

# **ONLINE SHOPPING SYSTEM FOR CS ANTIQUE SHOP**

**Diploma in Software Engineering**

**Final Project Documentation**

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**This project is submitted in partial fulfillment of the requirement of the Diploma in  
Software engineering of the National institute of business management.**

## **Declaration**

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## **Abstract**

CS Antiques is a business that has undertaken the development of a professional e-commerce website to showcase and sell a wide range of antiques and reproduction items. The website aims to provide customers with a convenient platform to browse and purchase unique pieces from the comfort of their own homes. This is particularly valuable in the current digital age, where online shopping has become increasingly popular and preferred by many customers.

Previously, CS Antiques relied on traditional retail methods and manual processes to handle sales and operations. However, with the introduction of the e-commerce website, the company can streamline its processes and effectively manage various tasks associated with the business. This automation not only saves time and reduces physical labor but also enables CS Antiques to reach a larger customer base and increase profitability.

To develop the CS Antiques e-commerce website, a range of professional tools and technologies were utilized. The website was built using the VS code tool, a widely-used code editor. The user interface was meticulously designed using Figma, a powerful design and prototyping tool. For creating a responsive and visually appealing frontend, Bootstrap, a popular framework, was employed. The backend was developed using the Laravel PHP framework, which offers a comprehensive set of tools and libraries for efficient web application development. Furthermore, MySQL was employed as the robust database component, ensuring secure storage and management of product and customer data.

The primary focus of the CS Antiques e-commerce website is to establish a professional online presence, expand the business's reach beyond the local market, and attract a larger customer base. By providing customers with an immersive online shopping experience, CS Antiques aims to showcase its diverse collection of antiques, including pettagams, dressing tables, kanappu, antique beds, antique tables, antique chairs, antique oil lamps, antique brass items, antique cupboards, and ebony items. The website serves as a comprehensive platform where customers can explore, compare prices, and make informed purchasing decisions.

In conclusion, the development of the CS Antiques e-commerce website is a strategic move to adapt to the changing retail landscape and leverage the power of the internet. With the integration of modern technologies and a user-friendly interface, CS Antiques aims to elevate its business and establish itself as a reputable online destination for antique enthusiasts and collectors worldwide.

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# Table of Contents

CHAPTER 1: Introduction .....	8
1.1 Introduction to CS Antiques Showroom Website .....	8
1.2 Organizational Structure .....	10
1.3 Current Operations in CS Antiques Showroom .....	11
1.4 Users and Responsibilities of the administrator in the management of the CSAntiques Showroom website .....	13
1.5 Problem Definition.....	13
1.6 Project Objectives.....	13
1.7 Proposed Solution .....	15
1.8 Chapter Summary.....	17
CHAPTER 2: Methodology .....	18
2.1 Introduction .....	18
2.2 Data Collection Method.....	18
2.3 Software Process Model .....	20
2.4 Software Development Tools .....	22
2.5 Testing Strategies .....	24
2.6 Implementation Plan .....	25
2.7 Chapter Summary.....	26
Chapter 3: Analysis .....	27
3.1Introduction.....	27
3.2 UML Diagrams .....	28
3.3 ER Diagram .....	80
3.4 Software Architecture .....	81
3.5 Chapter Summary.....	81
Chapter 4 Solution design .....	82
4.1 Introduction .....	82
4.2 Interface Design.....	83
4.3 Report Design .....	133
4.4 Database Design .....	138
CHAPTER 5: Conclusion .....	152
References.....	153

## CHAPTER 1: Introduction

### 1.1 Introduction to CS Antiques Showroom Website

CS Antiques is a prominent showroom specializing in the sale of exquisite antiques and reproduction items. Established as a leading destination for antique enthusiasts and collectors, CS Antiques offers a diverse range of products that includes pettagams, dressing tables, kanappu, antique beds, antique tables, antique chairs, antique oil lamps, antique brass items, antique cupboards, and ebony items.

With a strong commitment to preserving history and offering unique pieces, CS Antiques has gained recognition for its exceptional selection and unwavering dedication to craftsmanship. The showroom provides customers with an opportunity to enhance their living spaces with distinctive and timeless furniture pieces.

Located in a convenient area, CS Antiques showroom serves as a hub for customers seeking exclusive antiques and reproduction items. By showcasing its products in a beautifully curated space, CS Antiques ensures a memorable and enriching shopping experience.

To reach a wider customer base and cater to the evolving needs of the digital age, CS Antiques has embarked on the development of a professional web-based software project. This project aims to create an immersive and user-friendly website that allows customers to explore and purchase their desired antiques and reproduction items.

By leveraging modern technologies, CS Antiques aims to provide customers with a seamless browsing experience, enabling them to discover and compare various products, such as pettagams, kanappu, and varandha chairs. The website will offer detailed product descriptions, high-quality images, and pricing information to assist customers in making informed decisions.

CS Antiques holds customer satisfaction in high regard and strives to deliver exceptional service through its online platform. With a focus on quality, authenticity, and customer-centricity, CS Antiques aims to exceed customer expectations and establish itself as a trusted and reputable online destination for antique enthusiasts worldwide.

In conclusion, the CS Antiques showroom webpage software project represents a significant step in embracing digital transformation and expanding the reach of the showroom beyond its physical location. By creating an engaging and informative online presence, CS Antiques seeks to provide customers with an accessible and immersive shopping experience, showcasing its main products of pettagams, kanappu, and varandha chairs.

## **1.2 Organizational Structure**

- The organizational structure (OS) of an organization plays a pivotal role in determining how resources are utilized to accomplish business objectives. At CS Antiques Showroom, the company follows a functional organizational structure, which is well-suited for businesses with specialized functions and departments.
- The functional organizational structure at CS Antiques Showroom is designed to establish clear lines of authority, responsibility, and reporting. It ensures that each member of the organization understands their specific role and contributes to the overall success of the showroom.
- In this structure, the showroom is divided into distinct departments based on functions such as sales, procurement, inventory management, customer service, and marketing. Each department is headed by a manager or supervisor responsible for overseeing the activities and performance of the respective department.
- The functional organizational structure facilitates effective coordination and communication between different departments, ensuring smooth workflow and optimal resource allocation. It promotes specialization, as employees within each department possess expertise in their specific areas of responsibility.
- The structure encourages teamwork and collaboration, as employees work together within their respective departments to achieve common goals and objectives. It enables efficient decision-making and problem-solving, as decisions can be made by individuals with the appropriate expertise.
- In summary, the functional organizational structure at CS Antiques Showroom allows for efficient division of labor, clear communication channels, and effective coordination between departments. This structure plays a vital role in enabling the showroom to offer exceptional products and services, maintain customer satisfaction, and uphold its reputation as a premier destination for antique enthusiasts and collectors.

### **1.3 Current Operations in CS Antiques Showroom**

The operations of CS Antiques Showroom encompass various aspects crucial to its success as a leading provider of antique and reproduction items. The main operations of the organization are as follows:

#### **1. Procurement and Inventory Management:**

CS Antiques Showroom carefully selects and procures a diverse range of antique and reproduction items, including pettagams, dressing tables, kanappu, antique beds, antique tables, antique chairs, antique oil lamps, antique brass items, antique cupboards, and ebony items. The showroom maintains an efficient inventory management system to ensure adequate stock levels, proper categorization, and preservation of the items.

#### **2. Showroom Management and Presentation:**

CS Antiques Showroom takes pride in creating an aesthetically pleasing and engaging environment for customers. The showroom is meticulously organized to display the items in an attractive manner, allowing customers to explore and appreciate the unique pieces. Showroom management involves regular maintenance, cleanliness, and updating of displays to provide an immersive experience.

