-total\"> Sub Total : <span>â,¹""")
      print(sub_total_ = fetch_cart_["price"] * fetch_cart_["quantity"])
      print("/-</span> </div>\n      </form>\n      ")
      grand_total_ += sub_total_
   # end while
else:
   print("<p class=\"empty\">Your cart is empty</p>")
# end if
```

```
print("""
</div>
<div class=\"cart-total\">
<p>Cart Total: <span>â‚¹""")
print(grand_total_)
print("</span></p>\n      <a href=\"checkout.php\" class=\"btn ")
print("" if grand_total_ > 1 else "disabled")
print("""\">proceed to checkout</a>
</div>
<div class=\"more-btn\">
<form action=\"\" method=\"post\">
<button type=\"submit\" class=\"delete-btn """)
print("" if grand_total_ > 1 else "disabled")
print("""\" name=\"delete_all\" onclick=\"return confirm('delete all from cart?');\">delete
all</button>
</form>
<a href=\"menu.php\" class=\"btn\">continue shopping</a>
</div>
</section>
<!-- shopping cart section ends -->
<!-- footer section starts  -->
""")
execfile("components/footer.php")
print("""<!-- footer section ends -->
<!-- custom js file link  -->
<script src=\"js/script.js\"></script>
</body>
</html>""")
execfile("components/connect.php")
php_session_start()
if (php_isset(lambda : PHP_SESSION["user_id"])):
    user_id_ = PHP_SESSION["user_id"]
else:
    user_id_ = ""
    php_header("location:home.php")
# end if
if (php_isset(lambda : PHP_POST["delete"])):
    cart_id_ = PHP_POST["cart_id"]
    delete_cart_item_ = conn_.prepare("DELETE FROM `cart` WHERE id = ?")
    delete_cart_item_.execute(Array(cart_id_))
    message_[-1] = "Cart item deleted!"
# end if
if (php_isset(lambda : PHP_POST["delete_all"])):
    delete_cart_item_ = conn_.prepare("DELETE FROM `cart` WHERE user_id = ?")
    delete_cart_item_.execute(Array(user_id_))
    #// header('location:cart.php');
    message_[-1] = "Deleted all from cart!"
# end if
if (php_isset(lambda : PHP_POST["update_qty"])):
    cart_id_ = PHP_POST["cart_id"]
```

```
    qty_ = PHP_POST["qty"]
    qty_ = filter_var(qty_, FILTER_SANITIZE_STRING)
    update_qty_ = conn_.prepare("UPDATE `cart` SET quantity = ? WHERE id = ?")
    update_qty_.execute(Array(qty_, cart_id_))
    message_[-1] = "Cart quantity updated"
# end if
grand_total_ = 0
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>My Cart</title>
<link rel=\"shortcut icon\" href=\"images/icon.png\"/>
<link rel=\"stylesheet\" href=\"https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"css/style.css\">
</head>
<body>

""")
execfile("components/user_header.php")
print("""<div class=\"heading\">
<h3>My Cart</h3>
</div>
<section class=\"products\">
<div class=\"box-container\">
""")
grand_total_ = 0
select_cart_ = conn_.prepare("SELECT * FROM `cart` WHERE user_id = ?")
select_cart_.execute(Array(user_id_))
if select_cart_.rowcount() > 0:
    while True:
        fetch_cart_ = select_cart_.fetch(PDO.FETCH_ASSOC)
        if not (fetch_cart_):
            break
        # end if
        print("      <form action=\"\" method=\"post\" class=\"box\">\n         <input
type=\"hidden\" name=\"cart_id\" value=\"")
        print(fetch_cart_["id"])
        print("\">\n         <button type=\"submit\" class=\"fas fa-times\" name=\"delete\"
onclick=\"return confirm('delete this item?');\"></button>\n         <img
src=\"uploaded_img/")
        print(fetch_cart_["image"])
        print("\" alt=\"\">\n         <div class=\"name\">")
        print(fetch_cart_["name"])
        print("</div>\n         <div class=\"flex\">\n            <div
class=\"price\"><span>â,¹</span>")
```

```
        print(fetch_cart_["price"])
        print("</div>\n            <input type=\"number\" name=\"qty\" class=\"qty\" min=\"1\"
max=\"99\" value=\"")
        print(fetch_cart_["quantity"])
        print("""\" maxlength=\"2\">
        <button type=\"submit\" class=\"fas fa-edit\" name=\"update_qty\"></button>
        </div>
        <div class=\"sub-total\"> Sub Total : <span>â‚¹""")
        print(sub_total_ = fetch_cart_["price"] * fetch_cart_["quantity"])
        print("/-</span> </div>\n      </form>\n      ")
        grand_total_ += sub_total_
    # end while
else:
    print("<p class=\"empty\">Your cart is empty</p>")
# end if
print("""
</div>
<div class=\"cart-total\">
<p>Cart Total: <span>â‚¹""")
print(grand_total_)
print("</span></p>\n      <a href=\"checkout.php\" class=\"btn ")
print("" if grand_total_ > 1 else "disabled")
print("""\">proceed to checkout</a>
</div>
<div class=\"more-btn\">
<form action=\"\" method=\"post\">
<button type=\"submit\" class=\"delete-btn """)
print("" if grand_total_ > 1 else "disabled")
print("""\" name=\"delete_all\" onclick=\"return confirm('delete all from cart?');\">delete
all</button>
</form>
<a href=\"menu.php\" class=\"btn\">continue shopping</a>
</div>
</section>
<!-- shopping cart section ends -->
<!-- footer section starts  -->
""")
execfile("components/footer.php")
print("""<!-- footer section ends -->
<!-- custom js file link  -->
<script src=\"js/script.js\"></script>
</body>
</html>""")
```

**#category.py**

```
#!/usr/bin/env python3
execfile("components/connect.php")
php_session_start()
if (php_isset(lambda : PHP_SESSION["user_id"])):
```

```
    user_id_ = PHP_SESSION["user_id"]
else:
    user_id_ = ""
# end if
execfile("components/add_cart.php")
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>Category</title>
<link rel=\"shortcut icon\" href=\"images/icon.png\"/>
<link rel=\"stylesheet\" href=\"https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"css/style.css\">
</head>
<body>

""")
execfile("components/user_header.php")
print("<section class=\"products\">\n      ")
category_ = PHP_REQUEST["category"]
print("   <h1 class=\"title\">")
print(category_)
print("</h1>\n   <div class=\"box-container\">\n      ")
category_ = PHP_REQUEST["category"]
select_products_ = conn_.prepare("SELECT * FROM `products` WHERE category in (?)")
select_products_.execute(Array(category_))
if select_products_.rowcount() > 0:
    while True:
        fetch_products_ = select_products_.fetch(PDO.FETCH_ASSOC)
        if not (fetch_products_):
            break
        # end if
        print("          <form action=\"\" method=\"post\" class=\"box\">\n                <input type=\"hidden\" name=\"pid\" value=\"")
        print(fetch_products_["id"])
        print("\">\n        <input type=\"hidden\" name=\"name\" value=\"")
        print(fetch_products_["name"])
        print("\">\n        <input type=\"hidden\" name=\"price\" value=\"")
        print(fetch_products_["price"])
        print("\">\n        <input type=\"hidden\" name=\"image\" value=\"")
        print(fetch_products_["image"])
        print("\">\n                <button type=\"submit\" class=\"fas fa-shopping-cart\" name=\"add_to_cart\"></button>\n        <img src=\"uploaded_img/")
        print(fetch_products_["image"])
        print("\" alt=\"\">\n        <div class=\"name\">")
        print(fetch_products_["name"])
```

```
        print("</div>\n                    <div   class=\"flex\">\n                    <div
class=\"price\"><span>â‚¹</span>")
        print(fetch_products_["price"])
        print("""</div>
        <input type=\"number\" name=\"qty\" class=\"qty\" min=\"1\" max=\"99\" value=\"1\"
maxlength=\"2\">
        </div>
        </form>
        """)
    # end while
else:
    print("<p class=\"empty\">Sorry, Products are out of stock!</p>")
# end if
print("    </div>\n</section>\n")
execfile("components/footer.php")
print("""<script src=\"https://unpkg.com/swiper@8/swiper-bundle.min.js\"></script>
<script src=\"js/script.js\"></script>
</body>
</html>""")
```

**#checkout.py**

