

PROJECT REPORT
ON
“Green Bliss”
(A web application)
FOR
GREEN BLISS NURSERY & CERAMICS
IN PARTIAL FULFILLMENT OF
MASTER OF COMPUTER APPLICATION
BY
SHIVANI MUKESH AWATADE
MCA – II, SEM – IV
2022-2023
SUBMITTED TO
SAVITRIBAI PHULE PUNE UNIVERSITY
SINHGAD INSTITUTE OF MANAGEMENT
PUNE-411 041



Sinhgad Institutes

SINHGAD TECHNICAL EDUCATION SOCIETY'S

SINHGAD INSTITUTE OF MANAGEMENT®

Affiliated to Savitribai Phule Pune University, Approved by AICTE, New Delhi

Prof. M. N. Navale

M.E. (ELECT.), MIE, MBA
FOUNDER PRESIDENT

Dr. (Mrs.) Sunanda M. Navale

B.A., MPM, Ph.D
FOUNDER SECRETARY

Dr. Chandrani Singh

MCA, ME, (Com. Sci.), Ph.D
DIRECTOR - MCA

Date:

CERTIFICATE

This is to certify that Miss. Shivani Mukesh Awatade has successfully completed her project work entitled "**“Green Bliss”**" in partial fulfillment of MCA – II SEM –IV Internship Project for the year 2022-2023. 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:

Celebrating 25 Years
OF ACADEMIC EXCELLENCE



Green Bliss Nursery and Ceramics
Bele Wadi, Lohara
Chandrapur (Maharashtra)
Ph. 9545699522, 8956565186

Completion Certificate

Date: June 25th, 2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms. Shivani Awatade** studying in Sinhagad College, Pune has completed the assigned task of development of a website for our nursery, under her internship period of 1st March 2023 to 25th June 2023. She has successfully completed the assignment in stipulated time and has delivered it.

Sincerely,

Prakash Katole

Owner, Green Bliss Nursery and Ceramics

(Chandrapur)

Green Bliss Nursery and Ceramics,
Bele Wadi, Lohara,
Chandrapur (MH)
Ph. 9545699522, 8956565186

ACKNOWLEDGMENT

I have immense pleasure in expressing my sincerest and deepest sense of gratitude towards my guide Dr. Milind Godase for the assistance, valuable guidance and co-operation in carrying out this Project successfully. I have developed this project with the help of Faculty members of my institute and I am extremely grateful to all of them. I also take this opportunity to thank Dr. Chandrani Singh, Director SIOM - MCA, for providing the required facilities in completing this project. I am greatly thankful to my parents, friends and faculty members for their motivation, guidance and help whenever needed.

Thank You,
Shivani Mukesh Awatade

INDEX

Sr. No	Chapter	Page No.
1	CHAPTER 1 : INTRODUCTION	1
	1.1 Client Profile	2
	1.2 Abstract	3
	1.3 Existing System and Need for the system	4-5
	1.4 Scope of System	6
	1.5 Operating Environment- Hardware & Software	7
	1.6 Brief Description of technology used	8-9
2	CHAPTER 2 : PROPOSED SYSTEM	10
	2.1 Feasibility Study	11-12
	2.2 Objectives of the system	13
	2.3 Users of the System	14
3	CHAPTER 3: ANALYSIS & DESIGN	15
	3.1 System Requirements (Functional & Non-functional)	16
	3.2 ERD Diagram	17
	3.3 Table Structure	18-24
	3.4 Use case Diagrams	25-31
	3.5 Class Diagram	32
	3.6 Activity Diagram	33-38
	3.7 Deployment Diagram	39
	3.8 Module Hierarchy	40
	3.9 Sequence Diagram	41-44
	3.10 Component Diagram	45
	3.11 Sample Input and Output Screens	46-65

Sr. No	Chapter	Page No.
4	CHAPTER 4: CODING	66
	4.1 Coding Snippets	67-80
5	CHAPTER 5: TESTING	81
	5.1 Test Strategy	82
	5.2 Unit Test Plan	82
	5.3 Acceptance Testing	82
	5.4 Test Cases	83-91
6	CHAPTER 6: LIMITATIONS OF PROPOSED SYSTEM	92-93
7	CHAPTER 7: PROPOSED ENHANCEMENTS	94-95
8	CHAPTER 8: CONCLUSION	96-97
9	CHAPTER 9: BIBLIOGRAPHY	98-99
10	CHAPTER 10: USER MANUAL	100-120

CHAPTER 1: INTRODUCTION

CHAPTER 1: INTRODUCTION

1.1 Client Profile

Client Name: Green Bliss Nursery and Ceramics

“Green Bliss Nursery and Ceramics” is a local nursery located at Chandrapur, Maharashtra and is owned by Mr. Prakash Katole. He started this nursery in the year 2001 from a promise to deliver ‘green and healthy’ to every customer and has successfully established 22 years of business. The nursery business runs in the family and they have a strong customer base of around 700+ regular customers.

The family is actively into the nursery business. They regularly hold workshops covering various areas like garden decoration, bonsai technique etc. They claim to have provided employment to 100+ people with their business and have held 50+ workshops till date.

The nursery is spread across 30 acres of land near Lohara, Chandrapur where they grow plants as well as vegetables. They cater to all kinds of gardening needs ranging from plants, pots, tools, to curated plant-scaping solutions. They sell products such as flowering-plants, vegetable-plants, seeds, soils, compost & fertilizers (organic), and imported decorative accessories and tools. They also deal in the ceramic’s products and has a partnership with the person with expertise in it. They currently serve only around the Chandrapur district covering all the tehsils.

Along all these 22 years of business they have 60% of repeat customer base and thus have decided to expand their business on the online platform as well. A one-stop-shop for all gardening related requirements, Green Bliss has more than 1000 products available for sale.

1.2 Abstract

“Green Bliss” is a web application introduced with an objective of providing an e-commerce platform for gardening-enthusiasts. It provides a platform for the nursery owner to sell his products like saplings, seeds, fertilizers and other gardening/horticulture equipment. It will ease the efforts for owners as well as the customer and will save their time and efforts. It also eliminate a lot of paper work and make things hassle-free.

This website offers something to every stakeholder in business. From seller to buyer, this app has something for everyone. It is an efficient and comprehensive system that will make your life super convenient and secure. The objective of this project is to reduce human-efforts and save time.

This project is divided into the modules as follows:

- Profile Module: The user's data-privacy is always a priority; and hence to enhance the user experience and keep the user data safe, to be able to modify it, this project includes the profile module for the authentication purpose. The user data is password protected and only can be accessed with valid credentials.
- Product Module: Different products can be viewed according to category. Detailed description can be viewed for an individual product. Tips for product can be viewed.
- Order and Cart module: Products can be added/removed from cart by customers. Addresses can be added/ modified by customers during checkout
- Payment Module: Payment can be generated via card / QR code scanning. The user has to input their card details and the payment will be generated accordingly.
- Ticket Module: Owner and Customer can interact by raising ticket and responding to them.
- Feedback module: Customer can provide owner with feedback message/stars and let them know about their experience with the product.

1.3 Existing system and Need for system

Existing System: The current system is manual. It has a high risk of data loss and includes a lot of paper work and maintenance. The present system does contribute itself to the world but not in all every way. It lacks detailed and accurate information all at one place. One may or may not get the desired part of information as it isn't available at single platform.

The current system lacks convenience. The data isn't saved and maintained properly and the user's feedback isn't taken care of. Many such flaws are needed to overcome to develop an ideal website which will mark its share for making things convenient for users. One can't always be available to visit the nursery personally for resolving their queries or buy new products.

Traditional shopping, as the name suggests, refers to the shopping that the consumer does not do online rather than buy from the shop. Most of the people tend to buy products online nowadays. Although, there are some advantages and disadvantages of traditional shopping.

Making a manual system into computerized system is not an easy task, especially due to the complexity of work it involves. To serve better to customers is the aim of every business, but the present working system doesn't seem to work in a desired manner. Following are the flaws of current system:

- A customer's personal information can be leaked by any one even the owner's irresponsibility so security is not so ensured in manual format.
- Working manually is always hectic and time consuming. If the customer has a complaint regarding certain issue, he/she cannot always physically go regarding it and receiving so many complains at the same time from so many customers is not possible and convenient at the same time.
- Saving and maintaining data with accuracy is a difficult task. The generated bills, sale records, customer data all contribute to a lot of paper work and make things complex to be managed.
- The user has to visit the nursery in person and explore around hundreds of varieties of plants to select the one they desire.
- It costs money to build a physical atmosphere.
- You forget the prices you have seen in the previous shops, so you can't compare them.
- Not all stores and businesses have the exact item for the customers.
- Since you want to see something and visit every store, you are under pressure.
- There is some limited time of when the store is open and shut.

Need for System: A system which will prevent data loss and can be managed easily is required. It will hold data in the database which can be manipulated or viewed easily when required. In order to drive the objective of the project, the system is selected in such a way so that it would satisfy all the requirements of the project. It also helps to get the desired output.

In today's world of technology where every aspect of the life is computerized so that the system used should be efficient and accurate. If we use the old techniques, we can access only a limited amount of data and accuracy of the obtained result isn't assured. A platform which is completely designed for maintaining user data and maintenance statistics is the need of the hour because it will facilitate the users maintaining data of interest.

The new system is required to save resources such as time and manpower, which are valuable in the present scenario of system. The new system helps us handle large database in a smooth manner and also makes the updation of data very easy.

This project will be user friendly. It will provide quick performance application and provide correct output. Accuracy and efficiency is an ordinary function of this project.

Also the traditional method of buying and selling needs to be changed. The task should be done while being at the comfort of home, eliminating the need to physically present at the nursery.

1.4 Scope of System

- **Current System:** Currently this project is designed as web application. It has been developed using Spring Tool Suite using Java. It has currently following features:
 - A standard E-commerce format with modules like cart, online payment, product exploration.
 - User can reach out to support for raising ticket and sending feedback.
 - Admin can update the stock and manage existing products.
 - Admin can analyze sales via admin dashboard and respond to raised tickets conveniently.
- **Future Scope:** The aim of this project is to create an integrated platform for people with gardening hobbies. Apps usually store their data locally on mobile devices, unlike websites that generally use web servers. For this reason, data retrieval happens swiftly in mobile apps. Apps can further save users' time by storing their preferences and taking proactive actions on users' behalf. Hence an Android app can be considered as a future scope for this project. This website can be easily extended with features like:
 - Chat-bots
 - User profile modification
 - User feed
 - Curated blogs and video
 - An Android/iOS application.

1.5 Operating Environment – Hardware and Software

❖ Server side requirement

▪ Hardware Requirements

Processor : Intel Core i3 and onwards.

RAM : 4GB and onwards

HDD : 500 GB and onwards

▪ Software Requirements:

Operating System : Windows 7 & and onwards

Database : My SQL

Front End : HTML5, CSS3 and Java Script (Bootstrap 5)

Back End : Java

Software Development Tool: Spring tool Suite 4

❖ Client side requirement

▪ Hardware Requirements:

Device : Desktop

Processor : Intel Core i3 and onwards.

RAM : 4GB and onwards

HDD : 500 GB and onwards

▪ Software Requirements:

Operating System : Windows 7 and onwards

Browser : Google Chrome, Mozilla Firefox etc.

1.6 Brief Description of technology used

Operating System: Windows is the most popular and commonly used Operating System for development and testing. It is easily available and easy to install as well. For this project, Windows 10 OS has been used for development. With the help of JAVA programming language and an IDE called Spring Tool Suite. Windows 10 is the most recent version of the operating system from Microsoft. This new version combines features from those two previous installments to suit the users in a better way for both desktop/laptop computers as well as mobile devices.

- **Language:** Java is a high-level, class-based, object-oriented programming language that is designed to have as few implementation dependencies as possible. Compiled Java code can run on all platforms that support Java without the need to recompile. Java applications are typically compiled to bytecode that can run on any Java virtual machine (JVM) regardless of the underlying computer architecture. The Java runtime provides dynamic capabilities (such as reflection and runtime code modification) that are typically not available in traditional compiled languages.
- **Framework (backend):** The Spring Framework is an application framework and inversion of control container for the Java platform. The framework's core features can be used by any Java application, but there are extensions for building web applications on top of the Java EE (Enterprise Edition) platform. The framework does not impose any specific programming model.
- **Framework (design):** Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It is an HTML, CSS and JS library that focuses on simplifying the development of informative web pages (as opposed to web applications). The primary purpose of adding it to a web project is to apply Bootstrap's choices of color, size, font and layout to that project. Once added to a project, Bootstrap provides basic style definitions for all HTML elements. The result is a uniform appearance for prose, tables and form elements across web browsers.

❖ RDBMS used to build the database

MySQL is an open-source relational database management system (RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius's daughter my, and "SQL", the acronym for Structured Query Language. A relational database organizes data into one or more data tables in which data may be related to each other; these relations help structure the data. SQL is a language programmers use to create, modify and extract data from the relational database, as well as control user access to the database. In addition to relational databases and SQL, an RDBMS like MySQL works with an operating system to implement a relational database in a computer's storage system, manages users, allows for network access and facilitates testing database integrity and creation of backups.

MySQL Workbench is a visual database design tool that integrates SQL development, administration, database design, creation and maintenance into a single integrated development environment for the MySQL database system. It is the successor to DB Designer 4 from fabFORCE.net, and replaces the previous package of software, MySQL GUI Tools Bundle.

CHAPTER 2: PROPOSED SYSTEM

CHAPTER 2: PROPOSED SYSTEM

2.1 Feasibility Study

A feasibility study is a comprehensive evaluation of a proposed project that evaluates all factors critical to its success in order to assess its likelihood of success. Business success can be defined primarily in terms of ROI, which is the amount of profits that will be generated by the project. In a feasibility study, a proposed plan or project is evaluated for its practicality. As part of a feasibility study, a project or venture is evaluated for its viability in order to determine whether it will be successful.

2.1.1. A. Technical Feasibility

What is technical feasibility, can be described as the formal process of assessing whether it is technically possible to manufacture a product or service. Before launching a new offering or taking up a client project, it is essential to plan and prepare for every step of the operation.

A technical feasibility study helps organizations determine whether they have the technical resources to convert the idea into a fully functional and profitable working system. It helps in troubleshooting the project before commencing work. The study identifies potential challenges and uncovers ways to overcome them. It also helps in long-term planning, as it can serve as a flowchart for how products and services evolve before they reach the market.

The system requirements for launching this website are basic and can be seen in majority of devices and desktops. The development tool and framework are easily available and accessible in market. A basic internet connection and a desktop with a recognized browser is required for this website to run this project. The website can be managed easily with the available technology at the owner's side. There is available workforce who can handle the e-commerce well.

2.1.1. B. Economic Feasibility

This assessment typically involves a cost/ benefits analysis of the project, helping organizations determine the viability, cost, and benefits associated with a project before financial resources are allocated. It also serves as an independent project assessment and enhances project credibility—helping decision-makers determine the positive economic benefits to the organization that the proposed project will provide.

By collaborating with other websites or by publishing this application on internet, revenue can be generated. It can be generated using this website as an advertising platform as well.

2.1.1. C. Operational Feasibility

This assessment involves undertaking a study to analyze and determine whether—and how well—the organization's needs can be met by completing the project. Operational feasibility studies also examine how a project plan satisfies the requirements identified in the requirements analysis phase of system development.

With this project, there is a high chance of increased rate in customer base as people these days look forward to buying things with the comfort of their home. It will generate more revenue and will be profitable. It'll be a standard ecommerce website for plant enthusiast. This website will efficiently provide all the necessary features at one platform and its UI will be user friendly. It will be easy to understand and use for the fellow users.

2.2 Objectives of the System

❖ Time saving

This website will save time for customers by eliminating the need to physically visit the nursery regarding any query or payments. One can also raise a ticket through this website without having to visit nursery personally. Thus saving a lot of time for customers.

❖ To eliminate manual system

It eliminates the need of paper work and saves time. In the current system, the users have to get a hard copy of the bills which has a risk of being misplaced. The admin also has to send hard copy of payment receipt which is time consuming. All of this can be put at ease using this platform.

❖ Enhanced user experience

This application provides a common platform for all the basic e-commerce activities for a nursery. Be it posting a feedback, viewing a product, raising a ticket and payments all of this can be done under a common place and thus enhances user experience.

❖ Analysis

This application provides the owner will automatically generated analysis reports for analyzing past sales. Thus the owner can restock according to the requirement and user demands.

❖ Management at ease

This application makes management easy for the admin. Be it tracking/updating orders, viewing received feedback/tickets, all of this can be done at a single place without going through piles of records.

❖ Customer Support

Through this platform, user can raise ticket during anytime of the day they desire without having to worrying about the opening hours of the nursery or being physically present there.

2.3 Users of the system

❖ Customer:

- Customer can Register and login.
- Customer can view products.
- Customer can add product to cart.
- Customer can generate payment
- Customer can send feedback.
- Customer can raise ticket.

❖ Admin module

- Admin can Register and login.
- Admin can view received orders.
- Admin can view received payments.
- Admin can respond to raised tickets.
- Admin can view received feedbacks.
- Admin can analyze order pattern based on past sales.
- Admin can add products to stock and modify existing ones.

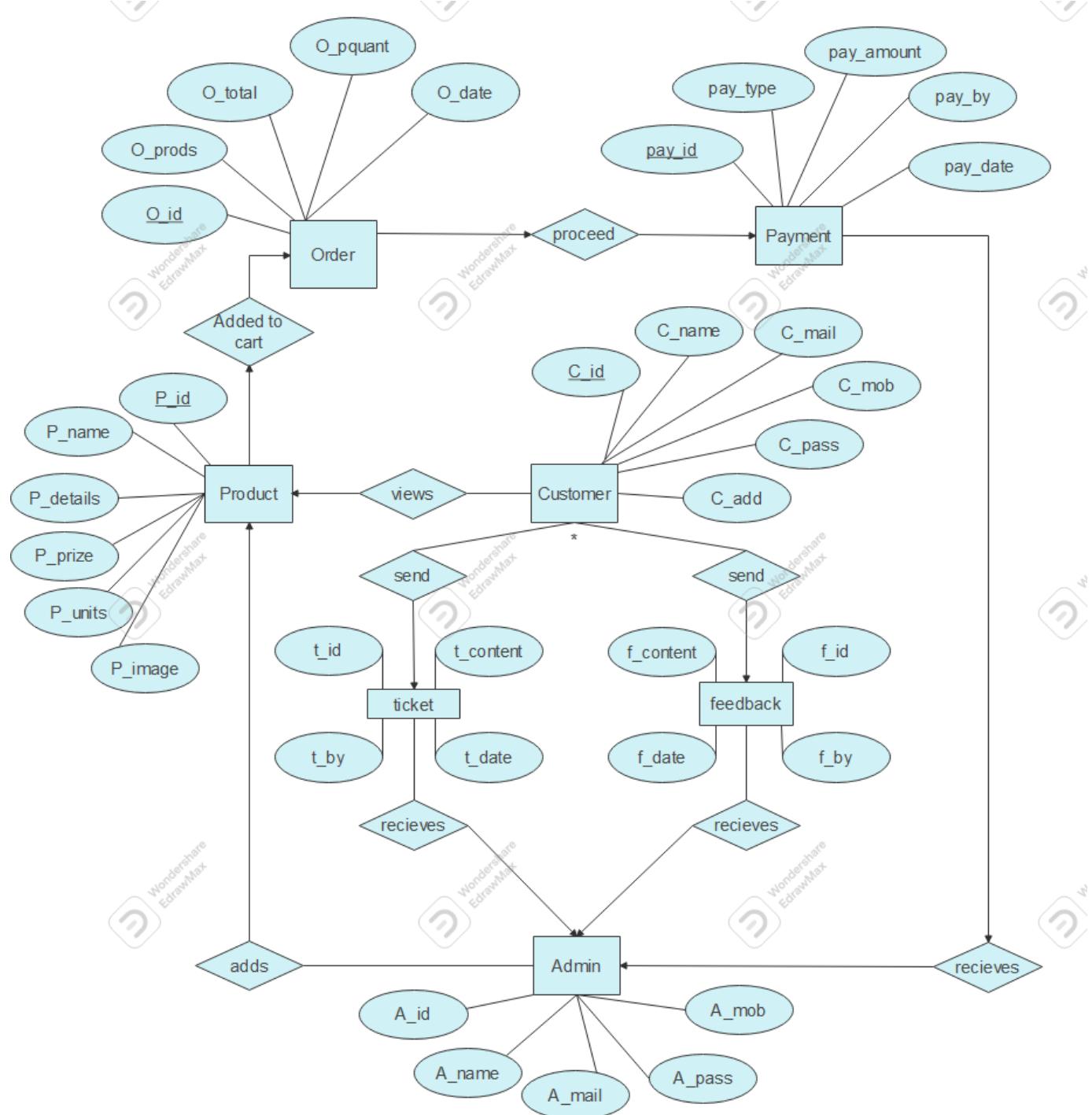
CHAPTER 3: ANALYSIS & DESIGN

CHAPTER 3: ANALYSIS & DESIGN

3.1 System Requirements (Functional and Non Functional)

- ❖ Functional requirements through profile module
 - Customer:
 - The customer will have to register and login by entering details.
 - The customer will have to explore through products to select one of their choice.
 - The customer will have to add product to cart for further process and enter address and other details.
 - The customer will have to enter card details for generating payment.
 - The customer will have to raise a ticket for resolving queries.
 - Admin
 - Admin will have to register and login by entering details
 - Admin can add products to stock by entering mentioned details and product images.
 - Admin can view received orders and payments.
 - Admin can chat with customer.
 - Admin can view received reviews.
 - Admin can analyze order pattern based on past sales.
- ❖ The Functional requirements through Product module
 - Different products can be viewed according to category.
 - Detailed description can be viewed for an individual product.
 - Tips for product can be viewed.
- ❖ The Functional requirements through Order and Cart module
 - ❖ Products can be added/removed from cart by customers.
 - ❖ Addresses can be added/ modified by customers.
- ❖ The Functional requirements through Payment Module
 - ❖ The user will have to enter card details for generating payments.
- ❖ The Functional requirements through Ticket Module
 - ❖ Owner and Customer can interact by raising ticket and responding to them.
- ❖ The Functional requirements through Feedback module
 - Customer can provide owner with feedback message/stars and let them know

