

# **A PROJECT ON**

## **Green Mart**

SUBMITTED IN

PARTIAL FULFILLMENT OF THE REQUIREMENT

FOR THE COURSE OF DIPLOMA IN ADVANCED COMPUTING FROM DMC



**SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY**

Hinjewadi

**SUBMITTED BY:**

Prajakta Kadam

Himanshi Verma

Nayan Mandlik

Niranjan Patil

**UNDER THE GUIDANCE OF:**

Manjusha Nikam

Faculty Member

Sunbeam Institute of Information Technology, Pune

## **ACKNOWLEDGEMENT**

A project usually falls short of its expectation unless aided and guided by the right persons at the right time. We avail this opportunity to express our deep sense of gratitude towards Mr. Nitin Kudale (Center Coordinator, SIIT, Pune) and Mr. Yogesh Kolhe (Course Coordinator, SIIT, Pune)

We are deeply indebted and grateful to them for their guidance, encouragement and deep concern for our project. Without their critical evaluation and suggestions at every stage of the project, this project could never have reached its present form.

Last but not the least we thank the entire faculty and the staff members of Sunbeam Institute of Information Technology, Pune for their support.

Niranjan Patil

DMCSIIT,PUNE

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**SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY**  
Hinjawadi

**SUBMITTED BY:**

Niranjan Gajanan Patil

**UNDER THE GUIDENCE OF:**

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Faculty Member

Sunbeam Institute of Information Technology, PUNE.



## **CERTIFICATE**

This is to certify that the project work under the title 'GREEN MART' is done by NIRANJAN GAJANAN PATIL in partial fulfillment of the requirement for award of Diploma in Advanced Computing Course.

**Manjusha Nikam**  
**Project Guide**

**Mr. Yogesh Kolhe**  
**Course Co-Coordinator**

Date: 11/02/2025

## 1. INTRODUCTION TO PROJECT

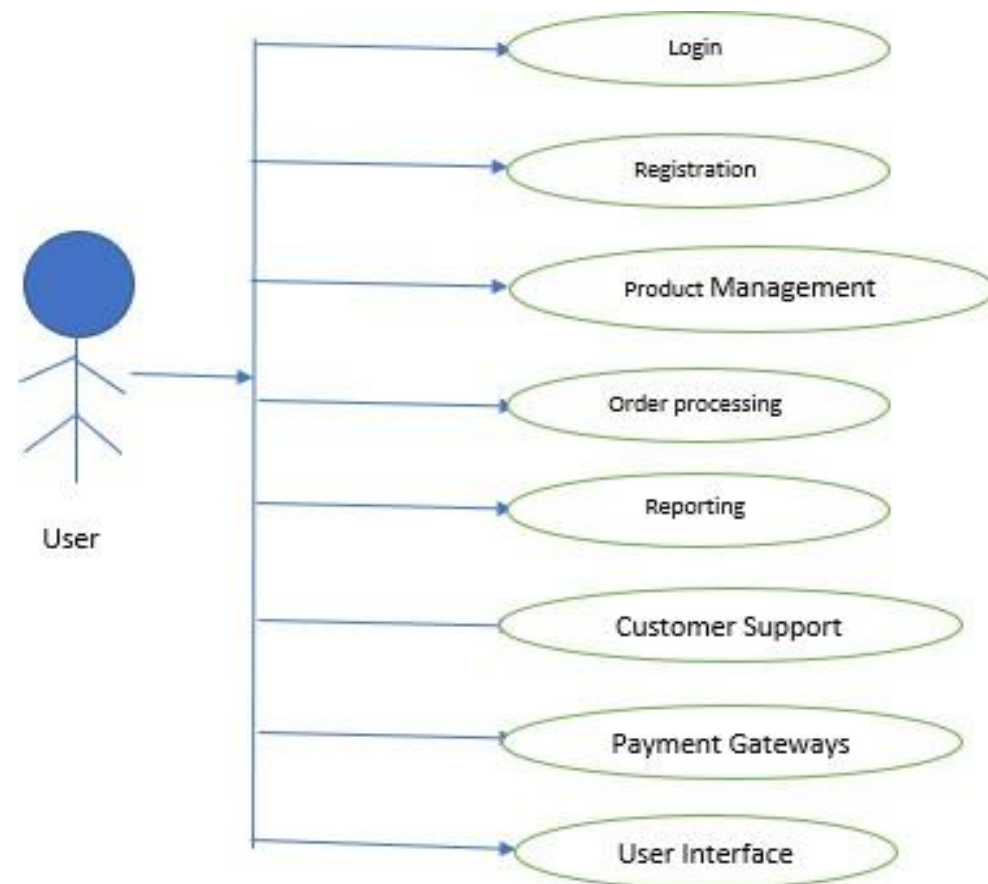
Green Mart is an innovative online platform dedicated to delivering fresh, organic food and vegetables directly to consumers' doorsteps. The service focuses on offering a wide variety of locally sourced, pesticide-free produce, ensuring that customers receive only the healthiest, eco-friendly options. The Green Mart app allows users to easily browse through different categories of food, including fruits, vegetables, dairy, grains, and more. With a focus on sustainability, the platform partners with local farmers and suppliers who prioritize environmentally responsible farming practices.

Customers can place orders through a user-friendly website or mobile app, which provides real-time updates on product availability and delivery times. The Green Mart delivery service ensures that all items are delivered quickly and in eco-friendly packaging, minimizing waste. The platform also offers subscription services, allowing customers receive regular deliveries of fresh produce at their convenience.