#### **3. Sales and Customer Service:**

The sales operation at CS Antiques Showroom involves both in-person sales at the physical showroom and online sales through the website. Knowledgeable and customer-oriented staff members assist customers in understanding the history, value, and characteristics of the items. The showroom ensures a seamless purchasing process and delivers excellent customer service to enhance the overall shopping experience.

#### **4. Online Presence and Marketing:**

CS Antiques Showroom recognizes the importance of establishing a strong online presence to reach a wider audience. The organization focuses on creating a professional website as a part of its software project, showcasing the collection of antiques and reproduction items.

Online marketing strategies, including search engine optimization (SEO), social media marketing, and digital advertising, are employed to increase brand visibility and attract potential customers.

#### 5. Logistics and Delivery:

CS Antiques Showroom manages the logistics and delivery of purchased items to ensure safe and timely transportation—the organization partners with reliable shipping providers to deliver products to customers locally and internationally. Attention to packaging and secure handling is prioritized to preserve the integrity of the items during transportation.

In conclusion, CS Antiques Showroom efficiently operates in procurement and inventory management, showroom management and presentation, sales and customer service, online presence and marketing, as well as logistics and delivery. These operations collectively contribute to the success of the organization in providing customers with an enriching antique shopping experience.

## **1.4 Users and Responsibilities of the administrator in the management of the CSAntiques Showroom website**

The CS Antiques Showroom website is managed by an administrator, who is either the owner of the business or another designated person. The administrator holds various responsibilities in the effective management of the website. These responsibilities include maintaining the product catalog, processing customer orders, managing deliveries, and ensuring smooth operations on the website. Additionally, the administrator is responsible for addressing customer inquiries, reviews, and complaints in a prompt and satisfactory manner. Their role is vital in overseeing the website's functionality and ensuring a seamless experience for visitors and customers.

## **1.5 Problem Definition**

- With the increasing reliance on social media marketing due to the challenges posed by the pandemic, CS Antiques Showroom faces difficulties in efficiently handling customer orders and requests solely through social media platforms. Managing a large volume of customer interactions and customizing products manually becomes a challenge.
- The cost and maintenance of a physical showroom are high, prompting the owner to venture into a more cost-effective and convenient online marketplace. This transition would allow for reduced wastage and greater focus on the warehouse and production processes.
- Inefficient manual management of stock levels hampers CS Antiques Showroom's ability to accurately predict and track stock requirements. Manual data and reports are susceptible to loss or misplacement, making it difficult to backtrack raw material usage and effectively manage stock levels.

## **1.6 Project Objectives**

The objective of the CS Antiques Showroom website project is to create a visually appealing and user-friendly online platform where customers can explore and purchase a wide range of antique and reproduction items. The website will showcase various products such as pettagams, dressing tables, kanappu, antique beds, antique tables, antique chairs, antique oil lamps, antique brass items, antique cupboards, ebony items, and more. Detailed product descriptions, images, and information will assist customers in making informed decisions.

The website will feature a secure and streamlined checkout process, allowing customers to easily complete their purchases and track their orders. Additionally, customers will have the option to create accounts, saving their billing and shipping information for future.

convenience. They can also leave reviews and ratings for the products they purchase.

The ultimate goal of the CS Antiques Showroom website is to provide a convenient and satisfying shopping experience for customers, resulting in increased sales and customer satisfaction for the business.

## **1.7 Proposed Solution**

The proposed solution for CS Antique Showroom is to develop a comprehensive website creation software project specifically designed for antique showrooms. This software will enable CS Antique Showroom to establish a powerful online presence, effectively showcasing their unique collection of antique and reproduction items to a broader customer base. The software project will encompass the following key features:

1. Captivating Website Design: The software will offer a range of visually stunning and customizable website templates tailored to the antique industry. These designs will enhance the overall aesthetics of the CS Antique Showroom website, capturing the essence of vintage charm and elegance.
2. Extensive Product Catalog: The software will provide an intuitive and user-friendly interface for managing and displaying a diverse range of antique and reproduction items offered by CS Antique Showroom. Each product will be accompanied by detailed descriptions, high-resolution images, and relevant information, enabling customers to make informed purchase decisions.
3. Customization Options: The software will incorporate a built-in customization feature, allowing customers to personalize certain items according to their preferences. This feature will enable CS Antique Showroom to cater to the unique needs and desires of their customers, enhancing customer satisfaction and engagement.
4. Streamlined Order Processing: The software project will include a robust order management system that seamlessly processes customer orders, generates invoices, and tracks delivery status. This efficient workflow will ensure timely order fulfillment, minimizing errors and improving customer experience.
5. Inventory Management: The software will incorporate a comprehensive inventory management module that enables CS Antique Showroom to effectively track and manage stock levels. The system will provide real-time insights into available stock, automatic restocking notifications, and generate reports to facilitate informed decision-making and reduce manual errors.

6. Customer Engagement and Feedback: The software will feature interactive elements such as customer reviews, ratings, and a personalized customer account system. These features will encourage customer engagement, provide valuable feedback, and foster a sense of community within the CS Antique Showroom website.

By implementing this software project, CS Antique Showroom will experience numerous benefits, including increased convenience for customers, streamlined operations, access to valuable analytics and customer insights, improved responsiveness to buyer demands, and the potential for a wider reach of their customer base. The website creation software project will empower CS Antique Showroom to establish a strong online presence and effectively showcase their exquisite collection of antique and reproduction items, driving business growth and customer satisfaction in the competitive antique market.

## **1.8 Chapter Summary**

The purpose of the CS Antique Showroom website creation software project is to develop a comprehensive solution that enables the establishment of a captivating online platform for customers to explore and purchase a wide range of antique and reproduction items. The project aims to address the challenges faced by CS Antique Showroom, including the need for a cost-effective and convenient online marketplace, efficient stock management, and improved customer engagement.

The proposed solution involves the development of a website creation software specifically tailored for antique showrooms. This software will incorporate captivating website designs that capture the vintage charm of antique items. It will provide extensive product catalog management, allowing detailed descriptions, high-quality images, and customization options to cater to customers' unique preferences.

The software project will streamline the order processing workflow, ensuring efficient order management, invoicing, and delivery tracking. Additionally, it will incorporate a robust inventory management system to track and manage stock levels effectively, providing real-time insights and automating restocking notifications.

By implementing the software project, CS Antique Showroom aims to achieve numerous benefits, including increased convenience for customers, improved operational efficiency, access to valuable analytics and customer feedback, enhanced responsiveness to buyer demands, and the potential to expand their customer base.

In summary, the CS Antique Showroom website creation software project will empower the business to establish a strong online presence, showcase their exquisite collection of antique and reproduction items, and streamline their operations. This will result in improved customer satisfaction, increased sales, and growth opportunities in the competitive antique market.

## CHAPTER 2: Methodology

### 2.1 Introduction

Before embarking on the development of the CS Antique Showroom website creation software project, thorough planning and preparation were conducted. This involved identifying the challenges faced by CS Antique Showroom in their current sales and marketing operations and defining the objectives of the project. Extensive research was carried out to understand the needs and preferences of the target audience, as well as to assess the capabilities and limitations of the project team.

The planning and development of the CS Antique Showroom website creation software project required careful consideration of the target audience's requirements, the project team's capabilities, and the selection of appropriate tools and technologies.

In this chapter, we will delve into the planning process, methodologies, and software development approaches employed in the CS Antique Showroom website creation software project.

### 2.2 Data Collection Method

To build a successful CS Antique Showroom e-commerce platform, various methods were utilized to collect data from customers and other stakeholders. These methods included:

**Surveys:** Online surveys and email questionnaires were administered to gather information from customers regarding their preferences and behaviors when shopping for antique items. The data collected from these surveys was instrumental in shaping the design, features, and user experience of the website, as well as identifying potential areas for improvement.