3.2 Entity Relationship Diagram



3.3 Table Structure

▪ Data Dictionary

Sr. No.	Field Name	Description	Data Type	Constraint	Table Name
1.	a_id	Admin Id: used as identification for different admins, and for internal tracking of updates for admin panel.	Int	Not Null, Unique	Admin
2.	a_mail	Admin Mail: used as identification for different admins, and can be used as credentials for login purpose.	String	Not Null	Admin
3.	a_mob	Admin Mobile: used for admin contact details.	Int	Not Null	Admin
4.	a_name	Admin Name: used for recording names of different admins and as their unique identification.	String	Not Null	Admin
5.	a_pass	Admin password: used as personal credentials for different admins and for login purpose.	String	Not Null	Admin
6.	c_add	Customer Address: used for customer contact details.	String	Not Null	Customer
7.	c_id	Customer Id: used as identification for different customers, and for internal tracking of records for admin panel. It'll also be used for generating order and payments uniquely for different customers.	Int	Not Null, Unique	Customer
8.	c_mail	Customer Mail: used as identification for different customer, and can be used as credentials for login purpose.	String	Not Null	Customer
9.	c_mob	Customer Mobile: used for customer contact details.	Int	Not Null	Customer
10.	c_name	Customer Name: used for recording names of different customers and as their identification.	String	Not Null	Customer
11.	c_pass	Customer password: used as personal credentials for customers and for login purpose.	String	Not Null	Customer

Sr. No.	Field Name	Description	Data Type	Constraint	Table Name
12.	f_by	Feedback by: Used for identification of the person, who has given the feedback.	String	Not Null	Feedback
13.	f_content	Feedback content: Used for storing comments the customer has given as feedback.	String	Not Null	Feedback
14.	f_id	Feedback Id: Used for uniquely identifying the feedback given by customers.	Int	Not Null, Unique	Feedback
15.	f_time	Feedback time: Used for storing the time when the customer gave the feedback.	Datetime	Not Null	Feedback
16.	o_date	Order date: Used for storing the time and date on which the order was generated.	Datetime	Not Null	Order
17.	o_id	Order Id: Used for unique identification of the orders. It'll be used for generating the receipts.	Int	Not Null, Unique	Order
18.	o_prods	Order prods: Used for storing list of products, each order contains.	String	Not Null	Order
19.	o_quant	Order quantity: Used for storing the total number of products an order contains.	Int	Not Null	Order
20.	o_tot	Order total: Used for storing the total amount of all the products together.	Int	Not Null	Order
21.	p_details	Product Details: Used for storing the product description.	String	Not Null	Product
22.	p_id	Product Id: Used for uniquely identifying different products. Also used in order receipt.	Int	Not Null, Unique	Product
23.	p_img	Product Image: Used for storing the product image.	String	Not Null	Product
24.	p_name	Product Name: Used for uniquely identifying different products. Also used in order receipt.	String	Not Null	Product
25.	p_price	Product Price: Used for storing the price of product. Also used for generating total in order.	Int	Not Null	Product
26.	p_units	Product Units: Used for storing the product units.	Int	Not Null	Product

Sr. No.	Field Name	Description	Data Type	Constraint	Table Name
27.	pay_amt	Payment amount: Used for storing the amount paid.	Int	Not Null	Payments
28.	pay_by	Payment by: Used for identifying the person who has generated the payment.	String	Not Null	Payments
29.	pay_id	Payment Id: Used for uniquely identifying different payments. Also used in order receipt.	Int	Not Null, Unique	Payments
30.	pay_time	Payment time: Used for storing the time when the payment has been generated.	Datetime	Not Null	Payments
31.	pay_type	Payment type: Used for storing the way payment has been made (e.g. UPI, Card etc.)	String	Not Null	Payments
32.	t_by	Ticket by: Used for storing the name of customer who has generated the ticket. Also used for responding.	String	Not Null	Ticket
33.	t_con	Ticket Content: Used for storing the queries generated by the users.	String	Not Null	Ticket
34.	t_id	Ticket Id: Used for uniquely identifying ticket generated by the customer. Also will be used while responding to the queries of customer.	Int	Not Null, Unique	Ticket
35.	t_time	Ticket Time: Used for storing the time when the ticket was generated.	Datetime	Not Null	Ticket

❖ Table Description

- **Table Name:** Admin
- **Description:** Used for storing admin details and credentials.
- **Primary Key:** a_id (Admin ID)

Fields Name	Data Type	Size	Constraint	Description
a_id	Int	2	Not Null, Unique	Admin Id: used as identification for different admins, and for internal tracking of updates for admin panel.
a_mail	String	20	Not Null	Admin Mail: used as identification for different admins, and can be used as credentials for login purpose.
a_mob	Int	10	Not Null	Admin Mobile: used for admin contact details.
a_name	String	20	Not Null	Admin Name: used for recording names of different admins and as their unique identification.
a_pass	String	12	Not Null	Admin password: used as personal credentials for different admins and for login purpose.

- **Table Name:** Customer
- **Description:** Used for storing customer details and credentials.
- **Primary Key:** c_id (Customer ID)

Fields Name	Data Type	Size	Constraint	Description
c_id	Int	5	Not Null	Customer Id: used as identification for different customers, and for internal tracking of records for admin panel. It'll also be used for generating order and payments uniquely for different customers.
c_add	String	300	Not Null	Customer Address: used for customer contact details.
c_mail	String	20	Not Null, Unique	Customer Mail: used as identification for different customer, and can be used as credentials for login purpose.
c_mob	Int	10	Not Null	Customer Mobile: used for customer contact details.

Fields Name	Data Type	Size	Constraint	Description
c_name	String	20	Not Null	Customer Name: used for recording names of different customers and as their identification.
c_pass	String	12	Not Null	Customer password: used as personal credentials for customers and for login purpose.

- **Table Name:** Feedback
- **Description:** Used for storing feedback details generated by user.
- **Primary Key:** f_id (Feedback ID)

Fields Name	Data Type	Size	Constraint	Description
f_id	Int	10	Not Null, Unique	Feedback Id: Used for uniquely identifying the feedback given by customers.
f_by	String	20	Not Null	Feedback by: Used for identification of the person, who has given the feedback.
f_content	String	200	Not Null	Feedback content: Used for storing comments the customer has given as feedback.
f_time	Datetime	6	Not Null	Feedback time: Used for storing the time when the customer gave the feedback.

- **Table Name:** Order
- **Description:** Used for storing order details generated by user.
- **Primary Key:** o_id (Order ID)

Fields Name	Data Type	Size	Constraint	Description
o_id	Int	10	Not Null, Unique	Order Id: Used for unique identification of the orders. It'll be used for generating the receipts.
o_prods	String	200	Not Null	Order prods: Used for storing list of products, each order contains.
o_quant	Int	5	Not Null	Order quantity: Used for storing the total number of products an order contains.
o_tot	Int	10	Not Null	Order total: Used for storing the total amount of all the products together.
o_date	Datetime	6	Not Null	Order date: Used for storing the time and date on which the order was generated.

- **Table Name:** Products
- **Description:** Used for storing Product details added by admin.
- **Primary Key:** p_id (Product ID)

Fields Name	Data Type	Size	Constraint	Description
p_id	Int	5	Not Null, Unique	Product Id: Used for uniquely identifying different products. Also used in order receipt.
p_details	String	300	Not Null	Product Details: Used for storing the product description.
p_img	String	20	Not Null	Product Image: Used for storing the product image.
p_name	String	20	Not Null	Product Name: Used for uniquely identifying different products. Also used in order receipt.
p_price	Int	10	Not Null	Product Price: Used for storing the price of product. Also used for generating total in order.
p_units	Int	10	Not Null	Product Units: Used for storing the product units.

- Table Name:** Payments
- Description:** Used for storing payment details generated by user.
- Primary Key:** pay_id (Payment ID)

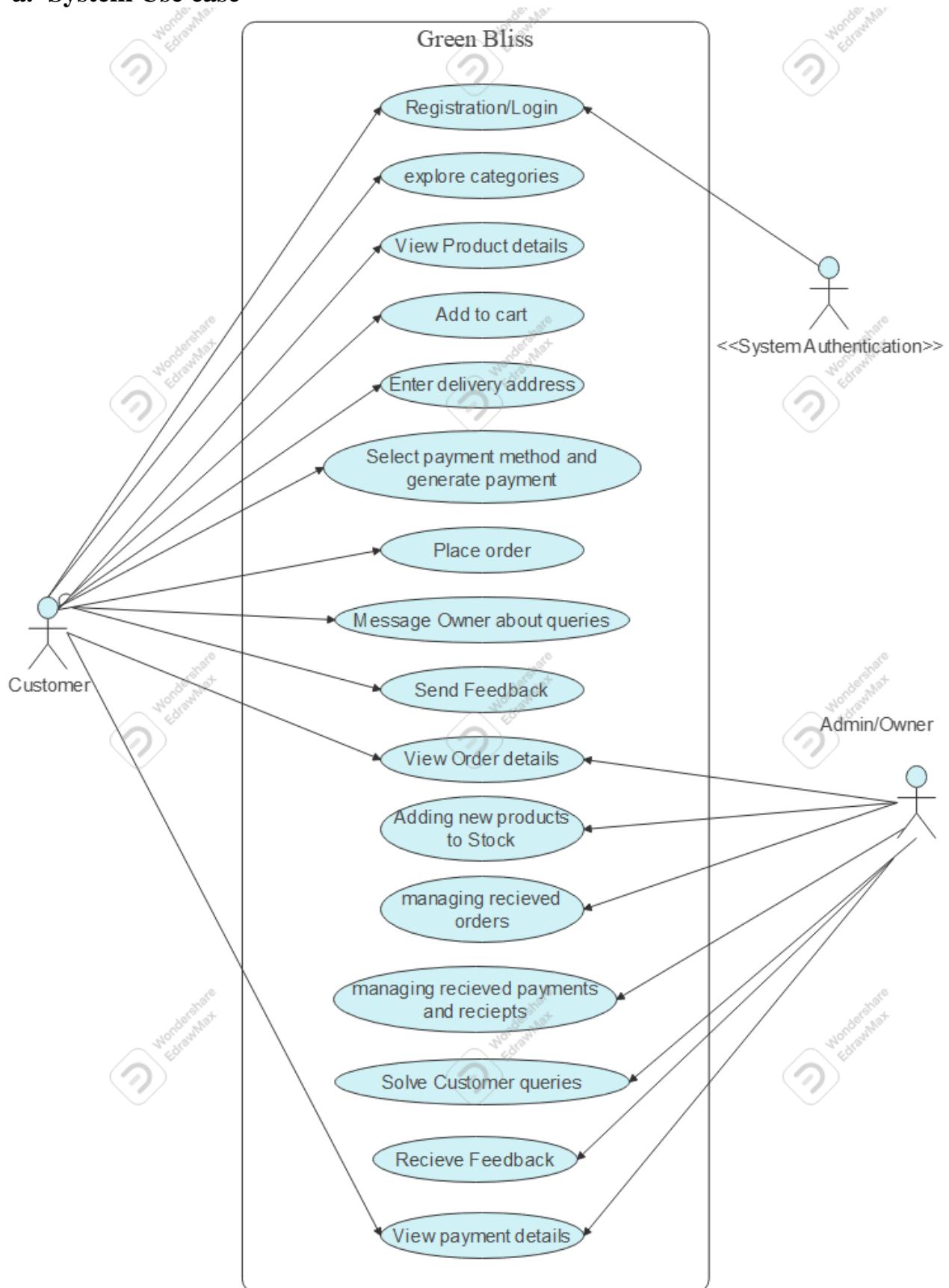
Field Name	Data Type	Size	Constraint	Description
pay_id	Int	5	Not Null, Unique	Payment Id: Used for uniquely identifying different payments. Also used in order receipt.
pay_amt	Int	10	Not Null	Payment amount: Used for storing the amount paid.
pay_by	String	20	Not Null	Payment by: Used for identifying the person who has generated the payment.
pay_time	Datetime	6	Not Null	Payment time: Used for storing the time when the payment has been generated.
pay_type	String	10	Not Null	Payment type: Used for storing the way payment has been made (e.g. UPI, Card etc.)

- Table Name:** Ticket
- Description:** Used for storing ticket details generated by user.
- Primary Key:** t_id (Ticket ID)

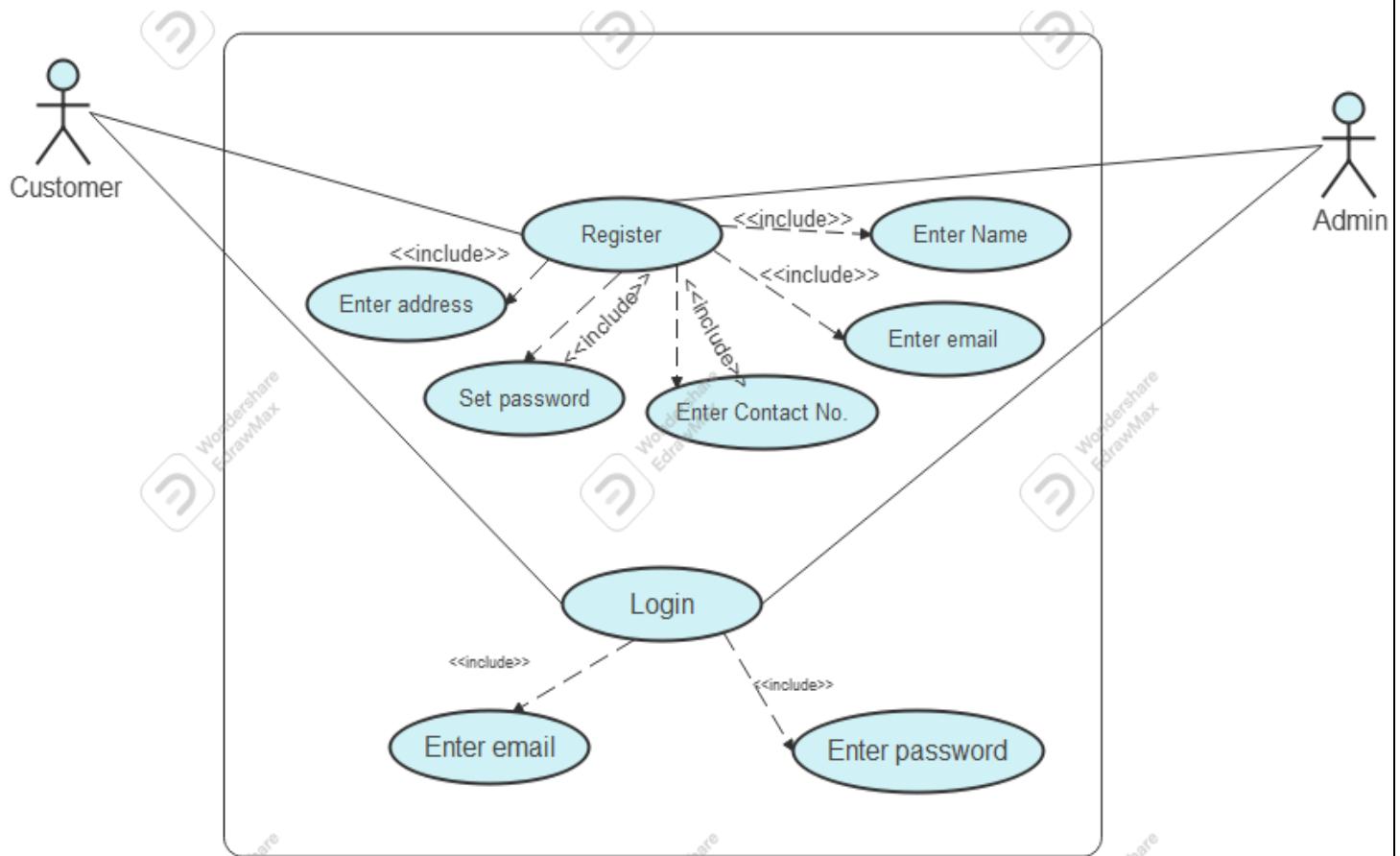
Field Name	Data Type	Size	Constraint	Description
t_id	5	Int	Not Null, Unique	Ticket Id: Used for uniquely identifying ticket generated by the customer. Also will be used while responding to the queries of customer.
t_by	20	String	Not Null	Ticket by: Used for storing the name of customer who has generated the ticket. Also used for responding.
t_con	200	String	Not Null	Ticket Content: Used for storing the queries generated by the users.
t_time	6	Datetime	Not Null	Ticket Time: Used for storing the time when the ticket was generated.