Green Mart's mission is to make healthy, sustainable food choices easily accessible while reducing the carbon footprint associated with traditional grocery shopping. By cutting down on food miles and promoting local agriculture, Green Mart helps customers support sustainable farming practices. With an emphasis on fresh quality, fast delivery, and environmental responsibility, Green Mart aims to revolutionize the way people access food while contributing to a greener future.

## 2. REQUIREMENTS

### 2.1 FUNCTIONAL REQUIREMENTS

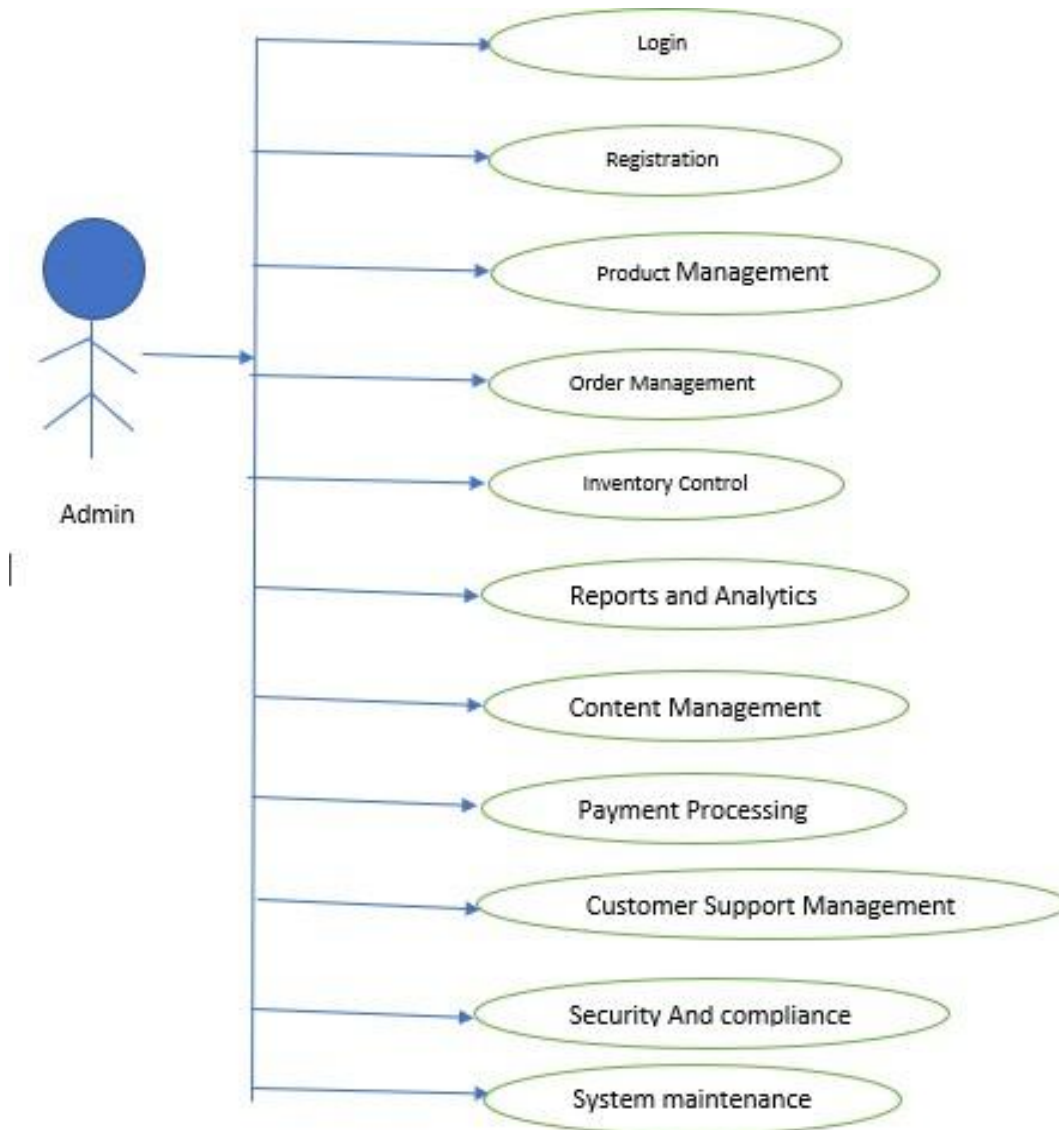


1. **Login and Registration:** Admins should be able to register new users by providing necessary details as name, email, password, and role. Users should be able to log in using their email and password.
2. **Product Management:** The system should enable adding, updating, and removing products from the inventory.
3. **Order Processing:** The system should handle customer orders, including order placement, payment processing, and order tracking.
4. **Reporting:** The system should generate sales reports, inventory reports, and other relevant business reports.

5. **Customer Support:** The system should include a customer support module for handling inquiries, complaints, and returns.

6. **Payment Gateways:** The system should integrate with various payment gateways for processing transactions.

7. **User Interface:** The system should have an intuitive and user-friendly interface for both customers and administrators.



1. **Login and Registration:** Admins should be able to register new users by providing necessary details as name, email, password, and role. Users should be able to log in using their email and password.
2. **Product Management:** Admins should have the ability to add, update, delete, and categorize products.
3. **Order Management:** Admins should be able to view, process, and manage customer orders, including handling refunds and returns.
4. **Inventory Control:** Administrators should have access to tools for monitoring stock levels, generating restock alerts, and managing supplier information.
5. **Reports and Analytics:** The system should provide detailed reports and analytics on sales, inventory, customer behaviour, and other key metrics.
6. **Content Management:** Admins should be able to manage the content on the website, such as updating product descriptions, images, and promotional banners.
7. **Payment Processing:** Administrators should have the ability to manage payment gateways, process refunds, and handle payment discrepancies.
8. **Customer Support Management:** Admins should be able to manage customer support inquiries, track issue resolution, and view customer feedback.
9. **Security and Compliance:** The system should allow admins to manage security settings, monitor system access, and ensure compliance with relevant regulations.
10. **System Maintenance:** Admins should have access to tools for system maintenance, including backups, updates, and performance monitoring.



