

A

**PROJECT REPORT
ON
GREEN TECH ENERGY
FOR**

DataCause Analytics Pvt. Ltd.

**IN PARTIAL FULFILLMENT OF MASTER
OF COMPUTER APPLICATIONBY**

JANVI UMESH DHONDE

Seat No:1027

**MCA –II SEM – IV
(2023-2024)**

**SUBMITTED TO
SAVITRIBAI PHULE PUNE UNIVERSITY**

**SINHGAD INSTITUTE OF MANAGEMENT
PUNE-411 041**



Sinhgad Institutes

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CERTIFICATE

This is to certify that **Ms. Janvi Umesh Dhone**, has successfully completed her Internship project work entitled "**GREEN TECH ENERGY**" in partial fulfillment of MCA – II SEM –IV Mini Project for the year 2023-2024. She has worked under our guidance and direction.

Dr. Milind Godase.
Project Guide

Dr. Chandrani Singh.
Director, SIOM-MCA

Examiner 1

Examiner 2

Date:

Place: Pune.

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Certificate

Dear **Janvi Dhonde**,

To whom so ever It may concern

Welcome to **DataCause Analytics Pvt. Ltd.**

This is to certify Janvi Dhonde, has successfully Completed the internship program with **Datacause**.

This is in response to completing Project with **Datacause Analytics pvt.Ltd.**

During the period, 4 months as **Web Developer - Intern Work On Green Tech Energy.**

Your Internship period, Jan 1,2024 and will be completed on June 15 2024.

During this period, we found her sincere and hardworking. Her contribution to project completion will always be appreciated.

We wish her all best for future.

BEST REGARDS,

Mrs. Roshani Wani



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ACKNOWLEDGEMENT

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Thank You

Yours Sincerely,

Janvi Umesh Dhonde.

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CHAPTER NO-1

INTRODUCTION

1. Company Profile



About Us: -

- We are Data Driven Analytics Company and a group of 17+ years experienced working professionals from Data Analytics, Software Engineering, Project Management. Our objective is to help Education Institutions and Industries by providing valuable Data Analytics and Software Engineering training in order to develop their students, employees to compete in this advanced technological world.
- We utilize the latest digital platforms tightly integrated with the latest security measure across all associated mobile device technologies.
- The results are convenient, simple and always intuitive to use. Data capture and reporting efficiencies are enhanced because data captured via secure digital devices are available for validation and analysis immediately as each data packet is completed and uploaded in real time.
- Sponsor and client organizations have real time access to this information allowing closer scrutiny of data quality and compliance.
- The result is greater data conformance and increased data management efficiencies across the board.

Company Description:

▪ Brief Overview:

- We are Data Driven Analytics Company and a group of 17+ years experienced working professionals from Data Analytics, Software Engineering, and Project Management.
- Our objective is to help Education Institutions and Industries by providing valuable Data Analytics and Software Engineering training in order to develop their students, employees to compete in this advanced technological world.
- DataCause help build intelligent solutions for data-driven businesses. And offers data management, business intelligence, data visualization, advanced analytics.
- To provide training to candidates in various technologies by experts who have first-hand industry knowledge so that candidates can start their career and be in sync with the industry.

▪ Mission Statement:

- To help customers achieve their business objectives by providing innovative, best-in-class consulting, IT solutions and services.
- The company's vision is to decouple business growth and ecological footprint from its operations to address the environment bottom-line.

▪ Basic Information:

- Company Name: DataCause Analytics Pvt. Ltd.
- Company Address: R-Tech Park, Atul Nagar Phase I, Atul Nagar, Warje, Pune, Maharashtra 41105
- Year Founded: Established in the year 2023.

Project Specific Information:

▪ Role in Project:

- Provides a full range of services, from initial planning and strategy to design, development, and launch.
- Project management
- User experience (UX) design
- User interface (UI) design
- Front-end development
- Back-end development

▪ Relevant Experience:

- The company holds sufficient amount of experience in the IT industry, the company has several large projects build by their own for their clients.
- There are five team members involve in this project and the members are well expert in their role in this project.

1.2) Abstract:

- The primary goal of this system is to transition the entire Solar Panel store into an online platform, thereby ensuring accessibility to customers round the clock, 24/7. Moreover, it endeavors to facilitate cashless transactions, thereby aligning with modern payment methods and enhancing convenience for users.
- By embracing online operations, the system aims to amplify its visibility among potential customers, ultimately propelling the business towards unprecedented heights.
- The software will be developed as a website, boasting a user-friendly interface that streamlines the management process and eliminates redundancies.
- This intuitive interface will not only simplify operations but also enhance user experience, making it easier for customers to navigate through the store and place orders effortlessly.
- Through the integration of advanced technologies and meticulous design, the online Solar Panel Ordering store is poised to become an efficient, highly responsive, and remarkably accurate system.
- By leveraging the power of digitalization, the platform will revolutionize the way solar panels are purchased and empower both customers and the business alike.
- This online Solar Panel store endeavors to revolutionize the way customers interact with renewable energy solutions.
- By leveraging the power of digital platforms, it seeks to foster a deeper understanding and appreciation for solar energy among consumers. Through informative content, educational resources, and interactive tools, the platform aims to empower customers to make informed decisions about their energy needs

1.3) Existing System and Need for System:

- The central concept of the Website revolves around providing customers with a seamless virtual shopping experience via the Internet, enabling them to browse and purchase their desired items and articles from the store's extensive inventory.
- All pertinent information regarding the products is meticulously stored within a robust database located on the server side, ensuring easy access and retrieval whenever needed.
- In the current landscape, online shopping has emerged as a preferred mode of retail, particularly among highly educated individuals who value the convenience, variety, and accessibility offered by digital platforms.
- Recognizing this trend, the system has been meticulously crafted to cater to the needs and expectations of this discerning demographic.
- A paramount consideration in the design and development of this system is the intricate balance between data loading, complexity, and the preservation of user credentials' security.
- Complexity, in this context, refers to the comprehensive array of features and functionalities available to users, ranging from product browsing and selection to payment processing and order tracking.
- By carefully optimizing data loading processes, the system ensures swift and efficient retrieval of product information, minimizing delays and enhancing the overall user experience.
 - Simultaneously, stringent security measures are implemented to safeguard sensitive user credentials and transactional data, thereby instilling confidence and trust among customers

1.4) Scope of System:

- The **scope of ecommerce** is expanding day by day due to the heavy number of internet users all over the world. People are spending more time in doing online shopping for various products available on the ecommerce platforms.
- According to Demand Sage, 2.14 billion people are shopping through e-commerce as of 2022. People spend more time online shopping for various products available on e-commerce platforms
- Amazon offers items in almost every category to all the use Additionally, it also provides the best promotion and discounts whenever seasonal sales come.
- India has a huge population and with increase in the internet users, the **e-business** expansion becomes easy.
- The **scope of ecommerce in India** is good for a long-time online business with trending ecommerce marketplaces. Many Sellers are joining the marketplaces like Amazon and Flipkart in order to get more customers for their business.
- The traffic on these Websites is in millions and Indian sellers are seeing this as an opportunity to generate more revenue.
- For Indian sellers, the allure of e-commerce lies not only in the sheer scale of the marketplaces but also in their ability to reach millions of consumers with minimal overhead costs.
- With traffic volumes soaring into the millions, these platforms offer a gateway to unprecedented visibility and revenue generation, propelling businesses to new heights of success in the digital age.

1.5) Operating Environment – Hardware and Software:

▪ Server Hardware Requirement:

- Processor: Intel Core I3 or Above
- RAM: 4 GB or Above
- Storage: 512 GB or Above.

▪ Server Software Requirement:

- Operating System: Windows 07 or Above
- Web Browser: Internet Explorer, Google Chrome, etc.
- IDE: PyCharm Community or VS Code
- Front end: HTML, CSS, JS
- Framework: Django
- Backend: Python Shell
- Database: SQLite

▪ Client Hardware Requirement:

- Processor: Intel Core I3 or Above
- RAM: 4 GB or Above
- Storage: 512 GB or Above.

▪ Client Software Requirement:

- Operating System: Windows 07 or Above
- Web Browser: Internet Explorer, Google Chrome, etc.

1.6) Brief Description of Technology Used:

- **PyCharm Community:**

PyCharm provides smart code completion, code inspections, on-the-fly error highlighting and quick-fixes, along with automated code refactoring's and rich navigation capabilities. PyCharm's smartcode editor provides first-class support for Python, JavaScript, Coffee Script, TypeScript, CSS, popular template languages and more. Take advantage of language-aware code completion, error detection, and on- the-fly code fixes! Use smart search to jump to any class, file or symbol, or even any IDE action or tool window. It only takes one click to switch to the declaration, super method, test, usages, implementation, and more. Refactor your code the intelligent way, with safe Rename and Delete, Extract Method, Introduce Variable, Inline Variable or Method, and other refactoring's. Language and framework- specific refactoring's help you perform project-wide changes.

- **Google Chrome:**

The Google Chrome Web browser is based on the open-source Chromium project. Google released Chrome in 2008 and issues several updates a year. It is available for Windows OS X, Linux, Android and iOS operating systems. The Google Chrome browser takes a sandboxing-based approach to Web security. Each open website runs as its own process, which helps prevent malicious code on one page from affecting others (or the computer operating system at large). The browser also supports Web standards such as HTML5 and cascading stylesheets (CSS).

- **Django:**

Django was created in 2003 when web developers at the Lawrence Journal-World newspaper started using Python for their web development. After creating a number of websites, they started to factor out and reuse lots of common code and design patterns. That common code led to a generic web development framework that was open-sourced as the “Django” project in 2005. Since the original developers were surrounded by those newspaper writers, well-written documentation is a key part of Django. This means that there are excellent references to check out on the official Django documentation pages.

- **The Django community**

The Django framework is extremely large, but the Django community is massive. The community has contributed a lot of third - party code for Django. No matter what we are trying to do, there is a good chance that we will find the solution for it on djangopackages.org. The website includes everything from authentication and authorization to full-on Django-powered content management systems, from e- commerce add-ons to integrations with Stripe.

- **Django features**

Some features that make Django an ideal framework for web application development are as follows:

- Super-fast: Django development is extremely fast. Our ideas can take the shape of a product very quickly.
- Fully loaded: Django has dozens of projects that can be integrated to carry out common tasks such as user authentication, authorization, and content administration.
- Versatile: Django can be used for almost any kind of project, from CMSs to e- commerce apps to on-demand delivery platforms.
- Secure: Django also has support to prevent common security issues, including cross- site request forgery, cross-site scripting, SQL injection, and clickjacking.

- **HTML/CSS**

HTML (the Hypertext Markup Language) and CSS (Cascading Style Sheets) are two of the core technologies for building Web pages. HTML provides the structure of the page, CSS the (visual and aural) layout, for a variety of devices. Along with graphics and scripting, HTML and CSS are the basis of building Web pages and Web Applications.

- **What is HTML?**

HTML is the language for describing the structure of Web pages. authors the means to: Publish online documents with headings, text, tables, lists, photos, etc. Retrieve online information via hypertext links, at the click of a button. Design forms for conducting transactions with remote services, for use in searching for information, making reservations, ordering products, etc. Include spread-sheets, video clips, sound clips, and other applications directly in their documents. With HTML, authors describe the structure of pages using markup.

- **What is XHTML?**

XHTML is a variant of HTML that uses the syntax of XML, the Extensible Markup Language. XHTML has all the same elements (for paragraphs, etc.) as the HTML variant, but the syntax is slightly different. Because XHTML is an XML application, you can use other XML tools with it (such as XSLT, a language for transforming XML content).

- **What is CSS?**

CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers. CSS is independent of HTML and can be used with any XML-based markup language.

CHAPTER NO-2

PROPOSED SYSTEM

2.1) Study of Similar Systems:

Focus on key features relevant to the project, such as:

- **Account Management:** Does the site allow user accounts for payment, reservation, or charging history.
- **Real-time Updates:** Does the site offer live information on product availability.
- **Pricing and Payment:** How is charging cost displayed and what payment methods are accepted. **User Experience (UX):** Is the website user-friendly, mobile-responsive, and easy to navigate.

2.2) Feasibility Study:

Feasibility study aim to objectively rotationally uncover the strengths and weakness of the existing business purpose venture, opportunities and threats as presented by the environment, there source required to carry through, and ultimately the prospectus for success in its simplest term, the two criteria to judge feasibility cost required and value to be attend. As such, well designed feasibility study should provide the historical background of the business of project, descriptions of the product or service, accounting statement, details of the operations and management, marketing research and policies financial data, legal requirements, text obligation.

▪ ECONOMIC FEASIBILITY

Economic analysis is the most frequently used method for evaluating the effectiveness of a new system. More commonly known as cost/ benefit analysis, the procedure is to determine the benefits and the saving that are accepted from a candidate system and compare them with costs. If benefits outweigh cost, then the decision is made to design and implement the system. And entrepreneur must accurately weigh the Cost versus benefits before taking an action.

■ **TECHNICAL FEASIBILITY**

The assessment is based on outline design of system requirements in term of input, processes, output, fields, programs and procedures. This can be quantified in terms of volumes of data, trends, frequency of updating, etc. in order to estimate whether the new system will perform adequately or not. Technical feasibility is carried out to determine whether the company has the capability in terms of software, hardware, personal and expertise, to handle the completion of the project.

- A brief description of the business to assess more possible factors which could affect the study
- The part of business being examined.
- The human and economic factor.
- The possible solution to the problems.

■ **BEHAVIORAL FEASIBILITY**

Proposed project of beneficiary only if they turned into information system that will meet organization operating requirement. Which is major barrier for implementation? Here is question that will help tested operation feasibility of project.

- Is current business method acceptable to the user? If they are not, user may welcome the change that will about more operation and useful system.

2.3) Objective of System:

- The primary aim of the online shopping site is to streamline and automate the management of various aspects of the shopping experience, including transactions, payments, invoices, and customer interactions.
- Built exclusively for administrative use, the project restricts access to authorized personnel, ensuring data integrity and security
- By centralizing and digitizing key functions, the site effectively minimizes manual intervention, thereby enhancing efficiency and accuracy in operations.
- It serves as a comprehensive repository for tracking and recording all pertinent information related to payments, customers, orders, and invoices, providing administrators with real-time insights into the status and progress of transactions.
- Through intuitive user interfaces and robust backend functionalities, the site empowers administrators to effortlessly navigate and manage a multitude of tasks, from processing orders and generating invoices to monitoring payment statuses and analyzing customer trends.
- This seamless integration of data and processes not only saves time and resources but also mitigates the risk of errors and discrepancies inherent in manual record-keeping.
- Furthermore, the site facilitates seamless communication and collaboration between different departments, enabling stakeholders to access relevant information and updates in a timely manner.
- This fosters greater transparency and accountability across the organization, ultimately leading to improved decision-making and customer service.

2.4) Users Of System:

▪ Profile Module:

✓ Admin:

Register/Login: The admin can register a new account or login to an existing account.

View Profile: The admin can view their profile information, such as their name, email address, and role.

Update Profile: The admin can update their profile information, such as their name, email address, and password.

Manage Customer Details: The admin can view and manage customer details, such as their name, address, and contact information.

✓ Customer:

Register/Login: The customer can register a new account or login to an existing account.

View Profile: The customer can view their profile information, such as their name, email address, and shipping address.

Update Profile: The customer can update their profile information, such as their name, email address, and shipping address.

- **Product Module:**

- ✓ **Admin:**

Add Product: The admin can add a new Product from an existing Product.

Delete Product: The admin can add a delete Product from an existing Product

View Product: The admin can view the Product Details and availability.

Update Product: The admin can update the information of Product, such as the name, description, Prices, and Rating.

Manage Product Details: The admin can view and manage Product details.

- ✓ **Customer:**

View Product: The customer can view the Product with its details.

Check Availability: The customer can check the availability of Product with Quantity.

Cancel Product: The customer can cancel a Product in no of quantity.

- **Cart Module:**

- ✓ **Admin:**

View Cart: The admin can view the Product Details and availabilityin Cart Added by Customer.

Manage Cart Details: The admin can view and manage Cart details.

- ✓ **Customer:**

Choose Product to Add to Cart: The customer can choose a Productto add to cart.

View Cart: The customer can view the Product added to cart by them.

Check Quantity: The customer can check the availability of Productwith Quantity.

Cancel Product add to cart: The customer can cancel a Product in noof quantity or can cancel add to cart product.

- **Order Module:**

- ✓ **Admin:**

Check Order Status: The admin can check the status of Order that customer have made.

Cancel Order Request: The customer can cancel Order request that customer have made.

Update Order Status: The admin can update the Order Status such as Packed, On the way, Delivered, and Order Cancelled.

Manage Order Details: The admin can view and manage Order details.

- ✓ **Customer:**

Check Order Status: The customer can view the Order Status such as Packed, On the way, Delivered, and Order Cancelled.

Cancel Order Request: The customer can cancel Order request that they have made.

Cancel Order: The customer can cancel Order that they have made.

- **Payment & Delivery Module:**

- ✓ **Admin:**

View Payment Details: The admin can view payment details, such as the name of the payment method, the card number, the expiration date, and the billing address.

Manage Payment Details: The admin can manage payment details, such as adding new payment methods, editing existing payment methods, and deleting payment methods.

View Payment Details: The admin can view payment details related to the bookings for product.

- ✓ **Customer:**

Make Payment for Product Order: The customer can make a payment for a Product Ordering.

View Payment Status: The customer can view the status of their payment, such as "Pending", "Confirmed", or "Cancelled".

View Payment Details: The customer can view the details of their payment, such as the amount paid, the payment method, and the date of payment.

- **Feedback Module:**

- ✓ **Admin:**

View Feedback and Ratings: The admin can view feedback and ratings submitted by customers.

- ✓ **Customer:**

Submit Feedback: Customer can provide feedback on the overall system and their experience.

CHAPTER NO-3

ANALYSIS AND DESIGN

3.1) System Requirements (Functional and Non-Functional requirements):

- **Functional Requirement: -**

- Customer can login
- Customer can review on product
- Customer Give the feedback on provide service
- Admin can view Feedback
- Customer can view the delivery details
- Admin check the delivery status
- Customer select payment option
- Customer can payment for product
- Admin check payment of product
- Customer Buy product
- Customer view order
- Customer cancel order
- Admin can view order
- Customer Add product to cart
- Customer Remove product from cart
- Customer update the number of quantities of product in cart

- Admin add product
- View product
- Update product
- Delete product
- Admin can add category (e.g., Solar Panel, Solar Batteries etc.)
- Admin can delete category
- Admin can add sub-category (add parts of Solar Panel categorywise)
- Customer can registration
- Customer can Login
- Customer can View Profile
- Customer can Update Profile
- Customer can Logout
- Admin can registration
- Admin can Login
- Admin can View profile
- Admin can Update profile
- Admin can View customer profile
- Admin can Update customer profile
- Admin can Delete Customer profile
- Admin can log out

- **Non-Functional Requirement:** -

Testability: Ability to be tested effectively, including unit testing, integration testing, and system testing.

Maintainability: Ease of making changes or updates to the system without introducing errors or disrupting existing functionality.

Scalability: Ability to handle increased workloads or users without negatively impacting performance or functionality.

Extensibility: Ability to add new features or functionality to the system without requiring significant changes to the existing code

Usability: Ability of the system to be easily understood and used by its intended audience.

Accessibility: Ability of the system to be used by people with disabilities, such as those with visual or hearing impairments.

Portability: Ability to run the system on different platforms or environments without requiring significant modifications.

Compatibility: Ability of the system to work with different hardware or software configurations.

Compliance: Ability of the system to meet legal, regulatory, or industry standards and requirements.

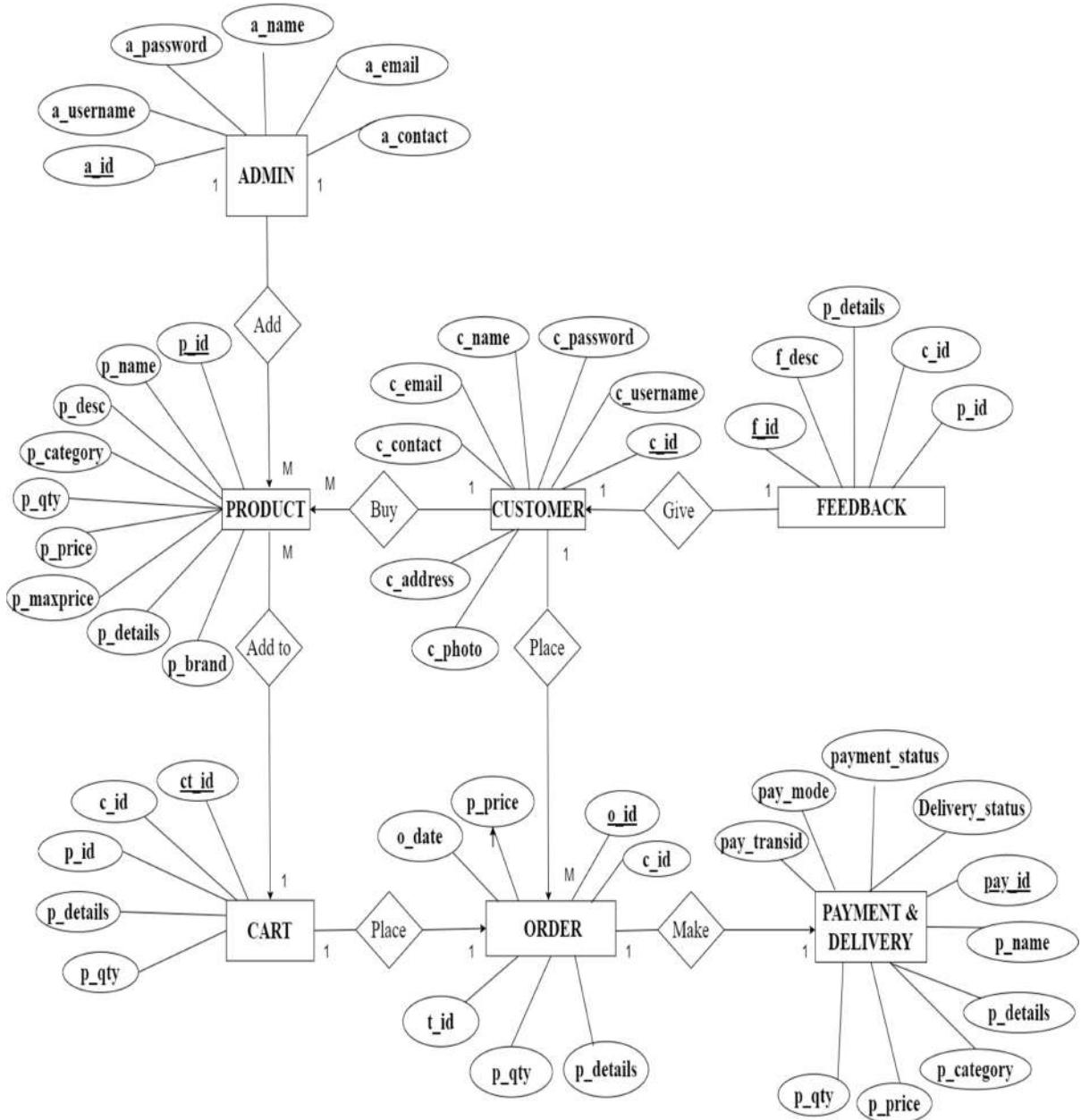
Performance: Non-functional requirements related to performance can include factors such as response time, throughput, and capacity. It's important to consider the performance requirements of the system in relation to the expected workload or usage patterns.

Security: Non-functional requirements related to security can include authentication, authorization, confidentiality, and integrity. It's important to consider the security requirements of the system in relation to the sensitivity of the data being handled and potential risks or threats.

Documentation: Non-functional requirements related to documentation can include the level of detail and completeness required for documentation, as well as standards for formatting .