3.4 Use Case Diagrams

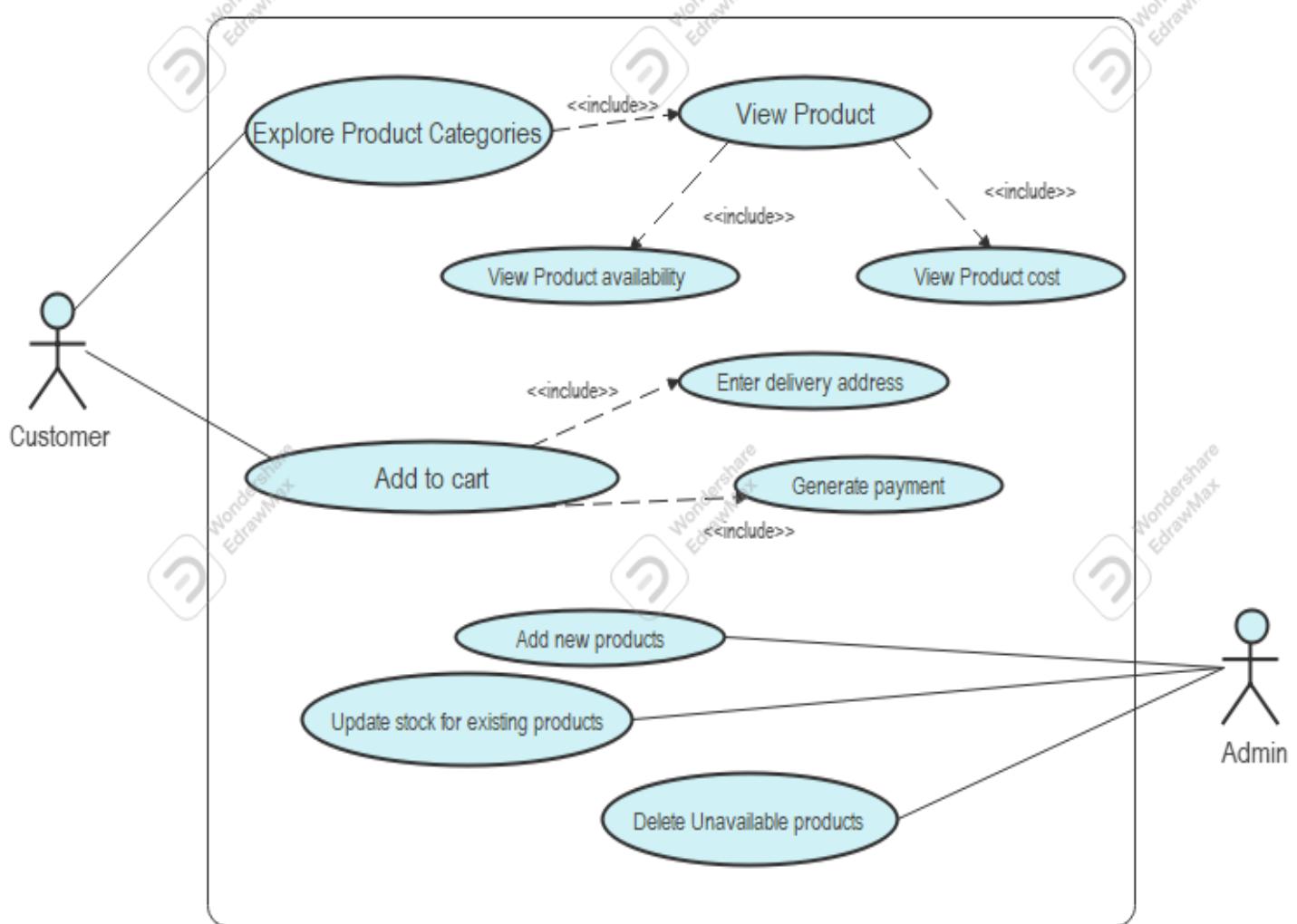
a. System Use case



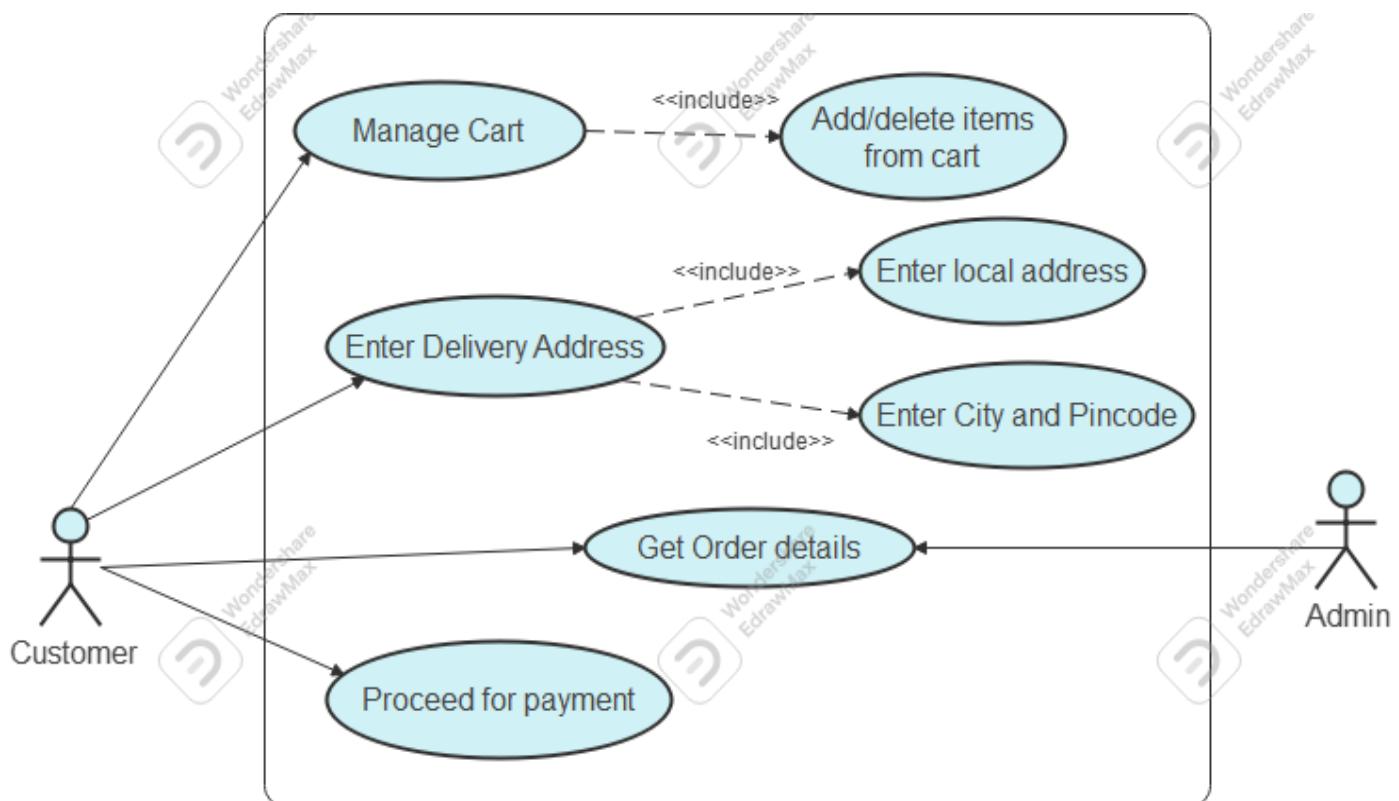
b. Profile Module



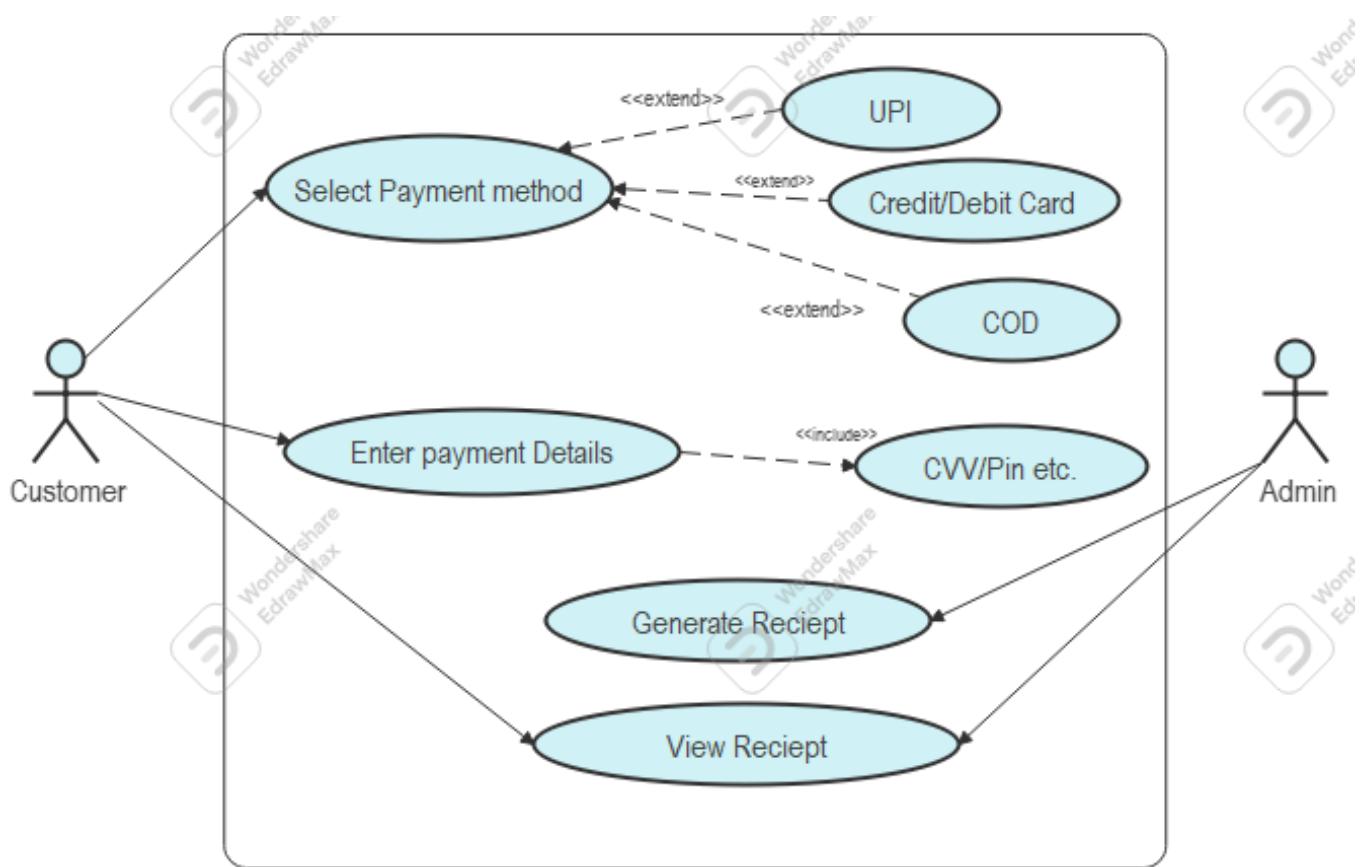
c. Product Module



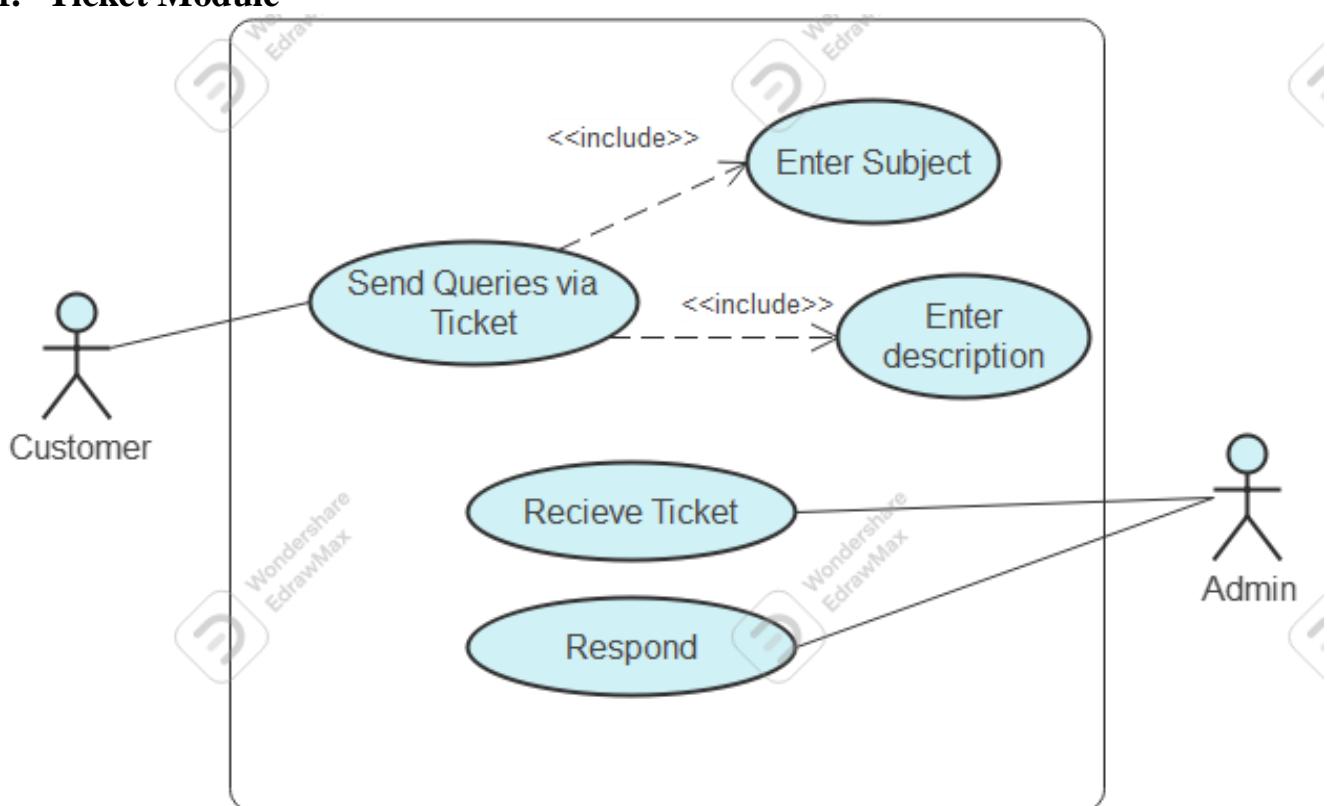
d. Cart & Order Module



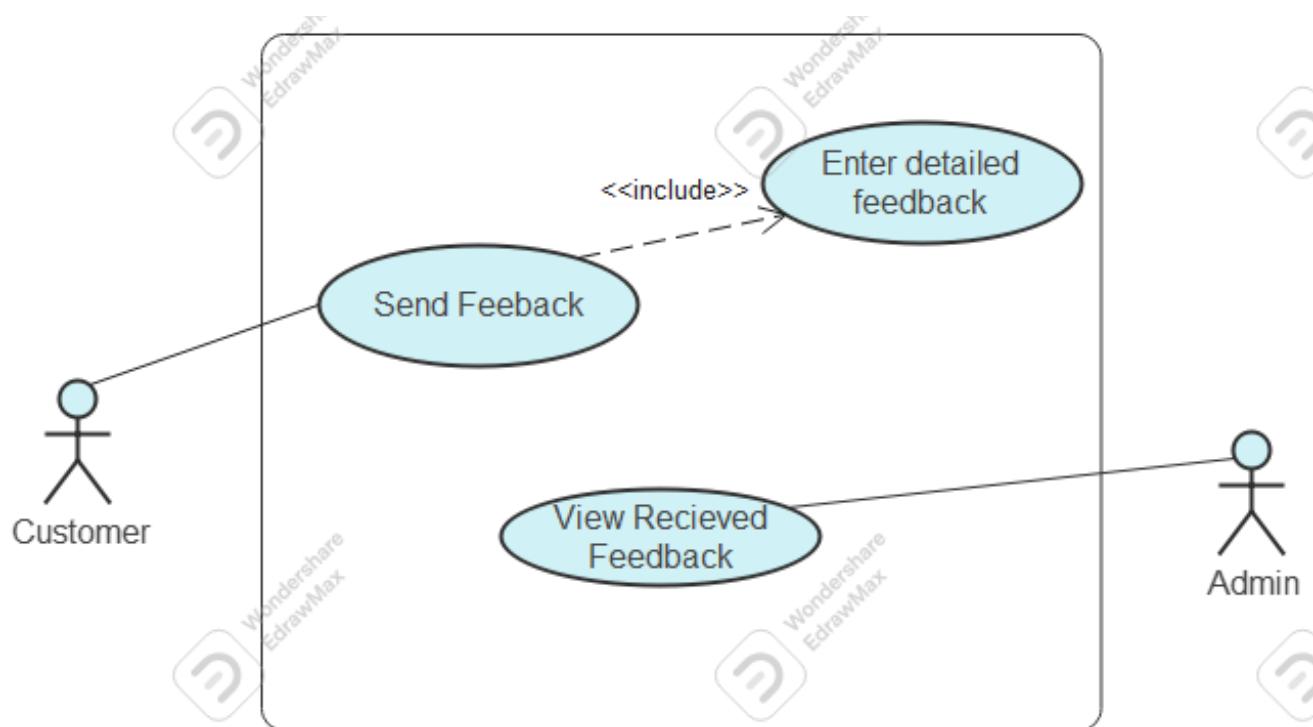
e. Payment Module



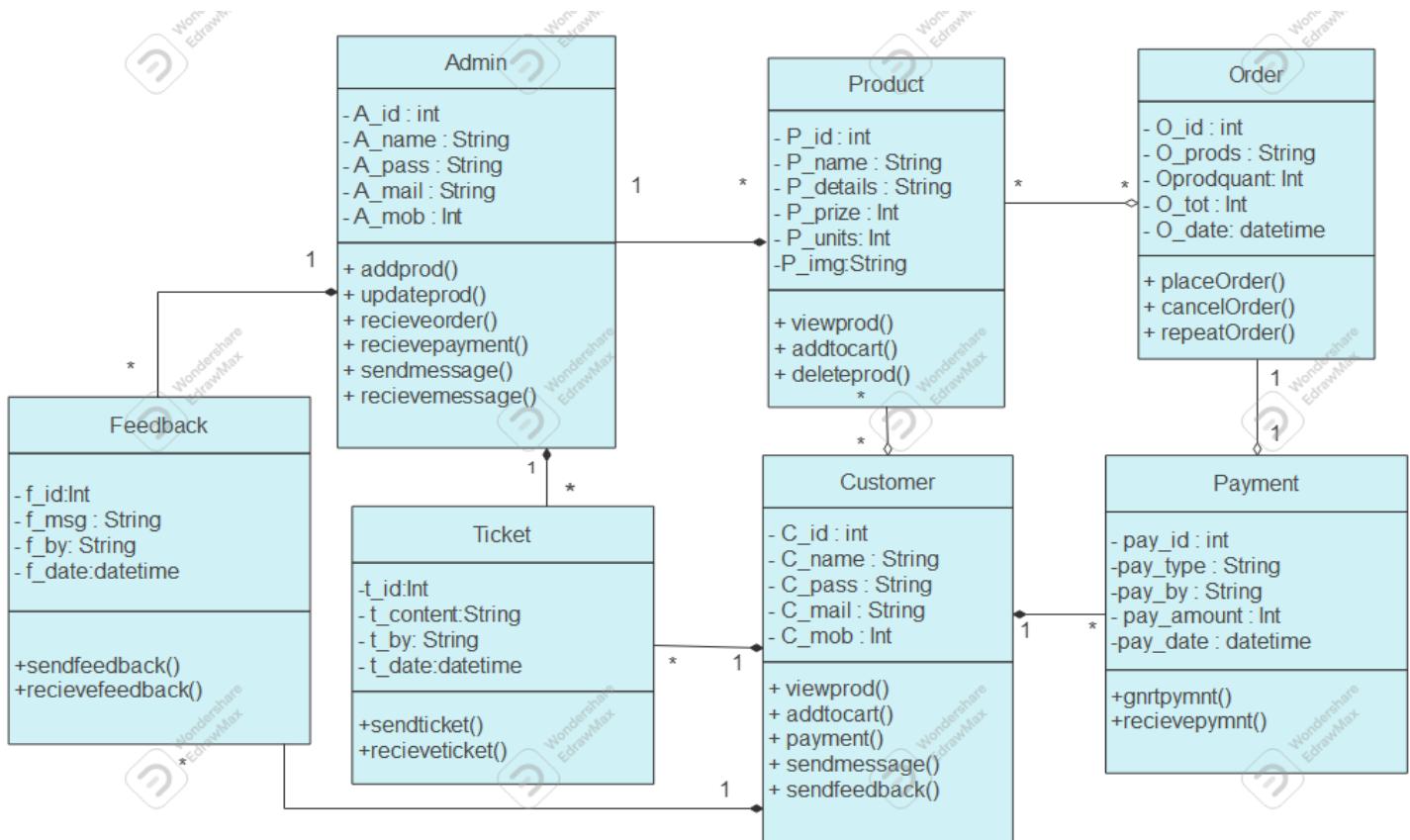
f. Ticket Module



g. Feedback Module

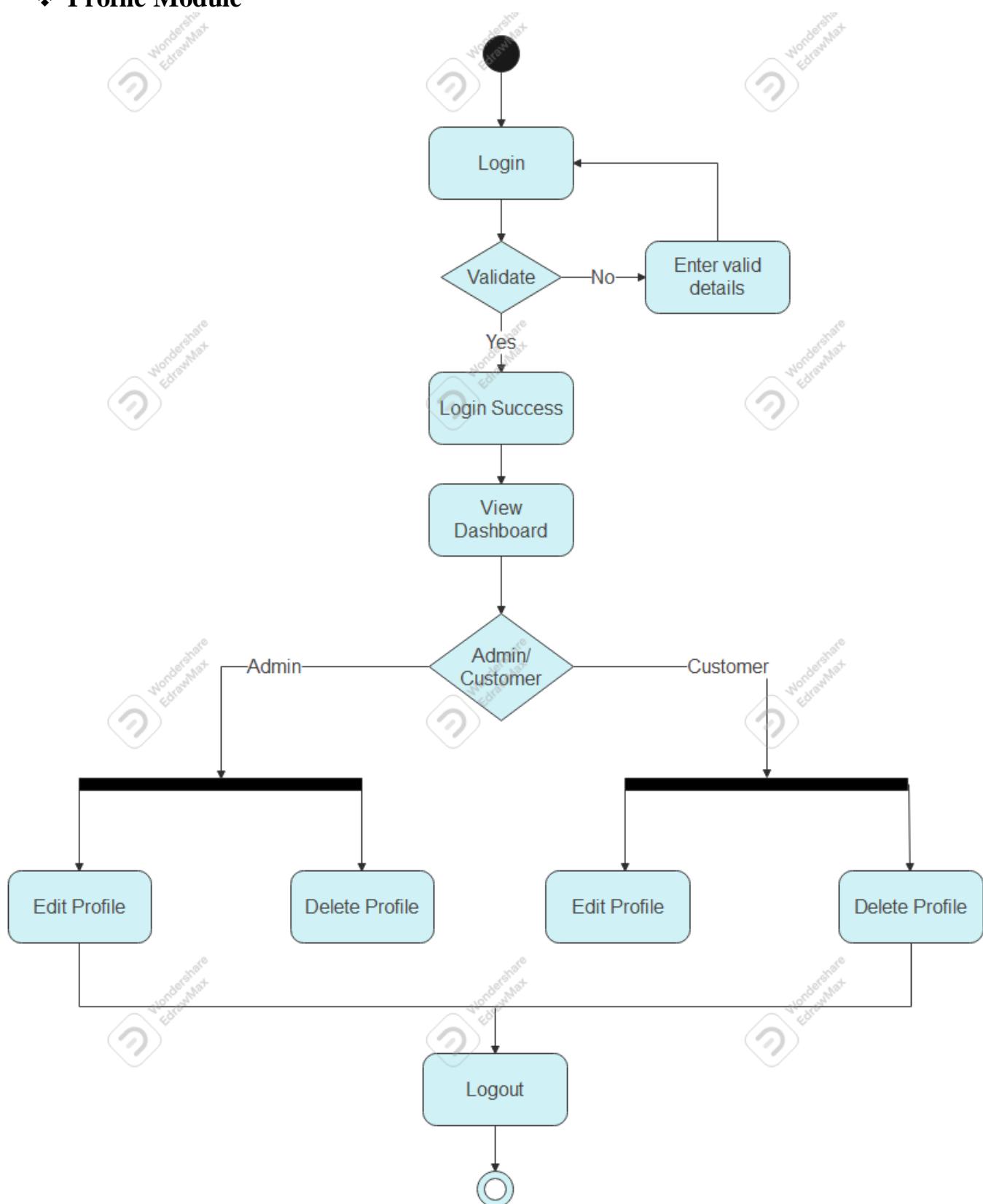


3.5 Class Diagram

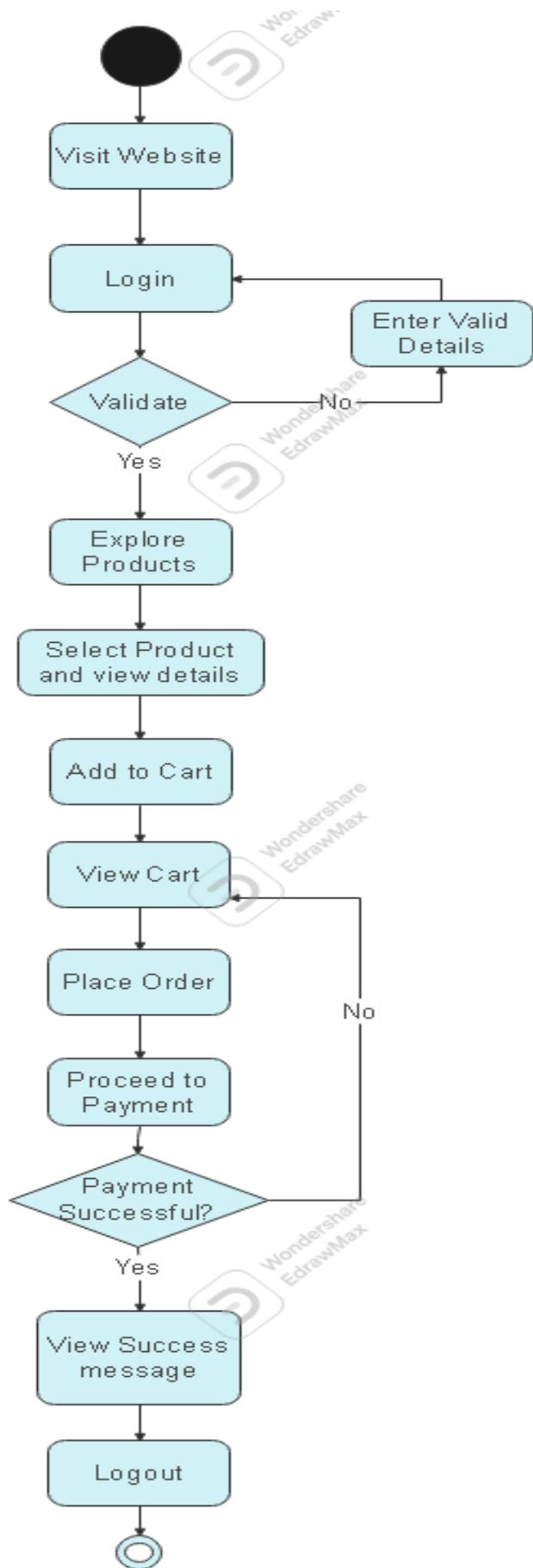


3.6 Activity Diagrams

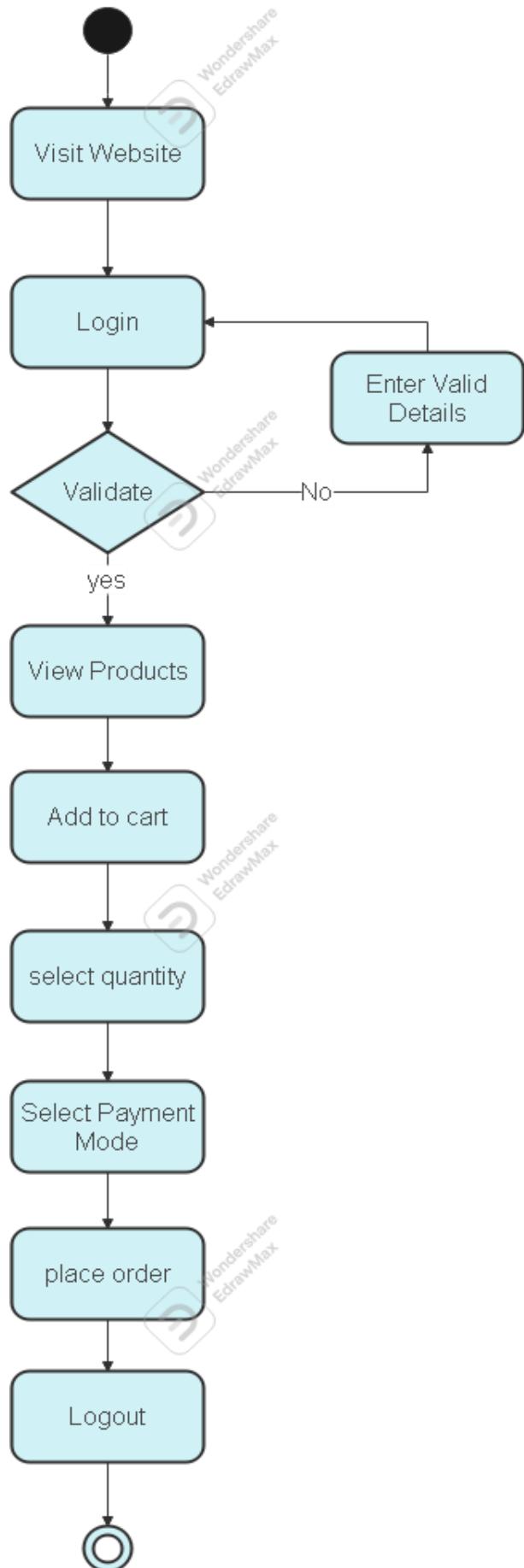
❖ Profile Module



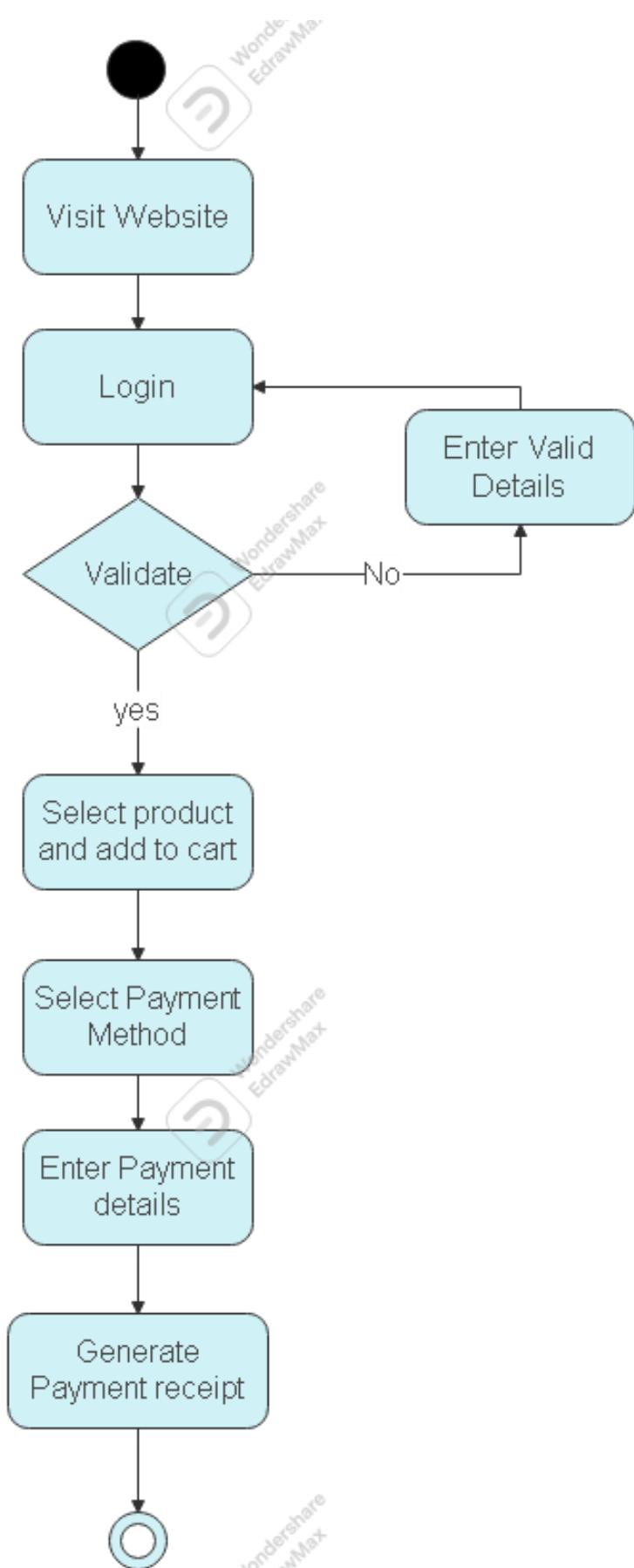
❖ Product Module



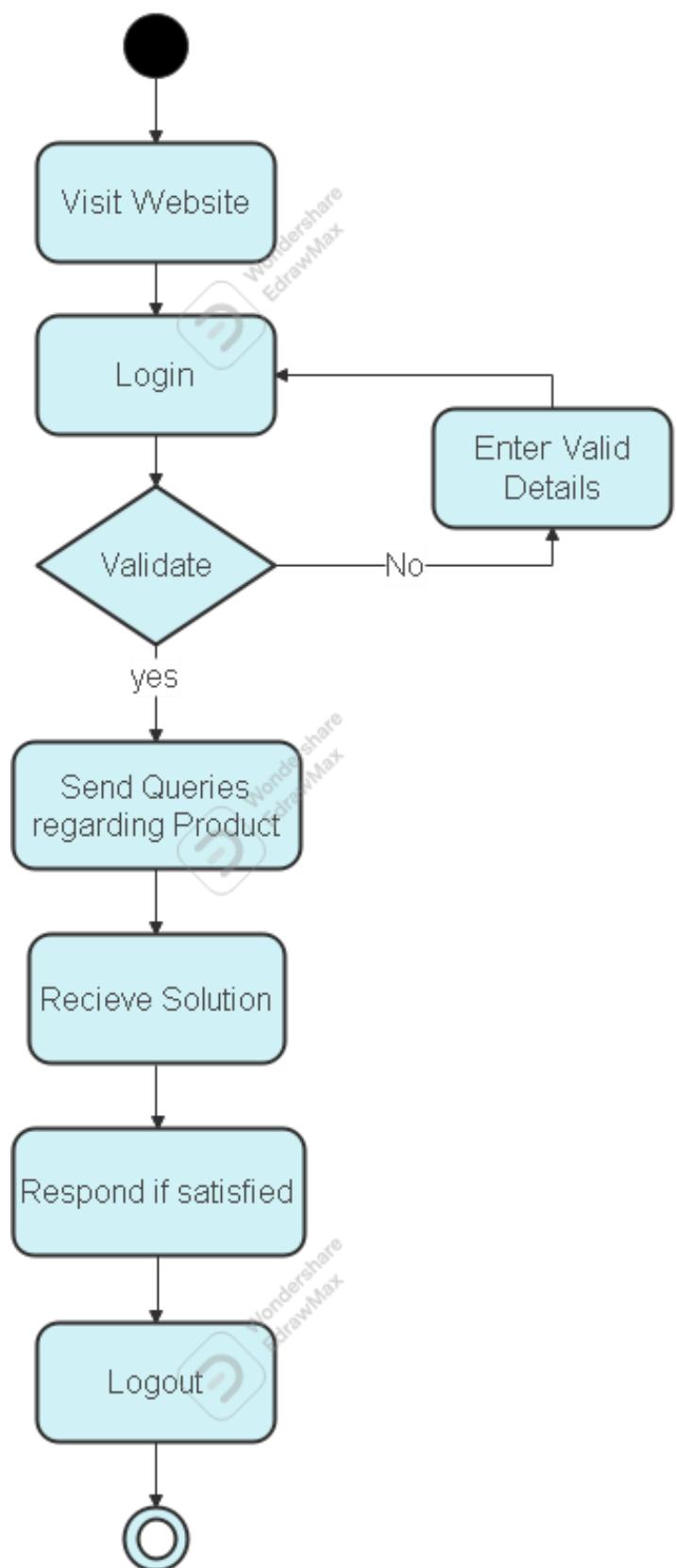
❖ Order & cart Module