## 2.2 NON-FUNCTIONAL REQUIREMENT

### 2.2.1 Other Requirements:

#### ▪ Hardware Interfaces

The system requires the following hardware:

- RAM: 1 GB (further increase that as per requirement.)
- Hard Disk: 80 GB (further increase that as per requirement.)
- Display: 1024 \* 768, True Type Color-32 Bit
- Mouse: Any Normal Mouse.
- Keyboard: Any window Supported Keyboard.

#### ▪ Software Interfaces

- Database Server: MySQL Server.
- Web Server: Nodejs
- Technologies: React.js, Express.js, React-Navtive, ,NodeJs

### 3. DESIGN

#### 3.1 Database Design

The following table structures depict the database design.

**Table1: OrderStatus**

Field	Type	Null	Key	Default	Extra
OrderStatusID	int	NO	PRI	Null	auto_increment
StatusDescription	varchar	Yes		Null	

**Table2: User**

Field	Type	Null	Key	Default	Extra
UserID	int	NO	PRI	NULL	auto_increment
Name	varchar	YES		NULL	
Email	varchar	YES		NULL	
Password	varchar	YES		NULL	
Address	text	YES		NULL	
Phone	varchar	YES		NULL	
Role	varchar	NO		NULL	

**Table3: Orderdetails:**

Field	Type	Null	Key	Default	Extra
OrderDetailID	int	NO	PRI	NULL	auto_increment
OrderID	int	YES	MUL	NULL	
ProductID	int	YES	MUL	NULL	

UnitPrice	decimal	YES		NULL	
Quantity	int	YES		NULL	

**Table4: Productcategory:**

Field	Type	Null	Key	Default	Extra
CategoryID	int	NO	PRI	NULL	auto_increment
CategoryName	varchar	YES		NULL	

**Table5:Product**

Field	Type	Null	Key	Default	Extra
productID	int	NO	PRI	NULL	auto_increment
Name	varchar	YES		NULL	
price	decimal	YES		NULL	
StockQuantity	int	yes		NULL	
ImageUrl	text	YES		NULL	
Category	int	YES	mul	NULL	

**Table5:Orders**

Field	Type	Null	Key	Default	Extra
orderID	int	NO	PRI	NULL	auto_increment
userid	int	YES	MUL	NULL	
orderdate	datetime	YES		NULL	
Total price	decimal	yes		NULL	
orderStatus id	int	YES	MUL	NULL	

## 4. CODING STANDARDS IMPLEMENTED

### Naming and Capitalization

Below summarize the naming recommendations for identifiers in Pascal casing is used mainly (i.e. capitalize first letter of each word) with camel casing (capitalize each word except for the first one) being used in certain circumstances.

Identifier	Case	Examples	Additional Notes
Class	Pascal	Person, BankVault, SMSMessage, Dept	Class names should be based on "objects" or "real things" and should generally be <b>nouns</b> . No ‘_’ signs allowed. Do not use type prefixes like ‘C’ for class.
Method	Camel	getDetails, updateStore	Methods should use <b>verbs</b> or verb phrases.
Parameter	Camel	personName, bankCode	Use descriptive parameter names. Parameter names should be descriptive enough that the name of the parameter and its type can be used to determine its meaning in most scenarios.
Interface	Pascal with "I" prefix	Disposable	Do not use the ‘_’ sign
Property	Pascal	ForeColor, BackColor	Use a noun or noun phrase to name properties.
Associated private member variable	_camelCase	_foreColor, _backColor	Use underscore camel casing for the private member variables

Exception Class	Pascal with "Exception" suffix	WebException,	
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### Comments

- Comment each type, each non-public type member, and each region declaration.
- Use end-line comments only on variable declaration lines. End-line comments are comments that follow code on a single line.
- Separate comments from comment delimiters (apostrophe) or // with one space.
- Begin the comment text with an uppercase letter.
- End the comment with a period.
- Explain the code; do not repeat it.

## 5. TEST REPORT

Another group called Linux did the testing and the report of the testing is given hereunder.

GENERAL TESTING					
SR-NO	TEST CASE	EXPECTED RESULT	ACTUAL RESULT	ERROR MESSAGE	TYPE OF ERROR
1	Registration Page	Redirected to the Login page after successful Registration	OK	Fill All Details	Minor Error
2	Login Page	Redirected to the home page after successful login	OK	Please Enter Email and Password	Minor Error
3	Login Page/Reset Button	All fields should be cleared when reset is clicked	OK	Please Enter Email and Password Again	Minor Error
4	Product Search	Relevant products should be displayed based on the search query	OK	Product Not Found	Minor Error
5	Product Filters	Products should be filtered correctly based on category, price, and rating	OK	Nothing	Minor/Major Error
6	Product Details Page	Correct product details should be displayed when a product is clicked	OK	Nothing	Major Error
7	Add to Cart	Product should be successfully added to the cart	OK	Product Added to Cart Successfully	Major Error
8	Remove from Cart	Product should be removed from the cart	OK	Product Removed Successfully	Minor Error
9	Checkout Process	User should be able to proceed to checkout and complete payment successfully	OK	Nothing	Minor Error
10	Order History	User should see their past orders correctly listed	OK	Nothing	Minor Error
11	Logout	User should be successfully logged out and redirected to the login page	OK	Logged Out	Minor Error