3.2) UML Diagram

Entity Relationship Diagram



3.3) Table Specifications:

- **ADMIN TABLE**

Sr.no	Field name	Field size	Data type	Description	Constraint
1	a_id	8	Int	Admin id	Primary key
2	a_username	10	Varchar	Admin username	Not null
3	a_password	12	Varchar	Admin password	Not null
4	a_name	12	Varchar	Admin name	Not null
5	a_email	27	Varchar	Admin email	Not null
6	a_contact	11	Int	Admin contact	Not null

- **CUSTOMER TABLE**

Sr.no	Field name	Field size	Data type	Description	Constraint
1	c_id	8	Int	Customer id	Primary key
2	c_username	10	Varchar	Customer username	Not null
3	c_password	12	Varchar	Customer password	Not null
4	c_name	12	Varchar	Customer name	Not null
5	c_email	27	Varchar	Customer email	Not null
6	c_contact	11	Int	Driver contact	Not null
7	c_address	10	Varchar	Customer address	Not null
8	c_photo	250	Image	Customer photo	Not null

o PRODUCT TABLE

Sr.no	Field name	Field size	Data type	Description	Constraint
1	p_id	8	Int	Product id	Primary key
2	p_name	10	Varchar	Product name	Not null
3	p_desc	10	Varchar	Product Description	Not null
4	p_category	10	Varchar	Product Category	Not null
5	p_qty	10	Int	Product Quantity	Not null
6	p_price	10	Int	Product Price	Not null
7	p_maxprice	10	Int	Product Maxprice	Not null
8	p_details	10	Varchar	Product Details	Not null
9	p_brand	10	Varchar	Product brand	Not null

o CART TABLE

Sr.no	Field name	Field size	Data type	Description	Constraint
1	ct_id	8	Int	Cart id	Primary key
2	c_id	8	Int	Customer Id	Foreign Key
3	p_id	10	Int	Product Id	Foreign Key
4	p_details	10	Varchar	Product Details	Not null
5	p_qty	10	Int	Product Quantity	Not null

- **FEEDBACK TABLE**

Sr.no	Field name	Field size	Data type	Description	Constraint
1	f_id	8	Int	Feedback Id	Primary key
2	f_desc	8	Varchar	Feedback Description	Not null
3	p_details	10	Varchar	Product Details	Not null
4	c_id	10	Int	Customer Id	Foreign Key
5	p_id	10	Int	Product Id	Foreign Key

- **ORDER TABLE**

Sr.no	Field name	Field size	Data type	Description	Constraint
1	o_id	8	Int	Order id	Primary key
2	c_id	10	Int	Customer id	Foreign Key
3	p_details	10	Varchar	Product details	Not null
4	p_qty	10	Int	Product Quantity	Not null
5	t_id	10	Int	Transaction Id	Not null
6	o_date	10	Date	Order date	Not null
7	p_price	10	Int	Product Price	Not null

- PAYMENNT AND DELIVERY TABLE

Sr.no	Field name	Field size	Data type	Description	Constraint
1	pay_id	8	Int	Payment id	Primary key
2	p_name	8	Varchar	Product name	Not null
3	p_details	10	Varchar	Product details	Not null
4	p_category	10	Varchar	Product category	Not null
5	p_price	10	Int	Product price	Not null
6	p_qty	10	Int	Product Quantity	Not null
7	pay_transid	10	Int	Payment Transaction Id	Not null
8	pay_mode	20	Varchar	Payment Mode	Not null
9	Payment_status	8	Varchar	Payment Status	Not null
10	Delivery_status	8	Varchar	Delivery Status	Not null

3.4) DATA DICTIONARY:

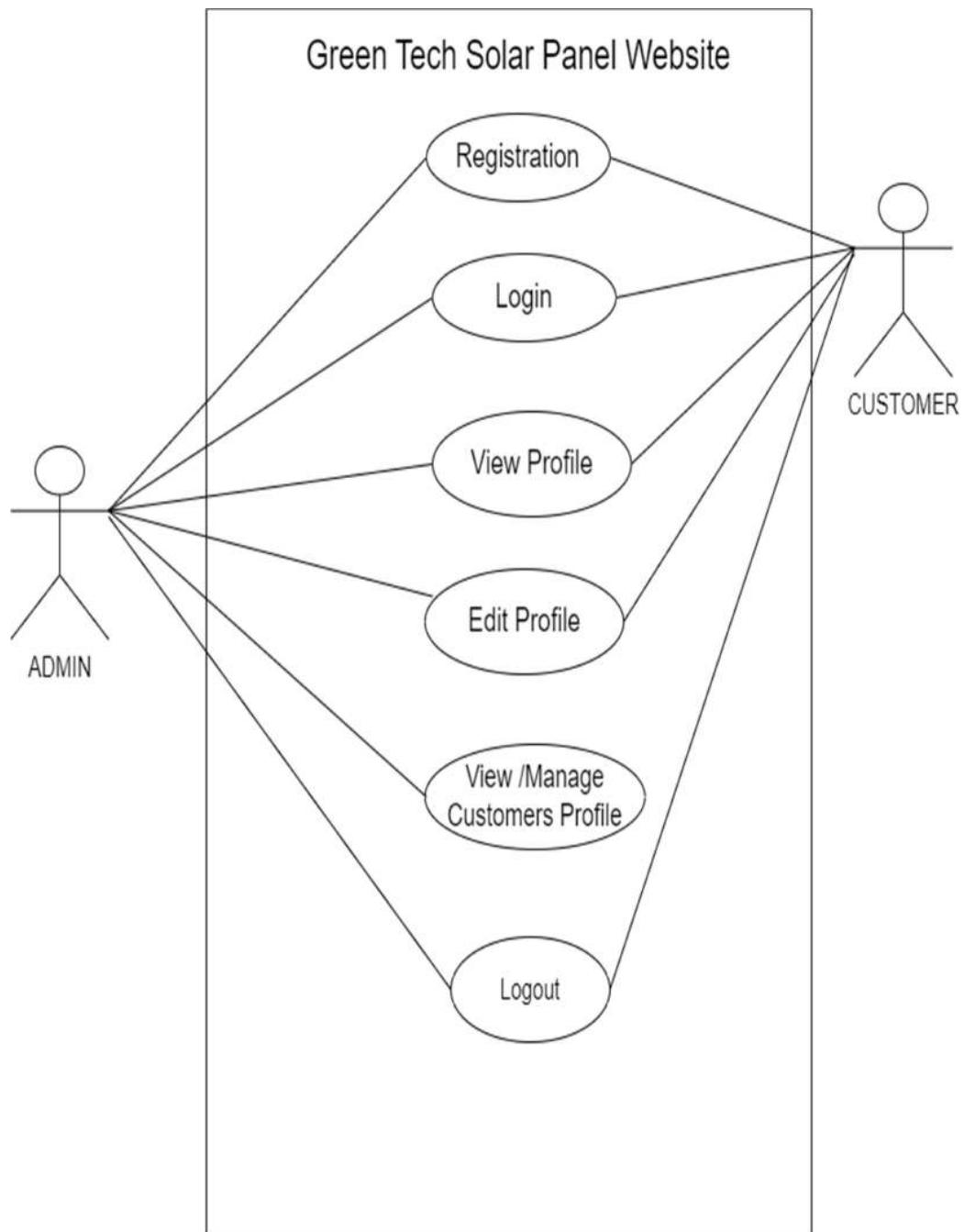
Sr.no	Field name	Field size	Data type	Description	Constraint	Table Name
1	a_contact	11	Int	Admin contact	Not null	Admin
2	a_email	27	Varchar	Admin email	Not null	Admin
3	a_id	8	Int	Admin id	Primary key	Admin
4	a_name	12	Varchar	Admin name	Not null	Admin
5	a_password	12	Varchar	Admin password	Not null	Admin
6	a_username	10	Varchar	Admin username	Not null	Admin
7	c_address	10	Varchar	Customer address	Not null	Customer
8	c_contact	11	Int	Driver contact	Not null	Customer
9	c_email	27	Varchar	Customer email	Not null	Customer
10	c_id	8	Int	Customerid	Primary key, Foreign Key, Foreign Key, Foreign Key.	Customer, Cart, Order, Payment & Delivery
11	c_name	12	Varchar	Customer name	Not null	Customer

12	c_password	12	Varchar	Customer password	Not null	Customer
13	c_photo	250	Image	Customer photo	Not null	Customer
14	c_username	10	Varchar	Customer username	Not null	Customer
15	ct_id	8	Int	Cart id	Primary key	Cart
16	Delivery_status	8	Varchar	Delivery Status	Not null	Payment & Delivery
17	f_desc	8	Varchar	Feedback Description	Not null	Payment & Delivery
18	f_id	8	Int	Feedback Id	Primary key	Payment & Delivery
19	o_date	10	Date	Order date	Not null	Order
20	o_id	8	Int	Order id	Primary key	Order
21	p_brand	10	Varchar	Product brand	Not null	Product
22	p_category	10	Varchar	Product Category	Not null	Product
23	p_category	10	Varchar	Product category	Not null	Payment & Delivery
24	p_desc	10	Varchar	Product Description	Not null	Product
25	p_details	10	Varchar	Product Details	Not null	Product
26	p_details	10	Varchar	Product Details	Not null	Cart
27	p_details	10	Varchar	Product details	Not null	Order
28	p_details	10	Varchar	Product details	Not null	Payment & Delivery
29	p_details	10	Varchar	Product Details	Not null	Payment & Delivery

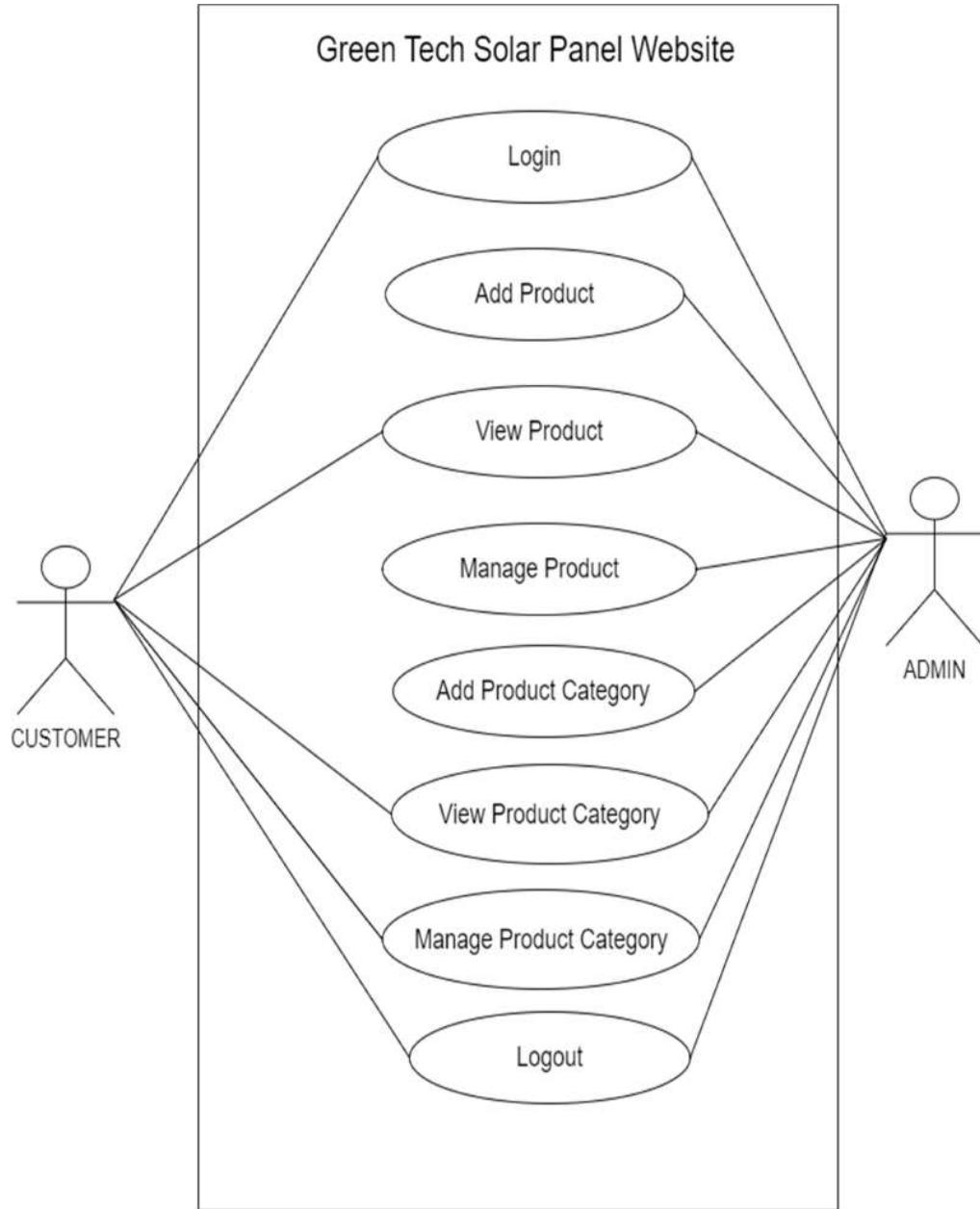
30	p_id	8	Int	Product id	Primary key, Foreign Key, Foreign Key.	Product, Cart, Payment & Delivery
31	p_maxprice	10	Int	Product Maxprice	Not null	Product
32	p_name	10	Varchar	Product name	Not null	Product
33	p_name	8	Varchar	Product name	Not null	Payment & Delivery
34	p_price	10	Int	Product Price	Not null	Product
35	p_price	10	Int	Product Price	Not null	Order
36	p_price	10	Int	Product price	Not null	Payment & Delivery
37	p_qty	10	Int	Product Quantity	Not null	Product
38	p_qty	10	Int	Product Quantity	Not null	Cart
39	p_qty	10	Int	Product Quantity	Not null	Order
40	p_qty	10	Int	Product Quantity	Not null	Payment & Delivery
41	pay_id	8	Int	Payment id	Primary key	Payment & Delivery
42	pay_mode	20	Varchar	Payment Mode	Not null	Payment & Delivery
43	pay_transid	10	Int	Payment Transaction Id	Not null	Payment & Delivery
44	Payment_status	8	Varchar	Payment Status	Not null	Payment & Delivery
45	t_id	10	Int	Transaction Id	Not null	Order

3.5) USE-CASE DIAGRAM:

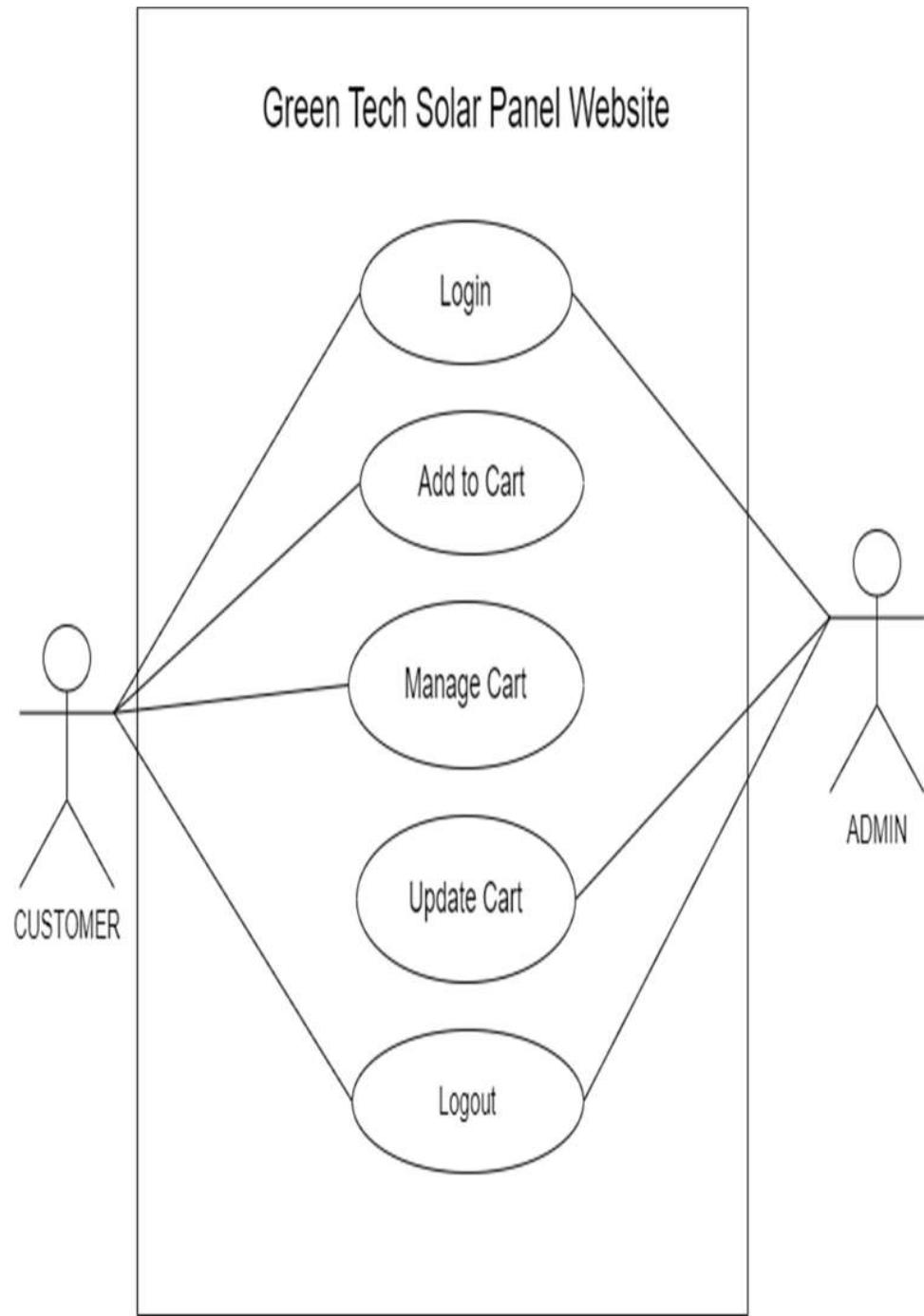
▪ USE CASE OF PROFILE



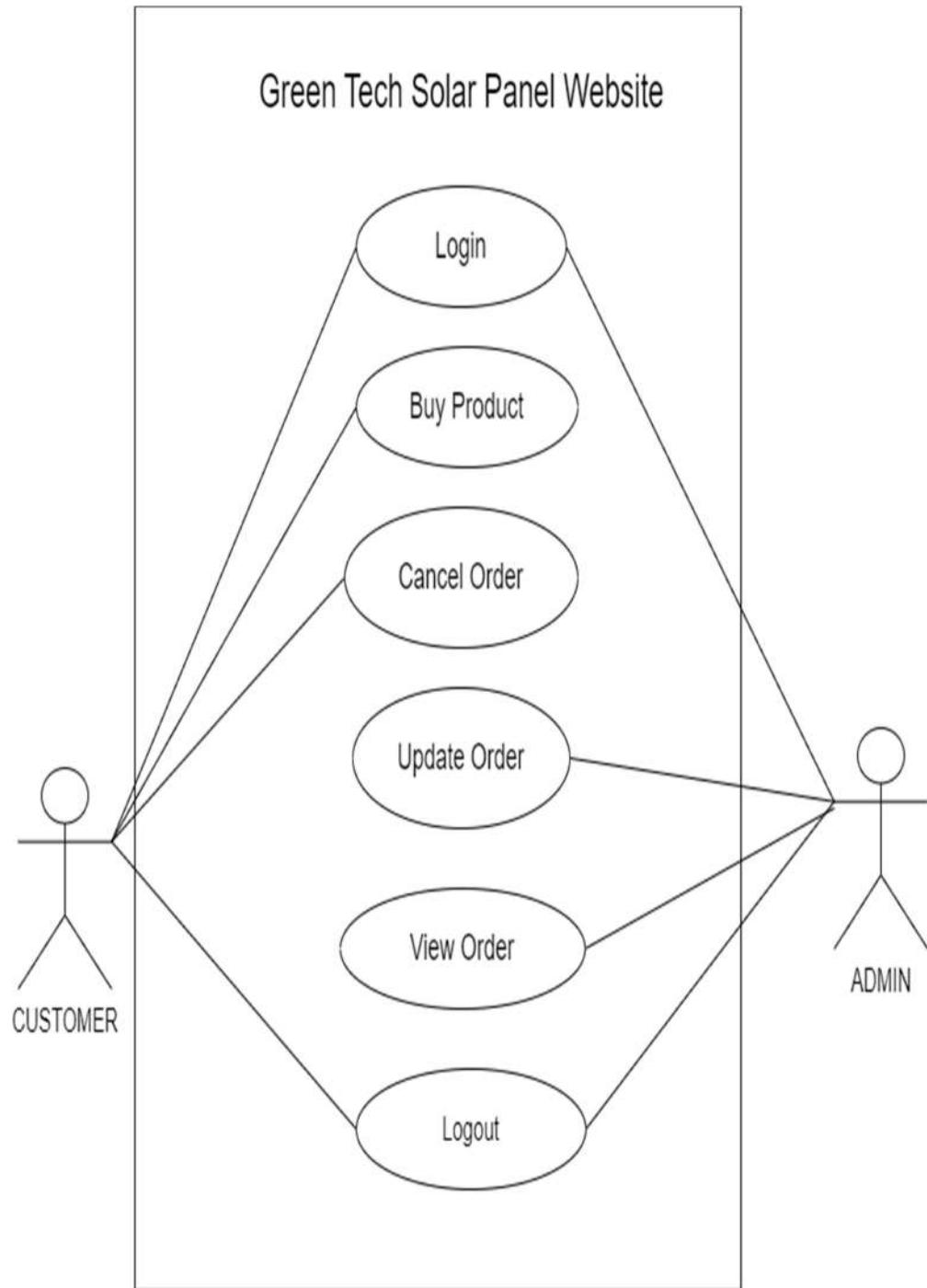
- USE CASE OF PRODUCT MODULE



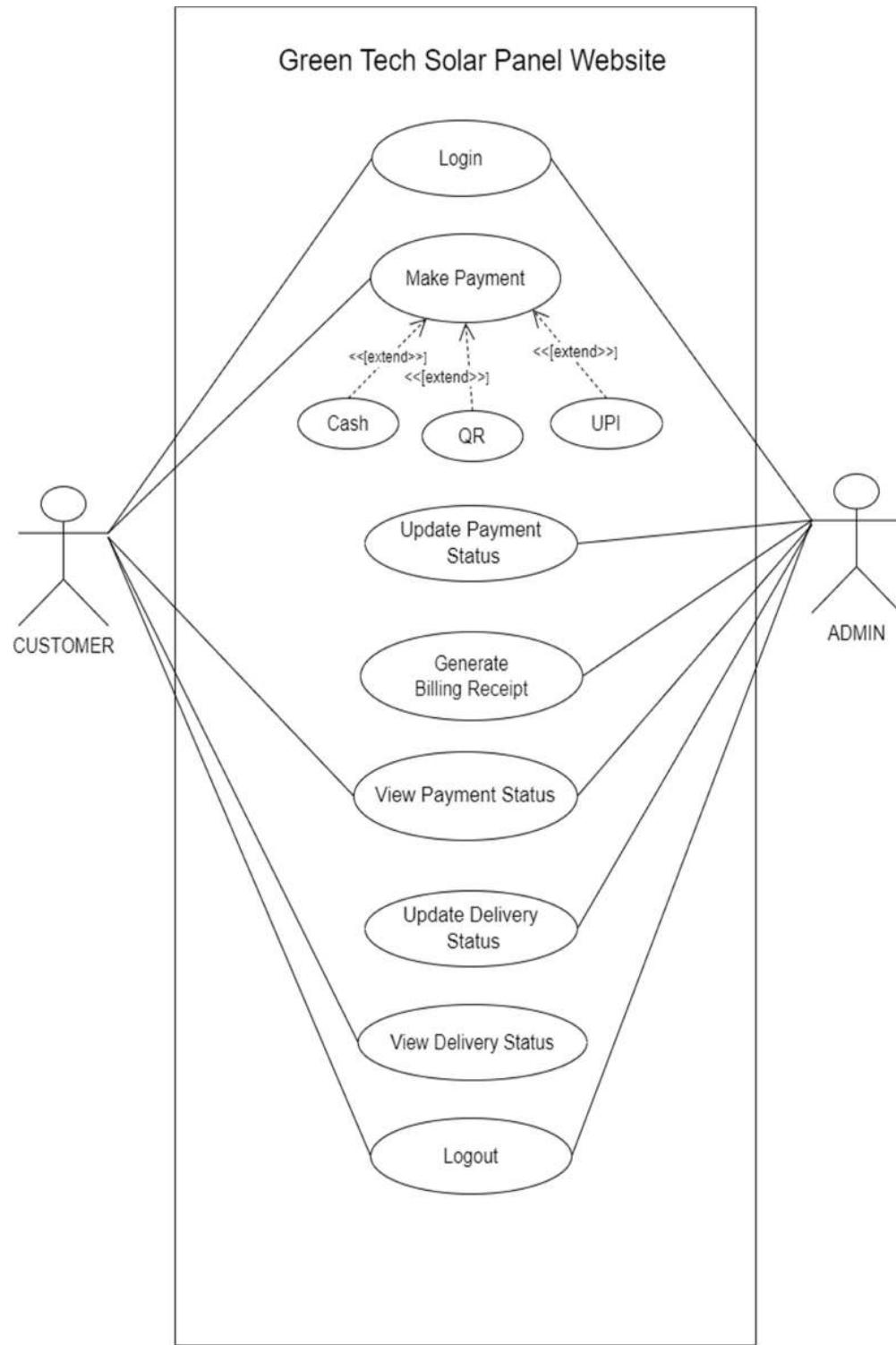
- USE CASE OF CART MODULE



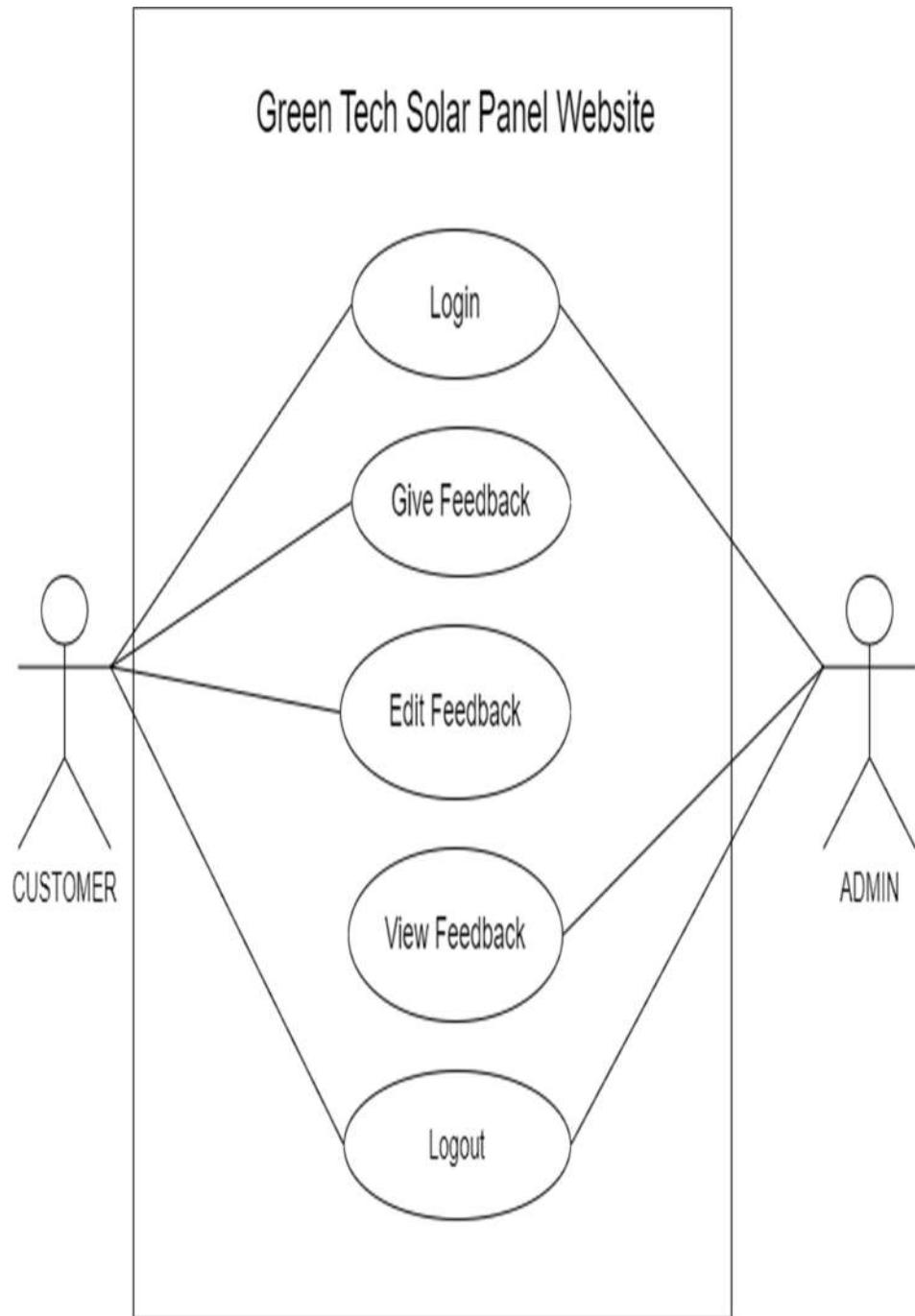
- USE CASE OF ORDER MODULE



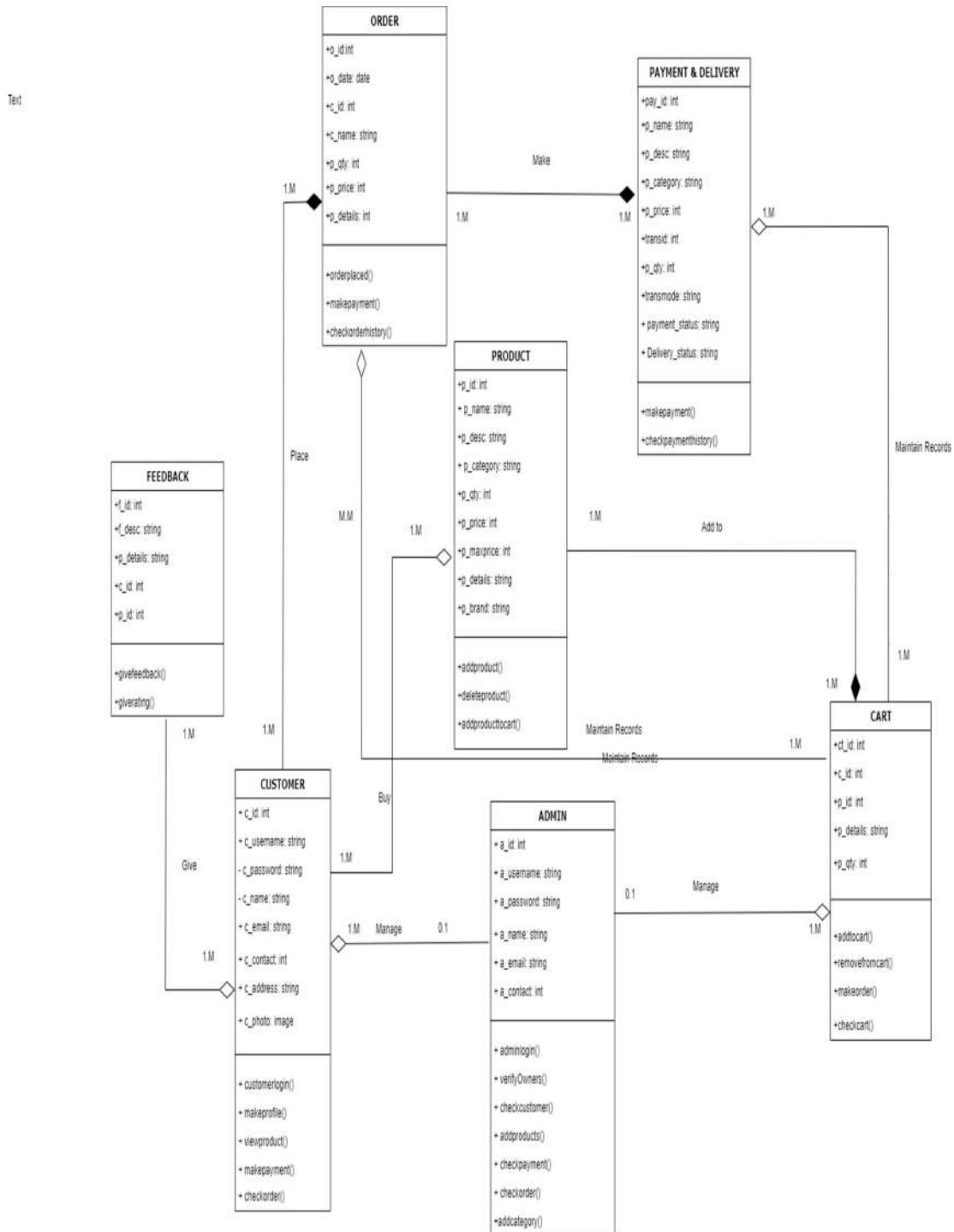
○ USE CASE OF PAYMENT & DELIVERY MODULE



- USE CASE OF FEEDBACK MODULE

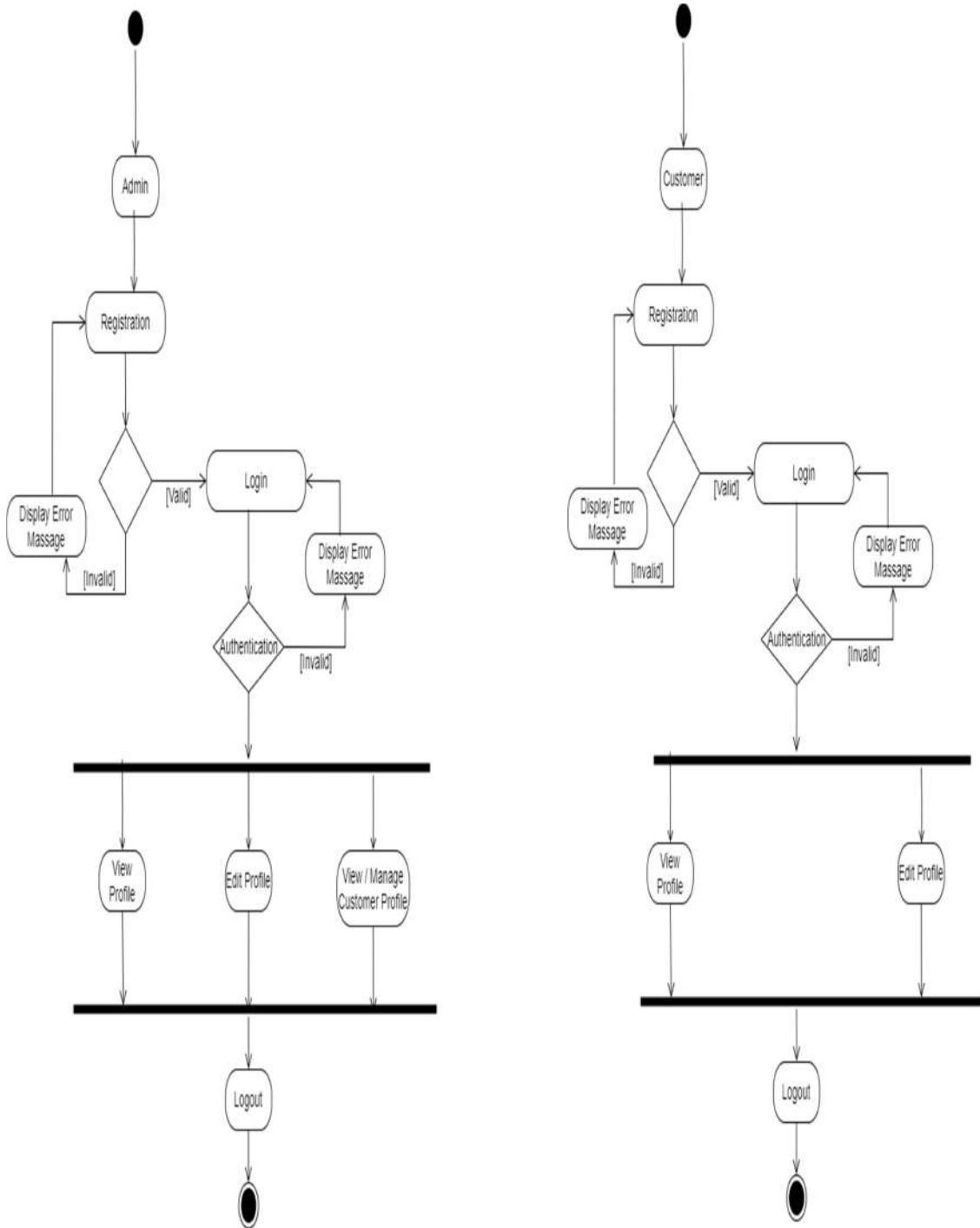


■ 3.6 CLASS DIAGRAM:

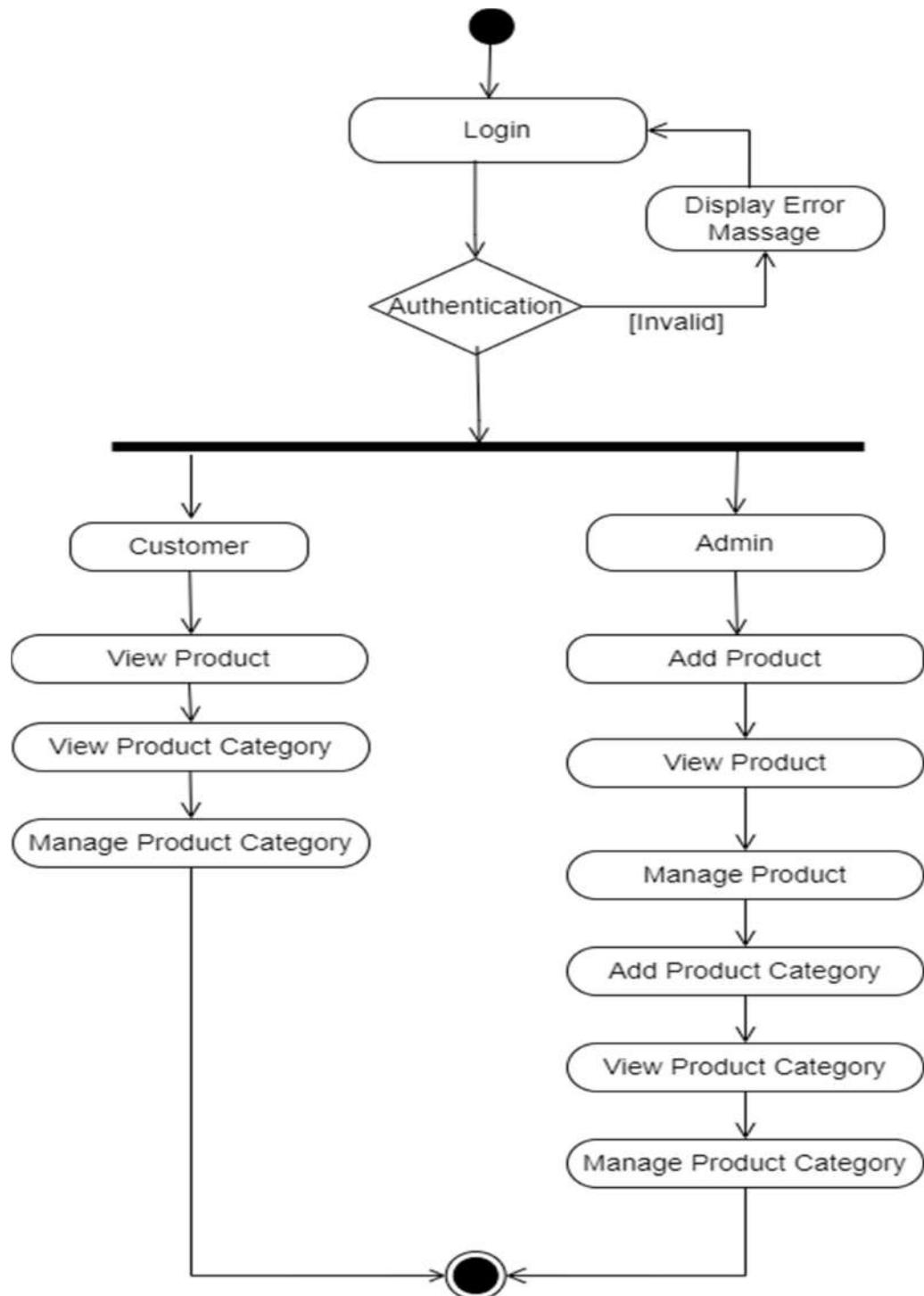


3.7) ACTIVITY DIAGRAM:

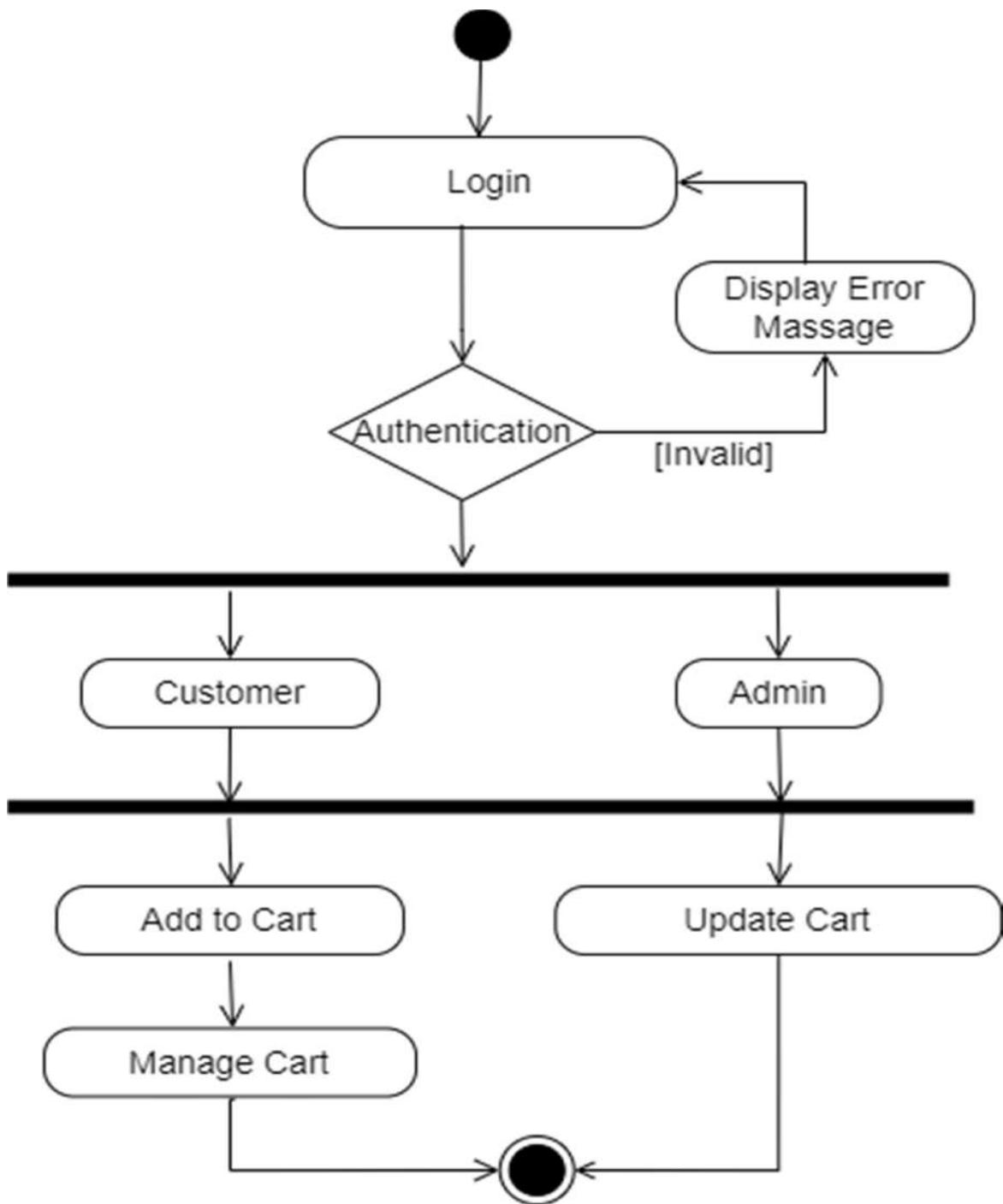
- ACTIVITY DIAGRAM OF PROFILE



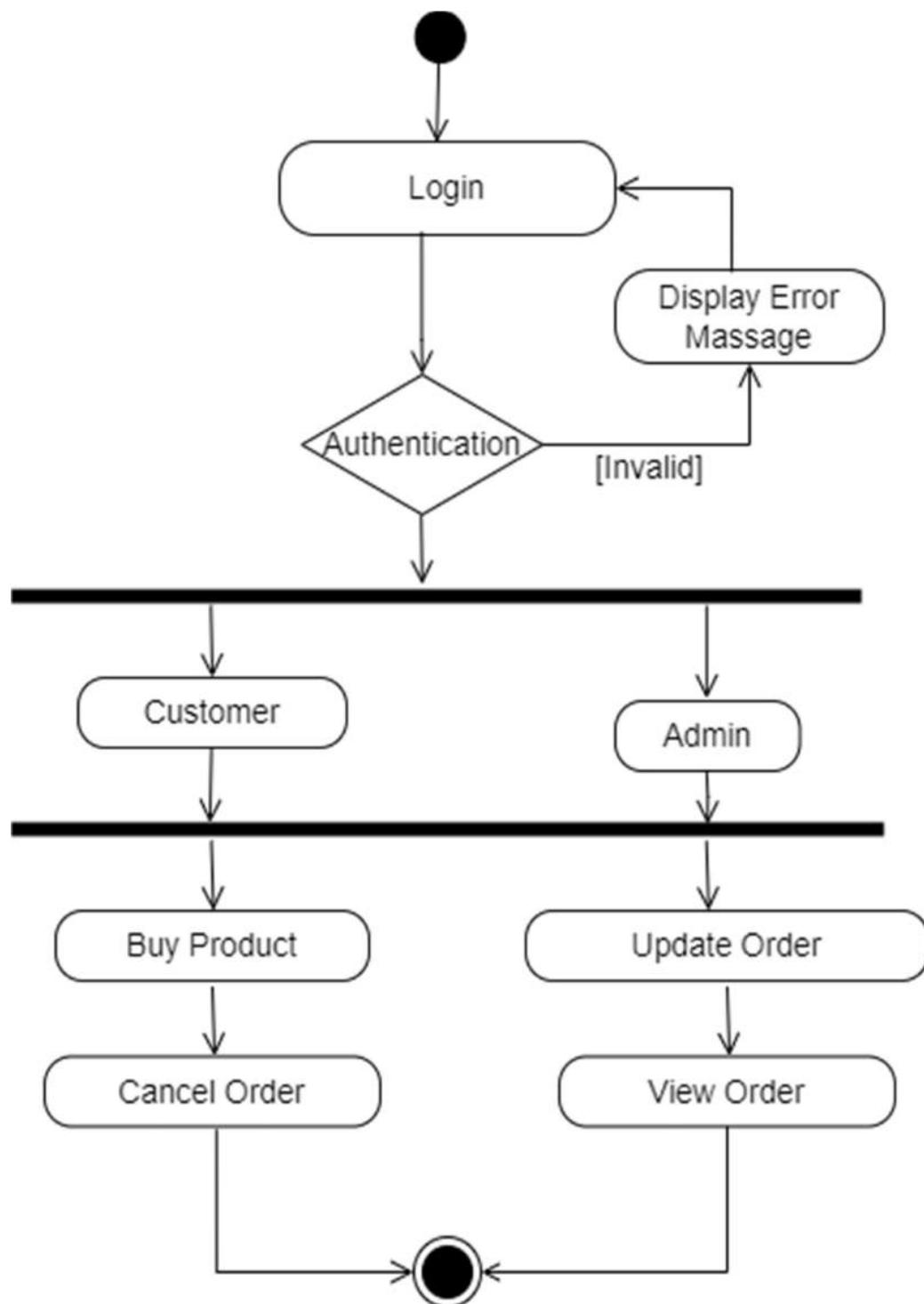
▪ ACTIVITY DIAGRAM OF PRODUCT MODULE



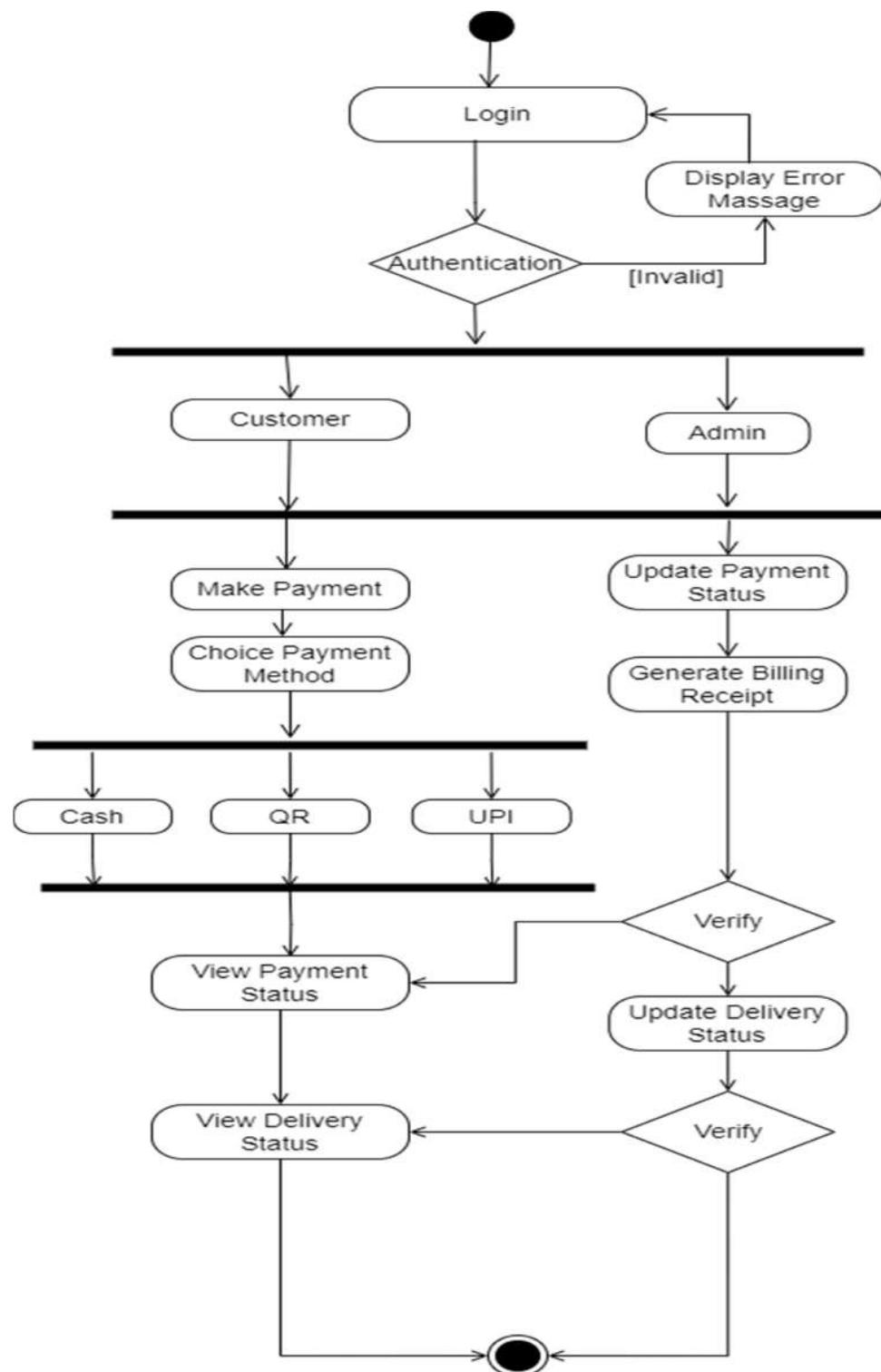
- ACTIVITY DIAGRAM OF CART MODULE



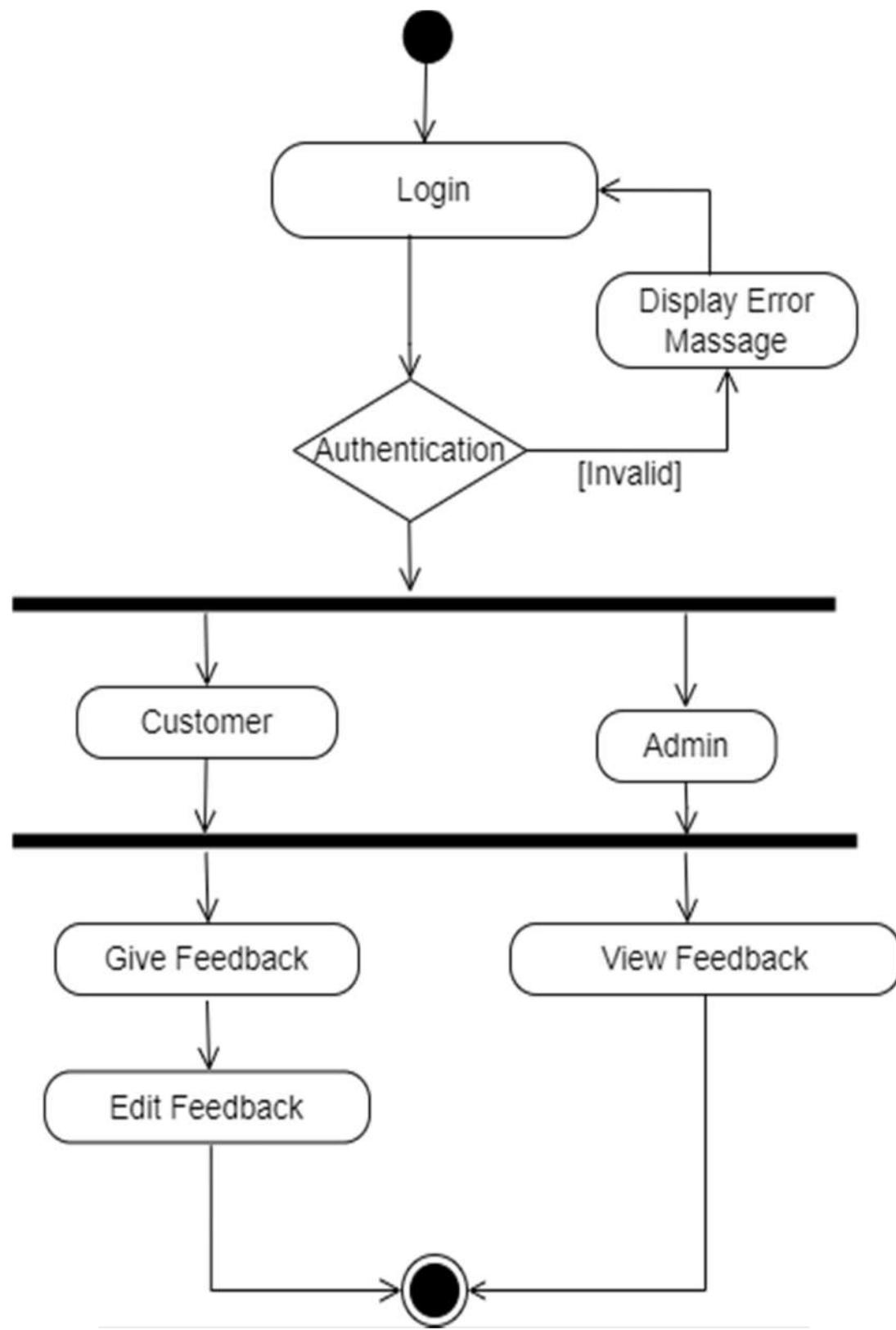
- ACTIVITY DIAGRAM OF ORDER MODULE



▪ ACTIVITY DIAGRAM OF PAYMENT & DELIVERY MODULE

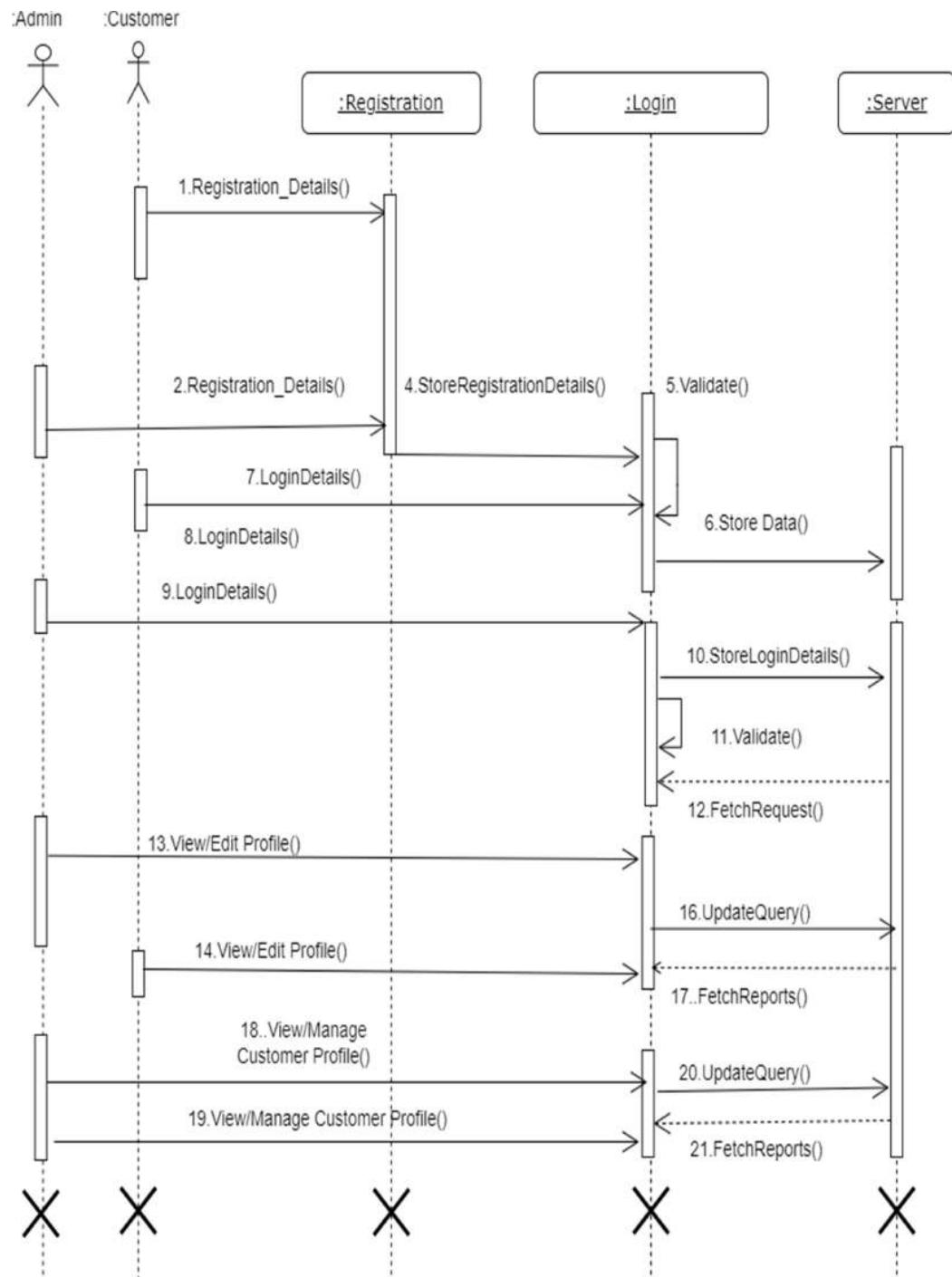


- ACTIVITY DIAGRAM OF FEEDBACK MODULE

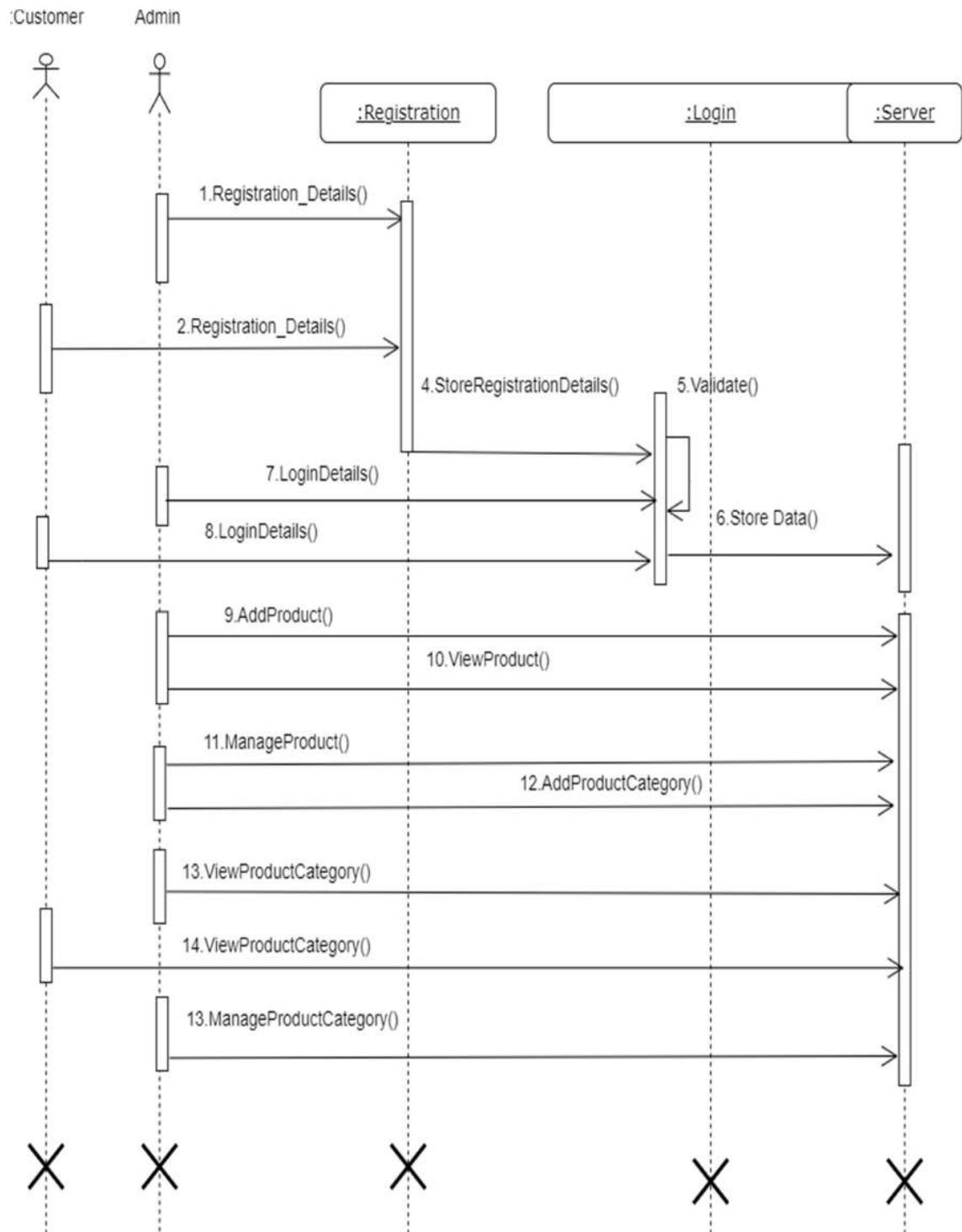


3.8 SEQUENCE DIAGRAM:

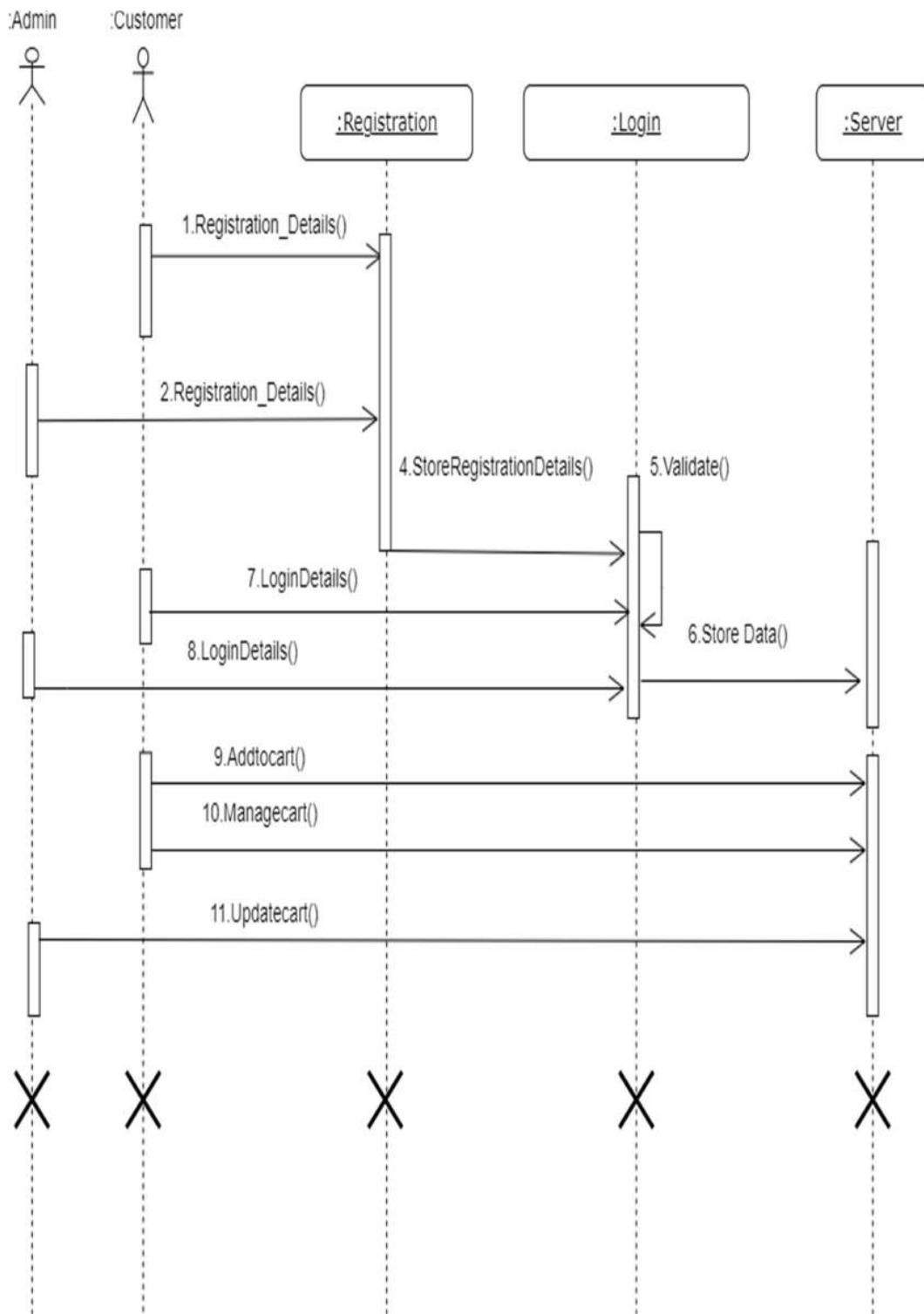
▪ SEQUENCE DIAGRAM OF PROFILE



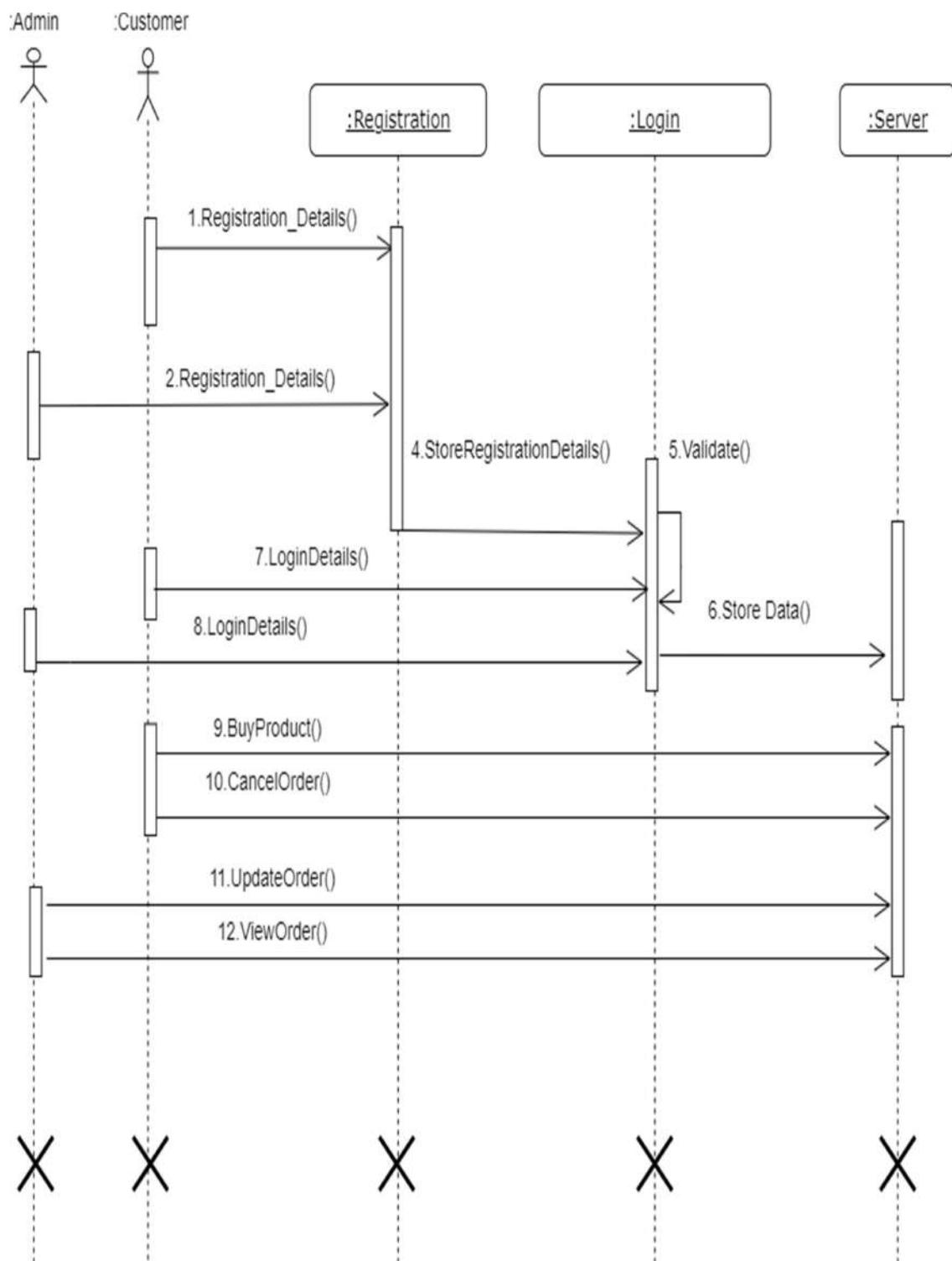
▪ SEQUENCE DIAGRAM OF PRODUCT MODULE



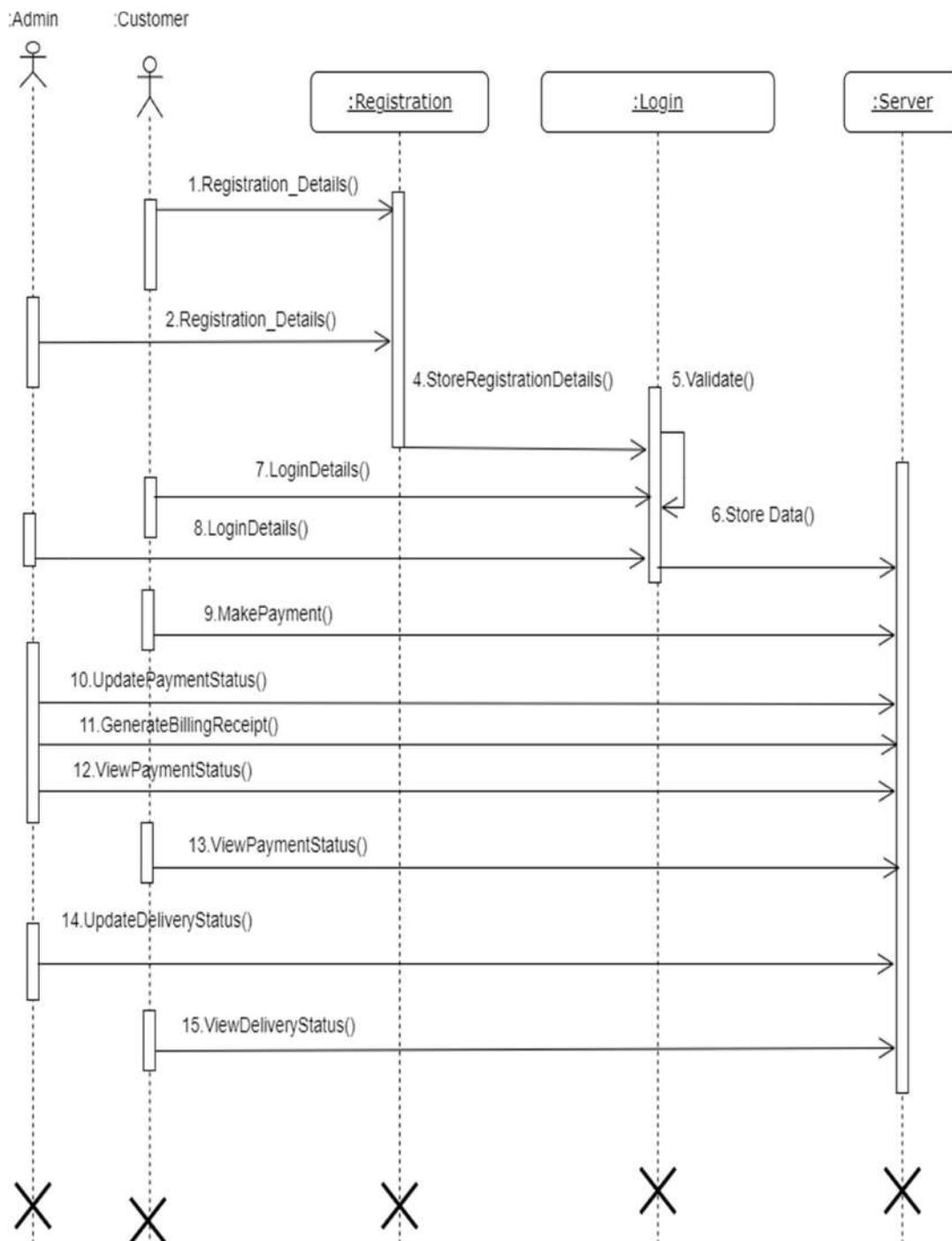
▪ SEQUENCE DIAGRAM OF CART MODULE



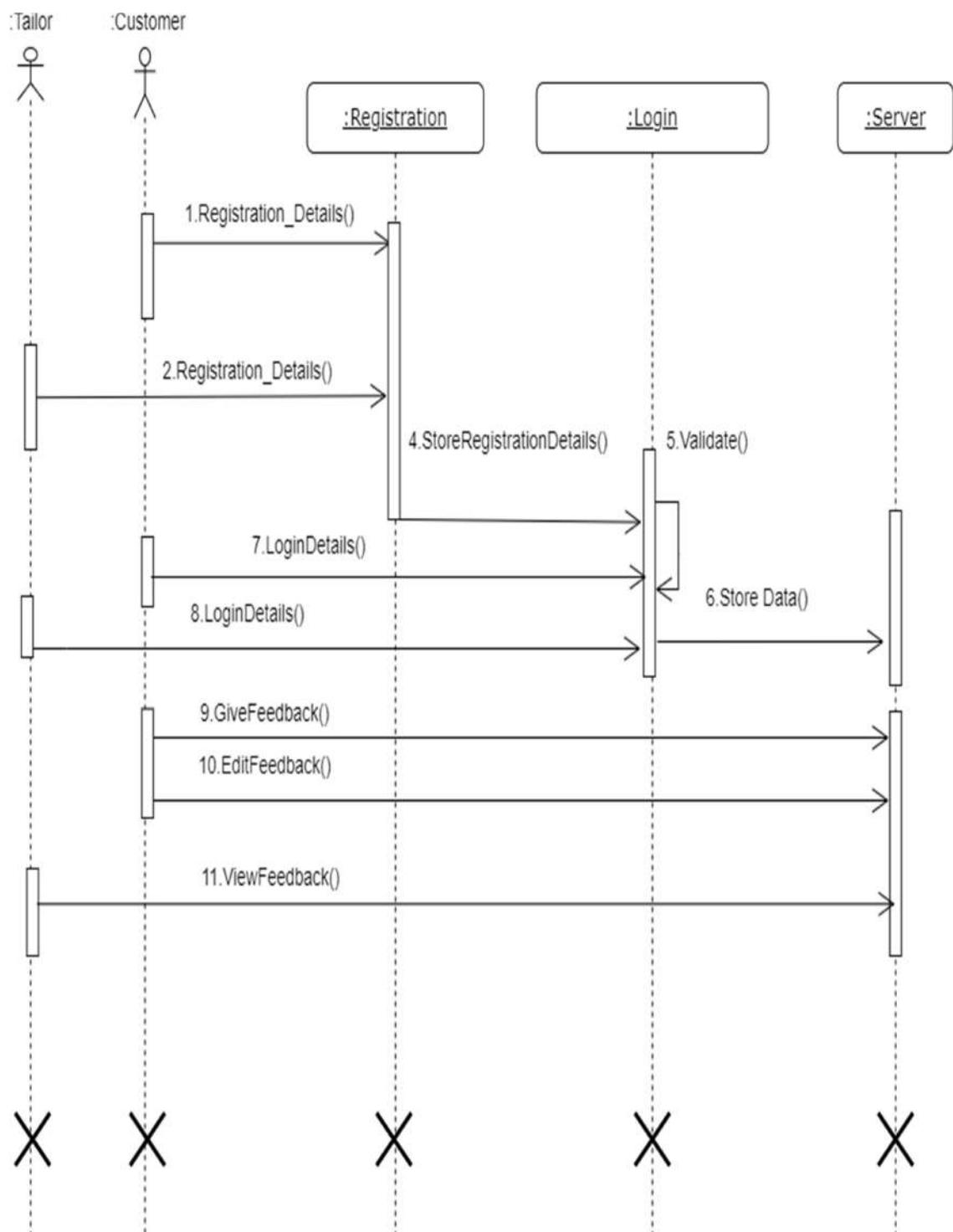
▪ SEQUENCE DIAGRAM OF ORDER MODULE



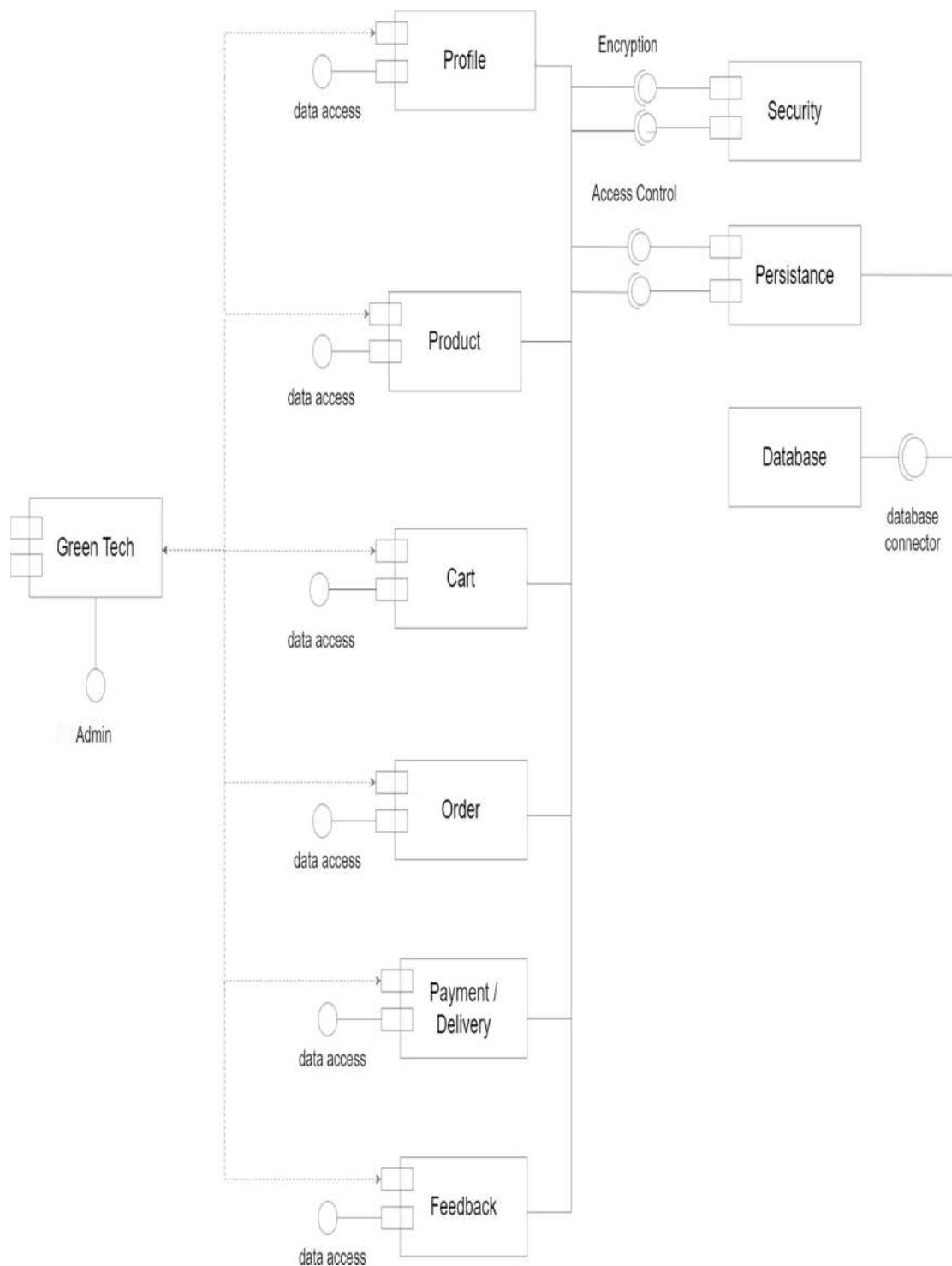
▪ SEQUENCE DIAGRAM OF PAYMENT & DELIVERY MODULE