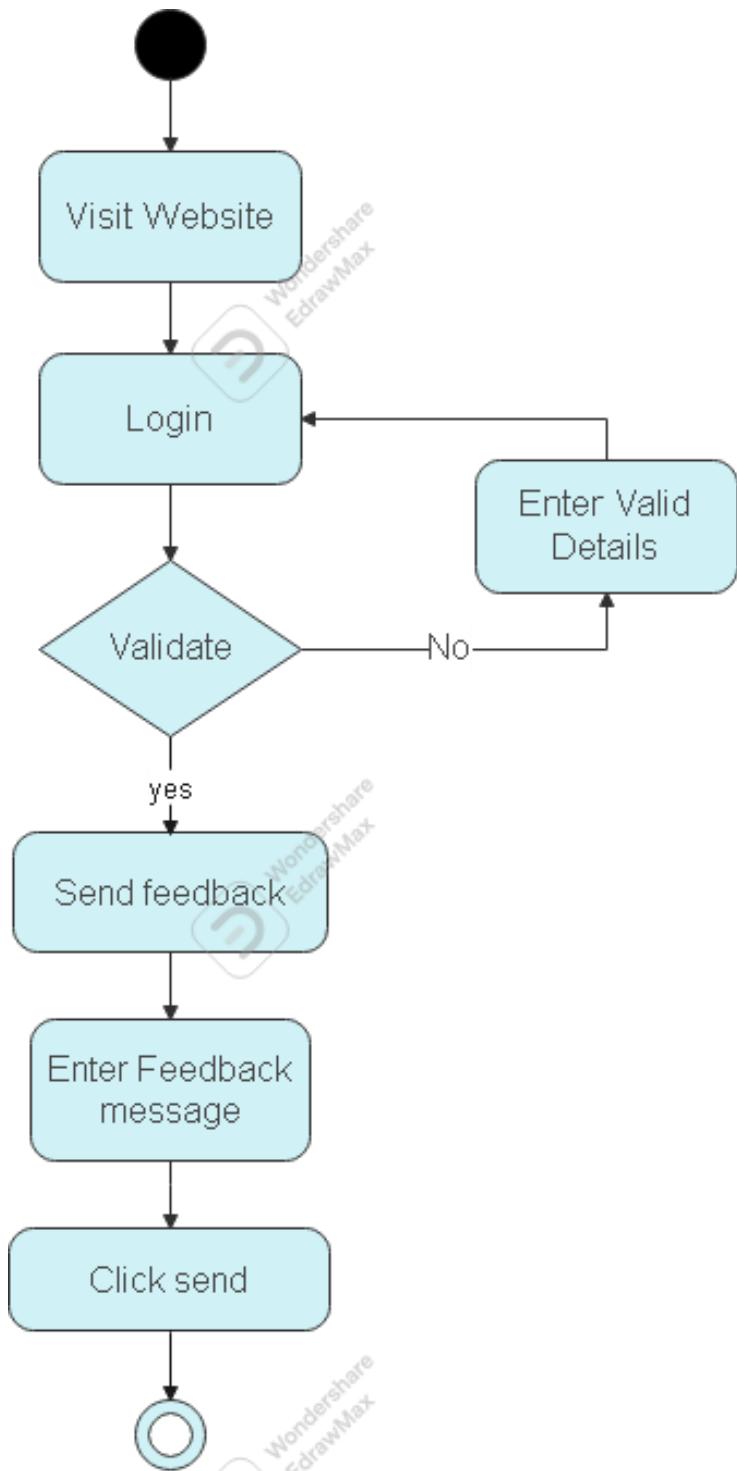
❖ Payment Module



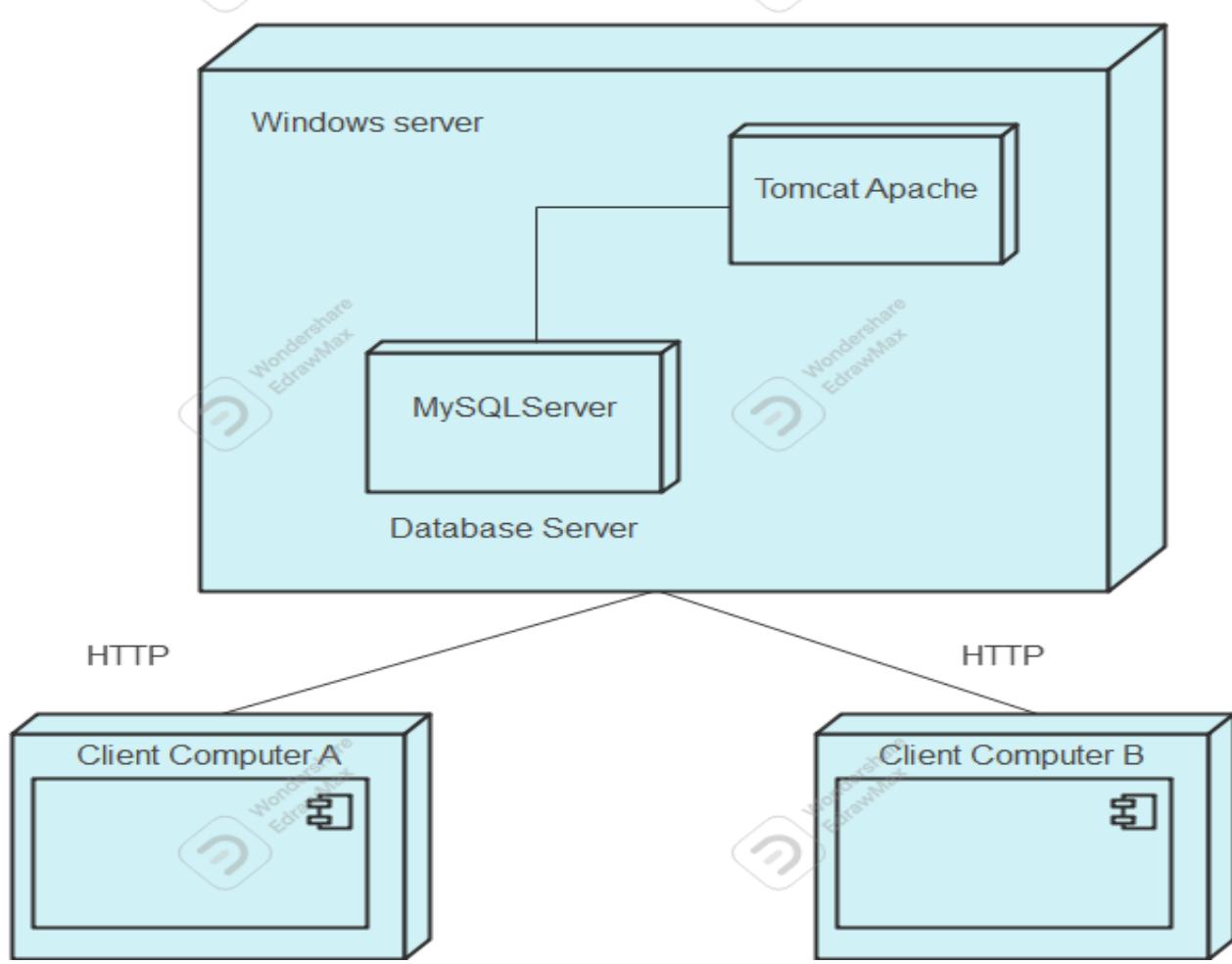
❖ Ticket Module



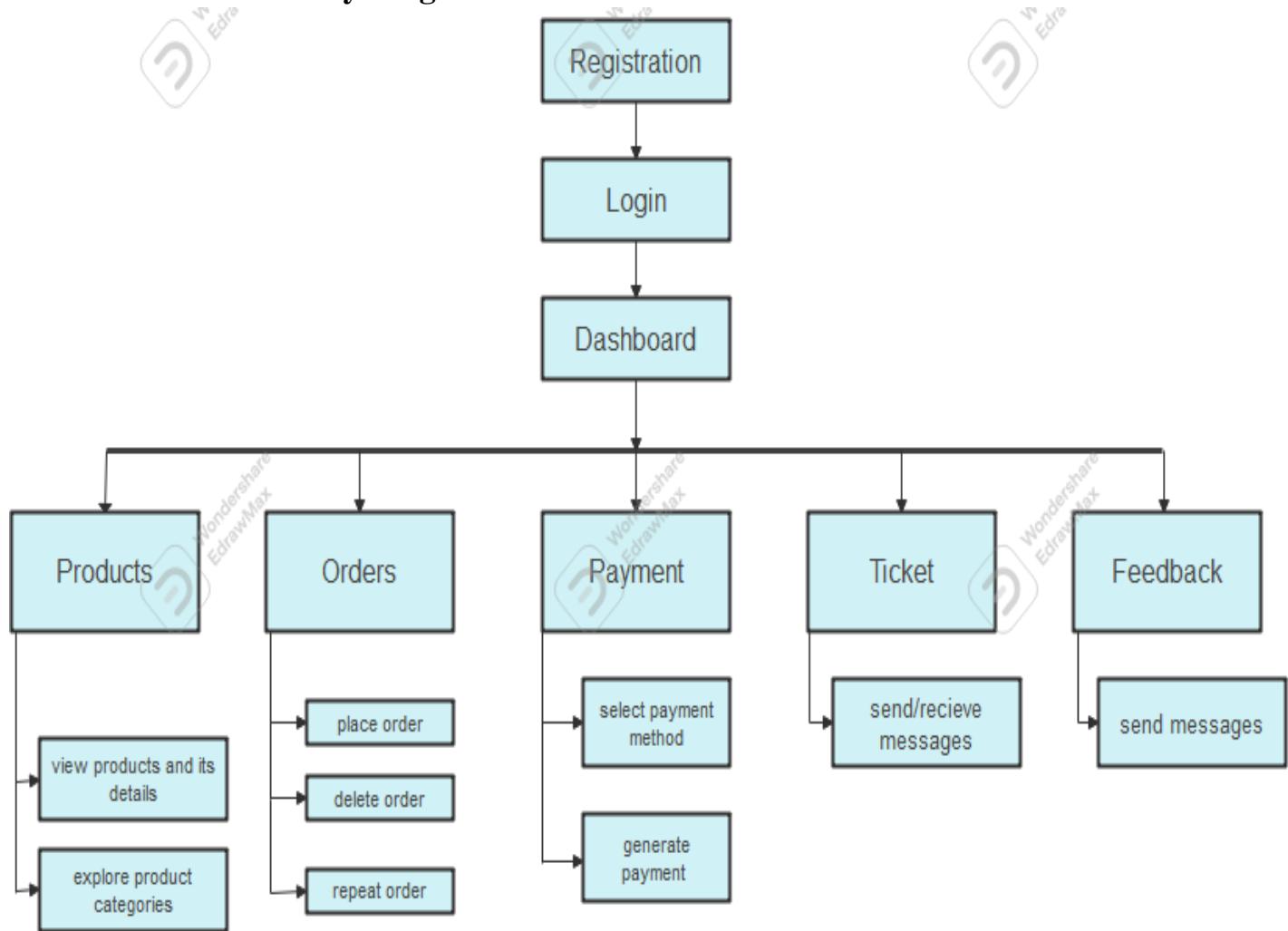
❖ Feedback Module



3.7 Deployment Diagram

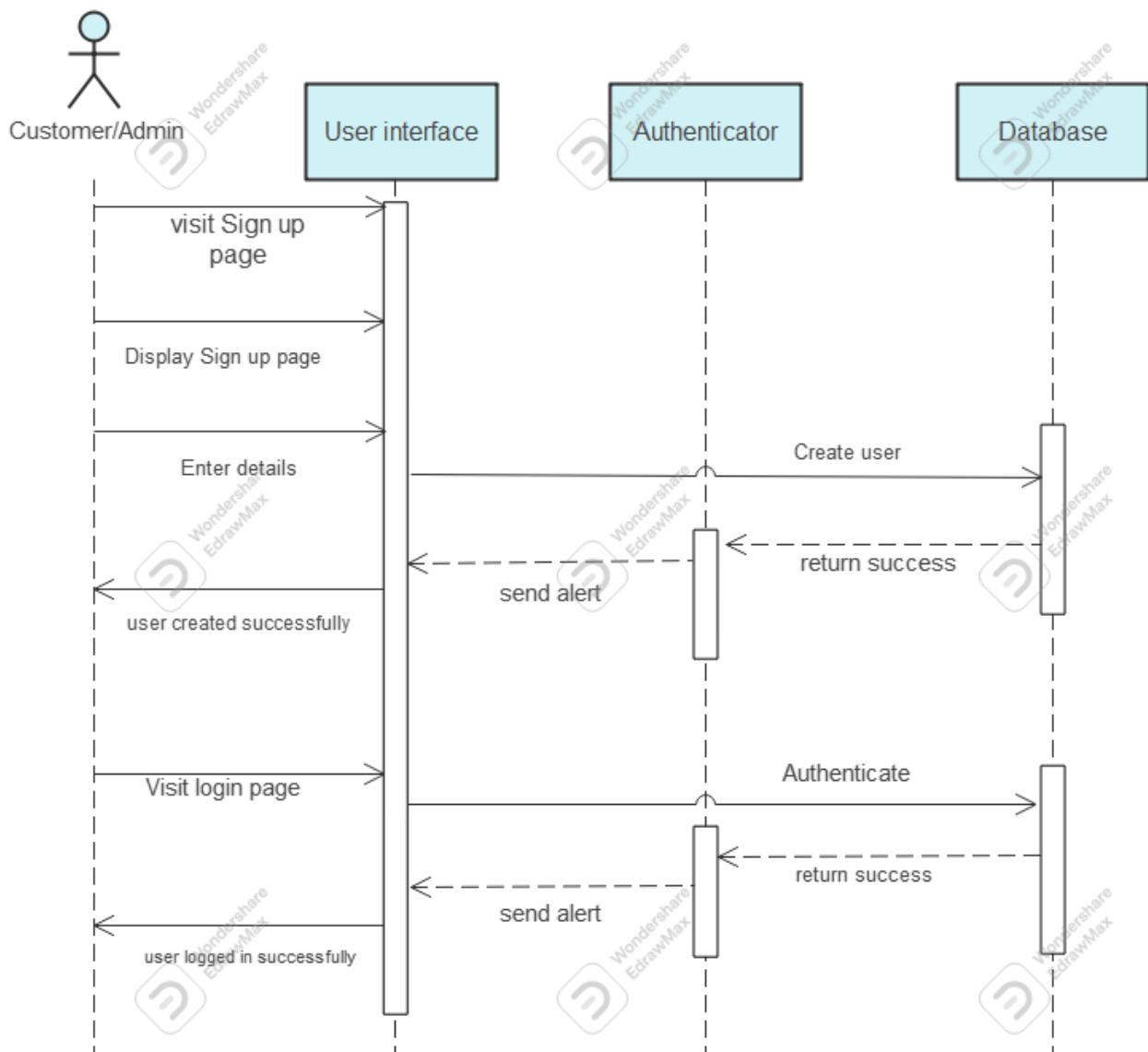


3.8 Module Hierarchy Diagram

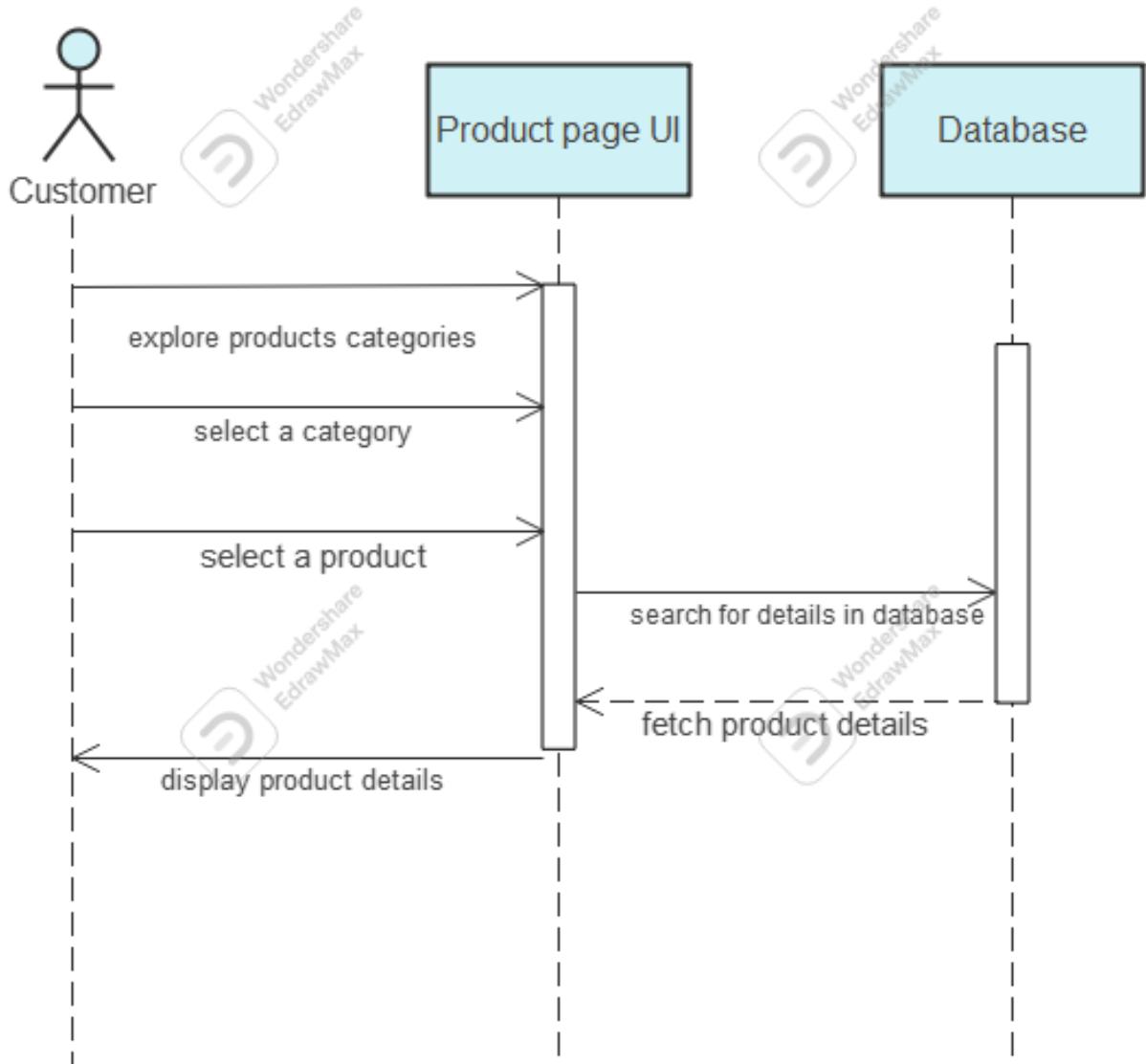


3.9 Sequence Diagrams

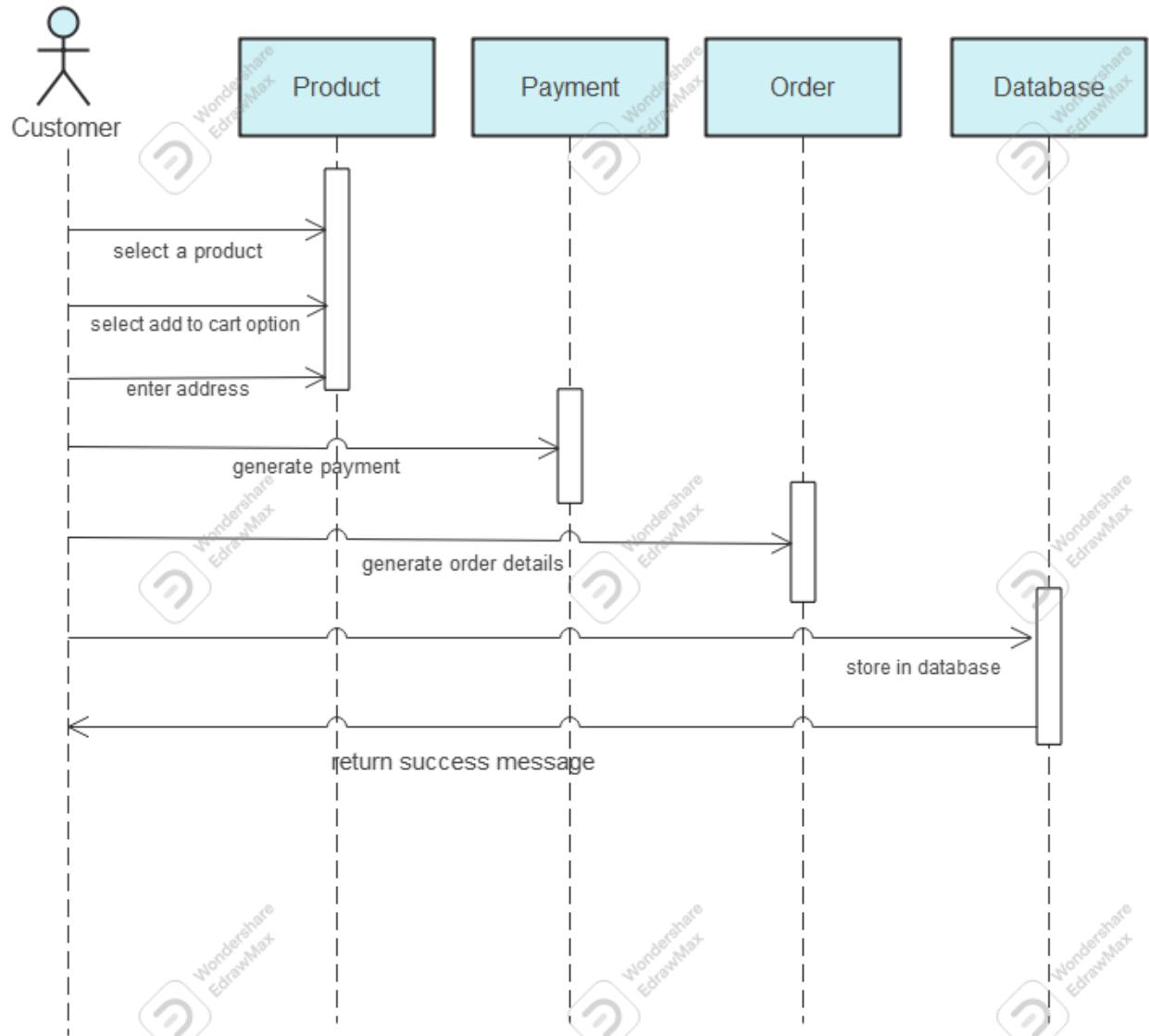
❖ Profile Module



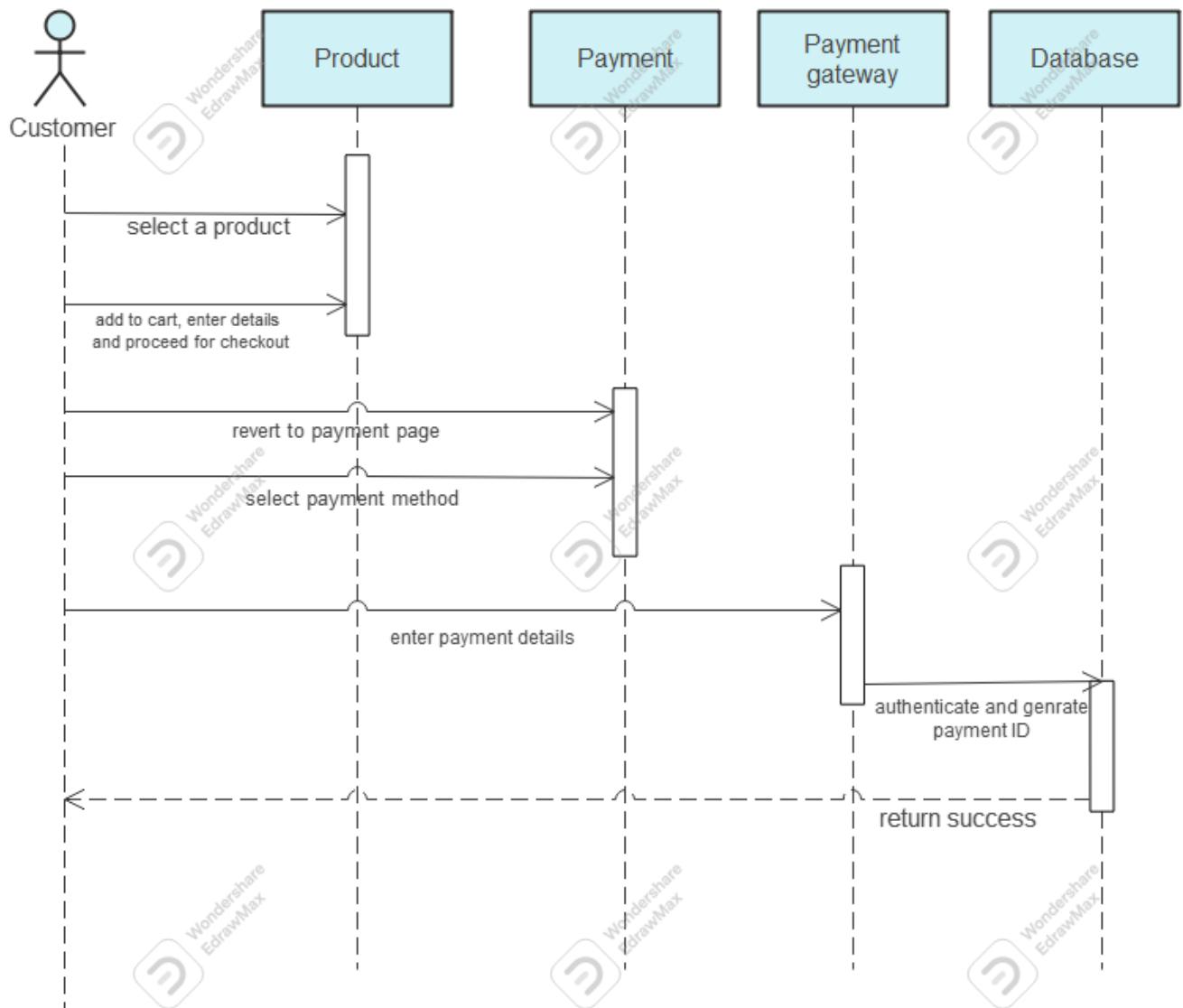
❖ Product Module



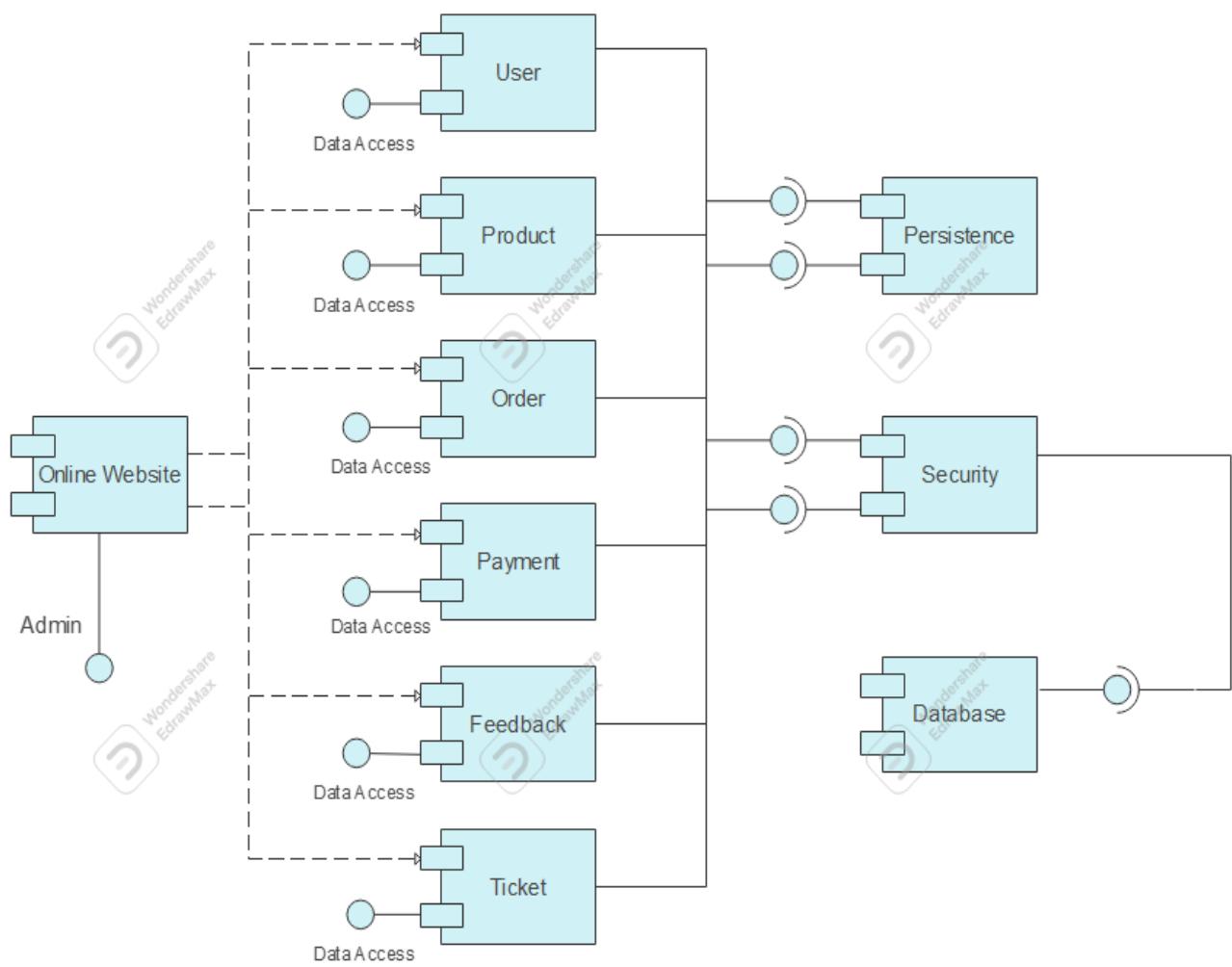
❖ Order & Cart module



❖ Payment Module



3.10 Component Diagram



3.11 Sample Input and Output Screens

- ❖ Login form (Customer)



Signup Login About Us



Login

Please fill in the information below

A light blue input field containing the email address "shivani@gmail.com".

Email address

A light blue input field containing the password "*****" represented by five asterisks. A small circular icon with a double-lined arrow is positioned to the right of the input field.

Password

Login

[Forgot password?](#)

❖ Signup form (Customer)

 Green Bliss

[Signup](#) [Login](#) [About Us](#)



Sign Up

Please fill in the information below

Full name

E-Mail

Set Password

(Password must be 8-12 characters, Must contain at least one number and one uppercase and lowercase letter, and at least 8 or more characters)

Phone (+91)

Local Address

(Enter 10 digit phone number)

We currently serve only around
Chandrapur city.