## 6. PROJECT MANAGEMENT RELATED STATISTICS

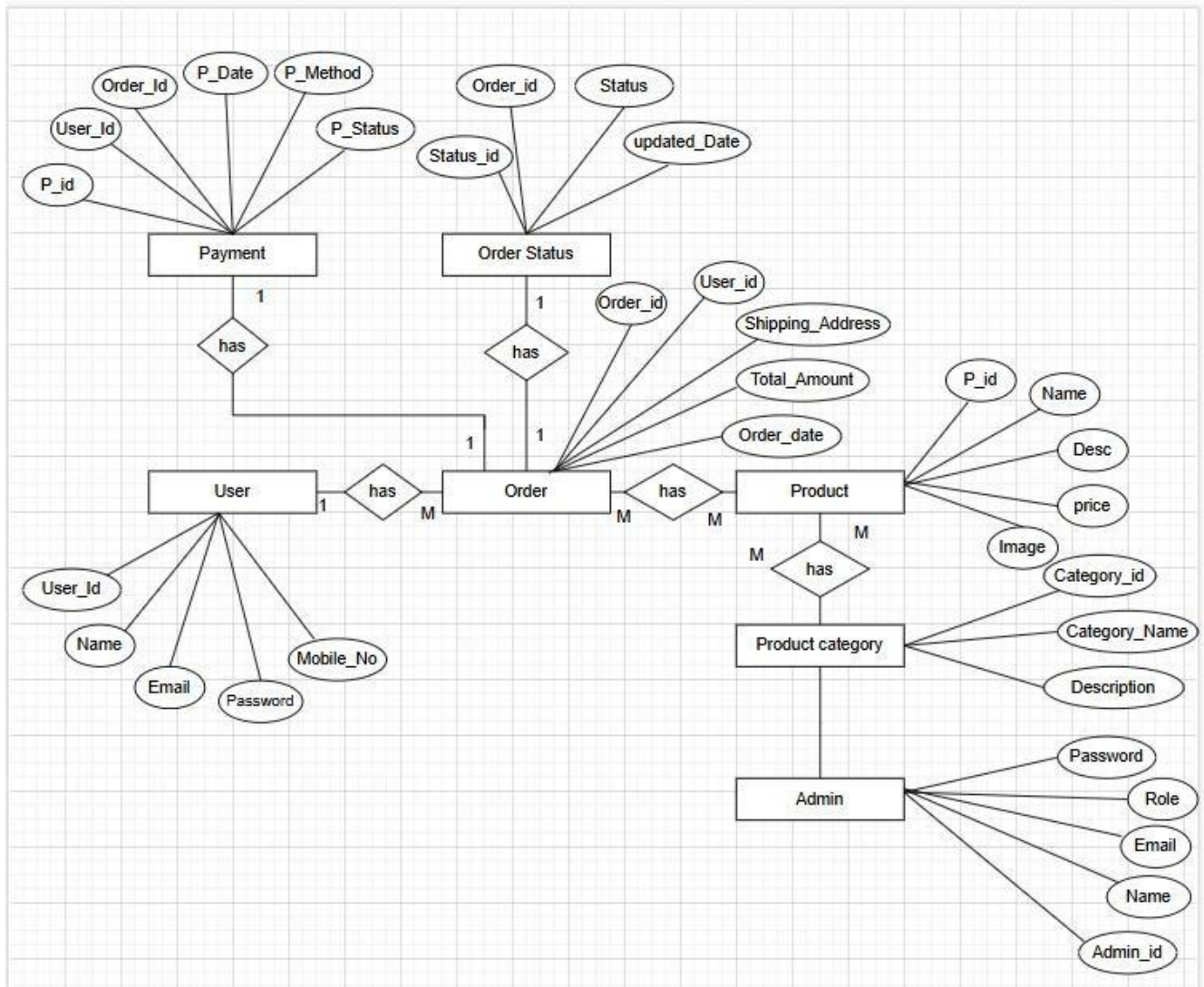
DATE	WORK PERFORMED	SLC Phase	Additional Notes
JAN 12,2025	Project Allotment and User Requirements Gathering	Feasibility Study	Our team met the client Mr. Nitinkudale (CEO, SIIT Pune) to know his requirements.
JAN 13,2025	Initial SRS Document Validation And Team Structure Decided	Requirement Analysis (Elicitation)	The initial SRS was presented to the client to understand his requirements better
JAN 14,2025	Designing the use-cases, Class Diagram, Collaboration Diagram, E-R Diagram and User Interfaces	Requirement Analysis & Design Phase	Database Design completed
JAN 15,2025	Business Logic Component Design Started	Design Phase	-----
JAN 25,2025	Coding Phase Started	Coding Phase	70% of Class Library implemented.
JAN 26,2025	Implementation of Web Application and Window Application Started	Coding Phase	Class Library Development going on.
JAN 27, 2025	Off	Off	Off
JAN 28, 2025	Implementation of Web Application and Window Application Continued	Coding Phase and Unit Testing	Class Library Modified as per the need.
JAN 29, 2025	Implementation of Web Application and Window Application Continued	Coding Phase and Unit Testing	--