```
#!/usr/bin/env python3
execfile("components/connect.php")
php_session_start()
if (php_isset(lambda : PHP_SESSION["user_id"])):
    user_id_ = PHP_SESSION["user_id"]
else:
    user_id_ = ""
    php_header("location:home.php")
# end if
if (php_isset(lambda : PHP_POST["submit"])):
    name_ = PHP_POST["name"]
    name_ = filter_var(name_, FILTER_SANITIZE_STRING)
    number_ = PHP_POST["number"]
    number_ = filter_var(number_, FILTER_SANITIZE_STRING)
    email_ = PHP_POST["email"]
    email_ = filter_var(email_, FILTER_SANITIZE_STRING)
    method_ = PHP_POST["method"]
    method_ = filter_var(method_, FILTER_SANITIZE_STRING)
    address_ = PHP_POST["address"]
    address_ = filter_var(address_, FILTER_SANITIZE_STRING)
    total_products_ = PHP_POST["total_products"]
    total_price_ = PHP_POST["total_price"]
    check_cart_ = conn_.prepare("SELECT * FROM `cart` WHERE user_id = ?")
    check_cart_.execute(Array(user_id_))
    if check_cart_.rowcount() > 0:
        if address_ == "":
            message_[-1] = "Please add your address!"
        else:
```

```
        insert_order_ = conn_.prepare("INSERT INTO `orders`(user_id, name, number, email, method, address, total_products, total_price) VALUES(?,?,?,?,?,?,?,?)")
        insert_order_.execute(Array(user_id_, name_, number_, email_, method_, address_, total_products_, total_price_))
        delete_cart_ = conn_.prepare("DELETE FROM `cart` WHERE user_id = ?")
        delete_cart_.execute(Array(user_id_))
        php_header("Location: home.php?message=OrderPlacedSuccessfully")
      # end if
   else:
      message_[-1] = "Your cart is empty"
   # end if
# end if
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>Checkout</title>
<link rel=\"shortcut icon\" href=\"images/icon.png\"/>
<link rel=\"stylesheet\" href=\"https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"css/style.css\">
</head>
<body>
""")
execfile("components/user_header.php")
print("""
<div class=\"heading\">
<h3>Checkout</h3>
</div>
<section class=\"checkout\">
<h1 class=\"title\">order summary</h1>
<form action=\"\" method=\"post\">
<div class=\"cart-items\">
<h3>cart items</h3>
""")
grand_total_ = 0
cart_items_[-1] = ""
select_cart_ = conn_.prepare("SELECT * FROM `cart` WHERE user_id = ?")
select_cart_.execute(Array(user_id_))
if select_cart_.rowcount() > 0:
   while True:
      fetch_cart_ = select_cart_.fetch(PDO.FETCH_ASSOC)
      if not (fetch_cart_):
         break
      # end if
      cart_items_[-1] = fetch_cart_["name"] + " (" + fetch_cart_["price"] + " x " + fetch_cart_["quantity"] + ") - "
```

```
        total_products_ = php_implode(cart_items_)
        grand_total_ += fetch_cart_["price"] * fetch_cart_["quantity"]
        print("      <p><span class=\"name\" style=\"color:white;\">")
        print(fetch_cart_["name"])
        print("</span><span class=\"price\">â,¹")
        print(fetch_cart_["price"])
        print(" x ")
        print(fetch_cart_["quantity"])
        print("</span></p>\n      ")
    # end while
else:
    print("<p class=\"empty\">Your cart is empty!</p>")
# end if
print("            <p class=\"grand-total\"><span class=\"name\">Sub-Total :</span><span class=\"price\">â,¹")
print(grand_total_)
print("</span></p>\n            <p class=\"grand-total\"><span class=\"name\">GST 5% :</span><span class=\"price\">â,¹")
print(grand_total_ * 0.05)
print("</span></p>\n            <p class=\"grand-total\"><span class=\"name\">Grand Total :</span><span class=\"price\">â,¹")
print(grand_total_ + grand_total_ * 0.05)
print("""</span></p>
<a href=\"cart.php\" class=\"btn\">view cart</a>
</div>
<input type=\"hidden\" name=\"total_products\" value=\"""")
print(total_products_)
print("\">\n   <input type=\"hidden\" name=\"total_price\" value=\"")
print(grand_total_ + grand_total_ * 0.05)
print("\" value=\"\">\n   <input type=\"hidden\" name=\"name\" value=\"")
print(fetch_profile_["name"])
print("\">\n   <input type=\"hidden\" name=\"number\" value=\"")
print(fetch_profile_["number"])
print("\">\n   <input type=\"hidden\" name=\"email\" value=\"")
print(fetch_profile_["email"])
print("\">\n   <input type=\"hidden\" name=\"address\" value=\"")
print(fetch_profile_["address"])
print("""\">
<div class=\"user-info\">
<h3>your info</h3>
<p><i class=\"fas fa-user\"></i><span>""")
print(fetch_profile_["name"])
print("</span></p>\n      <p><i class=\"fas fa-phone\"></i><span>")
print(fetch_profile_["number"])
print("</span></p>\n      <p><i class=\"fas fa-envelope\"></i><span>")
print(fetch_profile_["email"])
print("""</span></p>
<a href=\"update_profile.php\" class=\"btn\">update info</a>
<h3>delivery address</h3>
<p><i class=\"fas fa-map-marker-alt\"></i><span>""")
```

```
if fetch_profile_["address"] == "":
    print("please enter your address")
else:
    print(fetch_profile_["address"])
# end if
print("""</span></p>
<a href=\"update_address.php\" class=\"btn\">update address</a>
<select name=\"method\" class=\"box\" required>
<option value=\"\" disabled selected>Select Payment Mode</option>
<option value=\"cash on delivery\">Cash On Delivery</option>
<option value=\"credit card\">Credit Card</option>
<option value=\"paytm\">UPI</option>
</select>
<input type=\"submit\" value=\"place order\" class=\"btn """)
if fetch_profile_["address"] == "":
    print("disabled")
# end if
print("""\" style=\"width:100%; background:#830684; color:var(--white);\"
name=\"submit\">
</div>
</form>
</section>
""")
execfile("components/footer.php")
print("<script src=\"js/script.js\"></script>\n</body>\n</html>")
```

**#profile.py**

```
#!/usr/bin/env python3
execfile("components/connect.php")
php_session_start()
if (php_isset(lambda : PHP_SESSION["user_id"])):
    user_id_ = PHP_SESSION["user_id"]
else:
    user_id_ = ""
    php_header("location:home.php")
# end if
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>My Profile</title>
<link rel=\"shortcut icon\" href=\"images/icon.png\"/>
<link rel=\"stylesheet\" href=\"https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"css/style.css\">
</head>
```

```
<body>

""")
execfile("components/user_header.php")
print("""
<section class=\"user-details\">
<div class=\"user\">
""")
print("          <img src=\"images/user-icon.png\" alt=\"\">\n          <p><i class=\"fas fa-user\"></i><span><span>")
print(fetch_profile_["name"])
print("</span></span></p>\n      <p><i class=\"fas fa-phone\"></i><span>")
print(fetch_profile_["number"])
print("</span></p>\n      <p><i class=\"fas fa-envelope\"></i><span>")
print(fetch_profile_["email"])
print("</span></p>\n        <a href=\"update_profile.php\" class=\"btn\">update info</a>\n<p class=\"address\"><i class=\"fas fa-map-marker-alt\"></i><span>")
if fetch_profile_["address"] == "":
   print("Please enter your address")
else:
   print(fetch_profile_["address"])
# end if
print("""</span></p>
<a href=\"update_address.php\" class=\"btn\">update address</a>
</div>
</section>
""")
execfile("components/footer.php")
print("<script src=\"js/script.js\"></script>\n</body>\n</html>")
```

**#register.py**

```
#!/usr/bin/env python3
execfile("components/connect.php")
php_session_start()
if (php_isset(lambda : PHP_SESSION["user_id"])):
   user_id_ = PHP_SESSION["user_id"]
else:
   user_id_ = ""
# end if
if (php_isset(lambda : PHP_POST["submit"])):
   name_ = PHP_POST["name"]
   name_ = filter_var(name_, FILTER_SANITIZE_STRING)
   email_ = PHP_POST["email"]
   email_ = filter_var(email_, FILTER_SANITIZE_STRING)
   number_ = PHP_POST["number"]
   number_ = filter_var(number_, FILTER_SANITIZE_STRING)
   pass_ = sha1(PHP_POST["pass"])
   pass_ = filter_var(pass_, FILTER_SANITIZE_STRING)
   cpass_ = sha1(PHP_POST["cpass"])
```