Already have an account? [Login](#)

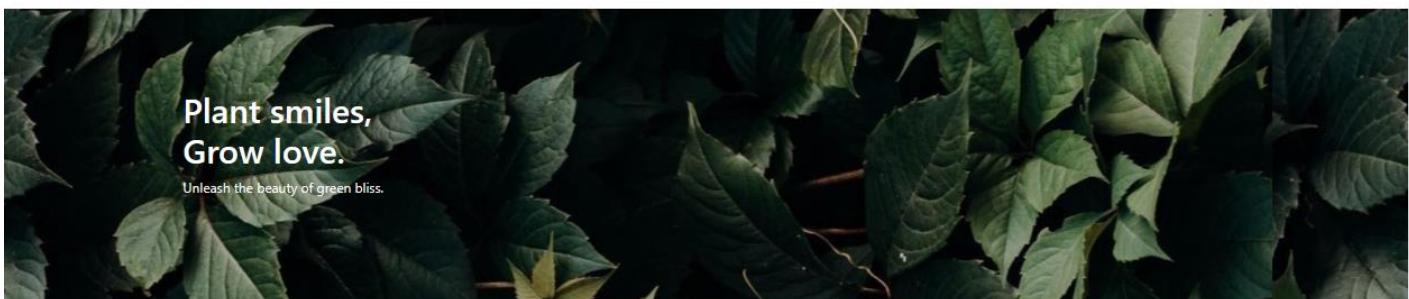
[Reset all](#)

[Submit form](#)

❖ Home Page

 Green Bliss Hi,Shivani Awatade.

Home Shop  (0) 



CATEGORIES



Plants



Seeds



Tools



❖ Products Page



Green Bliss Hi,Shivani Awatade.

Home Shop (0)

Categories

Plants
Seeds
Accessories
Soils
Compost & Fertilizers
Tools



Miniature Rose, Button Rose

Button Rose is a perennial flowering shrub plant. Roses are best ornamental plants. What makes it special: One of the best flowering plants. Provide year-round flowering. Perfect plant for outdoor garden and sunny balcony. Rose is considered as a symbol of balance.

₹ 299

Free shipping

Only 60 Units left in stock.. !!

Add To Cart



Jasminum sambac, Mogra

Flowers make intimate connections they increase our connectivity with family and friends. Mogra plant is famously known as Jasmine flower, it is one of the most beautiful and fragrant among all flowering plants in Asia. What makes it special: One of the popular fragrant flowering plant. Provide year-round flowering. Very easy to grow and care.

₹ 299

Free shipping

Only 80 Units left in stock.. !!

Add To Cart



Peace Lily, Spathiphyllum

Peace Lily Plant is a very popular and very rare indoor flowering houseplant. It is also an excellent air purifier plant. What makes it special: One of the rarest indoor flowering plant. NASA recommended air purifier flowering plant. Easy to care and low maintenance plant. Best for office desk, bedroom.

₹ 169

Free shipping

Only 43 Units left in stock.. !!

Add To Cart



❖ Cart

Green Bliss Hi ,Shivani Awatad...

Your cart

Item Name	Product Photo	Price	Quantity	Total Price	Action
Jasminum sambac, Mogra		₹299	1	₹299	<button>Remove</button>
Polestar (Organic Food Waste Compost) - 1 kg (Set of 2)		₹216	1	₹216	<button>Remove</button>
Gardening Water Can (5 ltr)		₹359	1	₹359	<button>Remove</button>
Plastic Hand Trowel No. 1021		₹159	1	₹159	<button>Remove</button>

Total Price : ₹1033

Close CheckOut

₹ 99
Free shipping
Add To Cart

₹ 159
Free shipping
Add To Cart

❖ Checkout Page

 Green Bliss Hi ,Shivani Awatade.

[Home](#) [Shop](#) [!\[\]\(a18b232d3d58c88dd6b4079e1009e65c_img.jpg\) \(4\)](#) [...](#)

Your selected products

Item Name	Product Photo	Price	Quantity	Total Price	Action
Jasminum sambac, Mogra		₹299	1	₹299	Remove
Polestar (Organic Food Waste Compost) - 1 kg (Set of 2)		₹216	1	₹216	Remove
Gardening Water Can (5 ltr)		₹359	1	₹359	Remove
Plastic Hand Trowel No. 1021		₹159	1	₹159	Remove

Total Price : ₹1033

Order details

Receiver's Name

Receiver's Email

Receiver's Phone

Receiver's Address

Amount : ₹1033

[Pay Now](#) [Cancel](#)

❖ Payment Form

 Green Bliss Hi ,Shivani Awatade.

Home Shop  (0) ::

Pay via QR code

UPI ID: 8956565186@paytm
Paytm: 8956565186



Scan this QR or send money to 8956565186 from any app. Money will reach in Suraj Prakash Katole's bank account.

Enter Your Payment/Transaction Id

Submit Payment

stripe

Pay via card

Accepted Cards
   

Amount : ₹1033

Cardholder's Name

SHIVANI AWATADE

Card Number

2345 4567 4657 4758

Expiry Month

03

Expiry Year

2026

CVV

Confirm and Proceed

❖ **Payment Success**



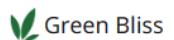
Hi ,Shivani Awatade.

Your payment is successful and Order has been placed.

Payment ID : **pi_3NR6dISDObmvo1e71EY9UQ6t**

[Return to Home](#)

❖ Orders



Hi ,Shivani Awatade.

Home Shop (0)

Your Orders

Order Id : 1

Jasminum sambac, Mogra : -- 1
Units

Peace Lily, Spathiphyllum : -- 1
Units

General Purpose Garden
Potting Soil Mix - 5 kg : -- 1
Units

User Email : shivani@gmail.com

Status : Payment Pending

Address : Sarkar Nagar, Chandrapur

Amount : ₹ 767

Date : 2023/04/30 08:18:36

[Make Payment](#)

[Delete Order](#)

Order Id : 2

Jasminum sambac, Mogra : -- 1
Units

Peace Lily, Spathiphyllum : -- 1
Units

General Purpose Garden
Potting Soil Mix - 5 kg : -- 1
Units

User Email : shivani@gmail.com

Status : Payment Pending

Address : Sarkar Nagar, Chandrapur

Amount : ₹ 767

Date : 2023/06/13 08:32:41

[Make Payment](#)

[Delete Order](#)

❖ Tickets

 Green Bliss Hi ,Shivani Awatade.

Home Shop  (0) 

Manage Tickets

User : Shivani Awatade

Ticket Id : 1

Defected piece

Hi, I received a defective piece i wanted to know the replacement process.

Response :

❖ Support

Raise a ticket



Raise a Ticket

Please fill in the information below

Subject

Defected piece

Description

Hi, I received a defective piece i wanted to know
the replacement process.

Raise Ticket

❖ Admin Login



Login Signup



Admin Login

Welcome back Admin!

An input field containing the email address "admin1@gmail.com".

Email address

An input field showing a masked password "*****".

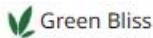
Password

Login

[Forgot password?](#)

[New Admin? Sign Up](#)

❖ Admin Signup



[Login](#) [Signup](#)



Admin Sign Up

Please fill in the information below.

Full name

E-Mail

Set Password

(Password must be 8-12 characters. Must contain at least one number and one uppercase and lowercase letter, and at least 8 or more characters.)

Phone (+91)

Address

(Enter 10 digit phone number)

Already have an account? [Login](#)

[Reset all](#)

[Submit form](#)

❖ Admin Dashboard



[Dashboard](#) [Logout](#)

Welcome back, Admin

Easily manage your store from here.

Manage Products

Manage all the products here

[Manage](#)

Add Products

Add new products here.

[Add](#)

Orders

Manage all the orders here

[Manage](#)

Feedbacks

Manage all the feedbacks here

[Manage](#)

Tickets

Manage all the tickets here

[Manage](#)

Analyze sales

Analyze all the sales here

[View](#)

❖ Manage Products



Dashboard Logout

Categories

- Plants
- Seeds
- Accessories
- Soils
- Compost & Fertilizers
- Tools

Manage Products



Miniature Rose, Button Rose

60 items in stock

Button Rose is a perennial flowering shrub plant. Roses are best ornamental plants. What makes it special: One of the best flowering plants Provide year-round flowering. Perfect plant for outdoor garden and sunny balcony. Rose is considered as a symbol of balance.

Update Price :

299

Update Quantity :

-

60

+

[Update Product](#)

[Delete product](#)



Jasminum sambac, Mogra

79 items in stock

Flowers make intimate connections they increase our connectivity with family and friends. Mogra plant is famously known as Jasmine flower, it is one of the most beautiful and fragrant among all flowering plants in Asia. What makes it special: One of the popular fragrant flowering plant.

Update Price :

299

Update Quantity :

-

79

+

[Update Product](#)

❖ Add new product



[Dashboard](#) [Logout](#)



Add new product

Fill in the product details

Product name

Product details

Price(₹)

Product units

Product category

product category

Product image

No file chosen

❖ Manage Orders



Dashboard Logout

Manage Orders

Order Id : 1

Jasminum sambac, Mogra : -- 1
Units

Peace Lily, Spathiphyllum : -- 1
Units

General Purpose Garden
Potting Soil Mix - 5 kg : -- 1
Units

User Email : shivani@gmail.com

Status : Payment Pending

Address : Sarkar Nagar, Chandrapur

Amount : ₹ 767

Date : 2023/04/30 08:18:36

Complete Order

Accept Order

Order Id : 2

Jasminum sambac, Mogra : -- 1
Units

Peace Lily, Spathiphyllum : -- 1
Units

General Purpose Garden
Potting Soil Mix - 5 kg : -- 1
Units

User Email : shivani@gmail.com

Status : Payment Pending

Address : Sarkar Nagar, Chandrapur

Amount : ₹ 767

Date : 2023/06/13 08:32:41

Complete Order

Accept Order

Order Id : 3

Jasminum sambac, Mogra : -- 1
Units

Peace Lily, Spathiphyllum : -- 1
Units

General Purpose Garden

User Email : shivani@gmail.com

Status : Payment Pending

Address : Sarkar Nagar, Chandrapur

Amount : ₹ 767

Date : 2023/05/23 18:24:17

Complete Order

Accept Order

❖ Manage Tickets



[Dashboard](#) [Logout](#)

Manage Tickets

User : Shivani Awatade

Ticket Id : 1

Defected piece

Hi, I received a defective piece i wanted to know the replacement process.

Response :

Write Response

Sure we'll replace the c

Respond

❖ Analysis (Reports)

Green Bliss

Dashboard Logout

1 Products



Daily products sales

18 Products



Monthly prod. sales

3.0



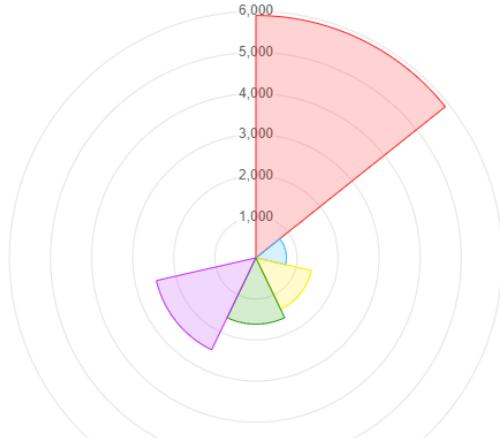
Rating

₹ 12130

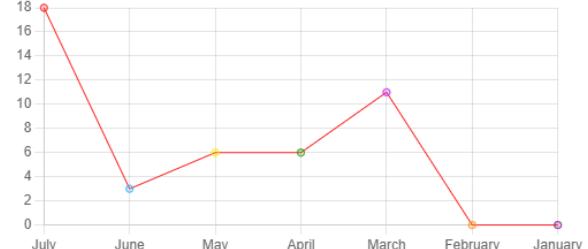


Total Earnings

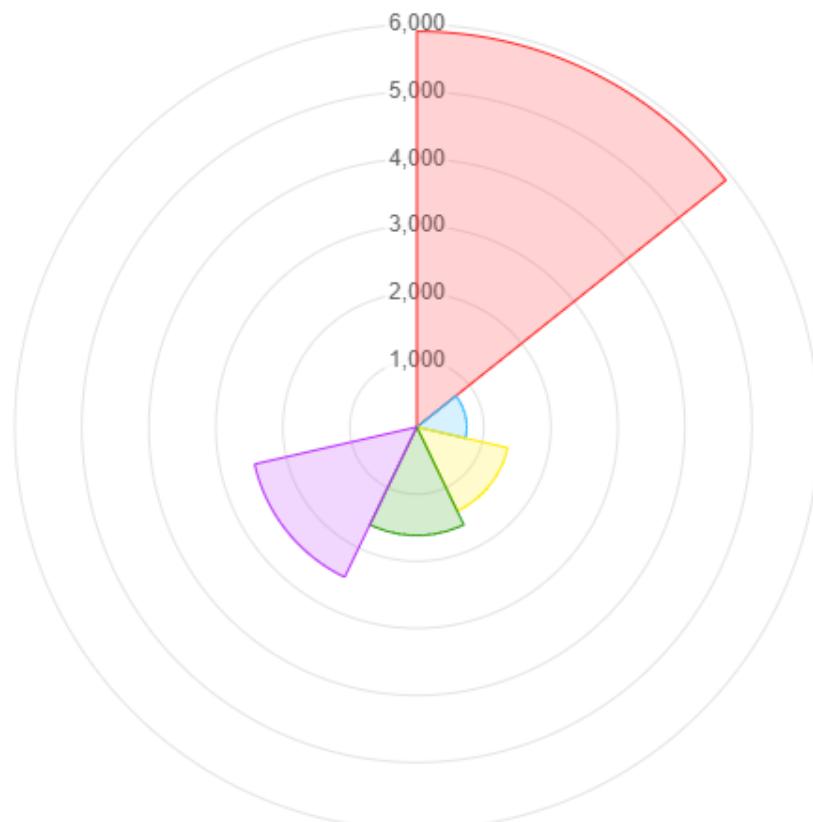
July June May April March
February January

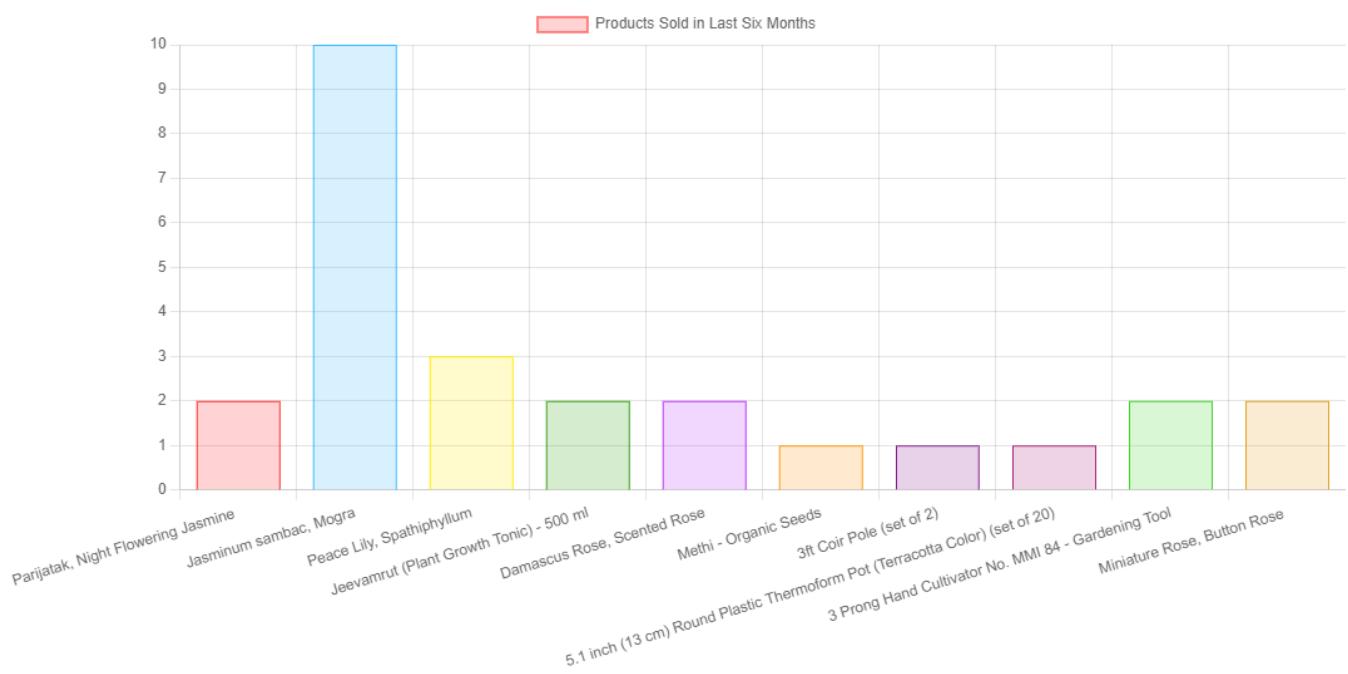
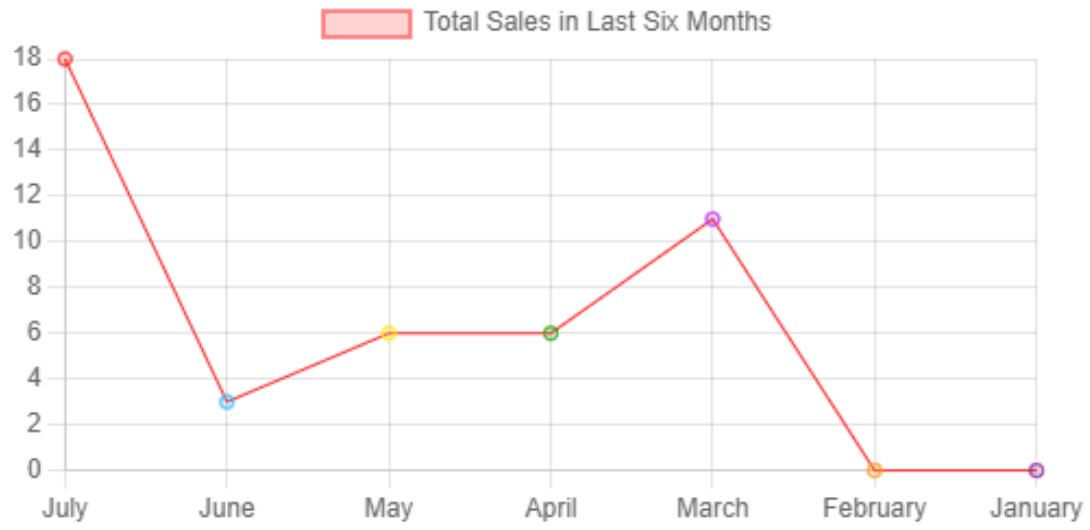


18 Total Sales in Last Six Months



July June May April March
February January





CHAPTER 4: CODING

4.1 Code Snippets

- **Maincontroller.java**

```
package com.greenbliss;

import java.io.File;

import com.greenbliss.dao.ProductDao;

import jakarta.servlet.http.HttpSession;

import org.springframework.beans.factory.annotation.Value;

import org.springframework.context.ApplicationContext;

import org.springframework.stereotype.Controller;

import org.springframework.ui.Model;

import org.springframework.web.bind.annotation.*;

import org.springframework.web.multipart.MultipartFile;

import com.greenbliss.dao.AdminRepository;

import com.greenbliss.dao.CustomerRepository;

import com.greenbliss.dao.ProductRepository;

import com.greenbliss.entities.Admin;

import com.greenbliss.entities.Customer;

import com.greenbliss.entities.Product;

@Controller

public class MainController {

    @RequestMapping("/login")

    public String login(HttpSession httpSession) {

        httpSession.removeAttribute("currentuser");

        return "login";}

    @RequestMapping("/signup")

    public String signup() {

        return "signup";}

    @RequestMapping("/index")

    public String index() {

        return "index";}}
```

```

@RequestMapping("/products")
public String products(HttpServletRequest httpSession) {
    if(httpSession.getAttribute("currentuser")==null) {
        return "alerts/alertNotLoggedIn";
    }
    httpSession.setAttribute("prod", "All");
    return "products";
}

@RequestMapping("/productsCategory")
public String productsCategory(HttpServletRequest httpSession , @RequestParam String category) {
    if(httpSession.getAttribute("currentuser")==null) {
        return "alerts/alertNotLoggedIn";
    }
    httpSession.setAttribute("prod", category);
    System.out.println(category);
    return "productsCategory";
}

@RequestMapping("/adminlogin")
public String adminlogin(HttpServletRequest httpSession) {
    httpSession.removeAttribute("currentuser");
    return "adminlogin";
}

@RequestMapping("/adminssignup")
public String adminssignup() {
    return "adminssignup";
}

@RequestMapping("/addproducts")
public String addproducts(HttpServletRequest httpSession) {
    if(httpSession.getAttribute("currentuser")==null) {
        return "alerts/alertNotLoggedInAdmin";
    }
    return "addproducts";
}

@RequestMapping("/admindash")
public String admindash(HttpServletRequest httpSession) {
    if(httpSession.getAttribute("currentuser")==null) {
        return "alerts/alertNotLoggedInAdmin";
    }
    return "admindash";
}