**Interviews:** In-depth interviews were conducted with key stakeholders, including the owner of CS Antique Showroom and members of the marketing and sales teams. These interviews provided valuable insights and ideas that guided the direction of the project, ensuring that the website aligned with the business's objectives and catered to the needs of its customers.

**Focus groups:** Small group discussions, known as focus groups, were organized with a select number of customers. These sessions allowed for in-depth conversations about customers' experiences with CS Antique Showroom's current sales and marketing operations, as well as their expectations for the e-commerce platform. The insights gained from these focus groups helped identify key features and functionalities that should be incorporated into the website.

**Online reviews and ratings:** Analysis of online reviews and ratings of CS Antique Showroom's products and services provided valuable insights into customer experiences and preferences. This data played a crucial role in informing the design, content, and user feedback mechanisms of the website, as well as identifying areas that required improvement.

**Customer service inquiries:** Customer service inquiries were thoroughly examined to gather data on common issues or areas for enhancement within CS Antique Showroom's current sales and marketing operations. This data informed the design and functionality of the e-commerce platform, ensuring that it addressed the specific needs and concerns of customers.

By employing these data collection methods, the CS Antique Showroom website creation software project obtained crucial insights from customers and stakeholders, enabling the development of a tailored and customer-centric e-commerce platform that caters to the unique requirements of the antique showroom industry.

## **2.3 Software Process Model**

The Agile software development model, with its iterative and incremental approach, is well-suited for the CS Antique Showroom website creation software project. This model emphasizes flexibility and adaptability to accommodate changing requirements and market dynamics. The Agile model divides the project into small, manageable cycles known as "sprints," where each sprint focuses on specific tasks or features. At the end of each sprint, the team reviews the progress and adjusts the plan accordingly.

The Agile model aligns with the values and principles that guide the CS Antique Showroom website creation software project, including:

-Individuals and interactions: The Agile model emphasizes the importance of effective collaboration and empowering the development team. The team members should be encouraged to make decisions and work together to achieve project objectives.

-Working software: Agile prioritizes the delivery of functional software to customers in a timely manner. The focus is on providing a working product that meets the requirements and can be improved upon iteratively, rather than striving for perfection from the outset.

-Customer collaboration: Agile encourages close collaboration with customers throughout the development process. The team should actively involve customers in gathering feedback, understanding their needs, and incorporating their input into the project. This ensures that the resulting website meets the expectations and goals of CS Antique Showroom.

-Responding to change: Agile acknowledges that requirements and priorities can evolve over time. The team should be prepared to adapt and respond to these changes promptly, adjusting the project plan and incorporating new insights as necessary.

By adopting the Agile software development model, the CS Antique Showroom website creation software project can embrace flexibility, collaboration, and responsiveness to

create a high-quality and customer-focused e-commerce platform that aligns with the evolving needs of the antique showroom industry.

## Benefits of Agile Development

There are several benefits to using the Agile development model for the CS Antique Showroom website creation software project:

1.Faster delivery: The Agile model's iterative approach allows for quicker delivery of working software. This means that customers can start using and providing feedback on the website earlier in the development process, leading to faster improvements and a shorter time to market.

2.Increased flexibility: Agile is designed to accommodate changing requirements and priorities. This flexibility allows the development team to respond to feedback, incorporate new features, and adapt the website to evolving market conditions or customer needs.

3.Improved collaboration: Agile promotes collaboration and communication between the development team, stakeholders, and customers. Regular meetings, feedback sessions, and a collaborative work environment foster better understanding, alignment, and more effective problem-solving throughout the project.

4.Enhanced quality: The Agile model emphasizes continuous testing and evaluation. By integrating testing and quality assurance into each iteration, potential issues can be identified and addressed early on, resulting in a higher-quality website.

5.Greater customer satisfaction: By involving customers throughout the development process, the Agile model ensures that their needs and preferences are considered and incorporated into the website. This leads to a higher level of customer satisfaction and a website that better meets their expectations.

6.Efficient resource utilization: Agile allows for prioritization and optimization of resources based on customer feedback and changing requirements. This enables the development team to focus on high-value features and deliver a product that maximizes customer value within the project's time and resource constraints.

Overall, adopting the Agile development model for the CS Antique Showroom website creation software project can lead to faster delivery, increased flexibility, improved collaboration, enhanced quality, greater customer satisfaction, and efficient resource utilization. These benefits contribute to the successful creation of a high-quality and customer-centric website for the antique showroom.



## 2.4 Software Development Tools

The following tools were utilized for the development of the project:

- Figma

Figma is a cloud-based design and prototyping tool that allows teams to collaborate on design projects in realtime. We used Figma to create wireframes and mockups of the Cushion House platform, which helped us visualize and plan the layout and functionality of the site.



- HTML, CSS, Java Script

These are all programming languages that are used to build the front end of a website. HTML (Hyper Text Markup Language) is used to structure the content of a webpage, CSS (Cascading Style Sheets) is used to style the content, and JavaScript is used to add interactivity and dynamic elements to the page. We used these languages to build the user interface of the Cushion House platform.



- Laravel

Laravel is a PHP web application framework used for web development. It was used to build the backend of the Cushion House platform, including handling routing, authentication, and database management.



- Bootstrap

Bootstrap is a frontend framework that provides a set of pre-designed elements and styles that can be easily customized and used to build responsive, mobile-first websites. We used Bootstrap to create a consistent and responsive design for the Cushion House platform.



- jQuery

jQuery is a JavaScript library that simplifies the process of adding interactive elements and effects to a webpage. We used jQuery to add dynamic features to the Cushion House platform, such as sliders and modals.



- MySQL

MySQL is a popular database management system that was used to store and manage the data for the Cushion House platform. It was used to store information about products, orders, customers, and more.

These tools were all used to build the Cushion House ecommerce platform, and they allowed us to create a professional and functional online store.



**On-premises System:**

This segment of the solution is deployed within the premises of the retail store and caters to the needs of staff engaged in retail activities, including store managers and cashiers. Specific requirements for each role are outlined in the Use Case diagram. The Master Control System (MCS) will operate on a central computer accessible to store managers. Smaller versions of the MCS related to the Point-of-Sales (POS) subsystem will also run on computers stationed at customer checkout locations, where cashiers will interact with them. The system will be developed using Java.

**Web Platform:**

While the web platform offers limited functionality compared to the On-premises system, it must deliver a stable, satisfactory service to act as a compelling feature. To achieve this, the backend will be developed using PHP. This backend will interface with the previously mentioned database for tasks such as item selection and order placement. HTML and CSS will be used on the front end to create user interfaces, as detailed in Chapter 4.2 "Interface Design". JavaScript will handle client-side interactions.

**Delivery System:**

The delivery system, a mobile application for the delivery staff, should be lightweight to ensure it can be easily installed on their personal phones without consuming excessive storage. Kotlin will be employed to implement this system due to its interoperability with Java, enhancing the development experience, given that the On-premises system is designed with Java.

## **2.5 Testing Strategies**

Software testing strategies are essential for ensuring the quality and functionality of a software product, including the CS Antique Showroom website creation software project. Here are some testing strategies that can be employed for this project:

1. Static testing: Static testing involves reviewing and examining the code and design of the software without executing it. This can include activities such as code review, inspection, and verification. Static testing ensures that the codebase of the CS Antique Showroom website is well-written, adheres to coding standards, and is free of defects.
2. Structural testing: Structural testing focuses on testing the internal structure and behavior of the software, including individual units, components, and their interactions. This can involve unit testing, integration testing, and system testing. By testing the different components of the CS Antique Showroom website and how they interact with each other, structural testing ensures the overall integrity and functionality of the software.
3. System testing: System testing involves testing the entire system as a whole, including all components and their interactions. It verifies that the CS Antique Showroom website functions correctly and meets the specified requirements. System testing includes testing all features, functionality, and user interactions to ensure a seamless and integrated experience.
4. Behavioral testing: Behavioral testing focuses on testing the software's behavior under different conditions, including usability testing, performance testing, and acceptance testing. Usability testing ensures that the CS Antique Showroom website is user-friendly and intuitive for visitors. Performance testing verifies that the website can handle a large volume of traffic and transactions efficiently. Acceptance testing ensures that the website meets the expectations and requirements of the stakeholders.