▪ SEQUENCE DIAGRAM OF FEEDBACK MODULE

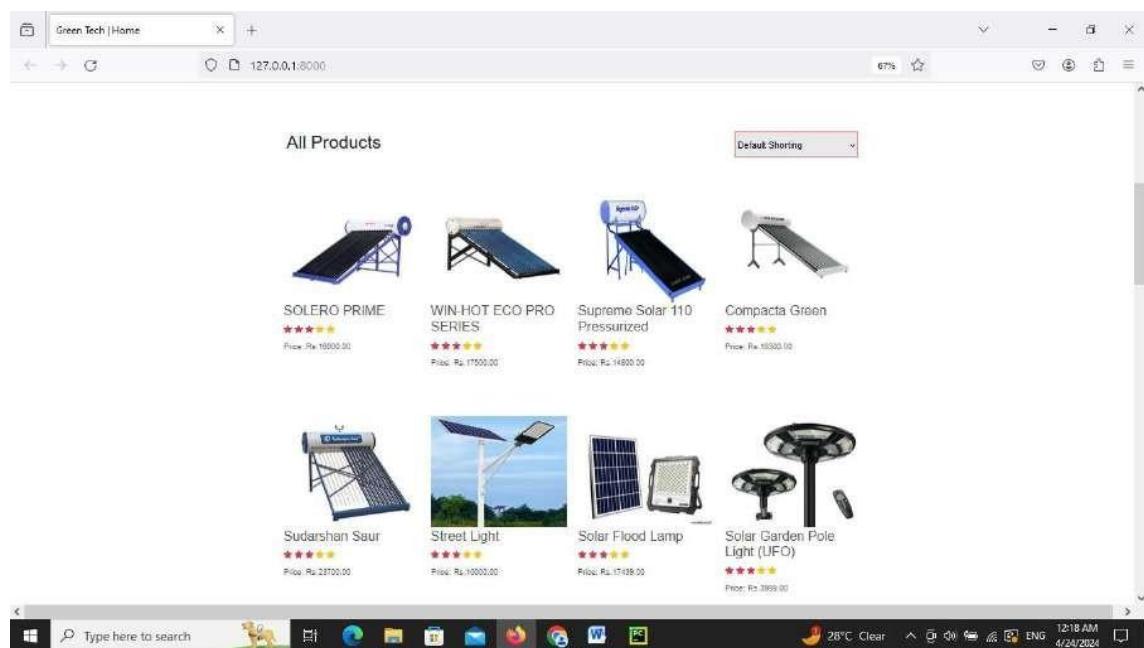


■ **3.9 COMPONENT DIAGRAM:**



■ 3.10 User Input /Output screens with data

Home Page:



3kw Off Grid Solar System
★ ★ ★ ★ ★
Price: Rs.286699.00

2kw Off Grid Solar System
★ ★ ★ ★ ★
Price: Rs.176699.00

[1] [2] [3] [4] [5]

Green Tech Energy
Solar Consult & Design, Solar installation, Solar maintenance and repair, Easy EMU mode, Solar Energy Monitoring, BOS Solar kit Available.

Contact Us
Pebbles Urban - A wing
Flat no 905, Shubham Nagar
Biswulan-413021.
+91 9972114959
prateekchaney27@gmail.com

Site Map
About Us
Admin Login
User Login
Contact Us

Map

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■ Product Page:

Solar Water Heaters

Filters
Low to High
High to Low

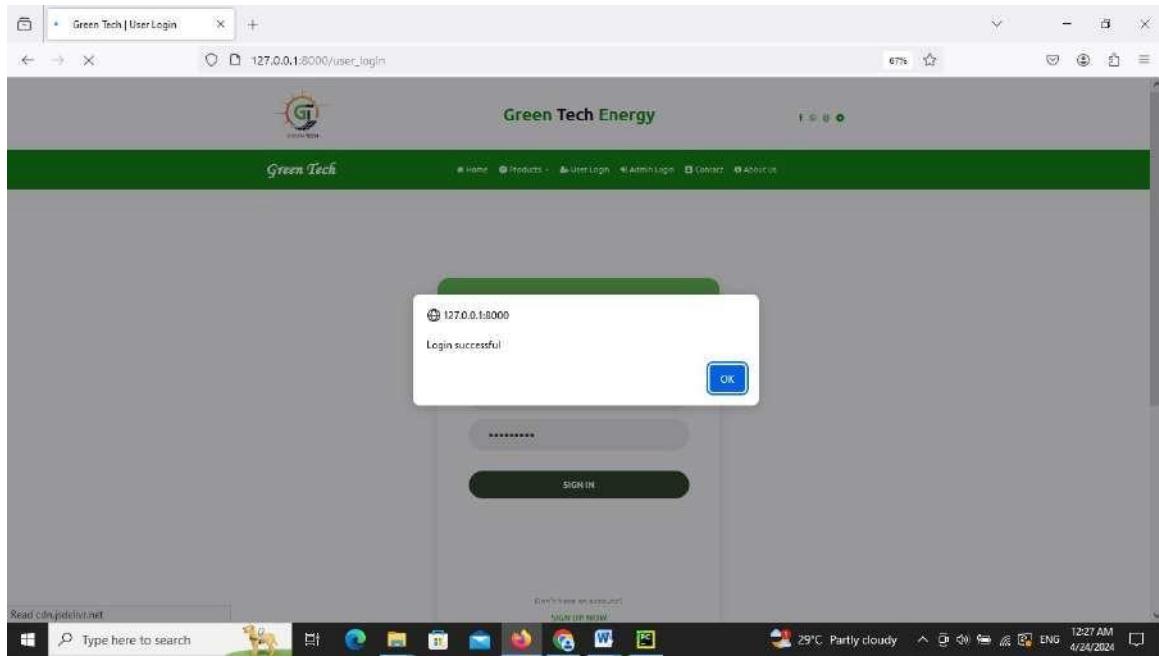
Model	Rating	Price
SOLERO PRIME	★★★★★	Rs. 16000.00
WIN-HOT ECO PRO SERIES	★★★★★	Rs. 17500.00
Supreme Solar 110 Pressurized	★★★★★	Rs. 14800.00
Compaq Green	★★★★★	Rs. 16300.00
Sudarshan Saur	★★★★★	Rs. 23700.00
Solar Water Heating Systems	★★★★★	Rs. 39500.00

■ Product Detail Page:

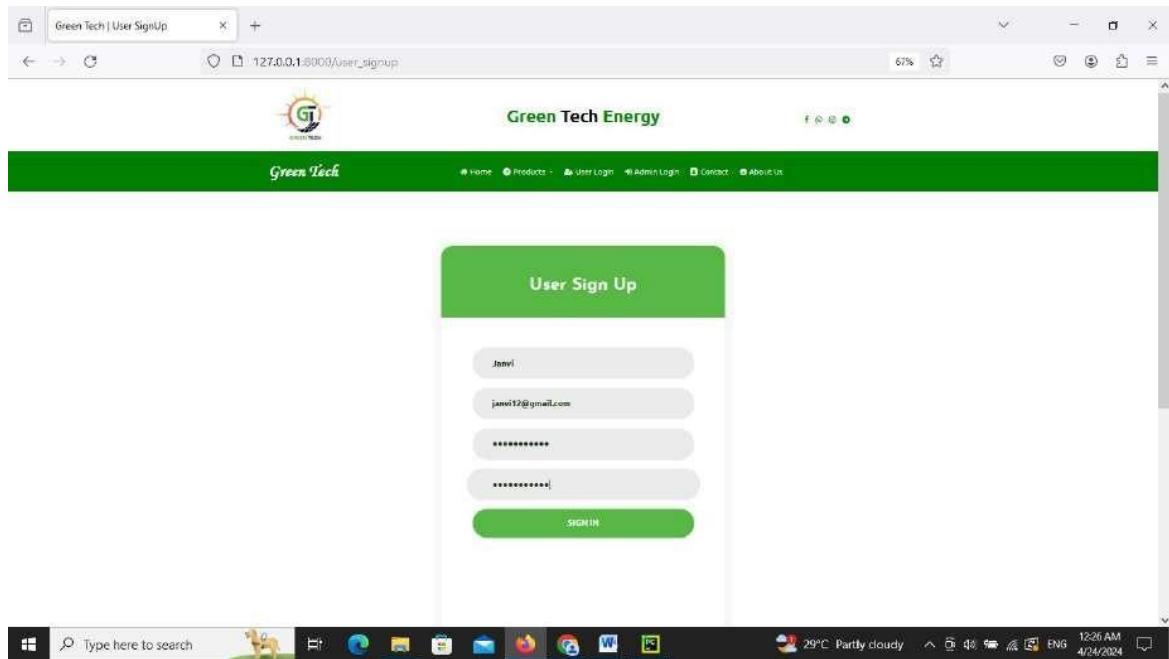
The screenshot shows a web browser window for 'Green Tech | Product Detail' at the URL '127.0.0.1:8000/product-detail/3'. The page features a green header with the logo 'Green Tech' and navigation links for Home, Products, User Login, Admin Login, Contact, and About Us. The main content area displays a large image of a solar water heater, its price (Rs. 17500.00), and a 7-year warranty. A green button at the bottom right says 'LOGIN TO ADD TO CART/BUY NOW'.

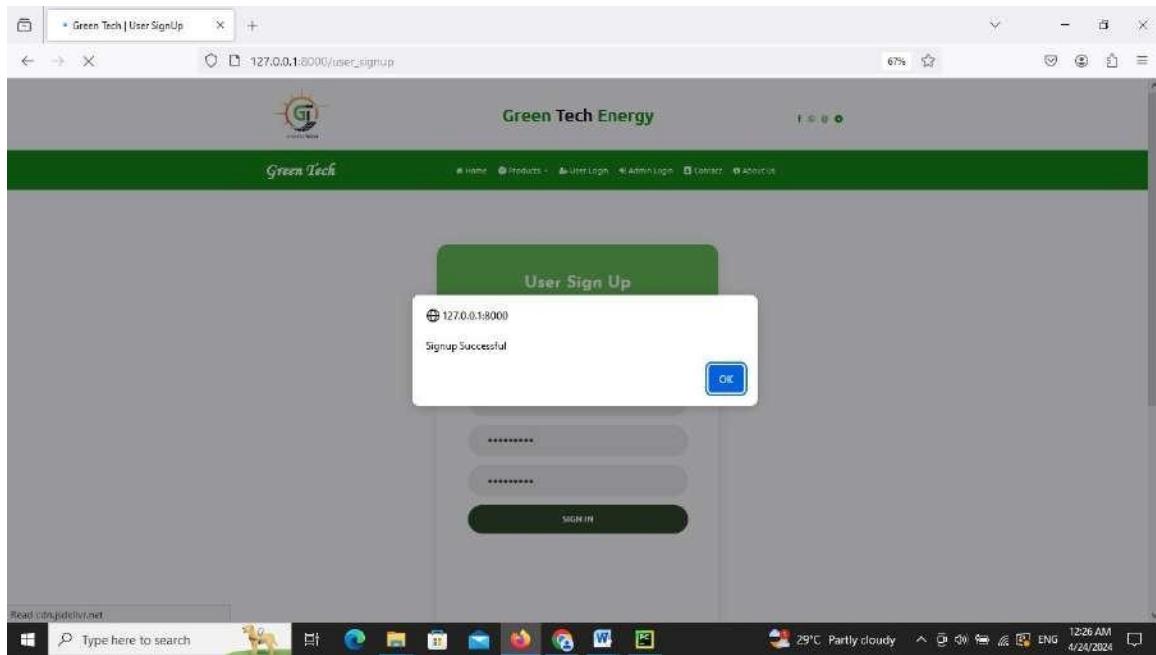
■ User Sign-up

The screenshot shows a web browser window for 'Green Tech | User Login' at the URL '127.0.0.1:8000/user_login'. The page has a green header with the 'Green Tech' logo and navigation links. The main content is a 'User Sign In' form with fields for 'Email' and 'Password', and a 'SIGN IN' button. Below the form is a link 'Don't have an account? SIGN UP NOW'.

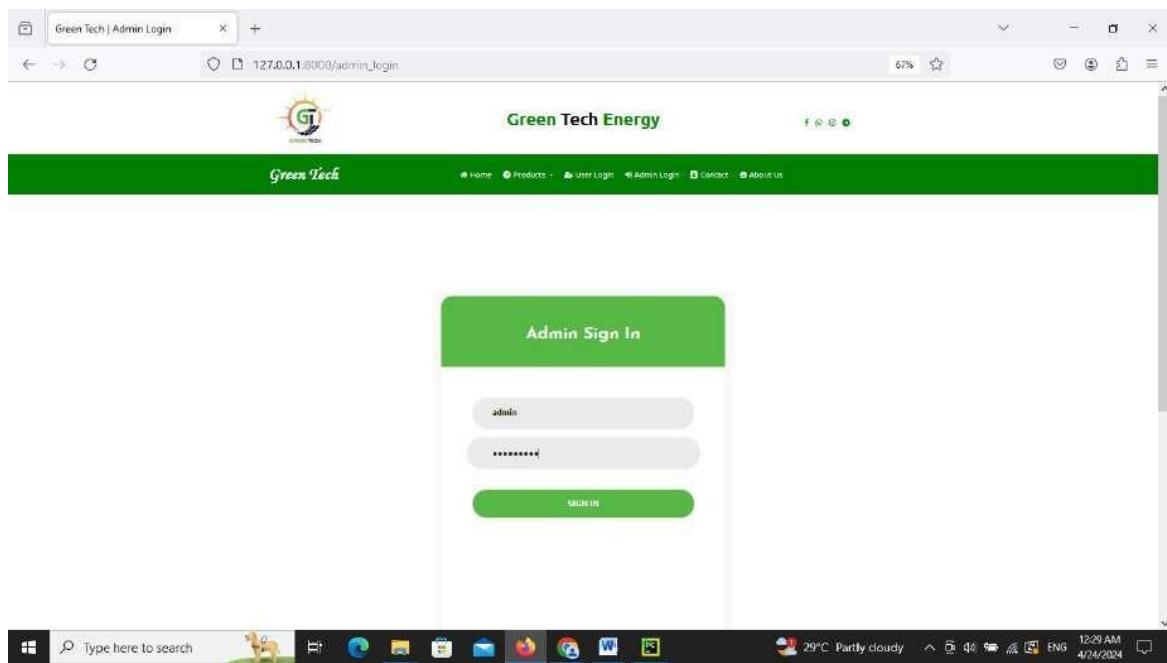


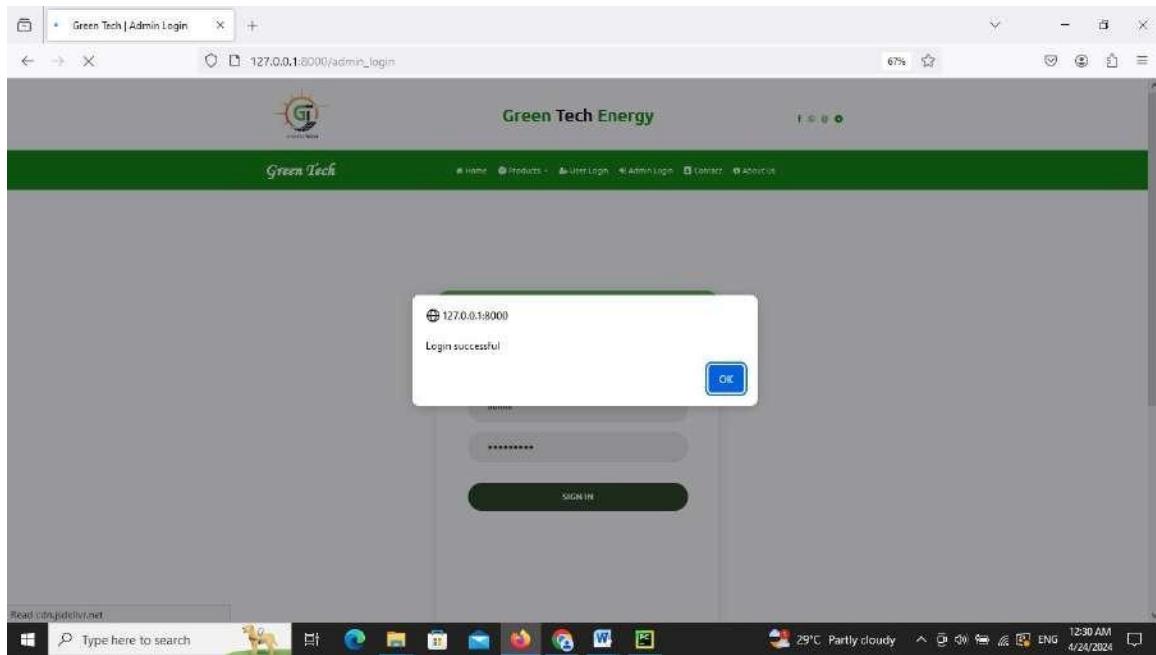
▪ User Sign-up Page:



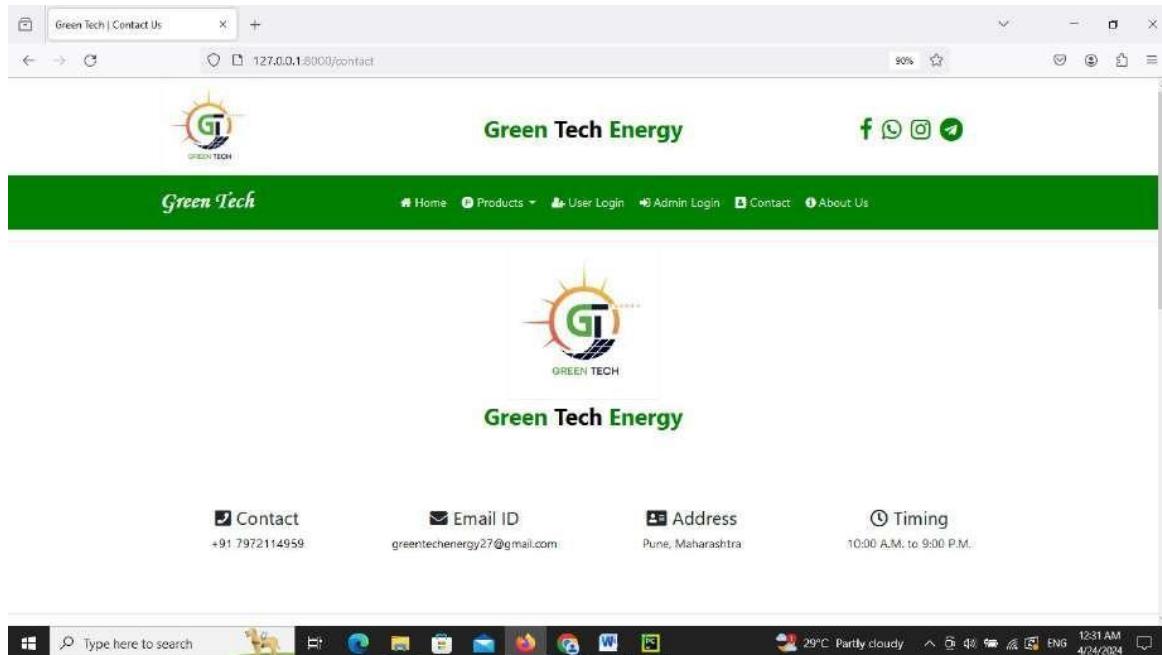


▪ Admin Login Page:





▪ Contact Page:



▪ Enquiry Page:

Enquiry Form

First Name: Janvi **Last Name**: Dhone

Contact Number: 9756858495 **Gender**: Male Female Others

Email ID: janvi12@gmail.com

About: services

Submit



Enquiry Form

First Name: Janvi **Last Name**: Dhone

Contact Number: 9756858495 **Gender**: Male Female Others

Email ID: janvi12@gmail.com

About: services

Submit

Submit Successful **OK**



▪ About us Page:

Welcome to **Green Tech Energy**, where we are on a mission to illuminate the world with sustainable energy solutions. As a premier solar company, we are dedicated to providing cutting-edge solar technologies that empower individuals and businesses to harness the power of the sun for a brighter, cleaner future.

Our Approach

At **Green Tech Energy**, we understand that each solar project is unique. Our personalized approach involves working closely with our clients to design and implement tailor-made solar solutions. From initial consultation to final installation, we

▪ Admin Home Page:

Status	Count
Pending	8
Accepted	5
Delivered	26
Cancelled	2
Total Enquiries	8
Total Users	5
Total Products	26
Total Feedbacks	2
Total Orders	21

▪ View Users Page:

The screenshot shows a web browser window titled "Green Tech | View Users". The URL is "127.0.0.1:8000/admin_view_user". The page header includes the "Green Tech Energy" logo and navigation links for Home, Users, Orders, Enquiry's, Feedback's, Product, Profile, Report, Logout, and Admin: Green Tech. Below the header is a green navigation bar with "Green Tech" and other links. The main content area is titled "User list Report" and contains a table with the following data:

Sr. No.	Full Name	Email ID	Contact	Gender	Action
1	Shubham Bhargeva	shubham@gmail.com	9854895962	Male	<button>Delete</button>
2	Janvi Dhone	janvidhone@gmail.com	9552477356	Female	<button>Delete</button>
3	Sejal Patil	sejal@123gmail.com	9446533158	Female	<button>Delete</button>
4	Janvi Dhone	janvi@gmail.com	9552477356	Others	<button>Delete</button>
5	Jhanvi	jhanvi@gmail.com		None	<button>Delete</button>

At the bottom of the page is a green footer bar with links for Contact Us, Site Map, and Map. The system tray at the bottom right shows the date as April 24, 2024, and the time as 12:39 AM.

▪ View Orders Page:

The screenshot shows a web browser window titled "Green Tech | Admin Order Status". The URL is "127.0.0.1:8000/admin_view_order". The page header includes the "Green Tech Energy" logo and navigation links for Home, Users, Orders, Enquiry's, Feedback's, Product, Profile, Report, Logout, and Admin: Green Tech. Below the header is a green navigation bar with "Green Tech" and other links. The main content area is titled "Orders list Report" and contains a table with the following data:

	Name: Shubham Product: SOLERO PRIME Quantity: 1 Name: Shubham Date: April 22, 2024, 10:25 p.m. Payment_ID: Cash on Delivery Order Status: Pending Change Status: <input type="button" value="Accepted"/> <input type="button" value="Rejected"/>
--	--

At the bottom of the page is a green footer bar with links for Contact Us, Site Map, and Map. The system tray at the bottom right shows the date as April 24, 2024, and the time as 12:39 AM.

▪ View Enquiry Page:

Sr. No.	Full Name	Email ID	Contact	Gender	About
1	Shubham Bhargava	shubham@gmail.com	9468819620	Male	Solar Panel
2	Nilesh Chavan	nilesh@gmail.com	8078625824	Male	Solar Light
3	Rajat Rajput	rajat@gmail.com	9854952478	Male	Services
4	Gaurav Mahawar	gaurav@gmail.com	9856548756	Male	customer care
5	mahima gupta	mahima@gmail.com	9548762549	Female	water heaters
6	rupanshi sharma	rupa@gmail.com	9875265489	Female	Solar Panel
7	Manisha Premani	mani@gmail.com	8459721594	Female	Services
8	Janvi Dhonde	janvi12@gmail.com	9756858495	Female	services

▪ View Feedback Page:

Sr. No.	Full Name	Email ID	Contact	Gender	About
1	Shubham Bhargava	shubham@gmail.com	8078625824	Male	nice product
2	Sejal Patil	sejal@123gmail.com	9446533158	Female	Nice Product

■ Product Dashboard Page:

The screenshot shows a web browser window titled "Green Tech | Product List" with the URL "127.0.0.1:8000/admin_view_product". The page has a green header with the "Green Tech" logo and navigation links for Home, Users, Orders, Enquiry's, Feedback's, Product, Profile, Report, Logout, and Admin. Below the header is a title "Product List Report" with "Add Product" and "Generate PDF" buttons. A table displays product details with columns: Sr. No., Name, Category, Quantity, Description, Image, Price, and Action. The table contains four rows of data.

Sr. No.	Name	Category	Quantity	Description	Image	Price	Action
1	SOLERO PRIME	swh	5	100 L White 7-year warranty on inner tank		16000.00	<button>Edit</button> <button>Delete</button> <button>Print</button>
2	WIN-HOT ECO PRO SERIES	swh	5	200 LPD 7-year warranty on inner tank		12500.00	<button>Edit</button> <button>Delete</button> <button>Print</button>
3	Supreme Solar 110 Pressurized	swh	5	110 LPD / Ltr 2 Years for Tank & 1-year full system		14800.00	<button>Edit</button> <button>Delete</button> <button>Print</button>
4	Compacta	swh	5	250 LPD 5-Years on inner tank		16300.00	<button>Edit</button> <button>Delete</button> <button>Print</button>

■ Admin Profile Page:

The screenshot shows a web browser window titled "Green Tech | Admin Profile" with the URL "127.0.0.1:8000/admin_profile". The page has a green header with the "Green Tech Energy" logo and navigation links for Home, Users, Orders, Enquiry's, Feedback's, Product, Profile, Report, Logout, and Admin. Below the header is a title "Admin Profile" with fields for First Name, Last Name, Contact Number, and Email ID. At the bottom, there are links for Green Tech Energy, Contact Us, Site Map, and Map, along with a footer containing social media icons and a map snippet.