```

```

@RequestMapping("/manageproducts")
public String manageproducts(HttpServletRequest httpSession) {
    if(httpSession.getAttribute("currentuser")==null) {
        return "alerts/alertNotLoggedInAdmin";
    }
    return "manageproducts";
}

@RequestMapping("/manageproductsCategory")
public String manageproductsCategory(HttpServletRequest httpSession ,
    @RequestParam String category) {
    if(httpSession.getAttribute("currentuser")==null) {
        return "alerts/alertNotLoggedInAdmin";
    }
    httpSession.setAttribute("prod", category);
    System.out.println(category);
    return "manageproductsCategory";
}

@RequestMapping(value = "/checkout")
public String checkout(HttpServletRequest httpSession) {
    if(httpSession.getAttribute("currentuser")==null) {
        return "alerts/alertNotLoggedIn";
    }
    return "checkout";
}

@RequestMapping("/ticket")
public String ticket(HttpServletRequest httpSession) {
    if(httpSession.getAttribute("currentuser")==null) {
        return "alerts/alertNotLoggedIn";
    }
    return "ticket";
}

@RequestMapping("/adminorders")
public String adminorders(HttpServletRequest httpSession) {
    if(httpSession.getAttribute("currentuser")==null) {
        return "alerts/alertNotLoggedIn";
    }
    return "adminorders";
}

@RequestMapping("/managetickets")
public String managetickets(HttpServletRequest httpSession) {
    if(httpSession.getAttribute("currentuser")==null) {

```

```
return "alerts/alertNotLoggedIn"; }

return "managetickets"; }

@RequestMapping("/managefeedbacks")
public String managefeedbacks(HttpServletRequest httpSession) {
    if(httpSession.getAttribute("currentuser")==null) {
        return "alerts/alertNotLoggedIn"; }
    return "managefeedbacks"; }

@RequestMapping("/myorders")
public String myorders(HttpServletRequest httpSession) {
    if(httpSession.getAttribute("currentuser")==null) {
        return "alerts/alertNotLoggedIn"; }
    return "myorders"; }

@RequestMapping("/analysis")
public String analysis(HttpServletRequest httpSession) {
    if(httpSession.getAttribute("currentuser")==null) {
        return "alerts/alertNotLoggedIn"; }
    return "analysis"; }

@RequestMapping("/userprofile")
public String userProfile(HttpServletRequest httpSession) {
    if(httpSession.getAttribute("currentuser") == null) {
        return "alerts/alertNogLoggedIn"; }
    else {
        return "userprofile"; } }

@RequestMapping("/mytickets")
public String myTickets(HttpServletRequest httpSession) {
    if (httpSession.getAttribute("currentuser") == null) {
        return "alerts/alertNotLoggedIn"; }
    else {
        return "mytickets"; } }
```

- **Analysis.jsp**

```

<%@ page import="com.greenbliss.dao.ProductDao" %>
<%@ page import="java.time.format.DateTimeFormatter" %>
<%@ page import="java.time.LocalDateTime" %>
<%@ page import="com.greenbliss.dao.OrderDao" %>
<%@ page import="java.time.LocalDate" %>
<%@ page import="org.json.JSONArray" %>
<%@ page import="org.json.JSONObject" %>
<%@ page import="java.time.YearMonth" %>
<%@ page import="com.greenbliss.dao.FeedbackDao" %>
<%@ page import="com.greenbliss.entities.*" %>
<%@ page import="java.time.Month" %>
<%@ page import="java.time.format.TextStyle" %>
<%@ page import="java.util.*" %>
<!doctype html>
<html lang="en" xmlns:th="http://www.thymeleaf.org">
<%--<%--%>
<%--      Customer customer = (Customer) session.getAttribute("current-user")--%>
<%--<%--%>--%>
<head>
    <meta charset="UTF-8">
    <meta name="viewport"
          content="width=device-width, user-scalable=no, initial-scale=1.0,
maximum-scale=1.0, minimum-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>GreenBliss - Analyze sales</title>
</head>
<body style="margin-bottom:100px;">
<%@ include file="components/adminloggedinnav.jsp" %>
<%
    OrderDao orderDao = new OrderDao();
    List<Orders> ordersList = orderDao.getAllOrders();
    DateTimeFormatter dtf = DateTimeFormatter.ofPattern("yyyy/MM/dd
HH:mm:ss");
    LocalDateTime now = LocalDateTime.now();
    LocalDate nowDate = LocalDate.now();
    YearMonth nowMonth = YearMonth.now();
    String nowdatetime = dtf.format(now);

    int dailySales =0;
    int monthlySales=0;
    int earnings =0;

    for(Orders order: ordersList)
    {
        if(!order.getOstatus().contains("Pending"))
        {
            earnings += order.getOtatalamt();
            String odate = order.getDate();

```

```

    LocalDateTime orderDate = LocalDateTime.parse(odate, dtf);
    if (orderDate.toLocalDate().equals(nowDate)) {
        JSONArray jsonArray = new JSONArray(order.getOprods());

        for (int i = 0; i < jsonArray.length(); i++) {
            JSONObject productObj = jsonArray.getJSONObject(i);
            int productUnits = productObj.getInt("productUnits");

            dailySales += productUnits;  }
    }
    if (orderDate.getMonth().equals(nowMonth.getMonth())) {
        JSONArray jsonArray = new JSONArray(order.getOprods());

        for (int i = 0; i < jsonArray.length(); i++) {
            JSONObject productObj = jsonArray.getJSONObject(i);
            int productUnits = productObj.getInt("productUnits");

            monthlySales += productUnits;
        } } } }%>
<%
FeedbackDao feedbackDao = new FeedbackDao();
List<Feedback> feedbackList = feedbackDao.getAllFeedbacks();
float avgRating = 0;
for(Feedback feedback: feedbackList)
{
    avgRating+=feedback.getFrating();
}
avgRating = avgRating/feedbackList.size();%>
<%
ArrayList<String> lastSixMonths = new ArrayList<>();
ArrayList<Integer> lastSixMonthsSales = new ArrayList<>();
ArrayList<Integer> lastSixMonthsEarnings = new ArrayList<>();
HashMap<String, Integer> lastSixMonthProductSales = new HashMap<>();
ArrayList<String> prodNamesopten = new ArrayList<>();
ArrayList<String> prodNames = new ArrayList<>();
ArrayList<Integer> pUnitstoften = new ArrayList<>();
ArrayList<Integer> pUnits = new ArrayList<>();

for (int k = 0; k <= 6; k++) {
    int prodUnits=0;
    int totalEarnings=0;
    LocalDate previousMonth = nowDate.minusMonths(k);
    Month month = previousMonth.getMonth();
    for(Orders order : ordersList)
    {
        if(!order.getOstatus().contains("Pending")) {
            String odate = order.getOdate();
            LocalDateTime orderDate = LocalDateTime.parse(odate, dtf);
            if (orderDate.getMonth().getValue() == month.getValue() &&
            orderDate.getYear() == previousMonth.getYear()) {
                JSONArray jsonArray = new JSONArray(order.getOprods());

```

```

        for (int j = 0; j < jsonArray.length(); j++) {
            JSONObject productObj = jsonArray.getJSONObject(j);
            String productName =
productObj.getString("productName");
            int productUnits = productObj.getInt("productUnits");

            prodUnits += productUnits;

            if (lastSixMonthProductSales.containsKey(productName)) {
                int value =
lastSixMonthProductSales.get(productName);
                value += productUnits;
                lastSixMonthProductSales.replace(productName,
value);
            } else {
                lastSixMonthProductSales.put(productName,
productUnits);
            }
            totalEarnings += order.getTotalamt();
        }
        String monthName = month.getDisplayName(TextStyle.FULL,
Locale.ENGLISH);

        lastSixMonths.add("'" + monthName + "'");
        lastSixMonthsSales.add(prodUnits);
        lastSixMonthsEarnings.add(totalEarnings);    }

    for(Map.Entry<String, Integer> entry :
lastSixMonthProductSales.entrySet())    {
        prodNames.add("'" + entry.getKey() + "'");
        pUnits.add(entry.getValue());    }
    if(prodNames.size()>10){
        for(int g=0;g<10;g++){
            prodNamesToTen.add(prodNames.get(g));
            pUnitsToTen.add(pUnits.get(g));
        }
    }
    else{
        prodNamesToTen.addAll(prodNames);
        pUnitsToTen.addAll(pUnits);    }
    System.out.println(prodNamesToTen);
    System.out.println(pUnitsToTen);
    System.out.println(prodNames);
    System.out.println(pUnits);
%>
<div class="container">
    <div class="row">
        <div class="col-sm-3 pt-3" >
            <div class="card" style="background-color:white; border-
radius:20px; box-shadow: 5px 5px 5px 5px rgba(0,0,0,.1);">
                <div class="card-body">

```

```

<div style="float:right;"><ion-icon name="cart-outline" style="font-size:3em;"></ion-icon></div>
Products</h4>
<h4 class="card-title"><%=dailySales%>&nbsp
<p class="card-text" style="font-size:18px;">Daily products sales</p>
</div>
</div>
</div>
<div class="col-sm-3 pt-3" >
<div class="card" style="background-color:white; border-radius:20px; box-shadow: 5px 5px 5px 5px rgba(0,0,0,.1);">
<div class="card-body">
<div style="float:right;"><ion-icon name="calendar-outline" style="font-size:3em;"></ion-icon></div>
<h4 class="card-title"><%=monthlySales%>&nbsp
Products</h4>
<p class="card-text" style="font-size: 18px;">Monthly
prod. sales</p>
</div>
</div>
</div>
<div class="col-sm-3 pt-3" >
<div class="card" style="background-color:white; border-radius:20px; box-shadow: 5px 5px 5px 5px rgba(0,0,0,.1);">
<div class="card-body">
<div style="float:right;"><ion-icon name="star-outline" style="font-size:3em;"></ion-icon></div>
<h4 class="card-title"><%=avgRating%></h4>
<p class="card-text" style="font-size:18px;">Rating</p>
</div>
</div>
</div>
<div class="col-sm-3 pt-3" >
<div class="card" style="background-color:white; border-radius:20px; box-shadow: 5px 5px 5px 5px rgba(0,0,0,.1);">
<div class="card-body">
<div style="float:right;"><ion-icon name="cash-outline" style="font-size:3em;"></ion-icon></div>
<h4 class="card-title">฿ <%=earnings%></h4>
<p class="card-text" style="font-size: 18px;">Total
Earnings</p>
</div></div></div></div>
<div class="row">
<div class="col-sm-6 pt-3" >
<div class="card" style="background-color:white; border-radius:20px; box-shadow: 5px 5px 5px 5px rgba(0,0,0,.1);">
<div class="card-body">
<div>

```

```

                <canvas id="myChart3"></canvas>
            </div>
        </div>
    </div>
<div class="col-sm-6 pt-3" >
    <div class="card" style="background-color:white;border-radius:20px;box-shadow: 5px 5px 5px 5px rgba(0,0,0,.1);">
        <div class="card-body">
            <div>
                <canvas id="myChart2" ></canvas>
            </div>
        </div>
    </div>
    <div class="row">
        <div class="col-sm-12 pt-3" >
            <div class="card" style="background-color:white;border-radius:20px;box-shadow: 5px 5px 5px 5px rgba(0,0,0,.1);">
                <div class="card-body">
                    <div>
                        <canvas id="myChart"></canvas>
                    </div>
                </div>
            </div>
        </div>
    </div>
</div>
</body>
<script>
// bar chart
const btx = document.getElementById('myChart');
new Chart(btx, {
    type: 'bar',
    data: {
        labels: <%=prodNamestoopen%>,
        datasets: [{
            label: 'Products Sold in Last Six Months',
            data: <%=pUnitstoopen%>,
            borderWidth: 1,
            backgroundColor: [
                'rgba(254, 36, 36 ,0.2)',
                'rgba(54, 187, 253 ,0.2)',
                'rgba(255, 236, 0 ,0.2)',
                'rgba(47, 160, 17 ,0.2)',
                'rgba(187, 48, 252 ,0.2)',
                'rgba(254, 151, 19 ,0.2)',
                'rgba(134, 30, 144 ,0.2)',
                'rgba(172, 35, 120 ,0.2)'
            ]
        }]
    }
})

```

```

        'rgba(65, 213, 42 ,0.2)',
        'rgba(225, 162, 37 ,0.2)',
        'rgba(37, 225, 208 ,0.2)',
        'rgba(28, 49, 255 ,0.2)'
    ],
    borderColor: [
        'rgba(254, 36, 36 ,1)',
        'rgba(54, 187, 253 ,1)',
        'rgba(255, 236, 0 ,1)',
        'rgba(47, 160, 17 ,1)',
        'rgba(187, 48, 252 ,1)',
        'rgba(254, 151, 19 ,1)',
        'rgba(134, 30, 144 ,1)',
        'rgba(172, 35, 120 ,1)',
        'rgba(65, 213, 42 ,1)',
        'rgba(225, 162, 37 ,1)',
        'rgba(37, 225, 208 ,1)',
        'rgba(28, 49, 255 ,1)'
    ],
},
options: {
    responsive: true,
}
});
//Line chart

const ptx = document.getElementById('myChart2');

new Chart(ptx, {
    type: 'line',
    data: {
        labels: <%=lastSixMonths%>,
        datasets: [{
            label: 'Total Sales in Last Six Months',
            data: <%=lastSixMonthsSales%>,
            borderWidth: 1,
            backgroundColor: [
                'rgba(254, 36, 36 ,0.2)',
                'rgba(54, 187, 253 ,0.2)',
                'rgba(255, 236, 0 ,0.2)',
                'rgba(47, 160, 17 ,0.2)',
                'rgba(187, 48, 252 ,0.2)',
                'rgba(254, 151, 19 ,0.2)',
                'rgba(134, 30, 144 ,0.2)',
                'rgba(172, 35, 120 ,0.2)',
                'rgba(65, 213, 42 ,0.2)',
                'rgba(225, 162, 37 ,0.2)',
                'rgba(37, 225, 208 ,0.2)',
                'rgba(28, 49, 255 ,0.2)'
            ]
        }]
    }
});
```

```

        ],
        borderColor: [
          'rgba(254, 36, 36 ,1)',
          'rgba(54, 187, 253 ,1)',
          'rgba(255, 236, 0 ,1)',
          'rgba(47, 160, 17 ,1)',
          'rgba(187, 48, 252 ,1)',
          'rgba(254, 151, 19 ,1)',
          'rgba(134, 30, 144 ,1)',
          'rgba(172, 35, 120 ,1)',
          'rgba(65, 213, 42 ,1)',
          'rgba(225, 162, 37 ,1)',
          'rgba(37, 225, 208 ,1)',
          'rgba(28, 49, 255 ,1)'
        ],
      },
    options: {
      responsive: true,
    });
//Polar area
const ltx = document.getElementById('myChart3');

new Chart(ltx, {
  type: 'polarArea',
  data: {
    labels: <%=lastSixMonths%>,
    datasets: [{
      label: 'Total Earnings in Last Six Months',
      data: <%=lastSixMonthsEarnings%>,
      borderWidth: 1,
      backgroundColor: [
        'rgba(254, 36, 36 ,0.2)',
        'rgba(54, 187, 253 ,0.2)',
        'rgba(255, 236, 0 ,0.2)',
        'rgba(47, 160, 17 ,0.2)',
        'rgba(187, 48, 252 ,0.2)',
        'rgba(254, 151, 19 ,0.2)',
        'rgba(134, 30, 144 ,0.2)',
        'rgba(172, 35, 120 ,0.2)',
        'rgba(65, 213, 42 ,0.2)',
        'rgba(225, 162, 37 ,0.2)',
        'rgba(37, 225, 208 ,0.2)',
        'rgba(28, 49, 255 ,0.2)'
      ],
      borderColor: [
        'rgba(254, 36, 36 ,1)',
        'rgba(54, 187, 253 ,1)',
        'rgba(255, 236, 0 ,1)',
        'rgba(47, 160, 17 ,1)',
        'rgba(187, 48, 252 ,1)',
        'rgba(254, 151, 19 ,1)'
      ]
    }]
  }
});

```

```
'rgba(134, 30, 144 ,1)',  
'rgba(172, 35, 120 ,1)',  
'rgba(65, 213, 42 ,1)',  
'rgba(225, 162, 37 ,1)',  
'rgba(37, 225, 208 ,1)',  
'rgba(28, 49, 255 ,1)'  
],  
]  
},  
options: {  
    responsive: true,  
}  
});  
  
</script>  
</html>
```

- **Admin.java**

```
package com.greenbliss.entities;

import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;

@Entity
public class Admin {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(length = 10)
    private int aid;
    @Column(length = 20)
    private String fname;
    @Column(length = 20)
    private String lname;
    @Column(length = 20)
    private String address;
    @Column(length = 10)
    private String city;
    @Column(length = 10)
    private String pincode;
    @Column(length = 10)
    private String state;
    @Column(length = 10)
    private String country;
    @Column(length = 10)
    private String phone;
    @Column(length = 10)
    private String email;
    @Column(length = 10)
    private String password;
    @Column(length = 10)
    private String mobno;

    public Admin(int aid, String fname, String lname, String address,
                String city, String pincode, String state, String country,
                String phone, String email, String password, String mobno) {
        this.aid = aid;
        this.fname = fname;
        this.lname = lname;
        this.address = address;
        this.city = city;
        this.pincode = pincode;
        this.state = state;
        this.country = country;
        this.phone = phone;
        this.email = email;
        this.password = password;
        this.mobno = mobno;
    }

    public Admin(String fname, String lname, String address,
                String city, String pincode, String state, String country,
                String phone, String email, String password, String mobno) {
        this.fname = fname;
        this.lname = lname;
        this.address = address;
        this.city = city;
        this.pincode = pincode;
        this.state = state;
        this.country = country;
        this.phone = phone;
        this.email = email;
        this.password = password;
        this.mobno = mobno;
    }

    public Admin() {
    }

    public int getAid() {
        return aid;
    }
}
```

```
}

public void setAid(int aid) {
    this.aid = aid;
}

public String getAname() {
    return fname;
}

public void setAname(String fname) {
    this.fname = fname;
}

public String getApass() {
    return apass;
}

public void setApass(String apass) {
    this.apass = apass;
}

public String getAmail() {
    return amail;
}

public void setAmail(String amail) {
    this.amail = amail;
}

public String getAmob() {
    return amob;
}

public void setAmob(String amob) {
    this.amob = amob;      }
@Override
public String toString() {
    return "admin{" + "aid=" + aid + ", fname=" + fname + ", "
apass=" + apass + ", amail=" + amail + ", amob=" + amob + '}';
}
}
```

CHAPTER 5: TESTING

CHAPTER 5: TESTING

5.1 Test Strategy

The major aim while developing this project was to deliver a bug free application that is functional in every aspect and serves the purpose for which it was created in first place. To deliver a bug free software, this project has been through various testing phases. Testing is the process of execution of the program with explicit intention of searching for errors. A successful test is one that reveals errors in the system. Test cases are designed with intent of determining whether the system will process it in the correct & pre-planned order. Testing is a step, which is actual usage of the system to remove the various discrepancies present. The strategy chosen by me is the traditional one that follows all the rules and regulations that comes with SDLC i.e. Software Development Life Cycle. It goes through all the steps in testing phase a software does in SDLC. This project has been through every level of testing. Testing levels are the procedure for finding the missing areas and avoiding overlapping and repetition between the development life cycle stages. In order to test any application, we need to go through all the phases of SDLC. Like SDLC, we have multiple levels of testing, which help us maintain the quality of the software.

5.2 Unit Test Plan

Unit testing is the first level of software testing, which is used to test if software modules are satisfying the given requirement or not. The first level of testing involves analyzing each unit or an individual component of the software application. Unit testing is also the first level of functional testing. The primary purpose of executing unit testing is to validate unit components with their performance. A unit component is an individual function or regulation of the application, or we can say that it is the smallest testable part of the software. The reason of performing the unit testing is to test the correctness of inaccessible code. Every module of this project has been through unit testing. All of them has been tested individually through every scenario. The login and registration pages has been tested by entering valid as well as invalid credentials and the bugs has been fixed. The product, cart, payments, ticket and feedback module has been tested through every perspective and have returned positive results.

5.3 Acceptance Testing

The final level of software testing is acceptance testing, which is used to evaluate whether a specification or the requirements are met as per its delivery. The web application has passed through three testing levels. Some minor errors can still be identified when the end-user uses the system in the actual scenario. In simple words, we can say that Acceptance testing is the squeezing of all the testing processes that are previously done.