By employing these testing strategies, the CS Antique Showroom website creation software project can ensure a high-quality, reliable, and user-friendly website that meets the needs and goals of the antique showroom.

## **2.6 Implementation Plan**

An implementation plan is crucial for successfully implementing the CS Antique Showroom website creation software project. It outlines the necessary steps and resources needed to ensure a smooth and efficient implementation process. The plan helps organize the project, assign responsibilities, and minimize risks and errors. It also ensures that the final product aligns with the project's goals and objectives.

For the implementation of the CS Antique Showroom website creation software project, the following steps can be included in the plan:

1. Requirement Analysis: Identify and document the specific requirements of the CS Antique Showroom website creation software. This includes understanding the needs of the antique showroom, its customers, and the functionality required from the website creation software.
2. Resource Planning: Determine the required resources for the project, including the development team, software tools, hardware infrastructure, and any external support or services needed.
3. Development and Testing: Utilize an Agile development approach to iteratively develop the CS Antique Showroom website creation software. This involves dividing the project into sprints and delivering working software incrementally. Conduct thorough testing during each sprint to ensure the quality and functionality of the software.
4. Parallel Implementation: Adopt a parallel implementation approach, where the CS Antique Showroom website creation software is implemented alongside the existing processes and systems. This allows for a gradual transition, minimizes disruptions, and enables continuous testing and refinement.
5. Training and User Adoption: Provide training sessions to the antique showroom staff and stakeholders involved in using the website creation software. Ensure that they understand the functionalities and features of the software and can effectively utilize it to create and manage websites for the showroom.
6. Deployment and Monitoring: Deploy the CS Antique Showroom website creation software in a production environment. Monitor its performance, collect user feedback, and address any issues or enhancements that arise during the initial period of use.
7. Documentation and Support: Create comprehensive documentation for the CS Antique Showroom website creation software, including user guides and technical manuals. Establish a support system to address any queries or technical issues that users may encounter.

## **2.7 Chapter Summary**

In summary, the CS Antique Showroom website creation software project involved data collection from customers and stakeholders using surveys, interviews, focus groups, online reviews, and customer service inquiries. The Agile software development model was employed, and various tools such as Figma, HTML, CSS, JavaScript, Laravel, and MySQL were used in the development process. The implementation plan included steps such as requirement analysis, resource planning, development and testing, parallel implementation, training and user adoption, deployment and monitoring, and documentation and support.

These efforts ensured that the CS Antique Showroom website creation software met the needs and preferences of the antique showroom and its customers.

## Chapter 3: Analysis

### 3.1 Introduction

To aid in the process of development, the design of the system is expressed in Unified Modeling Language (UML) and other diagrammatic representations such as the Entity- Relationship (ER) Diagram. This chapter aims to comprehensively provide the set of diagrams that were designed by the team to aid in the development stage of the project.

The diagrams depicted are as follows:

- Use-case diagram of the system.
- Class diagram.
- Sequence diagrams.
- ER diagram.

The use case diagram lays out the actions performed by each individual stakeholder directly involved with the system. These will be termed actors. These actors may interact with the system to obtain some form of result. Even though the entire solution is an ecosystem of three different applications, this can be represented within one use case diagram as it acts as a whole integral entity.

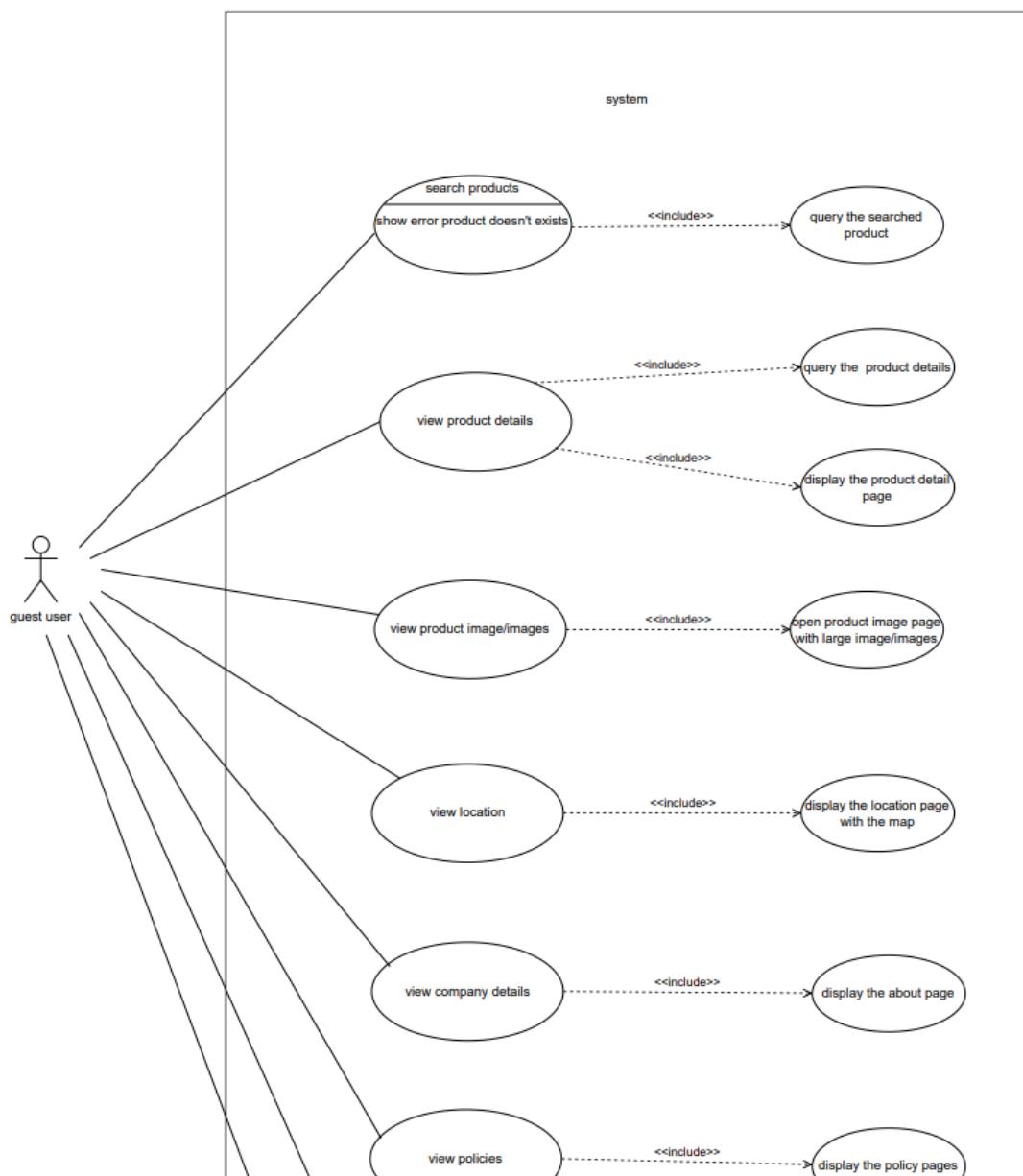
The class diagrams define the classes that are derived into objects during the development phase. All attributes that are private are allowed to have getters and setters if and only if necessary. This is at the discretion of the developer. This boilerplate data is removed from being represented in the class diagram in order to avoid unnecessary bloating.