```
    cpass_ = filter_var(cpass_, FILTER_SANITIZE_STRING)
    select_user_ = conn_.prepare("SELECT * FROM `users` WHERE email = ? OR number
= ?")
    select_user_.execute(Array(email_, number_))
    row_ = select_user_.fetch(PDO.FETCH_ASSOC)
    if select_user_.rowcount() > 0:
        message_[-1] = "Email ID or Number Already Exists!"
    else:
        if pass_ != cpass_:
            message_[-1] = "Confirm Password Not Matched!"
        else:
            insert_user_ = conn_.prepare("INSERT INTO `users`(name, email, number,
password) VALUES(?,?,?,?)")
            insert_user_.execute(Array(name_, email_, number_, cpass_))
            select_user_ = conn_.prepare("SELECT * FROM `users` WHERE email = ? AND
password = ?")
            select_user_.execute(Array(email_, pass_))
            row_ = select_user_.fetch(PDO.FETCH_ASSOC)
            if select_user_.rowcount() > 0:
                PHP_SESSION["user_id"] = row_["id"]
                php_header("location:home.php")
            # end if
        # end if
    # end if
# end if
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>Registration</title>
<link rel=\"shortcut icon\" href=\"images/icon.png\"/>
<link rel=\"stylesheet\" href=\"https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"css/style.css\">
</head>
<body>

""")
execfile("components/user_header.php")
print("""
<section class=\"form-container\">
<form action=\"\" method=\"post\">
<h3>Register Now</h3>
<input type=\"text\" name=\"name\" required placeholder=\"Enter your name\"
class=\"box\" maxlength=\"50\">
<input type=\"email\" name=\"email\" required placeholder=\"Enter your email\"
class=\"box\" maxlength=\"50\" oninput=\"this.value = this.value.replace(/\\s/g, '')\">
```

```
<input type=\"number\" name=\"number\" required placeholder=\"Enter your number\" class=\"box\" min=\"0\" max=\"9999999999\" maxlength=\"10\">
<input type=\"password\" name=\"pass\" required placeholder=\"Enter your password\" class=\"box\" maxlength=\"50\" oninput=\"this.value = this.value.replace(/\\s/g, '')\">
<input type=\"password\" name=\"cpass\" required placeholder=\"Confirm your password\" class=\"box\" maxlength=\"50\" oninput=\"this.value = this.value.replace(/\\s/g, '')\">
<input type=\"submit\" value=\"register now\" name=\"submit\" class=\"btn\">
<p>Already have an account? <a href=\"login.php\">Login Now!</a></p>
</form>
</section>
""")
execfile("components/footer.php")
print("""
<!-- custom js file link  -->
<script src=\"js/script.js\"></script>
</body>
</html>
""")
```

**#search.py**

```
#!/usr/bin/env python3
execfile("components/connect.php")
php_session_start()
if (php_isset(lambda : PHP_SESSION["user_id"])):
    user_id_ = PHP_SESSION["user_id"]
else:
    user_id_ = ""
# end if
execfile("components/add_cart.php")
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>Search</title>
<link rel=\"shortcut icon\" href=\"images/icon.png\"/>
<link rel=\"stylesheet\" href=\"https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"css/style.css\">
</head>
<body>

""")
execfile("components/user_header.php")
print("""
<section class=\"search-form\">
<form method=\"post\" action=\"\">
```

```
<input type=\"text\" name=\"search_box\" placeholder=\"Search here...\" class=\"box\">
<button type=\"submit\" name=\"search_btn\" class=\"fas fa-search\"></button>
</form>
</section>
<section class=\"products\" style=\"min-height: 100vh; padding-top:0;\">
<div class=\"box-container\">
""")
if (php_isset(lambda : PHP_POST["search_box"])) or (php_isset(lambda : PHP_POST["search_btn"])):
   search_box_ = PHP_POST["search_box"]
   select_products_ = conn_.prepare(str("SELECT * FROM `products` WHERE name LIKE '%") + str(search_box_) + str("%'"))
   select_products_.execute()
   if select_products_.rowcount() > 0:
      while True:
         fetch_products_ = select_products_.fetch(PDO.FETCH_ASSOC)
         if not (fetch_products_):
            break
         # end if
         print("         <form action=\"\" method=\"post\" class=\"box\">\n            <input type=\"hidden\" name=\"pid\" value=\"")
         print(fetch_products_["id"])
         print("\">\n         <input type=\"hidden\" name=\"name\" value=\"")
         print(fetch_products_["name"])
         print("\">\n         <input type=\"hidden\" name=\"price\" value=\"")
         print(fetch_products_["price"])
         print("\">\n         <input type=\"hidden\" name=\"image\" value=\"")
         print(fetch_products_["image"])
         print("\">\n            <button type=\"submit\" class=\"fas fa-shopping-cart\" name=\"add_to_cart\"></button>\n         <img src=\"uploaded_img/")
         print(fetch_products_["image"])
         print("\" alt=\"\">\n         <a href=\"category.php?category=")
         print(fetch_products_["category"])
         print("\" class=\"cat\">")
         print(fetch_products_["category"])
         print("</a>\n         <div class=\"name\">")
         print(fetch_products_["name"])
         print("</div>\n            <div class=\"flex\">\n               <div class=\"price\"><span>â‚¹</span>")
         print(fetch_products_["price"])
         print("""</div>
         <input type=\"number\" name=\"qty\" class=\"qty\" min=\"1\" max=\"99\" value=\"1\" maxlength=\"2\">
         </div>
         </form>
         """)
      # end while
   else:
      print("<p class=\"empty\">No products added yet!</p>")
   # end if
```

```
# end if
print("""   </div>
</section>
<!-- footer section starts  -->
""")
execfile("components/footer.php")
print("""<!-- footer section ends -->
<!-- custom js file link  -->
<script src=\"js/script.js\"></script>
</body>
</html>""")
```

**#home.py**

```
#!/usr/bin/env python3
execfile("components/connect.php")
php_session_start()
if (php_isset(lambda : PHP_SESSION["user_id"])):
    user_id_ = PHP_SESSION["user_id"]
else:
    user_id_ = ""
# end if
execfile("components/add_cart.php")
if (php_isset(lambda : PHP_REQUEST["message"])) and PHP_REQUEST["message"] ==
"OrderPlacedSuccessfully":
    message_[-1] = "Order placed successfully!"
else:
    orderPlacedMessage_ = ""
# end if
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>Home</title>
<link rel=\"shortcut icon\" href=\"images/icon.png\"/>
<link rel=\"stylesheet\" href=\"https://unpkg.com/swiper@8/swiper-bundle.min.css\" />
<link rel=\"stylesheet\" href=\"https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"css/style.css\">
</head>
<body>
""")
execfile("components/user_header.php")
print("""<section class=\"hero\">
<div class=\"swiper hero-slider\">
<div class=\"swiper-wrapper\">
<div class=\"swiper-slide slide\">
```

```
<div class=\"content\">
<span>Order Online</span>
<h3>Fresh Veggies & Fruits</h3>
<a href=\"category.php?category=Fresh Vegetables\" class=\"btn\">Order Here</a>
</div>
<div class=\"image\">
<img src=\"swiggy/main1.png\" alt=\"\">
</div>
</div>
<div class=\"swiper-slide slide\">
<div class=\"content\">
<span>Order Online</span>
<h3>Dairy, Bread & Eggs</h3>
<a href=\"category.php?category=Dairy, Bread & Eggs\" class=\"btn\">Order Here</a>
</div>
<div class=\"image\">
<img src=\"swiggy/main2.png\" alt=\"\">
</div>
</div>
<div class=\"swiper-slide slide\">
<div class=\"content\">
<span>Order Online</span>
<h3>Cold Drinks & Juices</h3>
<a href=\"category.php?category=Cold Drinks & Juices\" class=\"btn\">Order Here</a>
</div>
<div class=\"image\">
<img src=\"swiggy/main3.png\" alt=\"\">
</div>
</div>
</div>
<div class=\"swiper-pagination\"></div>
</div>
</section>
<div id=\"category\" >
<section class=\"category\">
<h1 class=\"title\">Shop By Category</h1>
<div class=\"box-container\">
<a href=\"category.php?category=Fresh Vegetables\" class=\"box\">
<img src=\"swiggy/cat1.png\" alt=\"\">
<h3>Fresh Vegetables</h3>
</a>
<a href=\"category.php?category=Fresh Fruits\" class=\"box\">
<img src=\"swiggy/cat2.png\" alt=\"\">
<h3>Fresh Fruits</h3>
</a>
<a href=\"category.php?category=Dairy, Bread & Eggs\" class=\"box\">
<img src=\"swiggy/cat3.png\" alt=\"\">
<h3>Dairy, Bread & Eggs</h3>
</a>
<a href=\"category.php?category=Munchies\" class=\"box\">
```