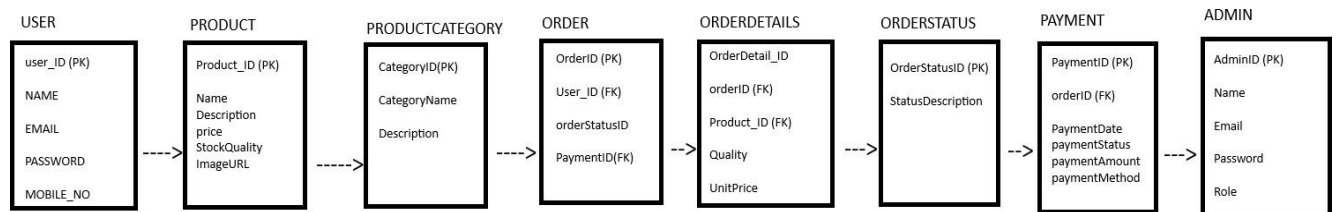
FEB 01, 2025	After Ensuring Proper Functioning the Required Validations were Implemented	Coding Phase and Unit Testing	Module Integration was done by the Project Manager
FEB 02, 2025	The Project was Tested by the respective Team Leaders and the Project Manager	Testing Phase (Module Testing)	--
FEB 03, 2025	The Project was Submitted to Other Project Leader of Other Project Group For Testing	Testing Phase (Acceptance Testing)	The Project of Other Team was Taken up by the Team for Testing
FEB 07, 2025	The Errors Found were Removed	Debugging	The Project was complete for submission
FEB 11, 2025	Final Submission of Project		