The sequences define the intricacies behind the major use cases described in the class diagram. The level of abstraction depicted varies with the complexity of the action.

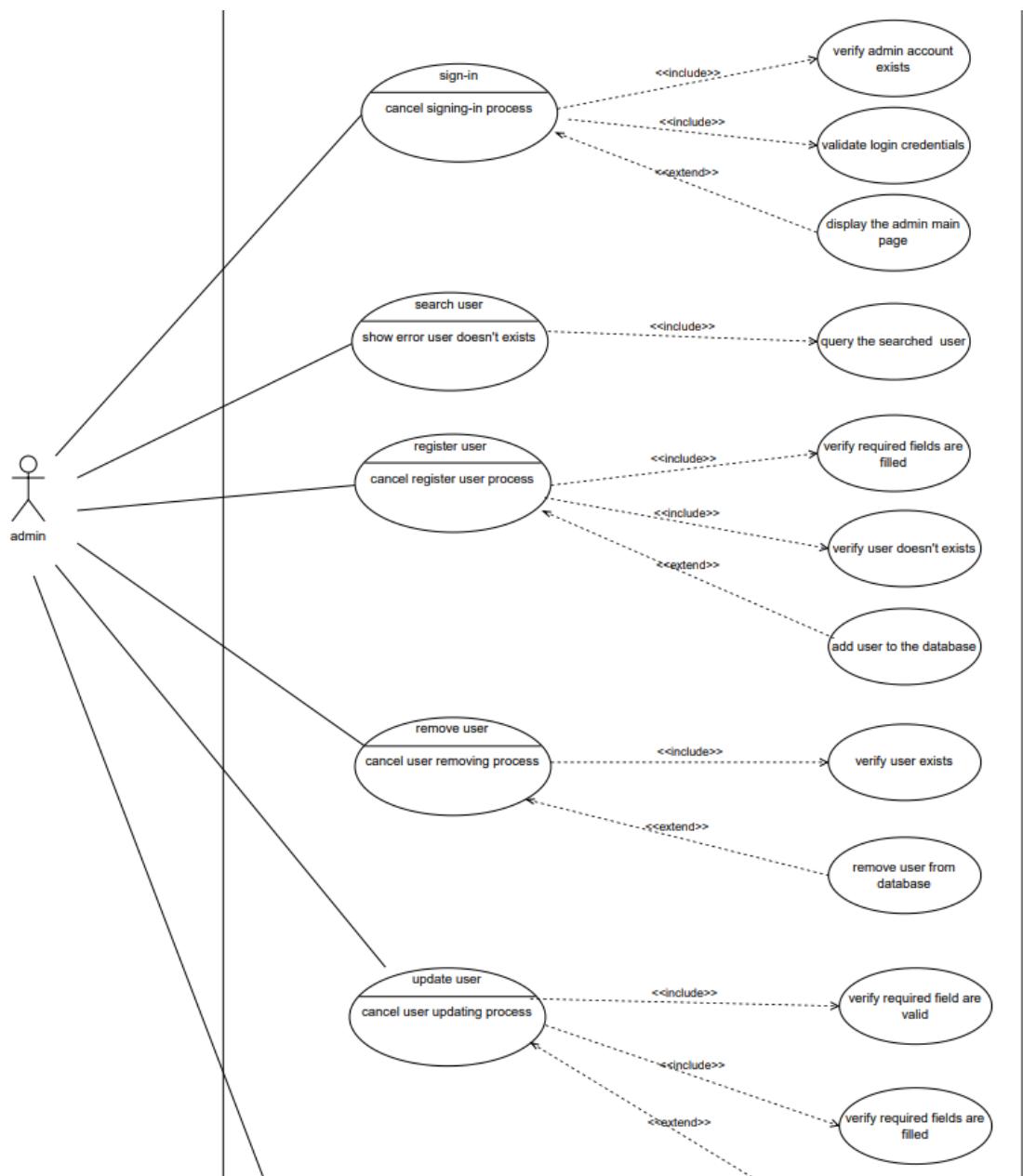
The ER diagram describes the entities that are manifested as tables in the database, and the relationships between them, which manifest as tables and foreign keys in themselves. Note that all three applications would be performing CRUD operations on the database. The enforcement of some systems to deal with race conditions and such would be up to the development and is not considered in the design diagrams.