```
<img src=\"swiggy/cat4.png\" alt=\"\">
<h3>Munchies</h3>
</a>
<a href=\"category.php?category=Cold Drinks & Juices\" class=\"box\">
<img src=\"swiggy/cat5.png\" alt=\"\">
<h3>Cold Drinks & Juices</h3>
</a>
<a href=\"category.php?category=Sweet Tooth\" class=\"box\">
<img src=\"swiggy/cat6.png\" alt=\"\">
<h3>Sweet Tooth</h3>
</a>
<a href=\"category.php?category=Biscuit & Cakes\" class=\"box\">
<img src=\"swiggy/cat7.png\" alt=\"\">
<h3>Biscuit & Cakes</h3>
</a>
<a href=\"category.php?category=Cereals & Breakfast\" class=\"box\">
<img src=\"swiggy/cat8.png\" alt=\"\">
<h3>Cereals & Breakfast</h3>
</a>
<a href=\"category.php?category=Sauces & Spreads\" class=\"box\">
<img src=\"swiggy/cat9.png\" alt=\"\">
<h3>Sauces & Spreads</h3>
</a>
<a href=\"category.php?category=Tea, Coffee & More\" class=\"box\">
<img src=\"swiggy/cat10.png\" alt=\"\">
<h3>Tea, Coffee & More</h3>
</a>
<a href=\"category.php?category=Meat & Seafood\" class=\"box\">
<img src=\"swiggy/cat11.png\" alt=\"\">
<h3>Meat & Seafood</h3>
</a>
<a href=\"category.php?category=Instant & Frozen Food\" class=\"box\">
<img src=\"swiggy/cat12.png\" alt=\"\">
<h3>Instant & Frozen Food</h3>
</a>
</div>
</section>
</div>
""")
execfile("components/footer.php")
print("""<script src=\"https://unpkg.com/swiper@8/swiper-bundle.min.js\"></script>
<script src=\"js/script.js\"></script>
<script>
var swiper = new Swiper(\".hero-slider\", {
loop:true,
grabCursor: true,
effect: \"flip\",
pagination: {
el: \".swiper-pagination\",
clickable:true,
```

```
},
});
</script>
</body>
</html>""")
```

**#login.py**

```
#!/usr/bin/env python3
execfile("components/connect.php")
php_session_start()
if (php_isset(lambda : PHP_SESSION["user_id"])):
    user_id_ = PHP_SESSION["user_id"]
else:
    user_id_ = ""
# end if
if (php_isset(lambda : PHP_POST["submit"])):
    email_ = PHP_POST["email"]
    email_ = filter_var(email_, FILTER_SANITIZE_STRING)
    pass_ = sha1(PHP_POST["pass"])
    pass_ = filter_var(pass_, FILTER_SANITIZE_STRING)
    select_user_ = conn_.prepare("SELECT * FROM `users` WHERE email = ? AND password = ?")
    select_user_.execute(Array(email_, pass_))
    row_ = select_user_.fetch(PDO.FETCH_ASSOC)
    if select_user_.rowcount() > 0:
        PHP_SESSION["user_id"] = row_["id"]
        php_header("location:home.php")
    else:
        message_[-1] = "incorrect username or password!"
    # end if
# end if
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>Login</title>
<link rel=\"shortcut icon\" href=\"images/icon.png\"/>
<link rel=\"stylesheet\" href=\"https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"css/style.css\">
</head>
<body>
""")
execfile("components/user_header.php")
print("""
<section class=\"form-container\">
```

```
<form action=\"\" method=\"post\">
<h3>login now</h3>
<input type=\"email\" name=\"email\" required placeholder=\"Enter Your Email ID\" class=\"box\" maxlength=\"50\" oninput=\"this.value = this.value.replace(/\\s/g, '')\">
<input type=\"password\" name=\"pass\" required placeholder=\"Enter Your Password\" class=\"box\" maxlength=\"50\" oninput=\"this.value = this.value.replace(/\\s/g, '')\">
<input type=\"submit\" value=\"login now\" name=\"submit\" class=\"btn\">
<p>Don't have an account? <a href=\"register.php\">Register now!</a></p>
</form>
</section>
""")
execfile("components/footer.php")
print("""<script src=\"js/script.js\"></script>
</body>
</html>
""")
```

**#orders.py**

```
#!/usr/bin/env python3
execfile("components/connect.php")
php_session_start()
if (php_isset(lambda : PHP_SESSION["user_id"])):
    user_id_ = PHP_SESSION["user_id"]
else:
    user_id_ = ""
    php_header("location:home.php")
# end if
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>Orders</title>
<link rel=\"shortcut icon\" href=\"images/icon.png\"/>
<link rel=\"stylesheet\" href=\"https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"css/style.css\">
</head>
<body>

""")
execfile("components/user_header.php")
print("""
<div class=\"heading\">
<h3>Orders</h3>
</div>
<section class=\"orders\">
```

```
<h1 class=\"title\">your orders</h1>
<div class=\"box-container\">
""")
if user_id_ == "":
   print("<p class=\"empty\">please login to see your orders</p>")
else:
   select_orders_ = conn_.prepare("SELECT * FROM `orders` WHERE user_id = ?")
   select_orders_.execute(Array(user_id_))
   if select_orders_.rowcount() > 0:
      while True:
         fetch_orders_ = select_orders_.fetch(PDO.FETCH_ASSOC)
         if not (fetch_orders_):
            break
         # end if
         print("   <div class=\"box\">\n      <p>Placed on : <span>")
         print(fetch_orders_["placed_on"])
         print("</span></p>\n      <p>Name : <span>")
         print(fetch_orders_["name"])
         print("</span></p>\n      <p>Email : <span>")
         print(fetch_orders_["email"])
         print("</span></p>\n      <p>Number : <span>")
         print(fetch_orders_["number"])
         print("</span></p>\n      <p>Address : <span>")
         print(fetch_orders_["address"])
         print("</span></p>\n      <p>Payment Method : <span>")
         print(fetch_orders_["method"])
         print("</span></p>\n      <p>Your Orders : <span>")
         print(fetch_orders_["total_products"])
         print("</span></p>\n      <p>Total Price : <span>â,¹")
         print(fetch_orders_["total_price"])
         print("/-</span></p>\n      <p>Payment Status : <span style=\"color:")
         if fetch_orders_["payment_status"] == "pending":
            print("red")
         else:
            print("green")
         # end if
         print("\">")
         print(fetch_orders_["payment_status"])
         print("</span> </p>\n   </div>\n   ")
      # end while
   else:
      print("<p class=\"empty\">No orders placed yet!</p>")
   # end if
# end if
print("   </div>\n</section>\n")
execfile("components/footer.php")
print("<script src=\"js/script.js\"></script>\n</body>\n</html>")
```

**#admin_accounts.py**

```
#!/usr/bin/env python3
execfile("../components/connect.php")
php_session_start()
admin_id_ = PHP_SESSION["admin_id"]
if (not (php_isset(lambda : admin_id_))):
    php_header("location:admin_login.php")
# end if
if (php_isset(lambda : PHP_REQUEST["delete"])):
    delete_id_ = PHP_REQUEST["delete"]
    delete_admin_ = conn_.prepare("DELETE FROM `admin` WHERE id = ?")
    delete_admin_.execute(Array(delete_id_))
    php_header("location:admin_accounts.php")
# end if
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>Admins Accounts</title>
<link rel=\"shortcut icon\" href=\"..\\images\\favicon.png\"/>   <!-- font awesome cdn link  -
->
<link              rel=\"stylesheet\"              href=\"https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"../css/admin_style.css\">
</head>
<body>
""")
execfile("../components/admin_header.php")
print("""<section class=\"accounts\">
<h1 class=\"heading\">admins account</h1>
<div class=\"box-container\">
<div class=\"box\">
<p>register new admin</p>
<a href=\"register_admin.php\" class=\"option-btn\">register</a>
</div>
""")
select_account_ = conn_.prepare("SELECT * FROM `admin`")
select_account_.execute()
if select_account_.rowcount() > 0:
    while True:
        fetch_accounts_ = select_account_.fetch(PDO.FETCH_ASSOC)
        if not (fetch_accounts_):
            break
        # end if
        print("   <div class=\"box\">\n      <p> admin id : <span>")
        print(fetch_accounts_["id"])
```

```
        print("</span> </p>\n      <p> username : <span>")
        print(fetch_accounts_["name"])
        print("</span>   </p>\n                <div   class=\"flex-btn\">\n                <a
href=\"admin_accounts.php?delete=")
        print(fetch_accounts_["id"])
        print("\"        class=\"delete-btn\"        onclick=\"return        confirm('Delete        this
account?');\">delete</a>\n         ")
        if fetch_accounts_["id"] == admin_id_:
           print("<a href=\"update_profile.php\" class=\"option-btn\">update</a>")
        # end if
        print("      </div>\n   </div>\n   ")
    # end while
else:
    print("<p class=\"empty\">No accounts available</p>")
# end if
print("""   </div>
</section>
<script src=\"../js/admin_script.js\"></script>
</body>
</html>""")
execfile("../components/connect.php")
php_session_start()
admin_id_ = PHP_SESSION["admin_id"]
if (not (php_isset(lambda : admin_id_))):
    php_header("location:admin_login.php")
# end if
if (php_isset(lambda : PHP_REQUEST["delete"])):
    delete_id_ = PHP_REQUEST["delete"]
    delete_admin_ = conn_.prepare("DELETE FROM `admin` WHERE id = ?")
    delete_admin_.execute(Array(delete_id_))
    php_header("location:admin_accounts.php")
# end if
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>Admins Accounts</title>
<link rel=\"shortcut icon\" href=\"..\\images\\favicon.png\"/>   <!-- font awesome cdn link  -
->
<link              rel=\"stylesheet\"              href=\"https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"../css/admin_style.css\">
</head>
<body>
""")
execfile("../components/admin_header.php")
print("""<section class=\"accounts\">
```