## Appendix A

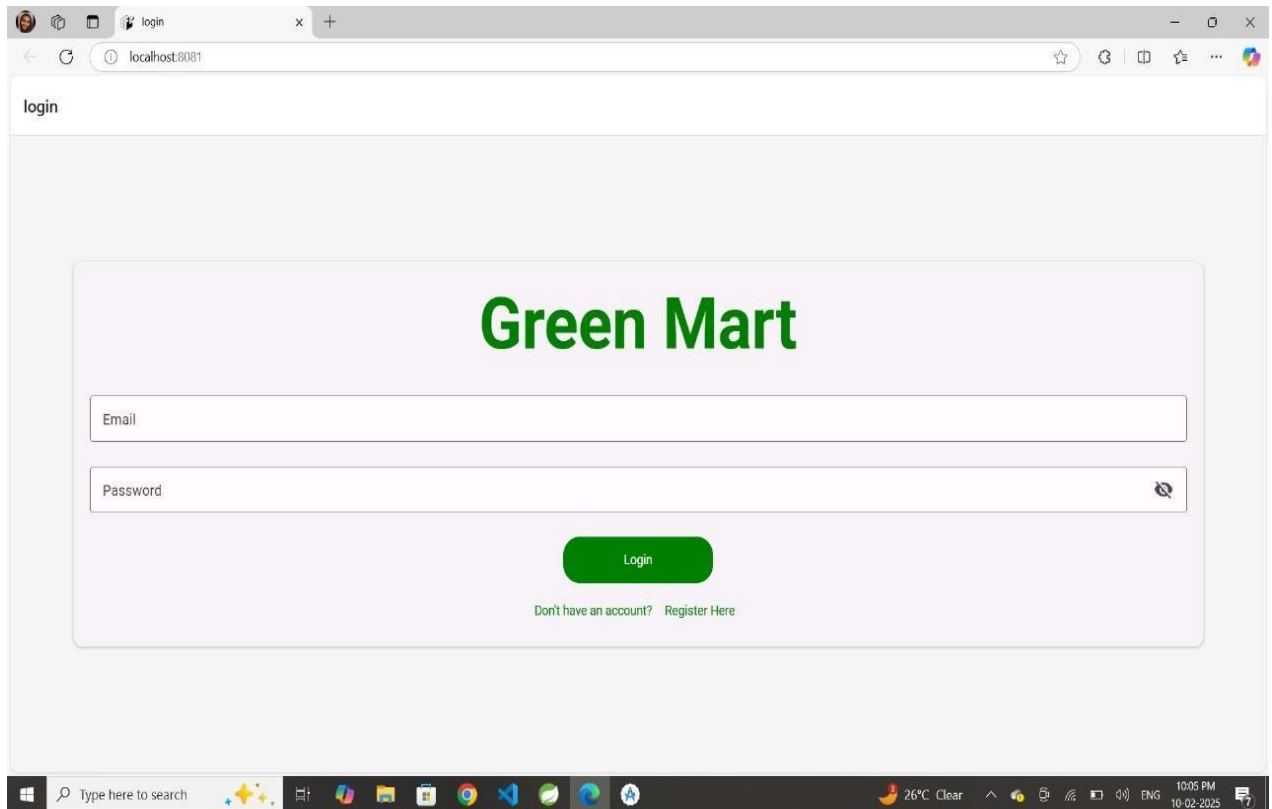
### Entity Relationship Diagram



**Data Flow Diagram:**

## Appendix B:

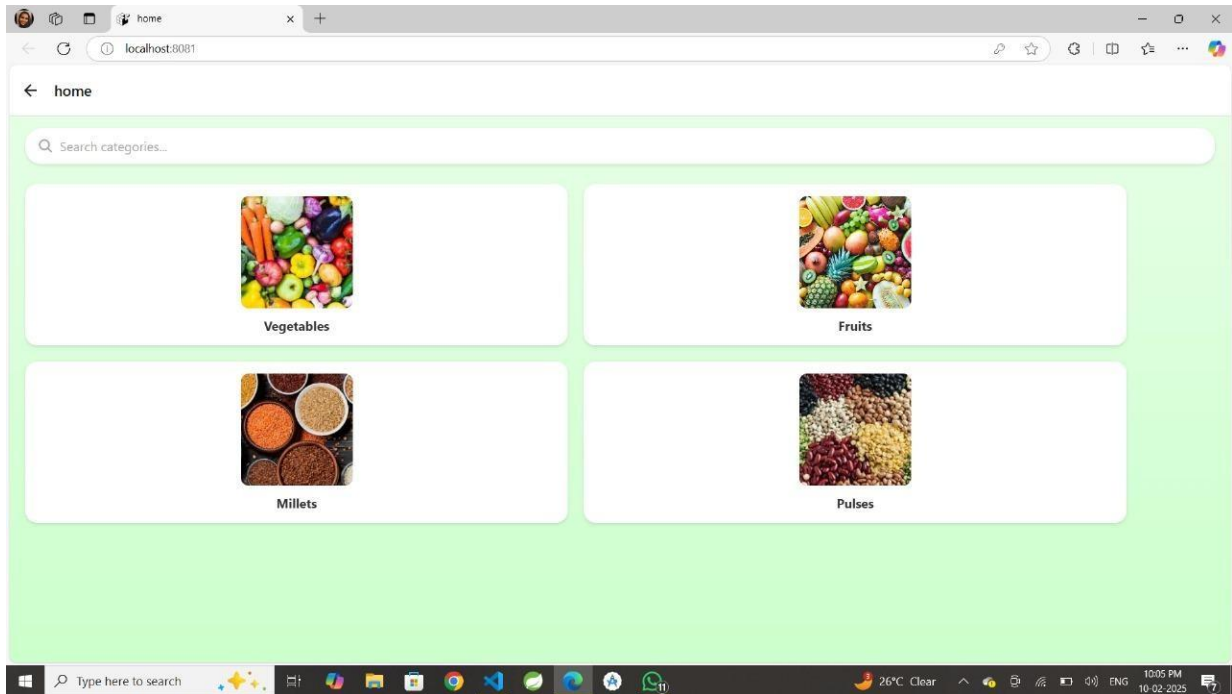
### Login Page:



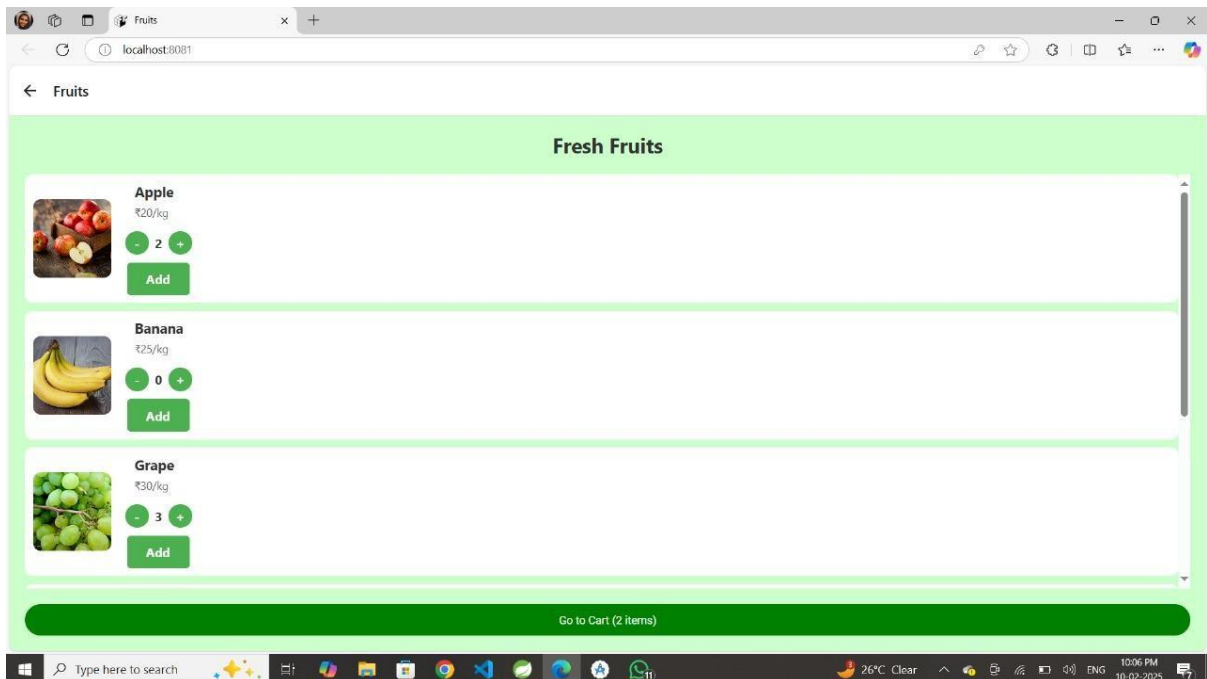
## Register Page:

The screenshot displays a web browser window with a single tab titled 'register'. The address bar shows 'localhost:8081'. The page content is a registration form with the heading 'Register Here' in green. The form contains five text input fields: 'Enter Name', 'Enter Email', 'Enter Password', 'Enter Address', and 'Mobile No'. Below these fields is a prominent green button labeled 'Register Me'. The browser's taskbar at the bottom shows various application icons, a search bar, and system status information including temperature (26°C), weather (Clear), and time (10:05 PM, 10-02-2025).