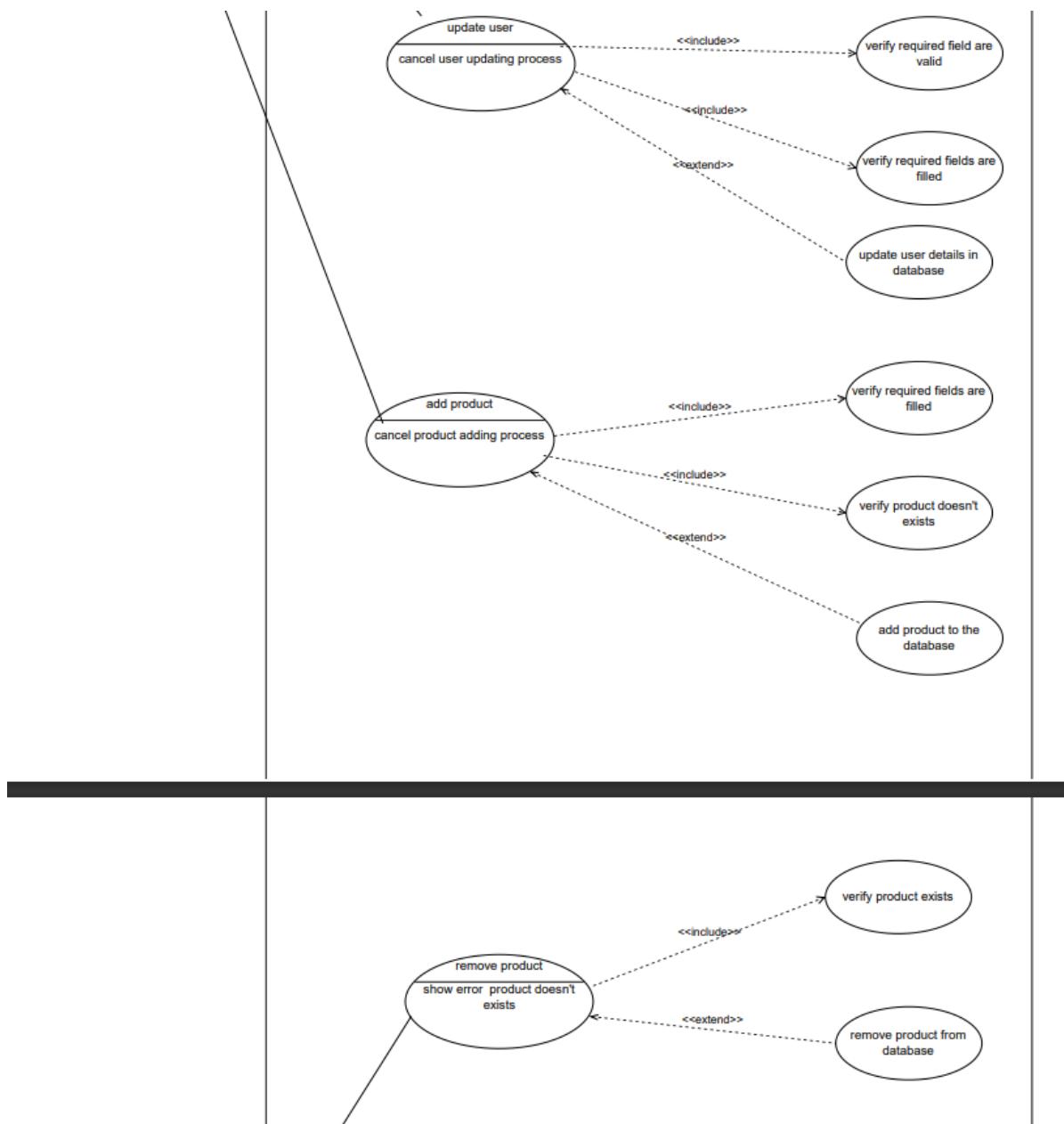
## 3.2 UML Diagrams

### Use Case Diagram

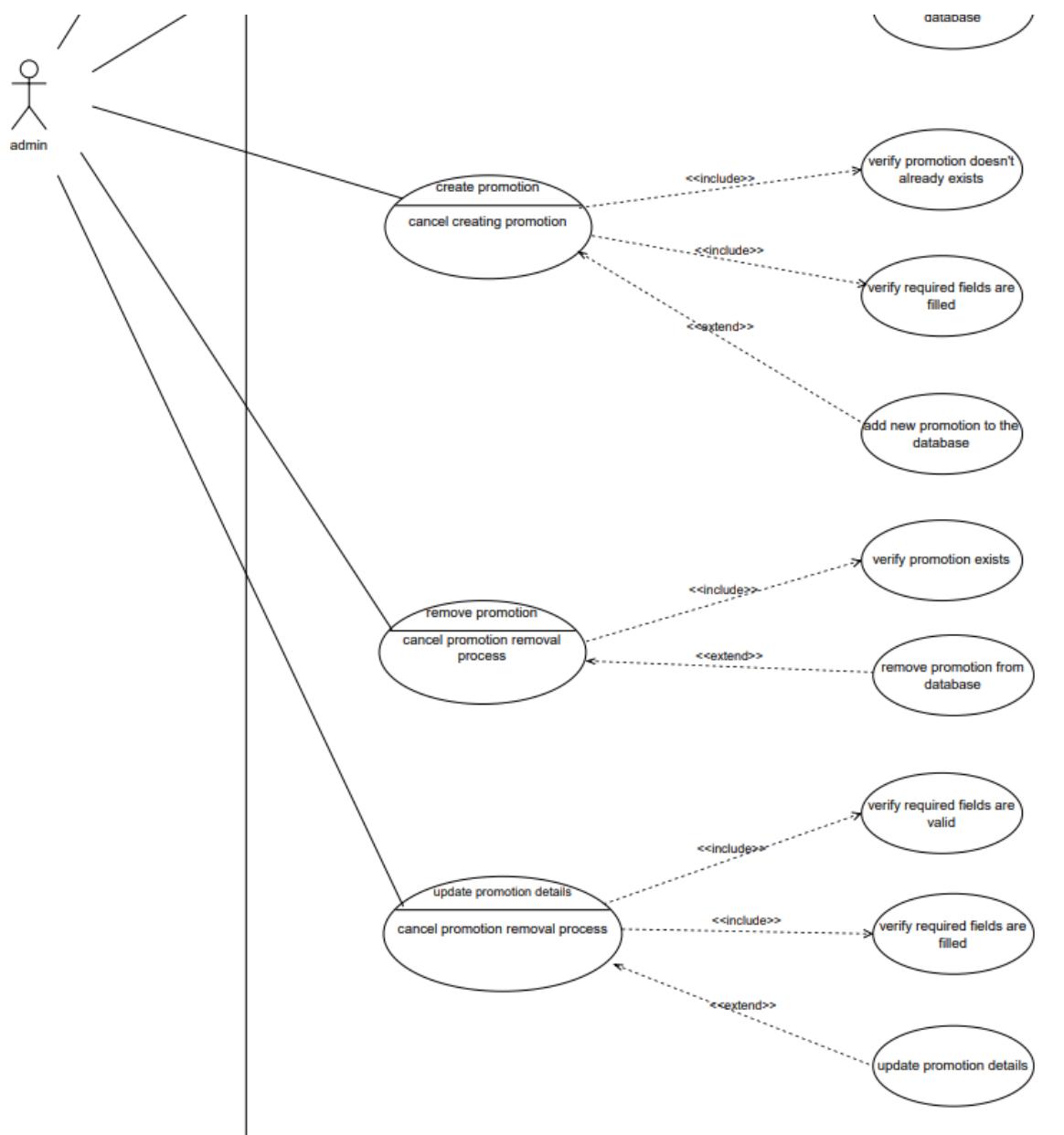