The screenshot shows a web browser window titled "Green Tech | Admin Profile" at the URL "127.0.0.1:8000/admin_profile". The page features a logo for "Green Tech Energy" and a navigation bar with links for Home, Users, Orders, Enquiry's, Feedback's, Product, Profile, Reports, Logout, and Admin: Green Tech. The main content area is titled "Admin Profile". A modal dialog box is displayed, showing the message "Profile Update Successful" with the IP address "127.0.0.1:8000" above it. Below the message are input fields for "First Name" (Admin) and "Contact Number" (7972114959), both of which have dropdown arrows next to them. There is also an email field containing "admin@gmail.com". A green "Submit" button is at the bottom left of the form. The background of the page has a dark green header and footer.

▪ Sales Report Page

The screenshot shows a web browser window titled "Green Tech | Report" at the URL "127.0.0.1:8000/report/". The page has a similar header and navigation bar as the previous screenshot. The main content area is titled "Sales Report". It contains two sections: "Daily Report" and "Monthly Report". The "Daily Report" section displays the message "Total Sales: Rs.None". The "Monthly Report" section includes dropdown menus for "Month" (set to "1") and "Year" (set to "2014"), and a blue "Generate Report" button. The page is styled with a white background and blue headers for the report sections. The footer of the page includes a search bar, a taskbar with various icons, and system status information like weather (29°C Partly cloudy) and date/time (12:42 AM 4/24/2024).

▪ Add Product Page:

The screenshot shows the 'Add Product' form in a web browser. The form fields include Name (Polycrystalline Solar Panel), Price (3400), Rating (3), Category (Solar On Grid), Description (short text about performance), Stock Quantity (5), and an Image input field containing 'sp1.png'. A preview image of a solar panel is shown on the right. A green 'Submit' button is at the bottom.

This screenshot is identical to the one above, but it includes a modal dialog box in the center stating 'Product Add Successful' with an 'OK' button. The rest of the form and interface are the same.

▪ Edit Product Page:

The screenshot shows the 'Edit Product' page for a product named 'SOLERO PRIME'. The product details are as follows:

- Name:** SOLERO PRIME
- Price:** 16000.00
- Rating:** 4
- Category:** Solar Water Heaters
- Description:** 100 L White 7-year warranty on inner tank.
- Stock Quantity:** 5
- Image:** An image of a solar water heater panel is displayed on the right.

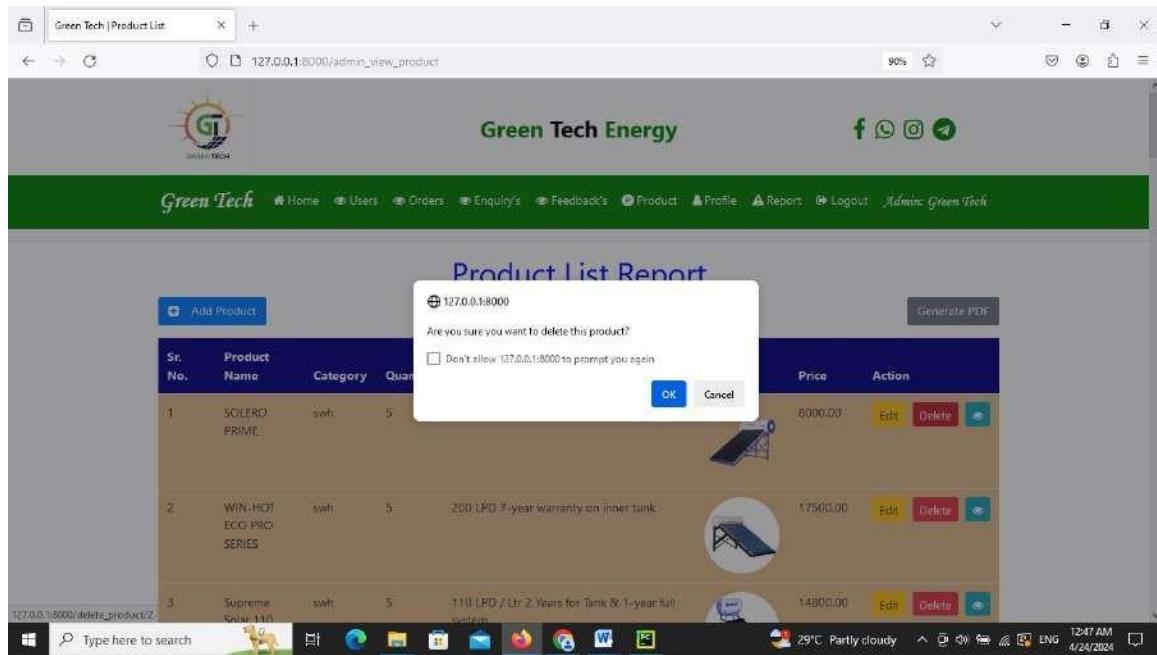
A green 'Submit' button is located at the bottom left of the form. The browser address bar shows the URL: 127.0.0.1:8000/admin_edit_product/2.

The screenshot shows the 'Edit Product' page for a product named 'SOLERO PRIME'. The product details are as follows:

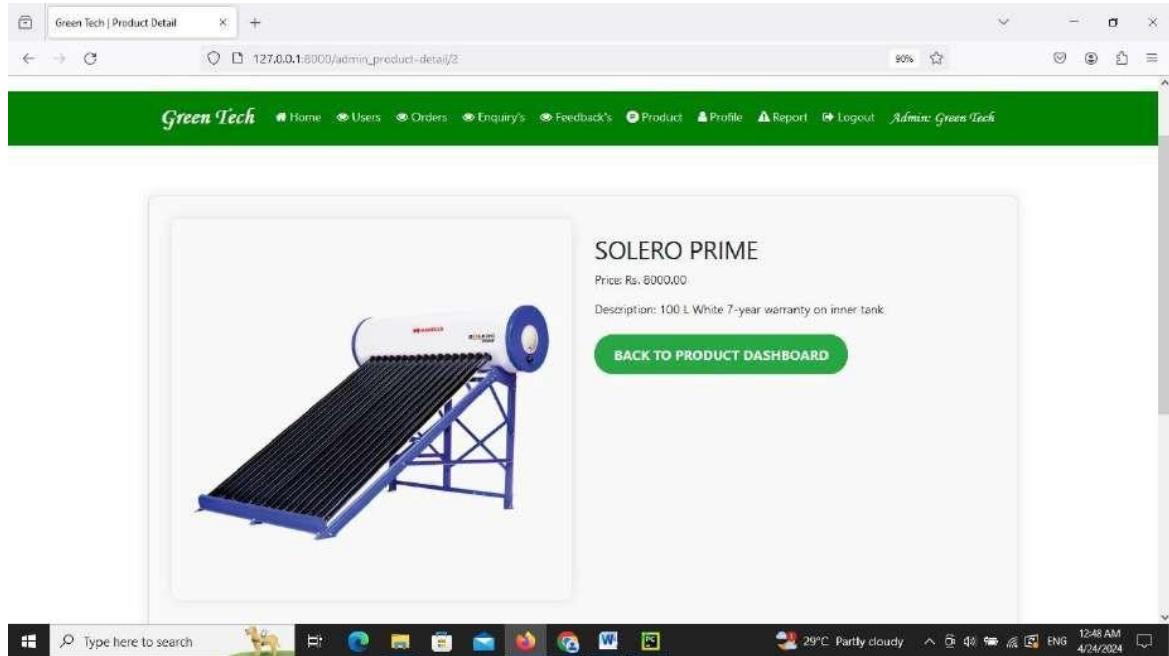
- Name:** SOLERO PRIME
- Price:** 8000.00
- Rating:** 4
- Category:** Solar Water Heaters
- Description:** 100 L White 7-year warranty on inner tank.
- Stock Quantity:** 5
- Image:** An image of a solar water heater panel is displayed on the right.

A modal dialog box is centered on the screen with the message: "Product Edit Successful". A blue 'OK' button is visible in the bottom right corner of the dialog. The browser address bar shows the URL: 127.0.0.1:8000/admin_edit_product/2.

▪ Delete Product



▪ Admin View Product



▪ User Report

Users Report

Company Details

Company Name:	Green Tech Energy
Address:	Pebbles Urbania, Flat no 905, Shidhart Nagar Bavdhan-411021.
Contact:	+91 7972114959

User Details

Name	Email	Contact	Gender
Shubham	shubham@gmail.com	9854859562	Male
Janvi	janvidhonde@gmail.com	9552477356	Female
Sejal	sejal@123gmail.com	9446533158	Female
Janvi	janvi@gmail.com	9552477356	Others
Jhanvi	jhanvi@gmail.com		

▪ Order report

Orders Report

Company Details

Company Name:	Green Tech Energy
Address:	Pebbles Urbania, Flat no 905, Shidhart Nagar Bavdhan-411021.
Contact:	+91 7972114959

Order Details

Name	Product	Quantity	Date	Payment ID	Status
Shubham	WIN-HOT ECO PRO SERIES■	1	2024-04-04	Cash on Delivery	On The Way
Shubham	SOLERO PRIME	1	2024-04-04	pay_NufTrVRzpANs4	Delivered
Shubham	WIN-HOT ECO PRO SERIES■	1	2024-04-05	pay_NunUtObjSmKBwk	Cancelled
Shubham	Street Light	1	2024-04-05	Cash on Delivery	Cancelled
Shubham	Supreme Solar 110 Pressurized■	2	2024-04-05	Cash on Delivery	Cancelled
Shubham	Compacta Green■	2	2024-04-05	Cash on Delivery	Pending
Shubham	SOLERO PRIME	1	2024-04-05	Cash on Delivery	Accepted
Janvi	1KW On-Grid Solar Basic SB1KW	1	2024-04-05	Cash on Delivery	Cancelled
Janvi	Water Pumps	1	2024-04-05	Cash on Delivery	Packed
Janvi	3kw On grid Solar System	1	2024-04-05	Cash on Delivery	Delivered

▪ Enquiry Report

Enquiry Report

Company Details

Company Name:	Green Tech Energy
Address:	Pebbles Urbania, Flat no 905, Shidhart Nagar Bavdhan-411021.
Contact:	+91 7972114959

Enquiries Detail

Name	Email	Contact	Gender	About
Shubham Bhargava	shubham@gmail.com	9468819620	Male	Solar Panel
Nilesh Chavan	nilesh@gmail.com	8078625824	Male	Solar Light
Rajat Rajput	rajat@gmail.com	9854952478	Male	Services
Gaurav Mahawar	gaurav@gmail.com	9856548756	Male	customer care
mahima gupta	mahima@gmail.com	9548762549	Female	water heaters
rupanshi sharma	rups@gmail.com	9875265489	Female	Solar Panel
Manisha Premani	mani@gmail.com	8459721594	Female	Services
Janvi Dhonde	janvi12@gmail.com	9756858495	Female	services

▪ Product Report

Product Report

Company Details

Company Name:	Green Tech Energy
Address:	Pebbles Urbania, Flat no 905, Shidhart Nagar Bavdhan-411021.
Contact:	+91 7972114959

Product Details

Product Name	Category	Quantity	Price	Description
SOLERO PRIME	swh	5	8000.00	100 L White 7-year warranty on inner tank
WIN-HOT ECO PRO SERIES	swh	5	17500.00	200 LPD 7-year warranty on inner tank
Supreme Solar 110 Pressurized	swh	5	14800.00	110 LPD / Ltr 2 Years for Tank & 1-year full system
Compacta Green■	swh	5	16300.00	250 LPD 5-Years on inner tank

▪ Feedback Report

Feedback Report

Company Details

Company Name:	Green Tech Energy
Address:	Pebbles Urbania, Flat no 905, Shidhart Nagar Bawdhan-411021.
Contact:	+91 7972114959

Feedback Detail

Name	Email	Contact	Gender	About
Shubham Bhargava	shubham@gmail.com	8078625824	Male	nice product
Sejal Patil	sejal@123gmail.com	9446533158	Female	Nice Product

▪ Product Detail Page:

The screenshot shows a web browser window displaying the Green Tech Energy website. The URL in the address bar is 127.0.0.1:8080/user_product_detail/2. The page title is "Green Tech Energy". The main content area features a large image of a blue and black "SOLERO PRIME" solar water heater unit. To the right of the image, the product name "SOLERO PRIME" is displayed in bold capital letters, followed by "Price: Rs. 8000.00". Below the price, a description states "Description: 100 L White 7-year warranty on inner tank". At the bottom of the product card, there are two buttons: "ADD TO CART" and "BUY NOW". The browser's taskbar at the bottom shows various open tabs and system icons.

▪ Shopping Cart Page:

Green Tech Energy

Shopping Cart

WIN HOT ECO PRO SERIES - Rs. 17500.00 x 1 + Remove

Price: Rs. 17500.00

Shipping Charges: Rs. 70.00

Total Price: Rs. 17570.00

Place Order

▪ Add Address Page

Welcome Jhanvi

New Address

Existing Address

Add New Address

Full Name
Jhanvi Dhone

Address
Pune

Landmark
SIOM Campus

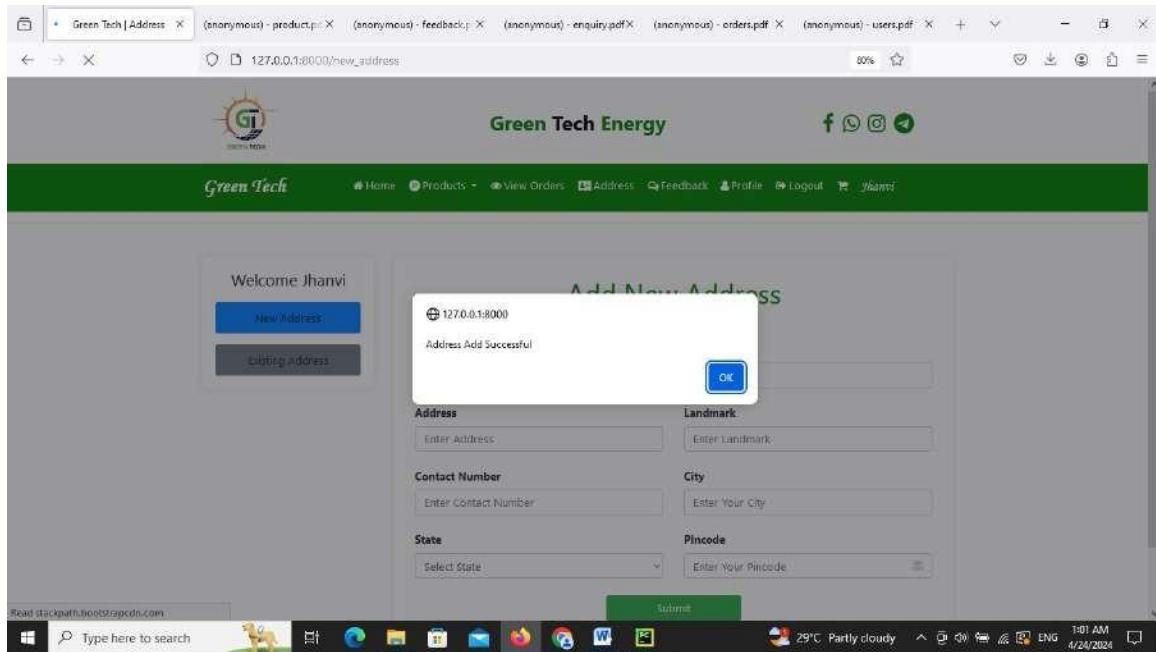
Contact Number
9876345456

City
Pune

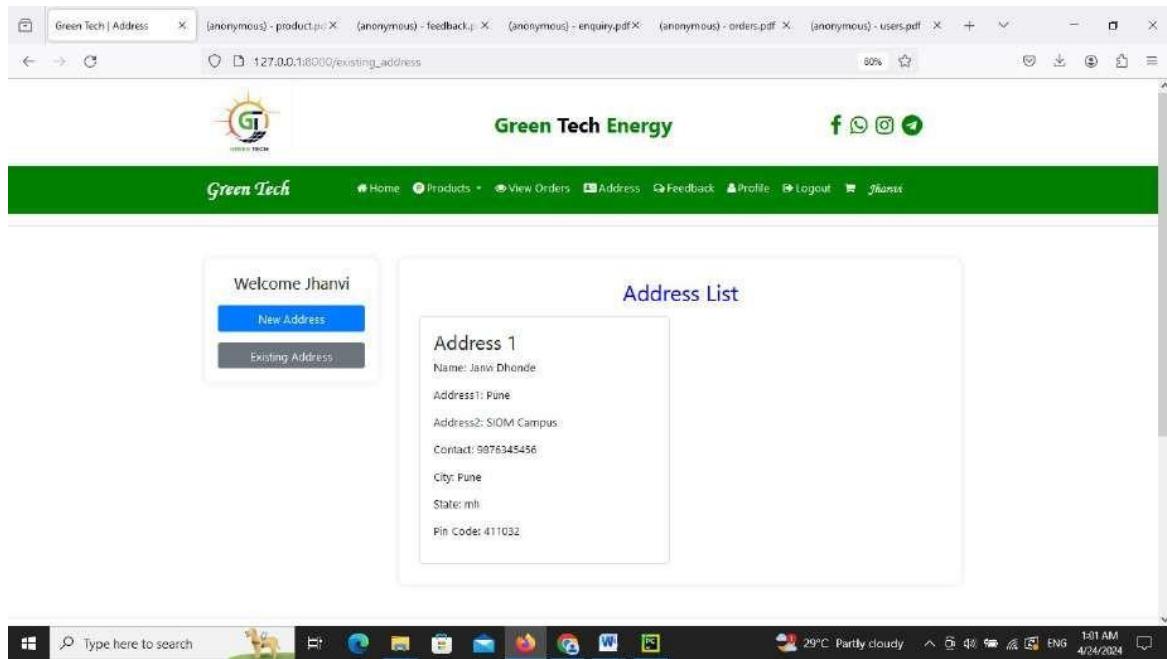
State
Maharashtra

Pincode
411032

Submit



■ Existing Address Page:



▪ Give Feedback Page:

Green Tech | Add Feedback X (anonymous) - product.pdf X (anonymous) - feedback.pdf X (anonymous) - enquiry.pdf X (anonymous) - orders.pdf X (anonymous) - users.pdf X + Y - B X

127.0.0.1:8000/add_feedback

Green Tech Energy

Green Tech Home Products View Orders Address Feedback Profile Logout Janvi

Give Feedback

First Name: Janvi Last Name: Dhornde

Contact Number: 9856754858 Gender: Male Female Others

Email ID: janvi12@gmail.com

About: Nice Services.

Submit

Green Tech | Add Feed X (anonymous) - product.pdf X (anonymous) - feedback.pdf X (anonymous) - enquiry.pdf X (anonymous) - orders.pdf X (anonymous) - users.pdf X + Y - B X

127.0.0.1:8000/add_feedback

Green Tech Energy

Green Tech Home Products View Orders Address Feedback Profile Logout Janvi

Give Feedback

First Name: Janvi

Contact Number: 9856754858

Email ID: janvi12@gmail.com

About: Nice Services.

Submit

Submit Successful

OK

▪ Use Profile Page:

User Profile

First Name: Jhanvi | Last Name: Dhonde

Contact Number: 9864758603 | Email ID: jhanvi@gmail.com

Gender: Female

Submit

Green Tech Energy
Solar Consultant & Design, Solar Installation, Solar maintenance and

Contact Us
Pebbles Urbania - A wing
Flat no 903, Shirdi Nagar

Site Map
Orders

Map

PEBBLES URBA... View larger map

29°C Partly cloudy 10:04 AM ENG 4/24/2024

User Profile

First Name: Jhanvi | Last Name: Dhonde

Contact Number: 9864758603 | Email ID: jhanvi@gmail.com

Gender: Female

Submit

Green Tech Energy
Solar Consultant & Design, Solar Installation, Solar maintenance and

Contact Us
Pebbles Urbania - A wing
Flat no 903, Shirdi Nagar

Site Map
Orders

Map

PEBBLES URBA... View larger map

29°C Partly cloudy 10:04 AM ENG 4/24/2024

▪ Checkout Page:

The screenshot shows a web browser window with multiple tabs open, all titled '(anonymous) - [file type].pdf'. The main content area displays the 'Green Tech Energy' website. At the top, there's a logo with 'GT' and 'GREEN TECH' text, followed by the company name 'Green Tech Energy' and social media links. A green navigation bar contains links for Home, Products, View Orders, Address, Feedback, Profile, Logout, and a placeholder for 'Janvi Dhone'. Below the navigation is a section titled 'Checkout Page'.

Order Summary

Product	Quantity	Price
WIN-HOT ECO PRO SERIES	1	₹ 17500.00
SOLERO PRIME	1	₹ 25,570.00

Select Shipping Address

Janvi Dhone
Pune, SION Campus, 9876543210, Pune, MH - 411032

Address: 1

Payment Options:

- Pay Cash on Delivery
- Pay with Razorpay

The taskbar at the bottom shows various application icons and the system clock indicating 106 AM on 4/24/2024.

▪ Payment Page:

This screenshot shows the same website layout as the previous one, but with a modal window open over the 'Select Shipping Address' section. The modal is titled 'UPI, Cards & More' and lists several payment methods: UPI / QR, Card, EMI from ₹ 1,215.64, Netbanking, Wallet, and Pay Later. It also displays a total amount of ₹ 25,570 and a 'Pay Now' button.

Shipping Address:

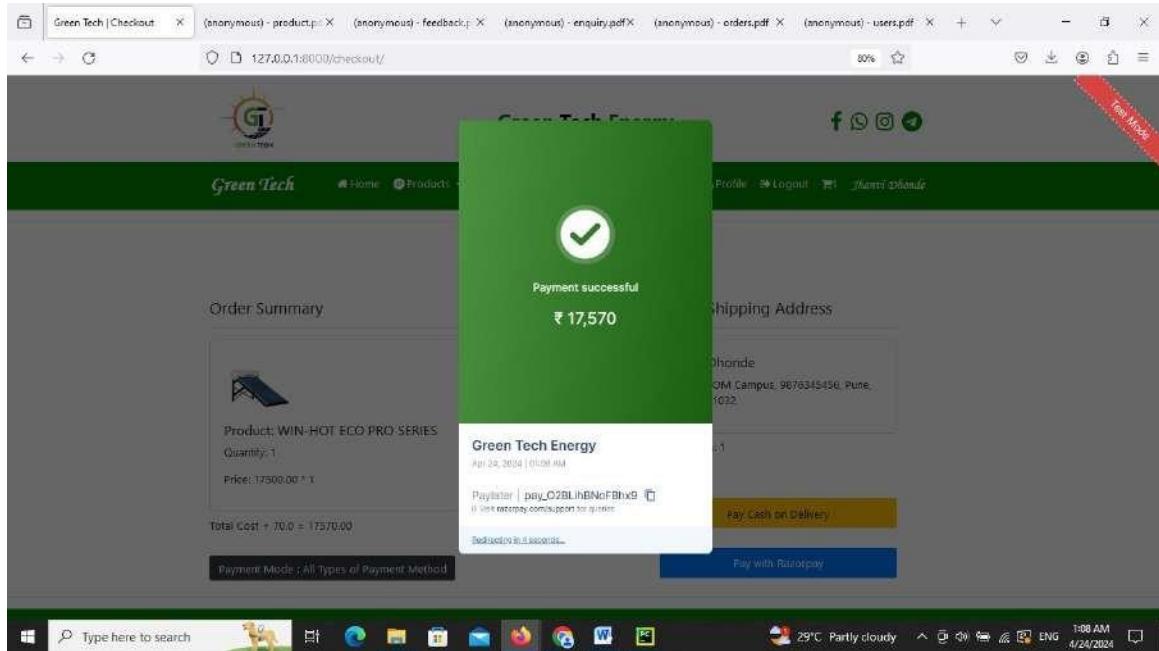
Dhone
SOM Campus, 9876543210, Pune, 411032

Payment Options:

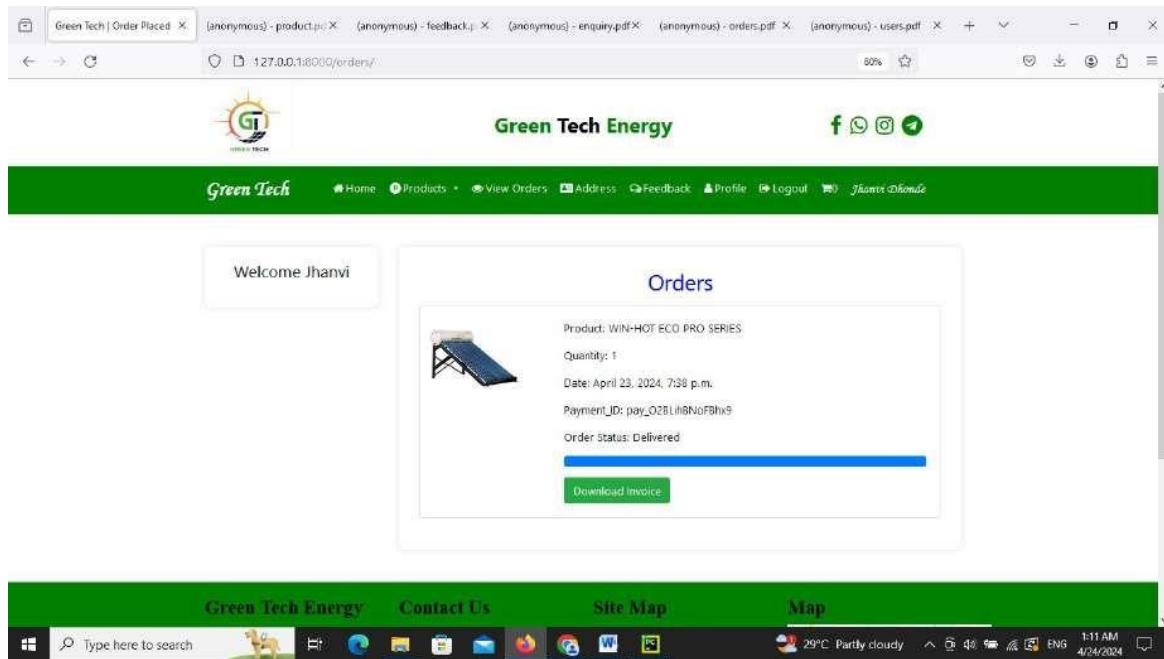
- Pay Cash on Delivery
- Pay with Razorpay

The taskbar at the bottom shows various application icons and the system clock indicating 107 AM on 4/24/2024.