```
<h1 class=\"heading\">admins account</h1>
<div class=\"box-container\">
<div class=\"box\">
<p>register new admin</p>
<a href=\"register_admin.php\" class=\"option-btn\">register</a>
</div>
""")
select_account_ = conn_.prepare("SELECT * FROM `admin`")
select_account_.execute()
if select_account_.rowcount() > 0:
   while True:
      fetch_accounts_ = select_account_.fetch(PDO.FETCH_ASSOC)
      if not (fetch_accounts_):
         break
      # end if
      print("   <div class=\"box\">\n      <p> admin id : <span>")
      print(fetch_accounts_["id"])
      print("</span> </p>\n      <p> username : <span>")
      print(fetch_accounts_["name"])
      print("</span>   </p>\n                  <div   class=\"flex-btn\">\n                  <a
href=\"admin_accounts.php?delete=")
      print(fetch_accounts_["id"])
      print("\"        class=\"delete-btn\"        onclick=\"return        confirm('Delete        this
account?');\">delete</a>\n         ")
      if fetch_accounts_["id"] == admin_id_:
         print("<a href=\"update_profile.php\" class=\"option-btn\">update</a>")
      # end if
      print("      </div>\n   </div>\n   ")
   # end while
else:
   print("<p class=\"empty\">No accounts available</p>")
# end if
print("""   </div>
</section>
<script src=\"../js/admin_script.js\"></script>
</body>
</html>""")
```

**#admin_login.py**

```
#!/usr/bin/env python3
execfile("../components/connect.php")
php_session_start()
if (php_isset(lambda : PHP_POST["submit"])):
   name_ = PHP_POST["name"]
   name_ = filter_var(name_, FILTER_SANITIZE_STRING)
   pass_ = sha1(PHP_POST["pass"])
   pass_ = filter_var(pass_, FILTER_SANITIZE_STRING)
   select_admin_ = conn_.prepare("SELECT * FROM `admin` WHERE name = ? AND
password = ?")
```

```
    select_admin_.execute(Array(name_, pass_))
    if select_admin_.rowcount() > 0:
        fetch_admin_id_ = select_admin_.fetch(PDO.FETCH_ASSOC)
        PHP_SESSION["admin_id"] = fetch_admin_id_["id"]
        php_header("location:dashboard.php")
    else:
        message_[-1] = "Incorrect Username or Password!"
    # end if
# end if
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>Login</title>
<link rel=\"shortcut icon\" href=\"..\\images\\favicon.png\"/>
<link rel=\"stylesheet\" href=\"https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"../css/admin_style.css\">
</head>
<body>
""")
if (php_isset(lambda : message_)):
    for message_ in message_:
        print("\n      <div class=\"message\">\n         <span>" + message_ + """</span>
        <i class=\"fas fa-times\" onclick=\"this.parentElement.remove();\"></i>
        </div>
        """)
    # end for
# end if
print("""
<section class=\"form-container\">
<form action=\"\" method=\"POST\">
<h3>login now</h3>
<input type=\"text\" name=\"name\" maxlength=\"20\" required placeholder=\"Enter your username\" class=\"box\" oninput=\"this.value = this.value.replace(/\\s/g, '')\">
<input type=\"password\" name=\"pass\" maxlength=\"20\" required placeholder=\"Enter your password\" class=\"box\" oninput=\"this.value = this.value.replace(/\\s/g, '')\">
<input type=\"submit\" value=\"login now\" name=\"submit\" class=\"btn\">
</form>
</section>
</body>
</html>""")
```

**#dashboard.py**

```
#!/usr/bin/env python3
execfile("../components/connect.php")
```

```
php_session_start()
admin_id_ = PHP_SESSION["admin_id"]
if (not (php_isset(lambda : admin_id_))):
    php_header("location:admin_login.php")
# end if
print("""
<!DOCTYPE html>
<html lang=\"en\">
<head>
<meta charset=\"UTF-8\">
<meta http-equiv=\"X-UA-Compatible\" content=\"IE=edge\">
<meta name=\"viewport\" content=\"width=device-width, initial-scale=1.0\">
<title>Dashboard</title>
<link rel=\"shortcut icon\" href=\"..\\images\\favicon.png\"/>
<link rel=\"stylesheet\" href=\"https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.1.1/css/all.min.css\">
<link rel=\"stylesheet\" href=\"../css/admin_style.css\">
</head>
<body>
""")
execfile("../components/admin_header.php")
print("""
<section class=\"dashboard\">
<h1 class=\"heading\">Dashboard</h1>
<div class=\"box-container\">
<div class=\"box\">
<h3>Welcome!</h3>
<p>""")
print(fetch_profile_["name"])
print("""</p>
<a href=\"update_profile.php\" class=\"btn\">update profile</a>
</div>
<div class=\"box\">
""")
total_pendings_ = 0
select_pendings_ = conn_.prepare("SELECT * FROM `orders` WHERE payment_status = ?")
select_pendings_.execute(Array("pending"))
while True:
    fetch_pendings_ = select_pendings_.fetch(PDO.FETCH_ASSOC)
    if not (fetch_pendings_):
        break
    # end if
    total_pendings_ += fetch_pendings_["total_price"]
# end while
print("      <h3>Pending Amount</h3>\n      <p><span>â,¹</span>")
print(total_pendings_)
print("""<span>/-</span></p>
<a href=\"placed_orders.php\" class=\"btn\">see orders</a>
</div>
```

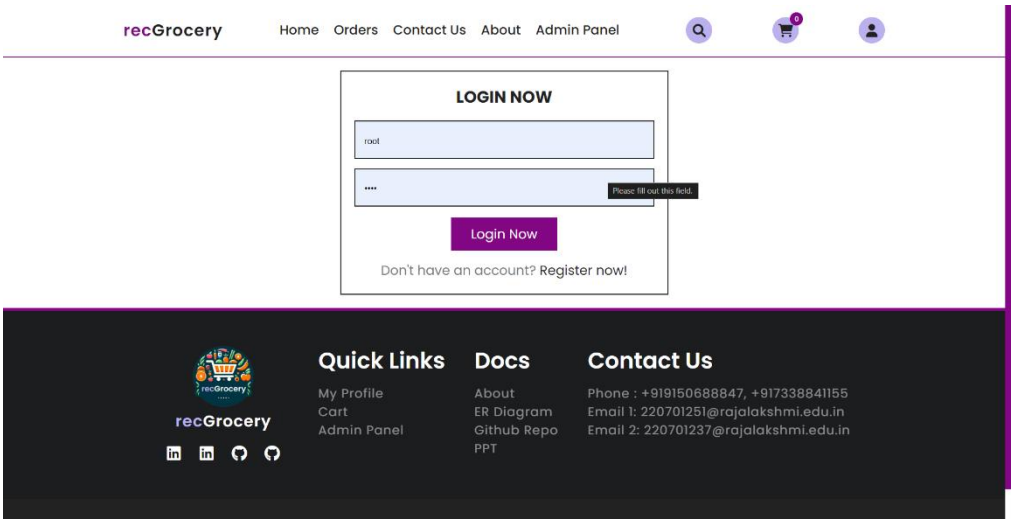
```
<div class=\"box\">
""")
total_completes_ = 0
select_completes_ = conn_.prepare("SELECT * FROM `orders` WHERE payment_status =
?")
select_completes_.execute(Array("completed"))
while True:
    fetch_completes_ = select_completes_.fetch(PDO.FETCH_ASSOC)
    if not (fetch_completes_):
        break
    # end if
    total_completes_ += fetch_completes_["total_price"]
# end while
print("      <h3>Total Revenue</h3>\n      <p><span>â‚¹</span>")
print(total_completes_)
print("""<span>/-</span></p>
<a href=\"placed_orders.php\" class=\"btn\">see orders</a>
</div>
<div class=\"box\">
""")
select_orders_ = conn_.prepare("SELECT * FROM `orders`")
select_orders_.execute()
numbers_of_orders_ = select_orders_.rowcount()
print("      <h3>Total Orders</h3>\n      <p>")
print(numbers_of_orders_)
print("""</p>
<a href=\"placed_orders.php\" class=\"btn\">see orders</a>
</div>
<div class=\"box\">
""")
select_products_ = conn_.prepare("SELECT * FROM `products`")
select_products_.execute()
numbers_of_products_ = select_products_.rowcount()
print("      <h3>Products Added</h3>\n      <p>")
print(numbers_of_products_)
print("""</p>
<a href=\"products.php\" class=\"btn\">see products</a>
</div>
<div class=\"box\">
""")
select_users_ = conn_.prepare("SELECT * FROM `users`")
select_users_.execute()
numbers_of_users_ = select_users_.rowcount()
print("      <h3>Registered Users</h3>\n      <p>")
print(numbers_of_users_)
print("""</p>
<a href=\"users_accounts.php\" class=\"btn\">see users</a>
</div>
<div class=\"box\">
""")
```