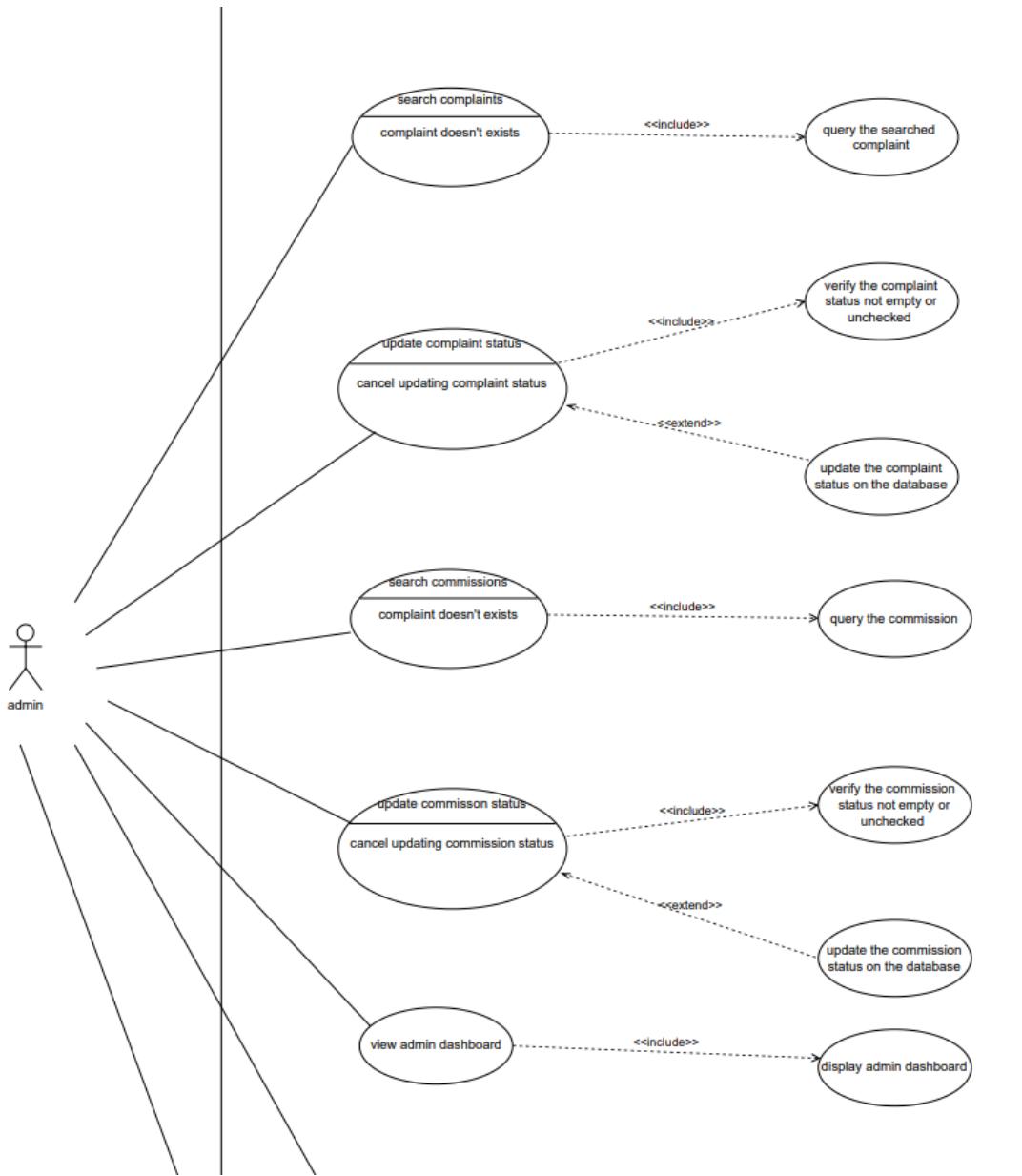


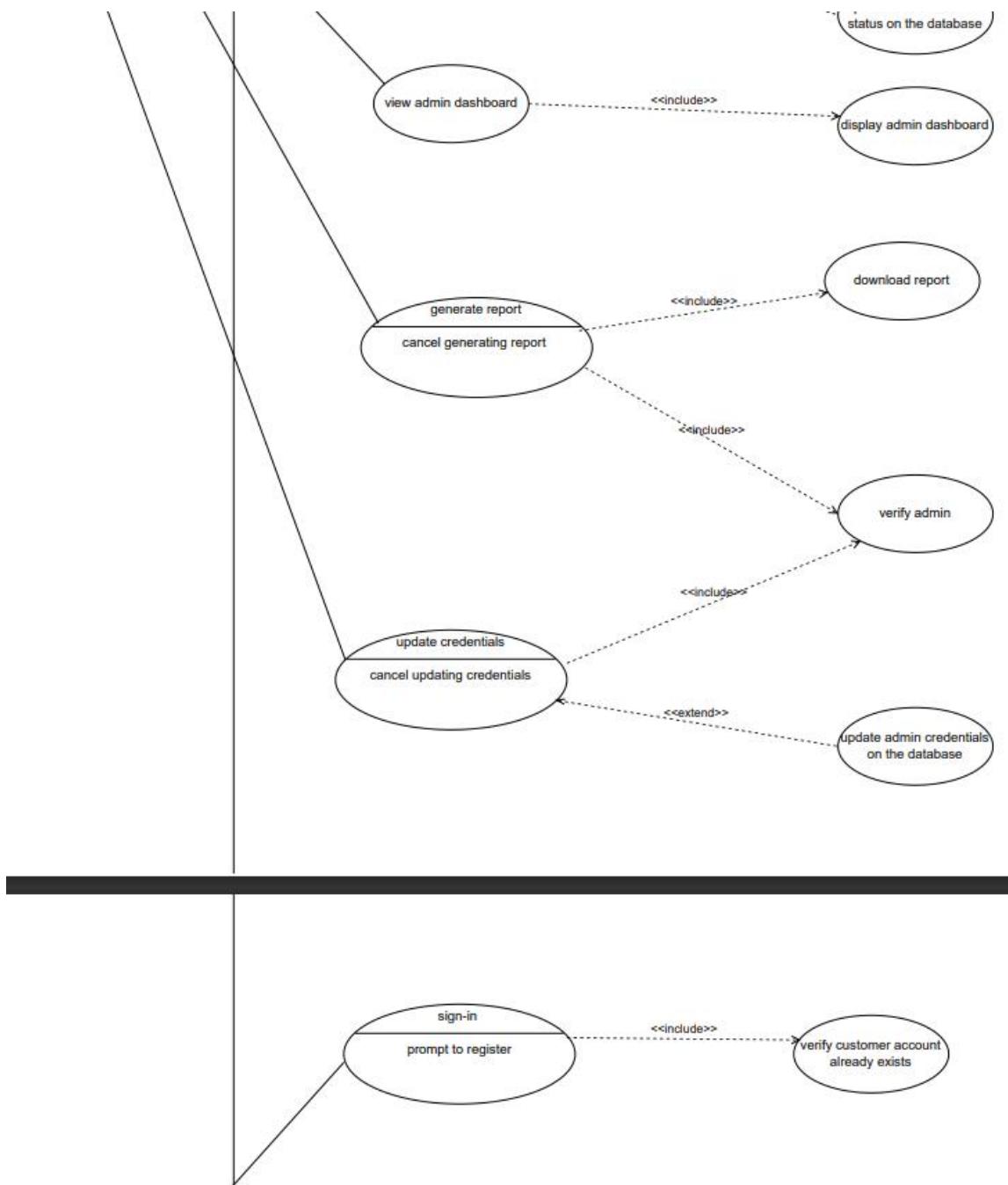