▪ Payment Success Page:



▪ Order Placed Page



- **Invoice**

Invoice

Company Details

Company Name:	Green Tech Energy
Address:	Pebbles Urbania, Flat no 905, Shidhart Nagar Bavdhan-411021.
Contact:	+91 7972114959

Order Details

Invoice for Order #	30
Customer Name:	Jhanvi
Product:	WIN-HOT ECO PRO SERIES■
Quantity:	1
Ordered Date:	2024-04-23
Price per unit:	17500.00
Shipping Amount:	70.00
Total Amount:	17570.00
Payment ID:	pay_O2BLihBNoFBhx9

Thank you for your business!

CHAPTER NO-4

CODING:

4.1) Algorithm

- **Initialization:**

The charging station initializes and starts listening for incoming requests.

- **Request Handling:**

Upon receiving a request from an electric vehicle, the charging station prompts the user to grant necessary permissions (such as location access).

Once permissions are granted, the station proceeds to the next step.

- **Location Data Retrieval:**

The charging station retrieves location data to determine the user's current location and available charging stations nearby.

- **User Interaction:**

The station allows the user to select their current location (source) and desired destination (charging station).

- **Pathfinding Algorithm:**

Utilizing a pathfinding algorithm, such as A* or Dijkstra's algorithm, the charging station finds the shortest route from the user's current location to the selected charging station.

- **Augmented Reality Integration:**

For enhanced navigation, the station may integrate Augmented Reality features to overlay directional cues onto the user's view.

- **Continuous Position Tracking:**

The station continuously tracks the user's position using Android sensors to provide real-time updates on their progress along the route.

- **User Feedback and Error Handling:**

Throughout the charging process, the station implements user feedback mechanisms to address any issues or concerns.

Error handling procedures are in place to handle unexpected events, such as route deviations or technical malfunctions.

4.2) Code snippets:

- **Models.py:** -

```
from django.db import models

from django.contrib.auth.models import User
class Product(models.Model):
    name = models.CharField(max_length=100)
    price = models.DecimalField(max_digits=10, decimal_places=2)
    rating = models.IntegerField(choices=[(i,i) for i in range(1, 6)])
    description = models.TextField()
    category = models.CharField(max_length=100)

    quantity=models.CharField(max_length=10,null=True)
    product_image= models.ImageField(upload_to='product_images/')

    def __str__(self):
        return self.name

class CustomerLogin(models.Model):
    user = models.ForeignKey(User, on_delete = models.CASCADE)
    email = models.CharField(max_length=100)
```

```

contact_number=models.CharField(max_length=15)gender=
models.CharField(max_length=15, null=True) type = models.CharField(max_length=15,
null=True)

def_str_(self):

return self.user.first_name class Enquiry(models.Model):

firstname =models.CharField(max_length=100)lastname=models.CharField(max_length=100)
mobile = models.CharField(max_length=15, null=True) gender
=models.CharField(max_length=10,null=True)mail=models.CharField(max_length=100)
about = models.TextField() creationdate = models.DateField()

def_str__(self): return self.firstname

class AdminProfile(models.Model):

user=models.ForeignKey(User,on_delete=models.CASCADE)contact_number=
models.CharField(max_length=15)
def_str_(self):

return self.user.first_name

class CartItem(models.Model):

user=models.ForeignKey(User,on_delete=models.CASCADE)
product=models.ForeignKey(Product,
on_delete=models.CASCADE)quantity=models.PositiveIntegerField(default=1)

def_str_(self):
return self.user.first_name
class UserAddres(models.Model):

```

```

user=models.ForeignKey(User,on_delete=models.CASCADE)name=
models.CharField(max_length=100)
address1 = models.CharField(max_length=100) address2 =
models.CharField(max_length=100)city= models.CharField(max_length=100)state=
models.CharField(max_length=100)contact= models.CharField(max_length=100)pincode=
models.CharField(max_length=100)

def __str__(self):
    return self.user.first_name

STATUS_CHOICES = (
    ('Accepted','Accepted'),
    ('Packed','Packed'),
    ('On The Way','On The Way'),
    ('Delivered','Delivered'),
    ('Cancel','Cancel')
)

```

- PAYMENT_METHOD_CHOICES = [

```

    ('COD', 'Cash on Delivery'), ('RAZORPAY', 'Pay with Razorpay'),
]class OrderPlaced(models.Model):

```

```
user=models.ForeignKey(User, on_delete=models.CASCADE)
```

```

customer=models.ForeignKey(CustomerLogin, on_delete=models.CASCADE)product=
models.ForeignKey(Product, on_delete=models.CASCADE)
```

```
quantity = models.IntegerField()
```

```

payment_id = models.CharField(max_length=100) ordered_date =
models.DateTimeField(auto_now_add=True) status = models.CharField(max_length=50,
choices=STATUS_CHOICES, default='Pending')
```

```

def __str__(self):
    return self.user.first_name

class Feedback(models.Model):
    firstname=models.CharField(max_length=100)
    lastname =models.CharField(max_length=100)
    mobile = models.CharField(max_length=15, null=True)
    gender
    =models.CharField(max_length=10, null=True)
    mail=models.CharField(max_length=100)
    about = models.TextField()
    creationdate = models.DateField()
    def __str__(self):
        return self.firstname

```

- **Urls.py: -**

```

from django.contrib import admin
from django.urls import path
from core.views import *
from django.conf import settings

from django.conf.urls.static import static

urlpatterns = [
    path('admin/', admin.site.urls),
    path("", index, name="index"),
    path('admin_index', admin_index, name="admin_index"),
    path('admin_login', admin_login, name="admin_login"),
    path('admin_profile', admin_profile, name="admin_profile"),
    path('user_profile', user_profile, name="user_profile"),
    path('admin_view_user', admin_view_user, name="admin_view_user"),
    path('delete_user/<int:pid>', admin_delete_user, name="delete_user"),
    path('delete_product/<int:pid>', admin_delete_product, name="delete_product"),
    path('admin_edit_product/<int:pid>', admin_edit_product, name="admin_edit_product"),
]

```

```

path('admin_view_enquiry',admin_view_enquiry,name="admin_view_enquiry"),
path('view_feedback', view_feedback, name="view_feedback"),path('admin_view_product',
admin_view_product, name="admin_view_product"), path('admin_view_order',
admin_view_order, name="admin_view_order"), path('admin_add_product',
admin_add_product, name="admin_add_product"), path('user_login', user_login,
name="user_login"), path('new_address', new_address, name="new_address"),
path('existing_address',existing_address,name="existing_address"),path('contact', contact,
name="contact"),
path('user_index', user_index, name="user_index"), path('checkout/',
checkout, name='checkout'), path('user_signup', user_signup, name="user_signup"),

path('Logout', Logout, name="Logout"),path('swh', swh, name="swh"),

path('on', on, name="on"),

path('of', of, name="of"),

path('ss', ss, name="ss"),

path('sp', sp, name="sp"),

path('baseswh',baseswh,name="baseswh"),path('baseon',baseon,name="baseon"),path('baseof',
baseof,name="baseof"),path('basess',basess,name="basess"),path('basesp',basesp,
name="basesp"),path('userswh',userswh,name="userswh"),path('useron',useron,name="useron
"),path('userof', userof, name="userof"), path('userss', userss,name="userss"), path('usersp',
usersp, name="usersp"), path('product-detail/<int:pk>', ProductDetail.as_view(),
name='product-detail'),

path('admin_product-detail/<int:pk>', AdminProductDetail.as_view(), name='admin-product-
detail'),path('user_product-detail/<int:pk>', UserProductDetail.as_view(), name='user-product-
detail'),path('add_to_cart/<int:product_id>/',add_to_cart,name='add_to_cart'),
path('remove_from_cart/<int:cart_item_id>/',

```

```
remove_from_cart,name='remove_from_cart'), path('plus_cart/<int:cart_item_id>', plus_cart,
name='plus_cart'),path('minus_cart/<int:cart_item_id>', minus_cart, name='minus_cart'),
path('view_cart/', view_cart,name='view_cart'), path('paymentdone',payment_done,
name='paymentdone'), path('orders/', orders, name='orders'),
path('change_status/<int:oid>',change_status,name='change_status'),  
  
path('cancel_order/<int:oid>', cancel_order, name='cancel_order'),
path('download_invoice/<int:order_id>', download_invoice, name='download_invoice'),
path('add_feedback', add_feedback,name='add_feedback'),
# path('generate_pdf', generate_pdf, name='generate_pdf'),
]+static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
```

- **Views.py:** -

```
from datetime import date from decimal import Decimalfrom django.contrib import messages

from django.shortcuts import get_object_or_404    from django.shortcuts import render, redirect
from django.contrib.auth import authenticate, login, logoutfrom

.models import *

from django.contrib.auth.models import User from django.conf import settings
from django.views.decorators.csrf import csrf_exempt from django.contrib.auth.decorators import login_required from django.views import View
from razorpay import Client

from django.http import JsonResponseimport razorpayfrom django.http import HttpResponseRedirect
from django.template.loader import render_to_string from
django.utils.text import slugify

from reportlab.pdfgen import canvas from django.http import HttpResponseRedirect
def user_index(request):

products = Product.objects.all() category =request.GET.get('category')if category:
products = products.filter(category=category)

d = {'products': products}
return render(request, 'user_index.html', d)

def cancel_order(request,oid): if request.method == 'POST':try:
order=OrderPlaced.objects.get(id=oid)order.status='Cancelled'
order.save()

messages.success(request, 'Order cancelled successfully')return redirect('orders')
except OrderPlaced.DoesNotExist: messages.error(request,
```

```

'Cannot cancel delivered order')return redirect('orders')else:
return redirect('orders')

def admin_edit_product(request, pid):if not request.user.is_authenticated:
return redirect('admin_login')
error = ""

pro = Product.objects.get(id=pid)if request.method == "POST":f = request.POST['pname'] =
request.POST['price'] c = request.POST['rating']
g = request.POST['category']e = request.POST['detail'] a = request.POST['quantity']i =
request.FILES['image']

pro.name = f pro.price = ln pro.rating = c pro.category = gpro.description = e pro.quantity = a
pro.product_image = i

try:

    pro.save() error = "no"except:

        error = "yes"

    d = {'error': error, 'pro': pro}

    return render(request, 'admin_edit_product.html', d)

def checkout(request):

    totalitem = 0
    user = request.user

    add= UserAddress.objects.filter(user=user)cart_items=CartItem.objects.filter(user=user)amount =
    Decimal(0.0) totalamount = Decimal(0.0) shipping_amount = Decimal(70.0) cart_product =
    [p for p in CartItem.objects.all() if p.user == request.user]for p in cart_product:
    tempamount = Decimal(p.quantity) * p.product.priceamount +=tempamount
    totalamount=amount+shipping_amount if request.user.is_authenticated:
    totalitem=len(CartItem.objects.filter(user=request.user))return render(request,
    'checkout.html',{'add': add , 'totalamount':totalamount,'cart_items':cart_items,'totalitem':tota

```

```

litem})def payment_done(request):

if request.method == 'GET':

    payment_id = request.GET.get('payment_id')# Initialize Razorpay client with
    your API key and secret

    client=razorpay.Client(auth=("rzp_test_Kw423PX9hLuGl",
    "R8GatWDvqy75pccVzbHR4LWD"))
    try:

        # Fetch payment details using the payment ID
        payment =client.payment.fetch(payment_id)
        user = request.user

        customer=CustomerLogin.objects.get(user=user)  cart=CartItem.objects.filter(user=user)
        for c in cart:

            OrderPlaced(user=user, customer=customer, product=c.product,
            quantity=c.quantity, payment_id=payment_id, ordered_date=date.today()).save()
            c.delete()
        return redirect("orders")except Exception as e:# Handle exceptions if any

    return HttpResponse("Error processing payment: " + str(e))else:

        # Handle if payment ID is not provided

        return HttpResponse("PaymentID is missing.")elif request.method == 'POST':
        #HandleCashonDelivery payment
        user=request.user
        customer=CustomerLogin.objects.get(user=user)
        cart=CartItem.objects.filter(user=user)
        for c in cart:

            OrderPlaced(user=user, customer=customer, product=c.product,
            quantity=c.quantity, payment_id="CashonDelivery",
            ordered_date=date.today()).save()
            c.delete()
        return redirect("orders")else:

        # Handle if request method is not GET or POST
        return HttpResponse("Invalid request method.")

```

CHAPTER NO-5

TESTING

5.1) Test Strategy:

- A test strategy serves as a roadmap outlining the testing approach within the software development order. It acts as a logical derivation from organizational development objectives to the practical execution of test activities, emphasizing quality assurance. For Green Tech, the impracticality of testing every line of code on every compatible device necessitates a balanced strategy considering test fidelity, speed, and reliability.
- Following code development, the testing phase ensures alignment with gathered requirements. This includes unit testing, integration testing, system testing, and acceptance testing. Unit testing involves the examination of each module individually against predefined test cases. System integration testing combines all modules to assess the system as a whole, ensuring it satisfies all specified test cases. Any failure prompts code modifications, treated as defects or bugs.
- Specific criteria for testing Green Tech include:
 - Proper functioning of all field entries.
 - Activation of pages from identified links.
 - Timely entry screen, messages, and responses without delays.
- This test strategy seeks equilibrium between comprehensive testing and practical considerations, recognizing the need to validate functionality against requirements while addressing constraints of time and resources.

5.2) Unit Test:

Unit testing is integral to the Green Tech project, ensuring the development of high-quality, error-free code. The primary goal is to validate internal program logic and ensure that program inputs consistently produce valid outputs. This involves designing meticulous test cases to cover decision branches and internal code flow accurately. Unit testing occurs after the completion of individual software units, emphasizing the accuracy of internal program logic. The approach involves developing test cases for unique business processes, validating each process according to specifications, and verifying defined inputs and expected results. Deliverables include project-specific unit test cases, detailed results, and documentation addressing any defects. Scheduled post-unit completion, unit testing minimizes external dependencies, enhancing code reliability and identifying potential issues early in the Green Tech development process.

5.3) Acceptance Planning:

Acceptance testing is a crucial pre-delivery phase where the entire system is rigorously tested at the client's site, utilizing real-world data to uncover potential errors. This testing phase includes User Acceptance Test (UAT), often referred to as "Beta testing," conducted within the customer environment. The primary objective is to ensure that the system functions as intended in a real-world setting before it is delivered.

Requirements traceability is a key component, necessitating a meticulous matching of each requirement to a corresponding test case. Every requirement must be validated by at least one test case, and this correlation is visually presented in a matrix format, providing a clear overview of the relationship between requirements and test cases.

This comprehensive approach aims to validate system functionality, identify errors, and confirm user satisfaction, ensuring a robust and reliable system delivery.

5.4 Test Case / Test Script:

TC . No	Test Description / summary	Test Steps/ navigation Steps	Test data	Priority	Expected Result	Actual Result	Status	Remark
1	Verify login for correct Credentials	. Enter Username and Enter Password valid Click on OK button	Username – ****, Password – Raju	P1	Login should be done successfully if username and password are correct	Login Successful	Pass	
2	Verify username field	. Enter username 2. Click on ok button	Username-Raju	P2	Username should accept characters	username is not characters	Fail	Raise Bug
3	Verify password field	Enter password 2.Click on ok button	Password-Raju	P2	Password should accept characters	Password is not characters	Fail	Raise Bug
4	Verify the login page, when the	Click on login button.	NA		Login should not be done	Login is not done successful	Pass	

	username and password both are blank.				successfully if username and password are blank	y if username and password are blank.		
5	Verify if the data in password field is not visible		NA	P1	Data in password Field is not visible	Data in password field is not visible	pass	
6	Verify the time taken to login with a valid username and password.	Enter valid username and password. Click on login button	Username- Raju Password- Raju	P2	Home page should be open in few second after login with a valid username and password	Home page is to be open in few second after login with a valid username and password.	pass	

Sign up Form

TC. No	Test Description	Test Steps	Test Data	Priority	Expected Result	Actual Result	Status
1.	Verify Registration for Correct Credentials	1. Enter Username, email address and passwords 2. Click on Submit Button	Username: Janvi Email: janvi@gmail.com password: anvi@123	P1	Registration should be done successfully if all the validation are correct	Registration Successful	Pass
2.	Verify Username	1. Enter Username 2. Click on Submit Button	Username: Janvi	P2	Username should have characters	Registration Successful	Pass
3.	Verify Email	1. Enter email address 2. Click on Submit Button	Email: janvi@gmail.com	P2	Email should have characters	Registration Successful	Pass
4.	Verify Password	1. Enter passwords 2. Click on Submit Button	password: janvi@123	P2	Password should have characters	Registration Successful	Pass
5.	Verify if password is visible or not	1. Click on submit button	NA	P1	Data in password field are not visible	Data in password field are not visible	Pass

Feedback Form

TC No	Test Description	Test Steps	Test Data	Priority	Expected Result	Actual Result	Status
1.	Verify Feedback for Correct Credentials	1. Enter Name, Mobile, City, State, Pin Code and Descriptions 2. Click on Submit Button	Name: *** Mobile: ** City: **** State: *** Pin code: * Description : ***	P1	Feedback should be done successfully if all the validation are correct	Feedback Submit Successful	Pass
2.	Verify name	Enter name 2. Click on Submit Button	Name: Raju	P2	name should have characters	Feedback Submit Successful	Pass
3.	Verify Mobile	1. Enter Mobile Number 2. Click on Submit Button	Mobile: ***** *	P2	Mobile should have integers	Feedback Submit Successful	Pass
4.	Verify City	1. Enter City name 2. Click on Submit Button	City: Pune	P2	City should have characters	Feedback Submit Successful	Pass
5.	Verify State	1. Enter State name 2. Click on Submit Button	State: Maharashtra	P2	State should have characters	Feedback Submit Successful	Pass

6.	Verify Pin code	1. Enter Pin Code 2. Click on Submit Button	Pin Code: ***** *****	P2	Pin Code should have integers	Feedback Submit Successful	Pass
7.	Verify Description	1. Enter Description 2. Click on Submit Button	Description : ***** *****	P2	Description should have characters	Feedback Submit Successful	Pass

Address form

TC. No	Test Description	Test Steps	Test Data	Priority	Expected Result	Actual Result	Status
1.	Verify Address for Correct Credentials	1. Enter Name, Mobile, City, State, Pin Code and Locality 2. Click on Submit Button	Name: *** Mobile: ** City: **** State: *** Pin code: * Locality: ***	P1	Address should be done successfully if all the validation are correct	Address Submit Successful	Pass
2.	Verify name	Enter name 2. Click on Submit Button	Name: Raju	P2	name should have characters	Address Submit Successful	Pass
3.	Verify Mobile	1. Enter Mobile Number 2. Click on Submit Button	Mobile: * *****	P2	Mobile should have integers	Address Submit Successful	Pass
4.	Verify City	1. Enter City name 2. Click on Submit Button	City: Pune	P2	City should have characters	Address Submit Successful	Pass
5.	Verify State	1. Enter State name 2. Click on Submit Button	State: Maharashtra	P2	State should have characters	Address Submit Successful	Pass

6.	Verify Pin code	1. Enter Pin Code 2. Click on Submit Button	Pin Code: *****	P2	Pin Code should have integers	Address Submit Successful	Pass
7.	Verify Locality	1. Enter Locality 2. Click on Submit Button	Locality: ***** *****	P2	Locality should have characters	Address Submit Successful	Pass

Add Product

Test Case	Description	Test Navigation	Test Data	Priority	Expected Result	Actual Result	Status	Remark
1	Accessing Add Product Page	. Navigate to the add product page.	N/A	P1	The add product page should be displayed.	Add product page displayed	Pass	
2	Adding a New Product	. Navigate to the add product page.	N/A	P1	The add product form should be displayed with fields to enter product details.	Add product form displayed	Pass	
		2. Fill out all required fields with valid product details.	Product name, description , price, etc.					
		3. Click on the "Submit" or "Save" button.						
		4. Wait for the system						

		response.						
3	Verifying Mandatory Field Validation	. Navigate to the add product page.	N/A	P2	The add product form should be displayed with all required fields marked.	Add product form displayed	Pass	
		2. Attempt to submit the form without filling out any mandatory fields.						
		3. Verify if appropriate error messages are displayed for each mandatory field.			Error messages should indicate that mandatory fields are required.	Error messages displayed	Pass	
4	Verifying Product Image	. Navigate to the add	N/A	P1	The user should be able to	Product image	Pass	

	Upload	product page.			upload product image.	upload enabled		
		2. Click on the "Upload Image" or similar button.						
		3. Choose a file from the local system.	Product image file					
		4. Click on the "Upload" or "Save" button.						
		5. Wait for the system response.						
		6. Verify if the product image is uploaded successfully.			Product image should be uploaded.	Product image uploaded	Pass	
5	Verifying Product Category Selection	. Navigate to the add product	N/A	P1	The user should be able to select a product	Product category dropdown enabled	Pass	

		page.			category from a dropdown menu.			
		2. Click on the dropdown menu for product category.						
		3. Select a product category from the dropdown menu.	Product category					
		4. Verify if the selected product category is displayed correctly.			Product category should be displayed correctly.	Product category selected	Pass	

CHAPTER NO-6

LIMITATIONS OF PROPOSED SYSTEM:

- **Limitations of Proposed System:**
- **Security:** Security should be prioritized to ensure robust measures are in place, safeguarding sensitive user data like personal information and payment details from potential breaches or unauthorized access.
- **Scalability:** The system must seamlessly scale to accommodate fluctuations in user traffic and future growth in the user base, ensuring no performance degradation or system crashes during peak times.
- **Mobile App:** Implementing a mobile application could improve user convenience, allowing them to monitor energy usage, receive alerts in a timely manner, and remotely control devices using their smartphones or tablets.
- **Integration with External APIs:** The system should be reconstructed to incorporate external APIs, enabling access to real-time weather data, energy market prices, and government policies. This enhancement would enrich the system's functionality, offering users valuable insights to make informed decisions.
- **Community Engagement Features:** To enhance community participation, collaboration, events calendars, and sustainability challenges should be implemented, fostering the platform's impact and promoting sustainable practices among users.

CHAPTER NO-7

PROPOSED ENHANCEMENTS:

- **Future Enhancement:**

- **Security:** Security measures to safeguard user data, including personal information, payment details, transaction history, will be bolstered. Implementation of end-to-end encryption, adherence to industry standards, and regular security audits are part of the plan.
- **Scalability:** Implementing a scalable architecture using cloud services such as AWS or Azure, integrating load balancing techniques, and leveraging caching mechanisms for efficient resource allocation will enhance scalability to accommodate varying levels of traffic and potential growth in the user base.
- **Mobile App:** Create a mobile app that allows users to track energy consumption get alerts, and remotely manage devices. Design the interface with user-friendly elements, informed by thorough research and usability testing.
- **Integration with External APIs:** We'll integrate external APIs to access real-time weather data, energy market prices, government policies, ensuring users receive the most accurate and up-to-date information.
- **Community Engagement Features:** Launching forums, events calendars, and challenges to boost community engagement in sustainability, encouraging collaboration for a positive environmental impact.

CHAPTER NO-8

CONCLUSION

In general, today's businesses must always strive to create the next best thing that consumers will want because consumers continue to desire their products, services etc. to continuously be better, faster, and cheaper. In this world of new technology, businesses need to accommodate to the new types of consumer needs and trends because it will prove to be vital to their business' success and survival. E-Commerce is continuously progressing and is becoming more and more important to businesses as technology continues to advance and is something that should be taken advantage of and implemented.

CHAPTER NO-9

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- 5) Kumar Naveen
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- WEB REFERENCES':**

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- 2) <https://www.python.org/shell/>
- 3) <https://www.sqlite.org/>
- 4) <https://youtu.be/I6rR3Se72BU>
- 5) www.stackoverflow.com
- 6) www.w3schools.com
- 7) <https://dinarys.com/blog/functional-requirements-for- ecommerce-site>

CHAPTER NO-10



Certificate

Dear **Janvi Dhone**,

To whom so ever It may concern

Welcome to **DataCause Analytics Pvt. Ltd.**

This is to certify Janvi Dhone, has successfully Completed the internship program with **Datacause**.

This is in response to completing Project with **Datacause Analytics pvt.Ltd.**

During the period, 4 months as **Web Developer - Intern Work On Green Tech Energy**.

Your Internship period, Jan 1,2024 and will be completed on June 15 2024.

During this period, we found her sincere and hardworking. Her contribution to project completion will always be appreciated.

We wish her all best for future.

BEST REGARDS,

A handwritten signature in blue ink, appearing to read "Roshani".