```
select_admins_ = conn_.prepare("SELECT * FROM `admin`")
select_admins_.execute()
numbers_of_admins_ = select_admins_.rowcount()
print("      <h3>Admins</h3>\n      <p>")
print(numbers_of_admins_)
print("""</p>
<a href=\"admin_accounts.php\" class=\"btn\">see admins</a>
</div>
<div class=\"box\">
""")
select_messages_ = conn_.prepare("SELECT * FROM `messages`")
select_messages_.execute()
numbers_of_messages_ = select_messages_.rowcount()
print("      <h3>New Messages</h3>\n      <p>")
print(numbers_of_messages_)
print("""</p>
<a href=\"messages.php\" class=\"btn\">see messages</a>
</div>
</div>
</section>
<script src=\"../js/admin_script.js\"></script>
</body>
</html>""")
```

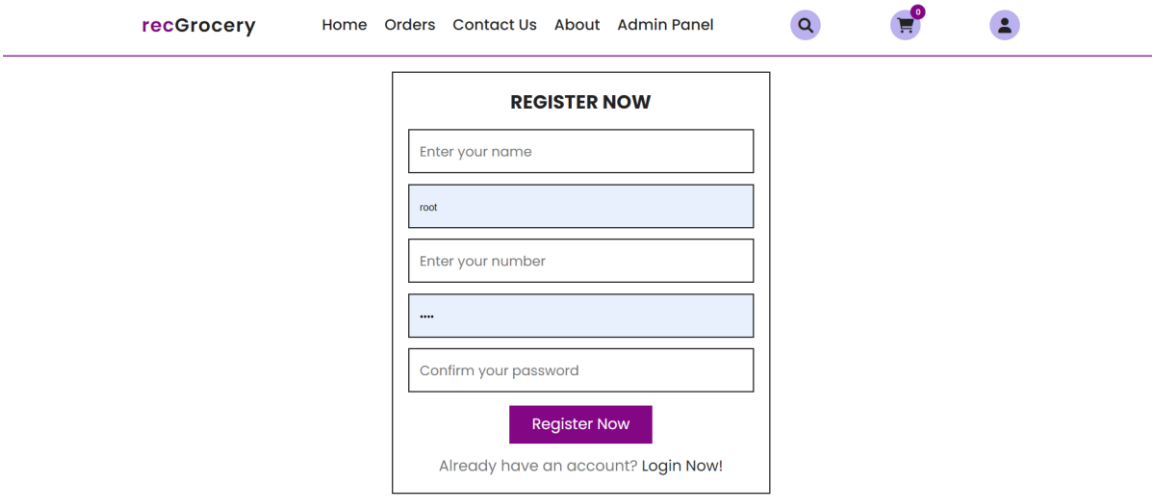
# Chapter 5

# 5. RESULT AND DISCUSSION

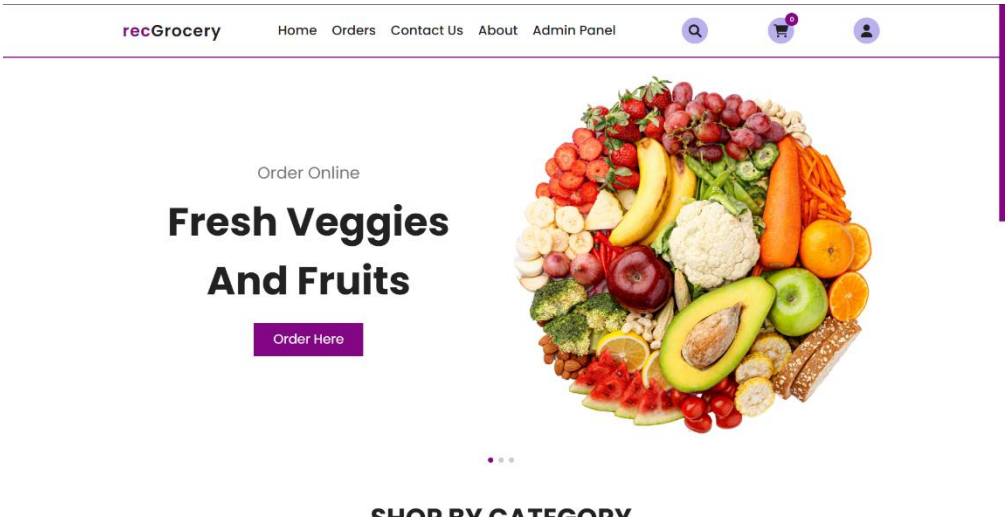
## 5.1 SHOPPER VIEW



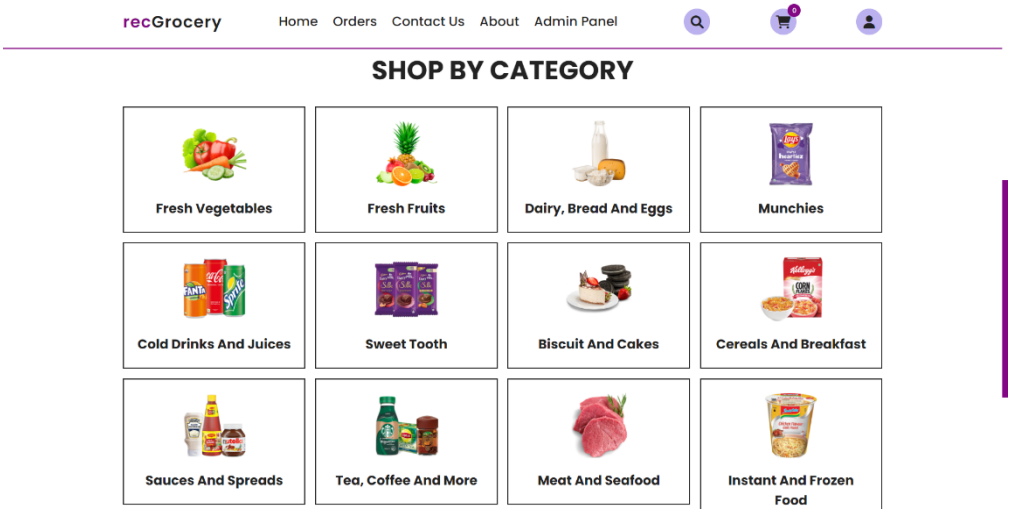

Login Page



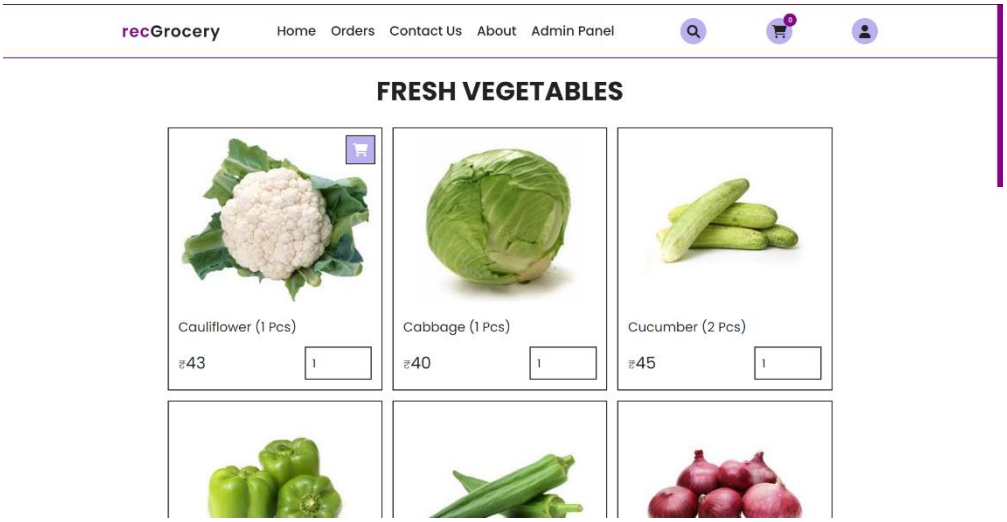

New Registration



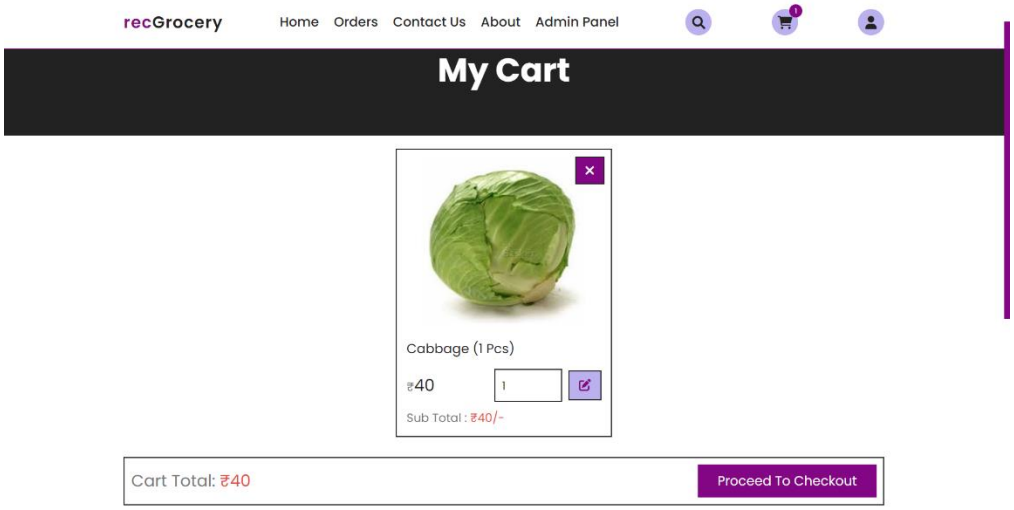

Dashboard



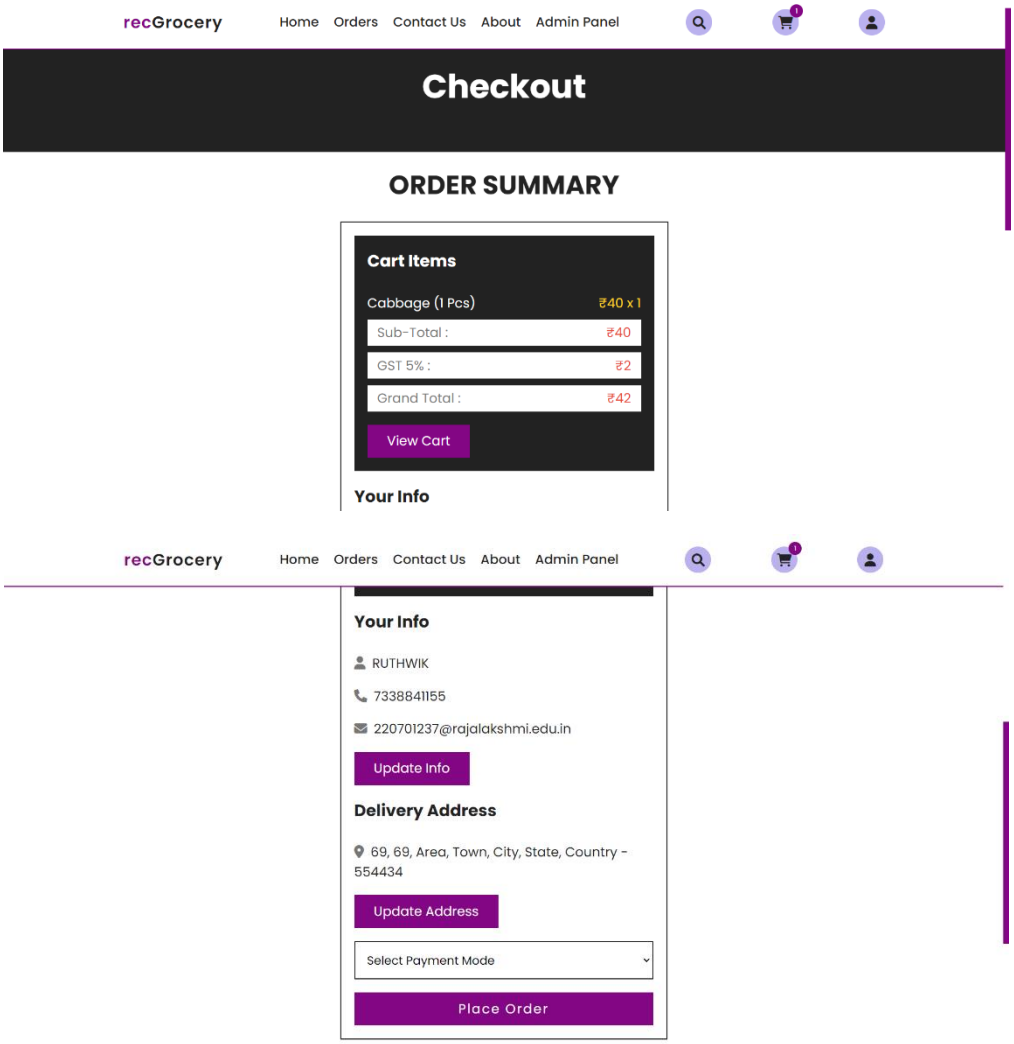

Categories




Fresh Vegetable Category

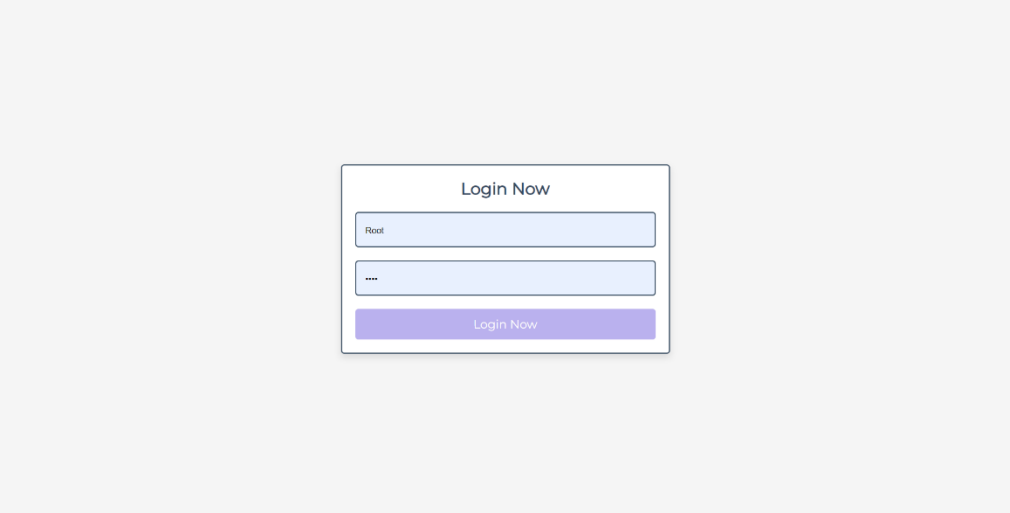



My Cart

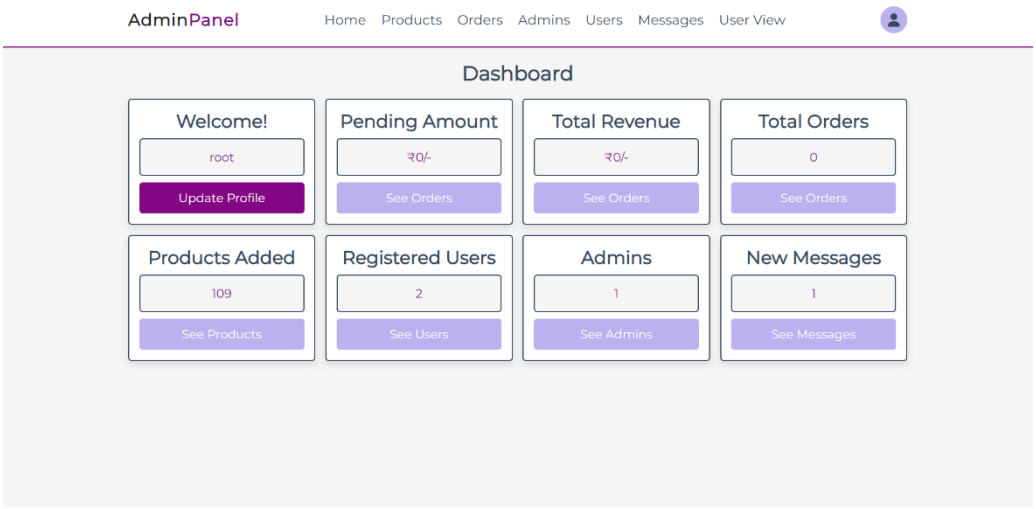



Checkout Page

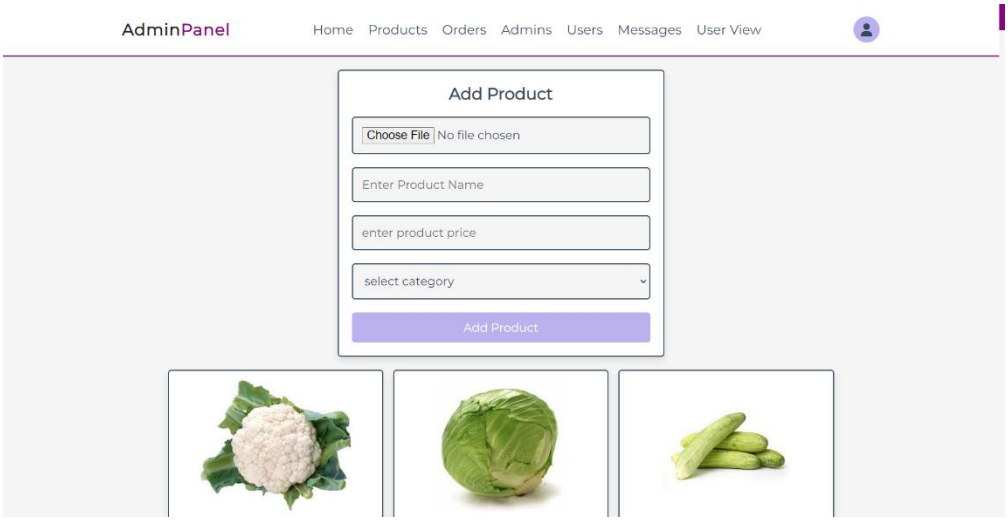