5.4 Test cases

Test Case ID	Test Case Description		Expected output	Actual Output	Pass /Fail	Result
	Scenario	Action				
TC-01	Check whether login page is loaded successfully with all components	User enters the url "http://localhost:8080/greenbliss/" in the url textbox in the browser	User should be able to enter the url	User is able to enter the url	Pass	Url is successfully entered into url textbox
		User hits enter	Login Page should be loaded	Login Page is loaded	Pass	Login Page is loaded successfully
		User verifies all the components of Login Page	All components of Login Page should be visible	All components of Login Page are visible	Pass	All components of Login Page verified successfully
TC-02	Check the login functionality with valid credentials	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully
TC-03	Check the login functionality with invalid credentials	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User enters invalid credentials in Username and Password fields and clicks Login button	User should be able to enter invalid credentials in Username and Password fields and clicks Login button	User entered invalid credentials in Username and Password fields and clicked Login button successfully	Pass	User login failed
TC-04	Check whether Home page is loaded successfully	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully

	with all components					
		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully
		User validates if Homepage is loaded successfully with all components	All components of Home Page should be visible	All components of Home Page are visible	Pass	All components of Home Page verified successfully
TC-05	Check whether Sign Up Page is loaded successfully with all components	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User navigates to Sign up page from "Sign Up" Tab	User should be able to navigate to Sign up page from "Sign Up" Tab	User is able to navigate to Sign up page from "Sign Up" Tab	Pass	User is navigated to Sign Up page successfully
		User validates if Sign Up Page is loaded successfully with all components	All components of Sign Up Page should be visible	All components of Sign Up Page are visible	Pass	All components of Sign Up Page verified successfully
TC-06	Check the Sign Up functionality with valid credentials	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User navigates to Sign up page from "Sign Up" Tab	User should be able to navigate to Sign up page from "Sign Up" Tab	User is able to navigate to Sign up page from "Sign Up" Tab	Pass	User is navigated to Sign Up page successfully
		User enters valid credentials and details in Sign Up page	User should be able to enter valid credentials and details in Sign Up page	User is able to enter valid credentials and details in Sign Up page	Pass	User entered valid credentials and details in Sign Up page

		User clicks on Sign Up button	User should be signed up successfully and Pop up is displayed for successful sign up	User is signed up successfully and Pop up is displayed for successful sign up	Pass	User is successfully signed up
TC-07	Check the Sign Up functionality with invalid credentials	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User navigates to Sign up page from "Sign Up" Tab	User should be able to navigate to Sign up page from "Sign Up" Tab	User is able to navigate to Sign up page from "Sign Up" Tab	Pass	User is navigated to Sign Up page successfully
		User enters invalid credentials and details in Sign Up page	User should be able to enter invalid credentials and details in Sign Up page	User is able to enter invalid credentials and details in Sign Up page	Pass	User entered invalid credentials and details in Sign Up page
		User clicks on Sign Up button	Pop up should be displayed for invalid details	Pop up is displayed for invalid details		User Sign up failed
TC-08	Check the Search functionality for Valid Product Name	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully
		User enters valid Product name in Search box and clicks Search button	User should be navigated to Product description Page	User is navigated to Product description Page	Pass	Product description page is loaded successfully
TC-09	Check the Search functionality for invalid Product Name	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully

		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully
		User enters invalid Product name in Search box and clicks Search button	User should be navigated to "No Products with entered text" Page	User is navigated to "No Products with entered text" Page	Pass	No Products with entered text" page is loaded successfully
TC-10	Check the Product Description page and its components	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully
		User enters valid Product name in Search box and clicks Search button	User should be navigated to Product description Page	User is navigated to Product description Page	Pass	Product description page is loaded successfully
		User validates all the components of Product Description page	All the components of Product Description page should be displayed	All the components of Product Description page is displayed	Pass	All components of Product Description Page verified successfully
TC-11	Check the Add to cart functionality	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully
		User enters valid Product name in Search box and clicks Search button	User should be navigated to Product description Page	User is navigated to Product description Page	Pass	Product description page is loaded successfully

		User selects a product and clicks Add to cart button	Product should be added to cart and pop up should be displayed for success	Product is added to cart and pop up is displayed for success	Pass	Product added to cart successfully
TC-12	Check the Cart page and its components	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully
		User enters valid Product name in Search box and clicks Search button	User should be navigated to Product description Page	User is navigated to Product description Page	Pass	Product description page is loaded successfully
		User selects a product and clicks Add to cart button	Product should be added to cart and pop up should be displayed for success	Product is added to cart and pop up is displayed for success	Pass	Product added to cart successfully
		User clicks on Cart Button	User should be navigated to cart page	User is navigated to cart page	Pass	Cart page loaded successfully
		User validates all the components of Cart page	All the components of Cart page should be displayed	All the components of Cart page is displayed	Pass	All components of Cart Page verified successfully
TC-13	Check the Payment functionality	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully
		User enters valid Product name in Search box and clicks Search button	User should be navigated to Product description Page	User is navigated to Product description Page	Pass	Product description page is loaded successfully

		User selects a product and clicks Add to cart button	Product should be added to cart and pop up should be displayed for success	Product is added to cart and pop up is displayed for success	Pass	Product added to cart successfully
		User clicks on Cart Button	User should be navigated to cart page	User is navigated to cart page	Pass	Cart page loaded successfully
		User clicks on Proceed to payment button	User should be navigated to Payment page	User is navigated to Payment page	Pass	Payment page is loaded successfully
		User enters valid payment details and click on Pay button	Payment should be successful and Pop up should be displayed for success	Payment is successful and Pop up is displayed for success	Pass	Payment is successful
TC-14	Check whether User Profile page is loaded successfully with all components	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully
		User navigates to user profile page	All components of User Profile Page should be visible	All components of User Profile Page are visible	Pass	All components of User Profile Page verified successfully
TC-15	Check whether Chat page is loaded successfully with all components	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully

		User navigates to Chat page	All components of Chat Page should be visible	All components of Chat Page are visible	Pass	All components of Chat Page verified successfully
TC-16	Check Chat Functionality for FAQ page	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully
		User navigates to Chat page	Chat Page should be loaded successfully	Chat Page is loaded successfully	Pass	Chat Page is loaded successfully
		User selects from a predefined response of Tabs for selection as "FAQ"	FAQ Page should be loaded successfully	FAQ Page is loaded successfully	Pass	FAQ Page is loaded successfully
TC-17	Check Chat Functionality for Ticket page	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully
		User navigates to Chat page	Chat Page should be loaded successfully	Chat Page is loaded successfully	Pass	Chat Page is loaded successfully
		User selects from a predefined response of Tabs for selection as "Raise a ticket"	Ticket Page should be loaded successfully	Ticket Page is loaded successfully	Pass	Ticket Page is loaded successfully
TC-18	Check Chat Functionality for Feedback page	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully

		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully
		User navigates to Chat page	Chat Page should be loaded successfully	Chat Page is loaded successfully	Pass	Chat Page is loaded successfully
		User selects from a predefined response of Tabs for selection as "Feedback"	Feedback Page should be loaded successfully	Feedback Page is loaded successfully	Pass	Feedback Page is loaded successfully
TC-19	Check Ticketing Functionality	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully
		User navigates to Chat page	Chat Page should be loaded successfully	Chat Page is loaded successfully	Pass	Chat Page is loaded successfully
		User selects from a predefined response of Tabs for selection as "Raise a ticket"	Ticket Page should be loaded successfully	Ticket Page is loaded successfully	Pass	Ticket Page is loaded successfully
		User enters all required details of issue clicks "Submit" button	Ticket should be submitted successfully	Ticket is submitted successfully	Pass	Ticket is submitted successfully
TC-20	Check Feedback Functionality	User navigates to login page with url : ""	User should be able to navigate to login page with url : ""	User is able to navigate to Login Page	Pass	Login Page is loaded successfully
		User enters valid credentials in Username and Password fields and clicks Login button	User should be able to enter valid credentials in Username and Password fields and clicks Login button	User entered valid credentials in Username and Password fields and clicked Login button successfully	Pass	User is logged in successfully

		User navigates to Chat page	Chat Page should be loaded successfully	Chat Page is loaded successfully	Pass	Chat Page is loaded successfully
		User selects from a predefined response of Tabs for selection as "Feedback"	Feedback Page should be loaded successfully	Feedback Page is loaded successfully	Pass	Feedback Page is loaded successfully
		User enters all required details of issue clicks "Submit" button	Feedback should be submitted successfully	Feedback is submitted successfully	Pass	Feedback is submitted successfully

CHAPTER 6: LIMITATIONS OF PROPOSED SYSTEM

CHAPTER 6: LIMITATIONS OF PROPOSED SYSTEM

Following are some limitations of this project:

- This project currently do not have an option for tracking the progress of the order.
- ❖ This project requires an internet connection to stay connected.
- ❖ This project requires a browser to run efficiently.
- ❖ The user has to wait until the admin responds to the ticket. The query can't be solved in real time.

CHAPTER 7: PROPOSED ENHANCEMENTS

CHAPTER 7: PROPOSED ENHANCEMENTS

Apps can further save users' time by storing their preferences and taking proactive actions on users' behalf. Hence an Android app can be considered as a future scope for this project. This website can be easily extended with features like:

- Chat-bots
- User profile modification
- User feed
- Curated blogs and video
- An Android/iOS application.

CHAPTER 8: CONCLUSION

CHAPTER 8: CONCLUSION

This website is made with the purpose of changing the traditional way of buying and selling plants. It will reduce paper work, save time and efforts for users. This website will introduce a new way to manage the nursery for its owner. The customers would have an integrated platform to communicate with the owner. The users will always be provided with support via raising the tickets. They'd be able to make hassle-free payments in a secured manner. The paper-work will be reduced and the user data will be made more secure.

CHAPTER 9: BIBLIOGRAPHY

CHAPTER 9: BIBLIOGRAPHY

Following are the references that helped in the development of this project.

❖ Websites:

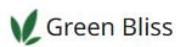
- <https://www.javatpoint.com/>
- <https://www.geeksforgeeks.org/java/>
- <https://www.javatpoint.com/spring-tutorial>
- https://www.youtube.com/watch?v=P1tf_ByFATo&list=PLs1bCj3TvmWmMqN3FsCuPTTX-29I8Gh7
- https://www.youtube.com/watch?v=TqE8Ji_R_Qw&t=877s
- <https://getbootstrap.com/>

❖ Books:

- Instant Spring Tool Suite - By Geoff Chiang
- E-Commerce - By Carol Guercio Traver Kenneth C. Laudon
- Bootstrap 4 Quick Start: A Beginner's Guide to Building Responsive Layouts with Bootstrap 4 – By Jacob Lett
- Head First Java – By Kathy Serria
- Murach's MySQL- By Joel Murach
- Thinking in Java- by Bruce Eckel
- HTML & CSS: Design and Build Web Sites - by Jon Duckett
- Learning Web Design – By Jennifer Niederst Robbins

CHAPTER 10: USER MANUAL

❖ Login form (Customer)



[Signup](#) [Login](#) [About Us](#)



Login

Please fill in the information below

A light blue input field containing the email address "shivani@gmail.com".

Email address

A light blue input field containing a masked password (represented by five asterisks). A small circular icon with a refresh symbol is located to the right of the input field.

Password

Login

[Forgot password?](#)

❖ Signup form (Customer)

 Green Bliss

[Signup](#) [Login](#) [About Us](#)



Sign Up

Please fill in the information below

Full name

E-Mail

Set Password

(Password must be 8-12 characters, Must contain at least one number and one uppercase and lowercase letter, and at least 8 or more characters)

Phone (+91)

Local Address

(Enter 10 digit phone number)

We currently serve only around
Chandrapur city.

Already have an account? [Login](#)

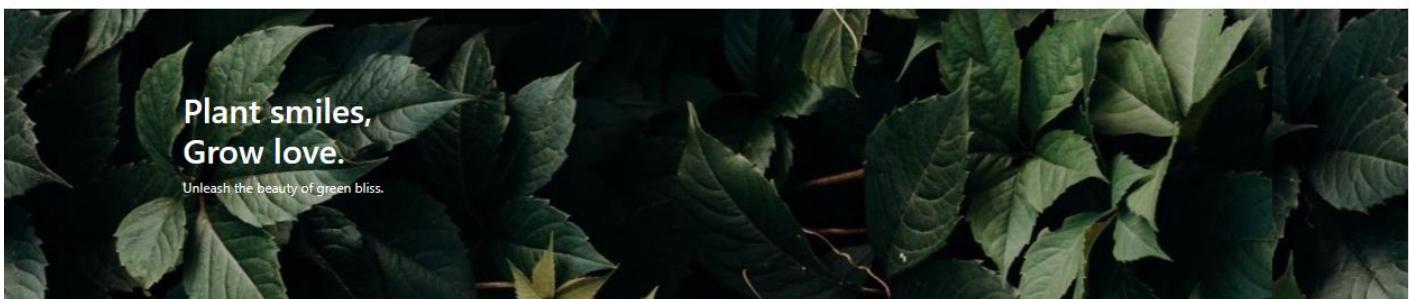
[Reset all](#)

[Submit form](#)

❖ Home Page

 Green Bliss Hi,Shivani Awatade.

Home Shop  (0) 



CATEGORIES



Plants



Seeds



Tools



❖ Products Page



Green Bliss Hi,Shivani Awatade.

Home Shop (0)

Categories

Plants
Seeds
Accessories
Soils
Compost & Fertilizers
Tools



Miniature Rose, Button Rose

Button Rose is a perennial flowering shrub plant. Roses are best ornamental plants. What makes it special: One of the best flowering plants. Provide year-round flowering. Perfect plant for outdoor garden and sunny balcony. Rose is considered as a symbol of balance.

₹ 299

Free shipping

Only 60 Units left in stock.. !!

Add To Cart



Jasminum sambac, Mogra

Flowers make intimate connections they increase our connectivity with family and friends. Mogra plant is famously known as Jasmine flower, it is one of the most beautiful and fragrant among all flowering plants in Asia. What makes it special: One of the popular fragrant flowering plant. Provide year-round flowering. Very easy to grow and care.

₹ 299

Free shipping

Only 80 Units left in stock.. !!

Add To Cart



Peace Lily, Spathiphyllum

Peace Lily Plant is a very popular and very rare indoor flowering houseplant. It is also an excellent air purifier plant. What makes it special: One of the rarest indoor flowering plant. NASA recommended air purifier flowering plant. Easy to care and low maintenance plant. Best for office desk, bedroom.

₹ 169

Free shipping

Only 43 Units left in stock.. !!

Add To Cart



❖ Cart

Green Bliss Hi ,Shivani Awatad...

Your cart

Item Name	Product Photo	Price	Quantity	Total Price	Action
Jasminum sambac, Mogra		₹299	1	₹299	<button>Remove</button>
Polestar (Organic Food Waste Compost) - 1 kg (Set of 2)		₹216	1	₹216	<button>Remove</button>
Gardening Water Can (5 ltr)		₹359	1	₹359	<button>Remove</button>
Plastic Hand Trowel No. 1021		₹159	1	₹159	<button>Remove</button>

Total Price : ₹1033

Close CheckOut

₹ 99
Free shipping
Add To Cart

₹ 159
Free shipping
Add To Cart

❖ Checkout Page

 Green Bliss Hi ,Shivani Awatade.

Home Shop  (4) :

Your selected products

Item Name	Product Photo	Price	Quantity	Total Price	Action
Jasminum sambac, Mogra		₹299	1	₹299	<button>Remove</button>
Polestar (Organic Food Waste Compost) - 1 kg (Set of 2)		₹216	1	₹216	<button>Remove</button>
Gardening Water Can (5 ltr)		₹359	1	₹359	<button>Remove</button>
Plastic Hand Trowel No. 1021		₹159	1	₹159	<button>Remove</button>

Total Price : ₹1033

Order details

Receiver's Name

Receiver's Email

Receiver's Phone

Receiver's Address

Amount : ₹1033

Pay Now Cancel

❖ Payment Form

 Green Bliss Hi ,Shivani Awatade.

Home Shop  (0) 

Pay via QR code

UPI ID: 8956565186@paytm
Paytm: 8956565186



Scan this QR or send money to 8956565186 from any app. Money will reach in Suraj Prakash Katole's bank account.

Enter Your Payment/Transaction Id

Submit Payment

stripe

Pay via card

Accepted Cards


Amount : ₹1033

Cardholder's Name

SHIVANI AWATADE

Card Number

2345 4567 4657 4758

Expiry Month

03

Expiry Year

2026

CVV

Confirm and Proceed

❖ Payment Success



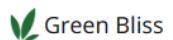
Hi ,Shivani Awatade.

Your payment is successful and Order has been placed.

Payment ID : **pi_3NR6dISDObmvo1e71EY9UQ6t**

[Return to Home](#)

❖ Orders



Hi ,Shivani Awatade.

Home Shop (0)

Your Orders

Order Id : 1

Jasminum sambac, Mogra : -- 1
Units

Peace Lily, Spathiphyllum : -- 1
Units

General Purpose Garden
Potting Soil Mix - 5 kg : -- 1
Units

User Email : shivani@gmail.com

Status : Payment Pending

Address : Sarkar Nagar, Chandrapur

Amount : ₹ 767

Date : 2023/04/30 08:18:36

[Make Payment](#)

[Delete Order](#)

Order Id : 2

Jasminum sambac, Mogra : -- 1
Units

Peace Lily, Spathiphyllum : -- 1
Units

General Purpose Garden
Potting Soil Mix - 5 kg : -- 1
Units

User Email : shivani@gmail.com

Status : Payment Pending

Address : Sarkar Nagar, Chandrapur

Amount : ₹ 767

Date : 2023/06/13 08:32:41

[Make Payment](#)

[Delete Order](#)

❖ Tickets

 Green Bliss Hi ,Shivani Awatade.

Home Shop  (0) 

Manage Tickets

User : Shivani Awatade

Ticket Id : 1

Defected piece

Hi, I received a defective piece i wanted to know the replacement process.

Response :

❖ Support

Raise a ticket



Raise a Ticket

Please fill in the information below

Subject

Defected piece

Description

Hi, I received a defective piece i wanted to know
the replacement process.

Raise Ticket

❖ Admin Login



Login Signup



Admin Login

Welcome back Admin!

An input field containing the email address "admin1@gmail.com".

Email address

An input field showing a masked password "*****".

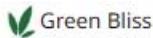
Password

Login

[Forgot password?](#)

[New Admin? Sign Up](#)

❖ Admin Signup



[Login](#) [Signup](#)



Admin Sign Up

Please fill in the information below

Full name

E-Mail

Set Password

(Password must be 8-12 characters. Must contain at least one number and one uppercase and lowercase letter, and at least 8 or more characters.)

Phone (+91)

Address

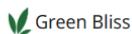
(Enter 10 digit phone number)

Already have an account? [Login](#)

[Reset all](#)

[Submit form](#)

❖ Admin Dashboard



[Dashboard](#) [Logout](#)

Welcome back, Admin

Easily manage your store from here.

Manage Products

Manage all the products here

[Manage](#)

Add Products

Add new products here.

[Add](#)

Orders

Manage all the orders here

[Manage](#)

Feedbacks

Manage all the feedbacks here

[Manage](#)

Tickets

Manage all the tickets here

[Manage](#)

Analyze sales

Analyze all the sales here

[View](#)

❖ Manage Products



Dashboard Logout

Categories

- Plants
- Seeds
- Accessories
- Soils
- Compost & Fertilizers
- Tools

Manage Products



Miniature Rose, Button Rose

60 items in stock

Button Rose is a perennial flowering shrub plant. Roses are best ornamental plants. What makes it special: One of the best flowering plants Provide year-round flowering. Perfect plant for outdoor garden and sunny balcony. Rose is considered as a symbol of balance.

Update Price :

299

Update Quantity :

-

60

+

[Update Product](#)

[Delete product](#)



Jasminum sambac, Mogra

79 items in stock

Flowers make intimate connections they increase our connectivity with family and friends. Mogra plant is famously known as Jasmine flower, it is one of the most beautiful and fragrant among all flowering plants in Asia. What makes it special: One of the popular fragrant flowering plant.

Update Price :

299

Update Quantity :

-

79

+

[Update Product](#)

❖ Add new product



[Dashboard](#) [Logout](#)



Add new product

Fill in the product details

Product name

Product details

Price(₹)

Product units

Product category

product category

Product image

No file chosen

❖ Manage Orders



Dashboard Logout

Manage Orders

Order Id : 1

Jasminum sambac, Mogra : -- 1
Units

Peace Lily, Spathiphyllum : -- 1
Units

General Purpose Garden
Potting Soil Mix - 5 kg : -- 1
Units

User Email : shivani@gmail.com

Status : Payment Pending

Address : Sarkar Nagar, Chandrapur

Amount : ₹ 767

Date : 2023/04/30 08:18:36

Complete Order

Accept Order

Order Id : 2

Jasminum sambac, Mogra : -- 1
Units

Peace Lily, Spathiphyllum : -- 1
Units

General Purpose Garden
Potting Soil Mix - 5 kg : -- 1
Units

User Email : shivani@gmail.com

Status : Payment Pending

Address : Sarkar Nagar, Chandrapur

Amount : ₹ 767

Date : 2023/06/13 08:32:41

Complete Order

Accept Order

Order Id : 3

Jasminum sambac, Mogra : -- 1
Units

Peace Lily, Spathiphyllum : -- 1
Units

General Purpose Garden

User Email : shivani@gmail.com

Status : Payment Pending

Address : Sarkar Nagar, Chandrapur

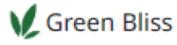
Amount : ₹ 767

Date : 2023/05/23 18:24:17

Complete Order

Accept Order

❖ Manage Tickets



[Dashboard](#) [Logout](#)

Manage Tickets

User : Shivani Awatade

Ticket Id : 1

Defected piece

Hi, I received a defective piece i wanted to know the replacement process.

Response :

Write Response

Sure we'll replace the c

[Respond](#)

❖ Analysis (Reports)

 Green Bliss

[Dashboard](#) [Logout](#)

1 Products



Daily products sales

18 Products



Monthly prod. sales

3.0



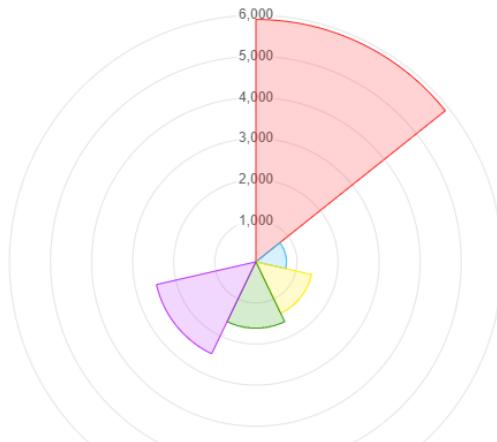
Rating

₹ 12130



Total Earnings

July June May April March
February January



July Total Sales in Last Six Months



July June May April March
February January