Mrs. Roshani Wani



⌚ +91 7389170101 | +91 7389170101

✉️ info@datacause.in | www.datacause.in

CHAPTER NO-11

- APPENDIX – COST SHEET:

Item	Description	Cost (USD)
Domain Name	Registration of domain name (e.g., example.com)	\$3,500
Hosting	Monthly hosting fees for server space	\$1,500/month
Development	Cost of hiring developers for initial website setup	\$18,000
Design	Fees for web design and UI/UX development	\$7,000
Plugins/Extensions	Cost of purchasing or licensing additional features	\$4,000
SSL Certificate	Secure Socket Layer certificate for website security	\$13,000
Maintenance	Ongoing maintenance and support costs	\$12,000/month
Marketing	Budget for marketing and advertising campaigns	\$8,000
Total Cost	Estimated Initial Cost	\$67,000

Total Estimated Cost: \$67,000

- **Total Estimated Cost:** \$67,000

- **Data Sheet :**

- **Platform:** Django
- **Functionality:** E-commerce
- **Purpose:** Facilitate online buying and selling of products
- **Target Audience:** Consumers interested in purchasing products online

- **Key Features:**
- **User registration and authentication:**
 - Secure user sign-up and login functionality
 - Password reset mechanism
 - User profile management
- **Product catalog browsing:**
 - Categorized product listings
 - Product filtering and sorting options
 - Product search functionality
- **Shopping cart functionality:**
 - Add, update, and remove items from the cart
 - Cart subtotal calculation
 - Checkout process
- **Secure payment gateway integration:**
 - Integration with payment processors (e.g., Stripe, PayPal)
 - SSL encryption for secure transactions
- Multiple payment methods support (credit/debit cards, digital wallets, etc.)
- **Order management system:**
 - Order tracking and status updates
 - Invoice generation and order history
 - Customer communication (order confirmation, shipping notifications)

- **User reviews and ratings:**

- Ability for users to leave reviews and ratings for products
- Moderation and management of user-generated content

- **Responsive design for mobile devices:**

- Mobile-friendly layout and interface
- Cross-device compatibility

- **Admin panel:**

- Backend dashboard for site administration
- Product management (add, edit, delete products)
- User management (view, edit, ban users)
- Order management (view, process orders)

- **Technology Stack:**

- Frontend: HTML5, CSS3, JavaScript (jQuery, React, Vue.js)
- Backend: Python (Django framework)
- Database: PostgreSQL, MySQL, SQLite
- Hosting: AWS, DigitalOcean, Heroku, etc.
- Version Control: Git, GitHub, Bitbucket
- Development Tools: VS Code, PyCharm, Sublime Text

- **Data Security Measures:**
 - **Encryption of sensitive data:**
 - Passwords hashed using crypt or similar hashing algorithms
 - Encryption of payment information during transmission
 - **Regular security audits and updates:**
 - Patching known vulnerabilities in software dependencies
 - Monitoring for suspicious activities and intrusion attempts
 - **Compliance with PCI DSS standards for payment processing:**
 - Implementation of necessary security controls to protect cardholder data
 - Regular audits and assessments to maintain compliance
- **Scalability:**
 - Designed to accommodate growth in both user traffic and product inventory through:
 - Horizontal scaling with load balancers and multiple server instances
 - Database sharing or replication for increased read and write throughput
 - Caching mechanisms (e.g., Redis, Memcached) for improved performance

- **Performance:**

- Optimized for fast loading times and seamless user experience through:
- Magnification and compression of static assets (CSS, JavaScript)
- CDN (Content Delivery Network) integration for efficient content distribution
- Lazy loading of images and resources to reduce initial page load times

- **Integration:**

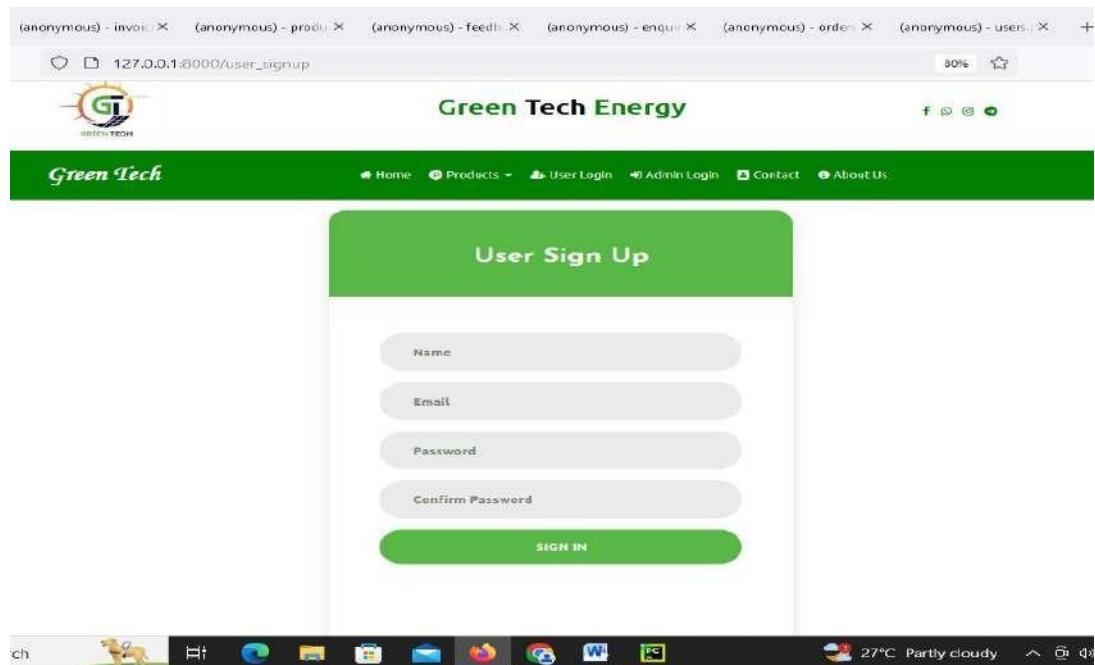
- Ability to integrate with third-party services such as:
- Shipping providers for real-time shipping rates and order fulfillment
- Analytics tools (Google Analytics, Mixpanel) for tracking user behavior and site performance

CHAPTER NO-12

USER MANUAL

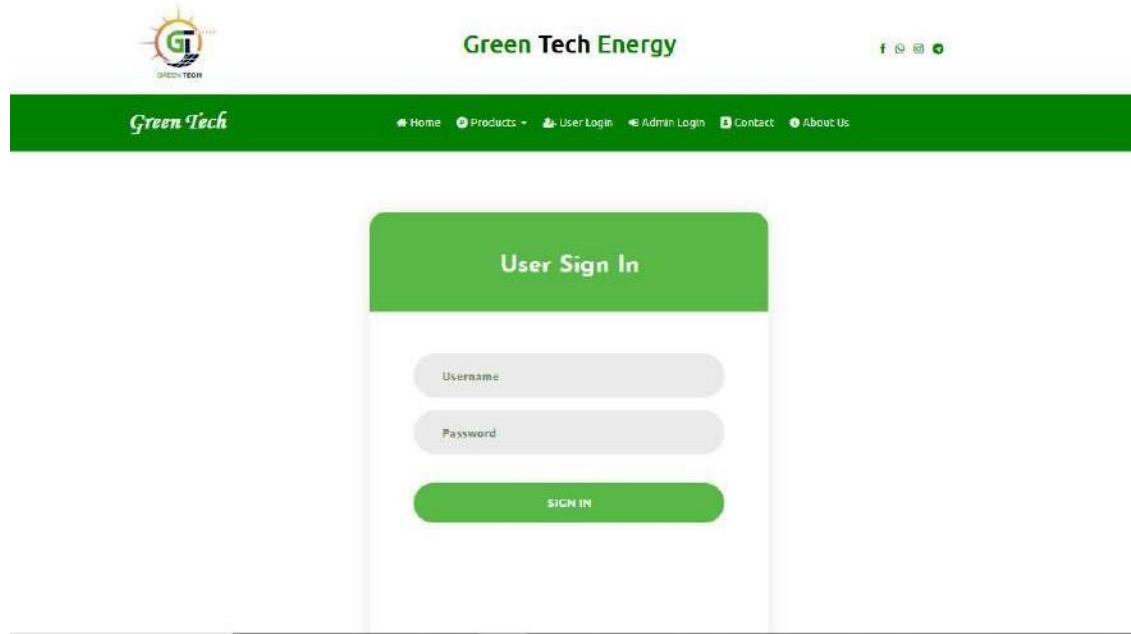
User Manual for Users

- **Sign Up**



- **Step 1: Open the Web Page**
- **Step 2: Click on Sign up Button in the User Login MenuStep**
- **3: Fill the Form**
- **Step 4: After filling the form click on Submit Button**

- **Login**



- **Step 1: Open the Web Page**
- **Step 2: Click on Sign up Button in the User Login MenuStep**
- **3: Fill the Form**
- **Step 4: After filling the form click on Submit Button. It pops you success page**

- **Products**

Green Tech Home Products View Orders Address Feedback Profile Logout *Manvi Dhadke*

Solar Water Heaters

Filters

Low to High
High to Low

SOLERO PRIME
★★★★★
Rs. 8000.00

WIN-HOT ECO PRO SERIES
★★★★★
Rs. 17500.00

Supreme Solar 110 Pressurized
★★★★★
Rs. 14800.00

Compacta Green
★★★★★

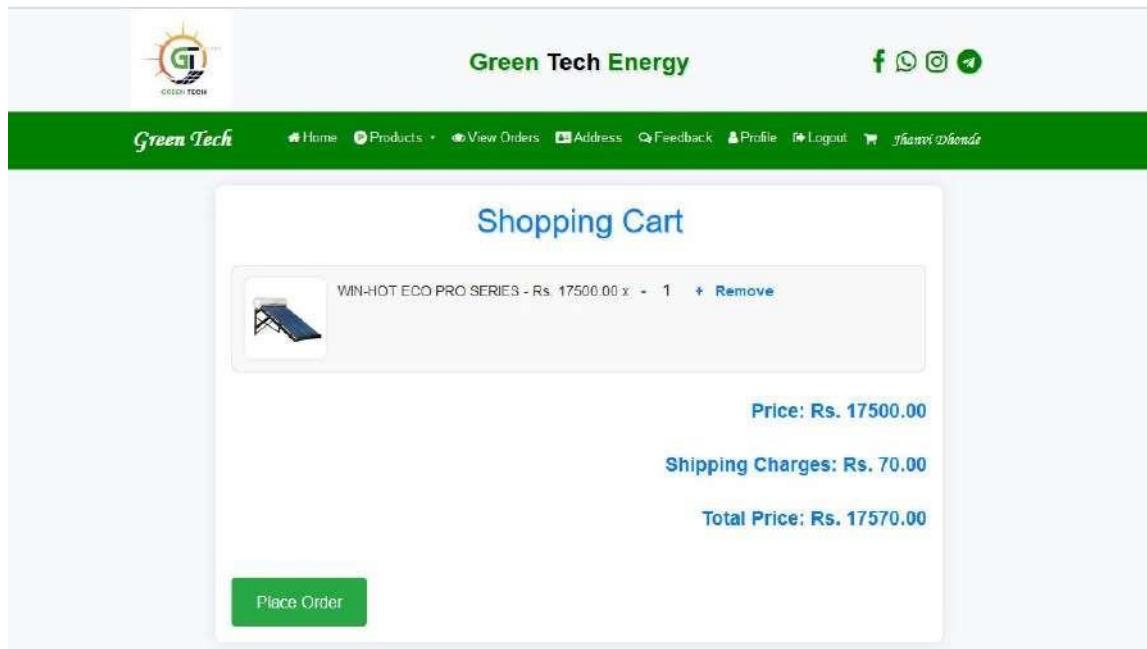
Sudarshan Saur
★★★★★

Solar Water Heating Systems
★★★★★

[View product detail/2](#)

- **Step 1:** After Login go to the product page to purchaseany product
- **Step 2:** Choose Product

- **Shopping Cart**



- **Step 1: After Choosing Product it add into shopping CartStep**
- **2: Press the place order button for the further process**

- **Checkout**

The screenshot shows the Green Tech Energy website's checkout process. At the top, there is a header with the logo 'Green Tech Energy' and social media links (Facebook, Twitter, Instagram, YouTube). Below the header, a green navigation bar includes links for Home, Products, View Orders, Address, Feedback, Profile, Logout, and a user icon labeled 'Janvi Dhone'. The main content area is titled 'Checkout Page'. It features two main sections: 'Order Summary' and 'Select Shipping Address'. The 'Order Summary' section displays a product image of a solar panel, the product name 'WIN-HOT ECO PRO SERIES', quantity '1', and price '17500.00 * 1'. It also shows a total cost of '17570.00'. The 'Select Shipping Address' section shows a saved address for 'Janvi Dhone' located in 'Pune, SIOM Campus, 9876345456, Pune, mh - 411032'. There are two buttons at the bottom: 'Pay Cash on Delivery' (yellow) and 'Pay with Razorpay' (blue). At the very bottom, there is a footer with links for 'Green Tech Energy', 'Contact Us', 'Site Map', and 'Map'.

- **Step 1:** After clicking on place order button it redirect to the checkout page
- **Step 2:** Choose your address and payment method

- **Order Place**

The screenshot shows the 'Orders' section of the Green Tech website. At the top, there is a green header bar with the 'Green Tech' logo and navigation links: Home, Products, View Orders, Address, Feedback, Profile, Logout, and a user icon for 'Jhanvi Dhonde'. On the left, a sidebar displays a welcome message: 'Welcome Jhanvi'. The main content area is titled 'Orders' and contains two order entries. Each entry includes a thumbnail image of a solar panel, product details, and a status indicator.

Order Details	Status
Product: WIN-HOT ECO PRO SERIES Quantity: 1 Date: April 23, 2024, 8:07 p.m. Payment ID: Cash on Delivery Order Status: Pending	Pending
Product: WIN-HOT ECO PRO SERIES Quantity: 1 Date: April 23, 2024, 7:38 p.m. Payment ID: pay_O28LihBNcFBhx9 Order Status: Delivered	Delivered

- **Step 1:** After placing order it redirect you to ordercompleted page
- **Step 2:** Here you can download your order invoice

- **Invoice**

Invoice

Company Details

Company Name:	Green Tech Energy
Address:	Pebbles Urbania, Flat no 905, Shidhart Nagar Bavdhan-411021.
Contact:	+91 7972114959

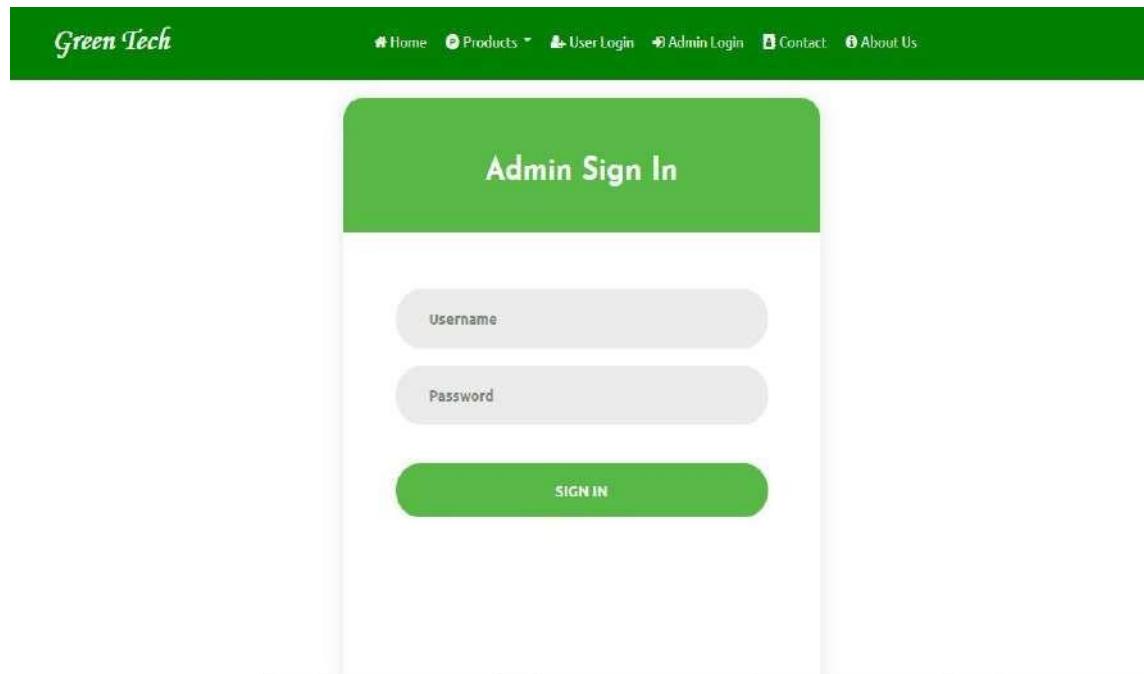
Order Details

Invoice for Order #	30
Customer Name:	Jhanvi
Product:	WIN-HOT ECO PRO SERIES
Quantity:	1
Ordered Date:	2024-04-23
Price per unit:	17500.00
Shipping Amount:	70.00
Total Amount:	17570.00
Payment ID:	pay_O2BLihBNoFBhx9

Thank you for your business!

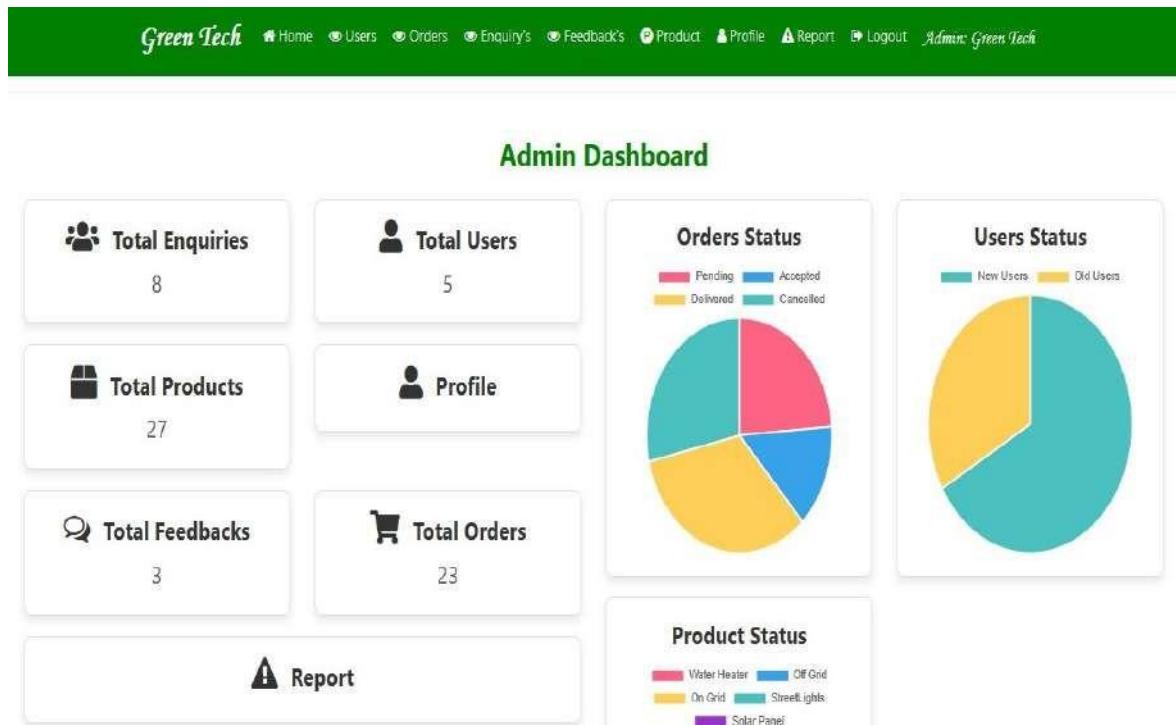
User Manual for Admin

- **Login**



- **Step 1: Open the Web Page**
- **Step 2: Click on Admin Login Button**
- **Step 3: Fill the Sign In Form with Admin Credentials Step**
- **4: After filling the form click on Sign in Button. It pops you success page**

- **Admin Dashboard**



- **Step 1: Access The Admin Dashboard**
- **Step 2: Click on Home Button for Admin Dashboard**

- **Products Report**

Product Report

Company Details

Company Name:	Green Tech Energy
Address:	Pebbles Urbania, Flat no 905, Shidhart Nagar Bavdhan-411021.
Contact:	+91 7972114959

Product Details

Product Name	Category	Quantity	Price	Description
SOLERO PRIME	swh	5	8000.00	100 L White 7-year warranty on inner tank
WIN-HOT ECO PRO SERIES	swh	5	17500.00	200 LPD 7-year warranty on inner tank
Supreme Solar 110 Pressurized	swh	5	14800.00	110 LPD / Ltr 2 Years for Tank & 1-year full system
Compacta Green■	swh	5	16300.00	250 LPD 5-Years on inner tank

- **Step 1: Access The Admin Dashboard**
- **Step 2: Click on Products/Total Products Button for Generating Products Report**

- **User Report**

Users Report

Company Details

Company Name:	Green Tech Energy
Address:	Pebbles Urbania, Flat no 905, Shidhart Nagar Bavdhan-411021.
Contact:	+91 7972114959

User Details

Name	Email	Contact	Gender
Shubham	shubham@gmail.com	9854859562	Male
Janvi	janvidhonde@gmail.com	9552477356	Female
Sejal	sejal@123gmail.com	9446533158	Female
Janvi	janvi@gmail.com	9552477356	Others
Jhanvi	jhanvi@gmail.com		

- **Step 1: Access The Admin Dashboard**
- **Step 2: Click on Users/ Total Users Button for Generating Users Report**

- **Order Report**

Orders Report

Company Details

Company Name:	Green Tech Energy
Address:	Pebbles Urbania, Flat no 905, Shidhart Nagar Bavdhan-411021.
Contact:	+91 7972114959

Order Details

Name	Product	Quantity	Date	Payment ID	Status
Shubham	WIN-HOT ECO PRO SERIES■	1	2024-04-04	Cash on Delivery	On The Way
Shubham	SOLERO PRIME	1	2024-04-04	pay_NufFrVRpANs4	Delivered
Shubham	WIN-HOT ECO PRO SERIES■	1	2024-04-05	pay_NunUtObjSmKBwk	Cancelled
Shubham	Street Light	1	2024-04-05	Cash on Delivery	Cancelled
Shubham	Supreme Solar 110 Pressurized■	2	2024-04-05	Cash on Delivery	Cancelled
Shubham	Compacta Green■	2	2024-04-05	Cash on Delivery	Pending
Shubham	SOLERO PRIME	1	2024-04-05	Cash on Delivery	Accepted
Janvi	1KW On-Grid Solar Basic SB1KW	1	2024-04-05	Cash on Delivery	Cancelled
Janvi	Water Pumps	1	2024-04-05	Cash on Delivery	Packed
Janvi	3kw On grid Solar System	1	2024-04-05	Cash on Delivery	Delivered

- **Step 1: Access The Admin Dashboard**
- **Step 2: Click on Orders/ Total Orders Button for Generating Order Report**

- **Feedback Report**

Feedback Report

Company Details

Company Name:	Green Tech Energy
Address:	Pebbles Urbania, Flat no 905, Shidhart Nagar Bavdhan-411021.
Contact:	+91 7972114959

Feedback Detail

Name	Email	Contact	Gender	About
Shubham Bhargava	shubham@gmail.com	8078625824	Male	nice product
Sejal Patil	sejal@123gmail.com	9446533158	Female	Nice Product

- **Step 1: Access The Admin Dashboard**
- **Step 2: Click on Feedbacks/ Total Feedback Button for Generating Feedback Report**

- **Enquiry Report**

Enquiry Report

Company Details

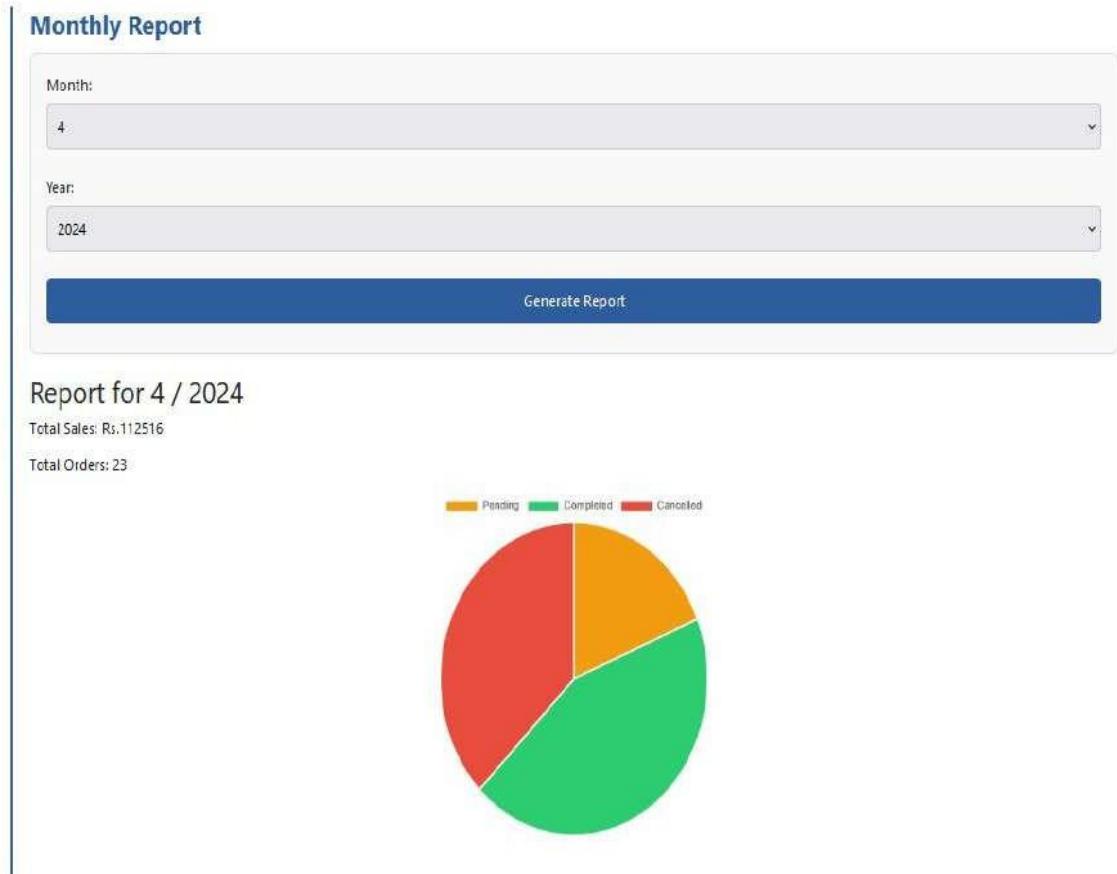
Company Name:	Green Tech Energy
Address:	Pebbles Urbania, Flat no 905, Shidhart Nagar Bavdhan-411021.
Contact:	+91 7972114959

Enquiries Detail

Name	Email	Contact	Gender	About
Shubham Bhargava	shubham@gmail.com	9468819620	Male	Solar Panel
Nilesh Chavan	nilesh@gmail.com	8078625824	Male	Solar Light
Rajat Rajput	rajat@gmail.com	9854952478	Male	Services
Gaurav Mahawar	gaurav@gmail.com	9856548756	Male	customer care
mahima gupta	mahima@gmail.com	9548762549	Female	water heaters
rupanshi sharma	rups@gmail.com	9875265489	Female	Solar Panel
Manisha Premani	mani@gmail.com	8459721594	Female	Services
Janvi Dhonde	janvi12@gmail.com	9756858495	Female	services

- **Step 1: Access The Admin Dashboard**
- **Step 2: Click on Enquiry's/ Total Enquiries Button for Generating Order Report**

- **Monthly Sales Report**



- **Step 1: Access The Admin Dashboard**
- **Step 2: Click on Report Button for Generating SalesReport for Daily Sales, Monthly Sales, Yearly Sales**