## 5.1 ADMIN VIEW



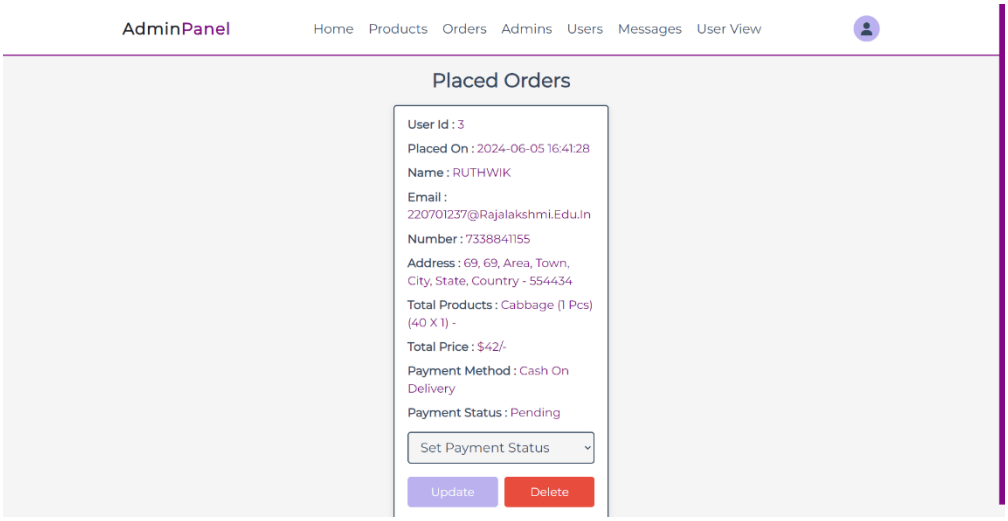

Login Page [Admin]



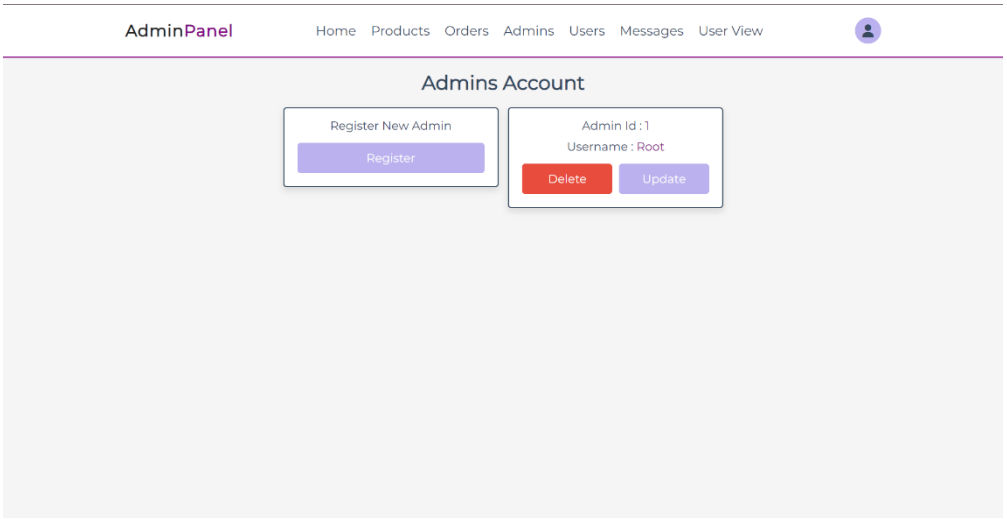

Admin Dashboard



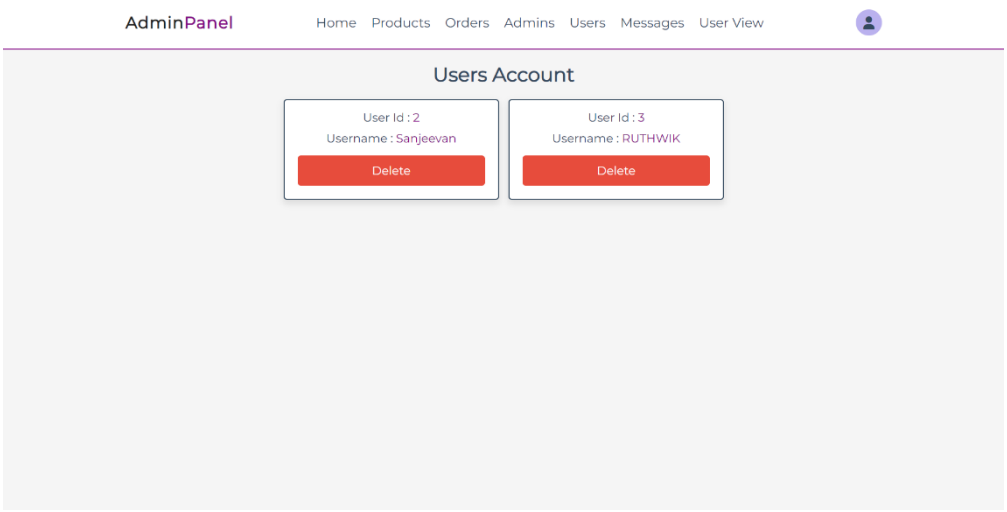

Products Section




Orders Section




Admin Management




User Management

The recGrocery Management System successfully meets its objectives by providing a user-friendly interface for customers and a robust backend for administrators. Users can easily browse products, manage their cart, and place orders, while administrators can efficiently manage inventory, orders, and user data. The system's statistical insights help in making informed business decisions. Future enhancements could include integrating advanced search algorithms, personalized recommendations, and mobile app development.

# Chapter 6

# 6. CONCLUSION

## 6.1 CONCLUSION

In summary, the Grocery Management System heralds a new era in the realm of retail management, particularly in the grocery sector. By embracing digitalization, this system addresses longstanding challenges and revolutionizes traditional grocery management practices.

Through its comprehensive features, the system ensures seamless inventory tracking, efficient order processing, and enhanced customer engagement. By digitizing and centralizing records, it eliminates manual errors and enhances data accuracy, laying the foundation for robust decision-making.

The system's intuitive interface and advanced search functionality empower users to navigate through vast volumes of data effortlessly, ensuring swift access to critical information. Furthermore, its streamlined editing process enables real-time updates, ensuring that inventory and customer records remain current and precise.

With each product and transaction assigned a unique identification number, the system guarantees accurate tracking and management, enhancing operational efficiency and customer satisfaction. By providing reliable insights into inventory levels and customer preferences, it enables retailers to optimize their offerings and tailor their services to meet evolving demands.

Ultimately, the Grocery Management System aims to revolutionize grocery management operations, driving efficiency, reducing errors, and enhancing the overall shopping experience for both retailers and customers. By embracing this innovative solution, retailers can unlock new levels of productivity and competitiveness, ensuring their place at the forefront of the ever-evolving grocery industry.