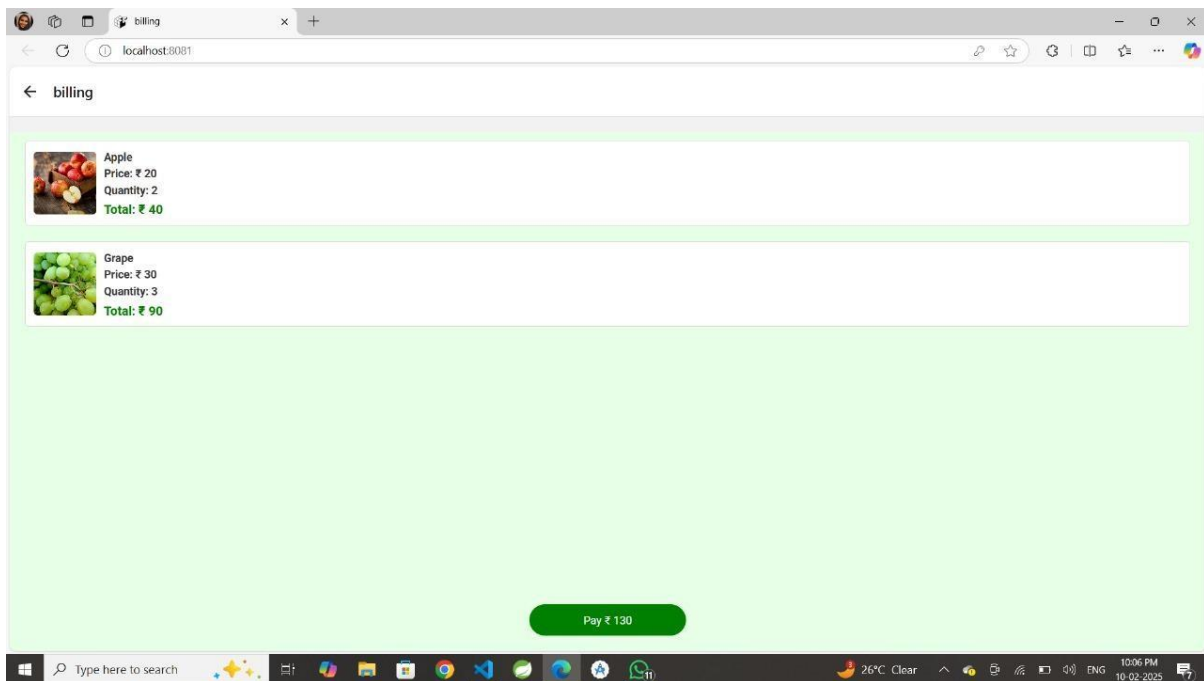
## Categories Page:



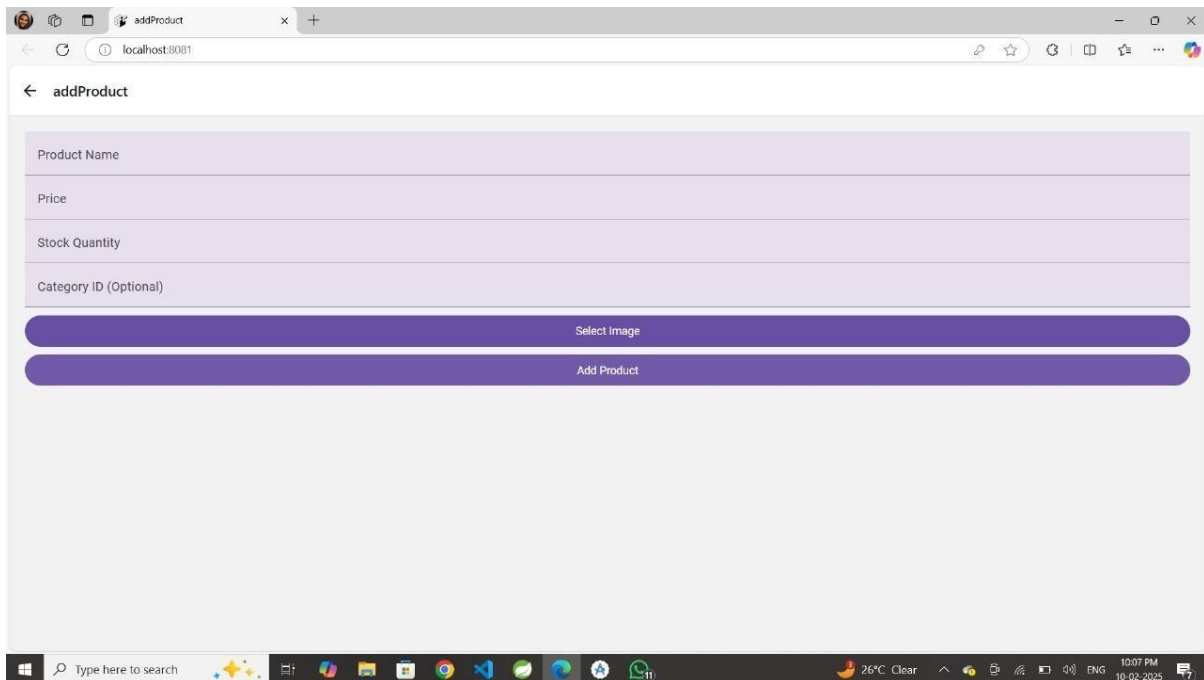
## Fruit categories Page:



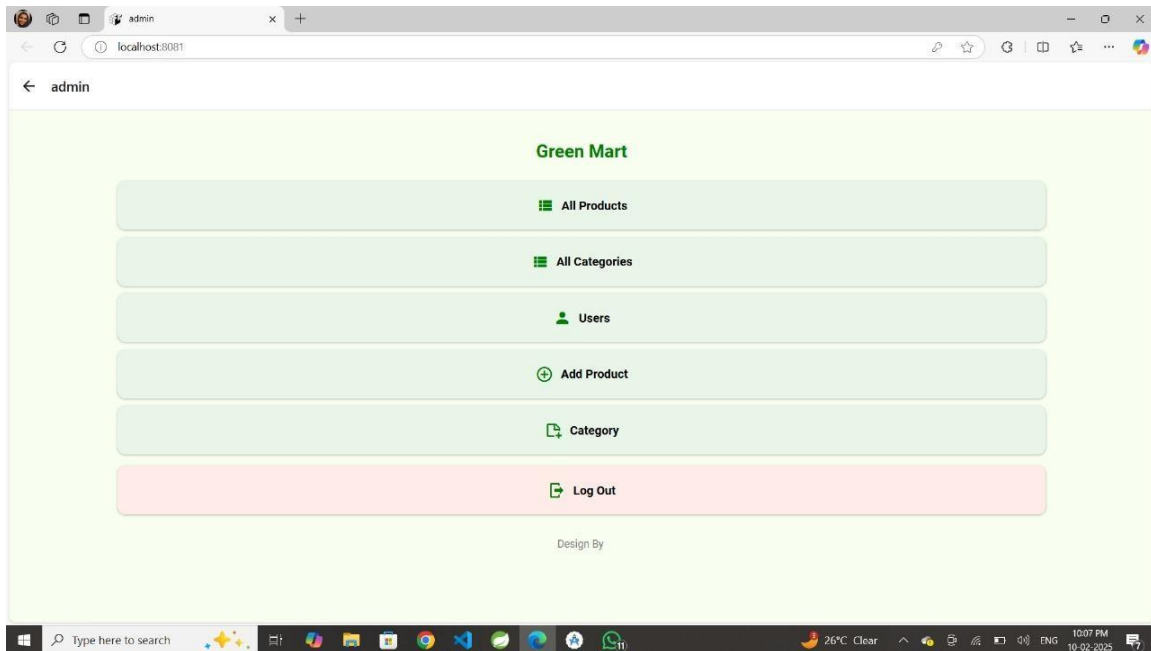
## Billing Page:



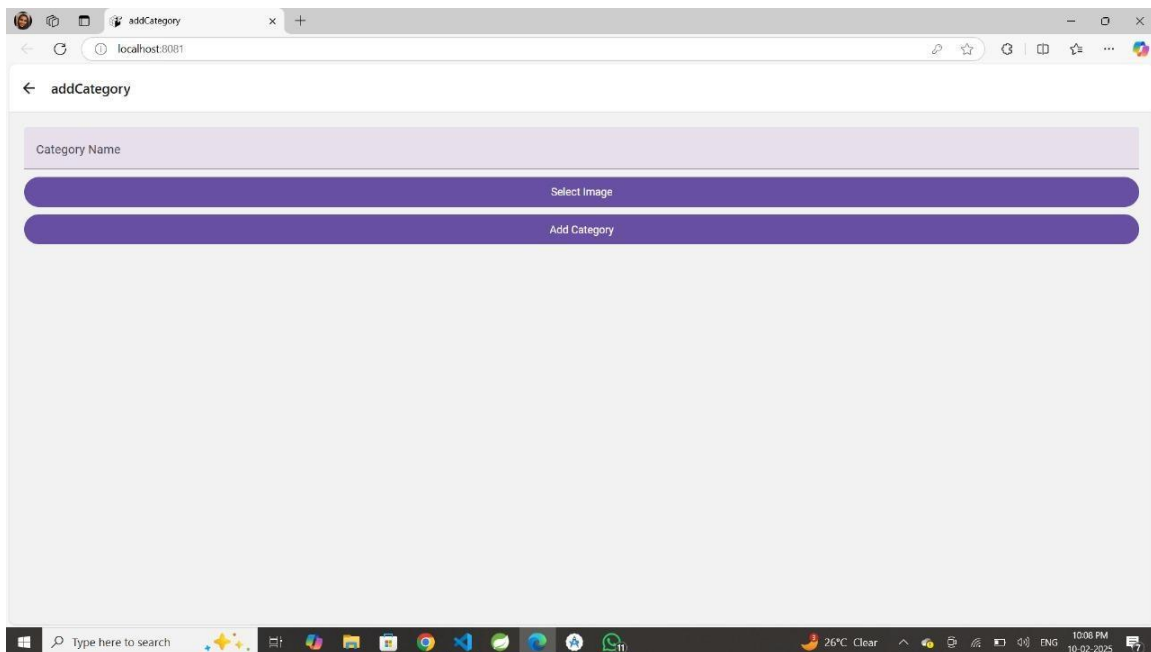
## Add Product Page:



## Admin Page:



## Add Category Page:



## REFERENCES:

- <https://www.ijfans.org/uploads/paper/2d7b4eaa228e77d864a6bd2c6da3f761.pdf>
- [https://www.researchgate.net/publication/305642736\\_Fresh\\_Fruits\\_and\\_Vegetables\\_Last\\_Mile\\_Home\\_Delivery\\_in\\_China\\_Current\\_Situation\\_Research](https://www.researchgate.net/publication/305642736_Fresh_Fruits_and_Vegetables_Last_Mile_Home_Delivery_in_China_Current_Situation_Research)
- [https://www.irjmets.com/uploadedfiles/paper//issue\\_10\\_october\\_2024/62746/final/fin\\_irjmets\\_1729776831.pdf](https://www.irjmets.com/uploadedfiles/paper//issue_10_october_2024/62746/final/fin_irjmets_1729776831.pdf)