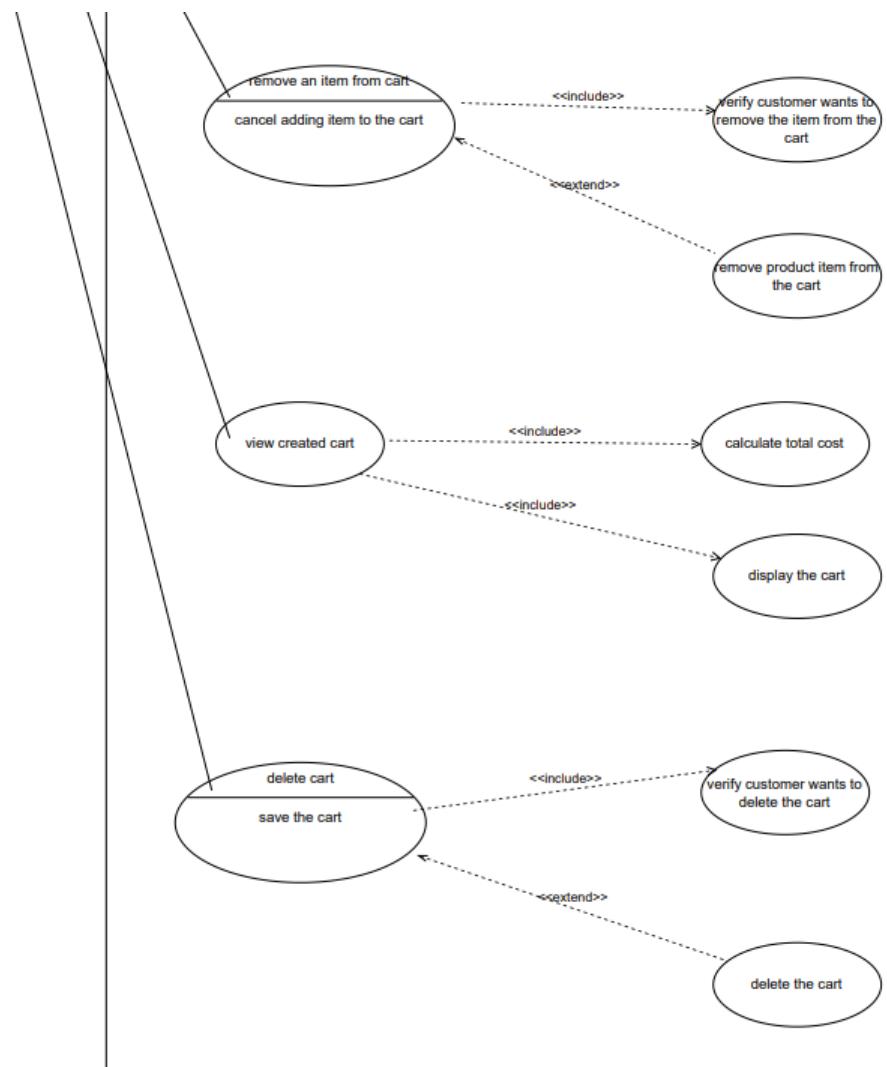


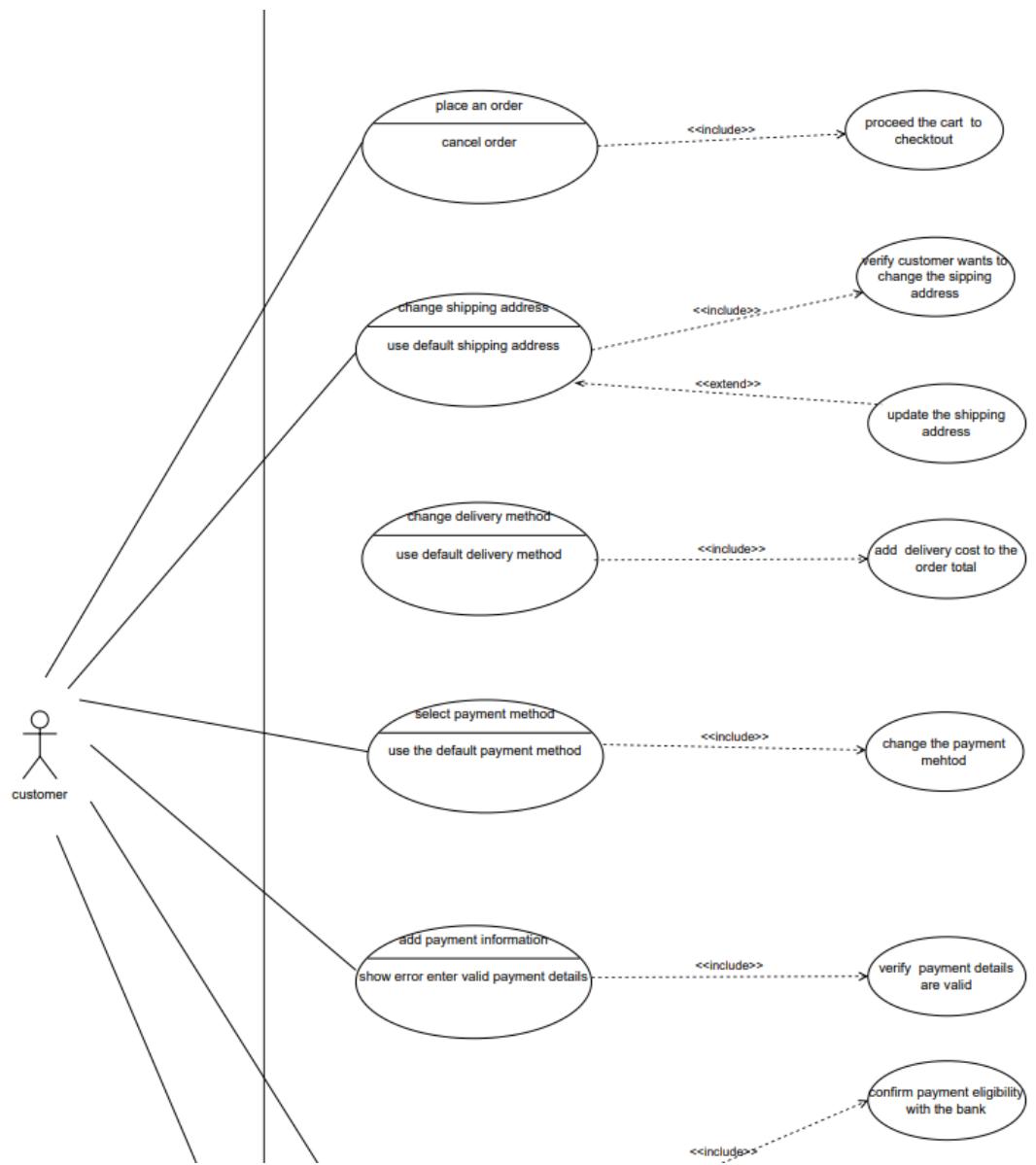






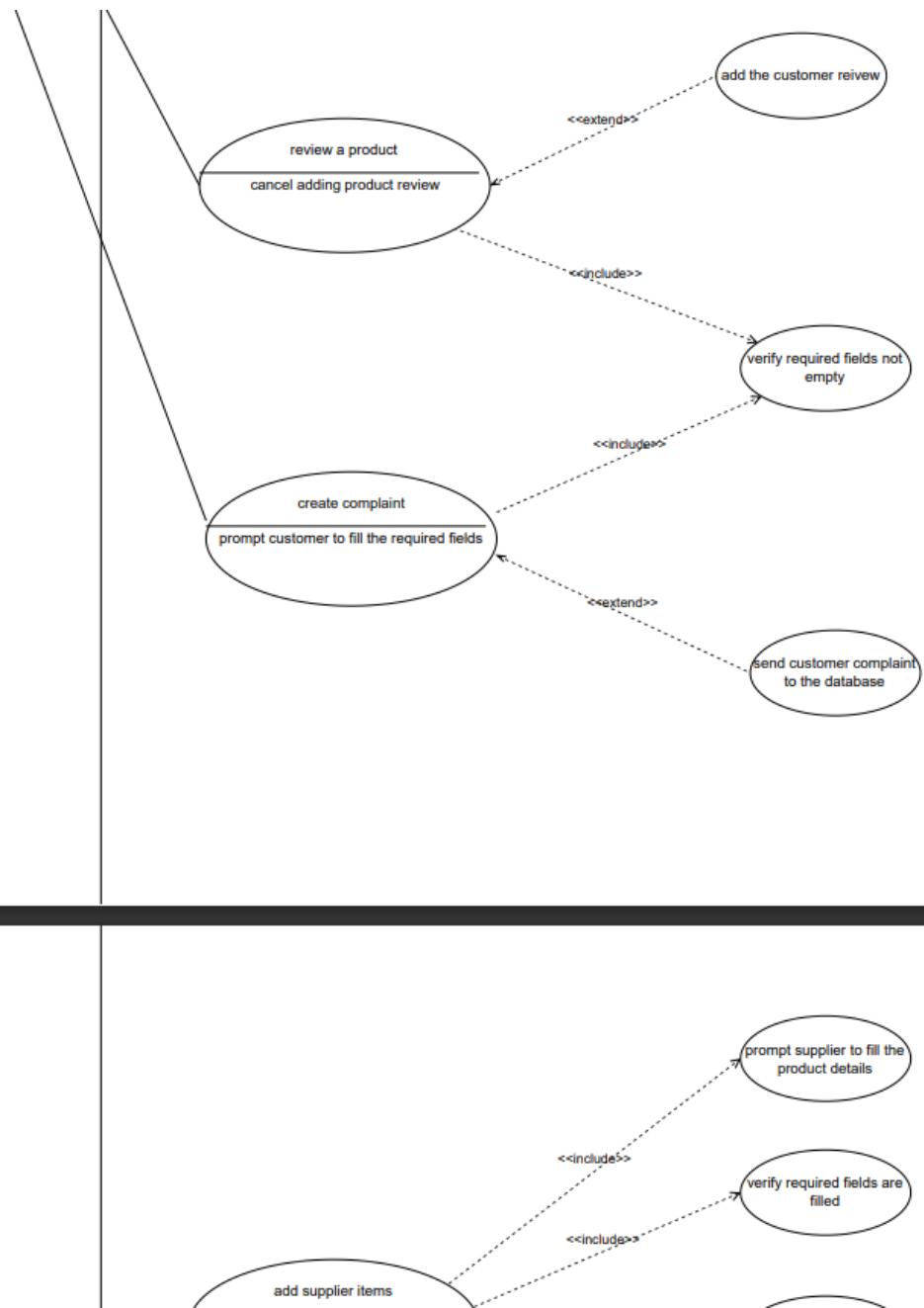






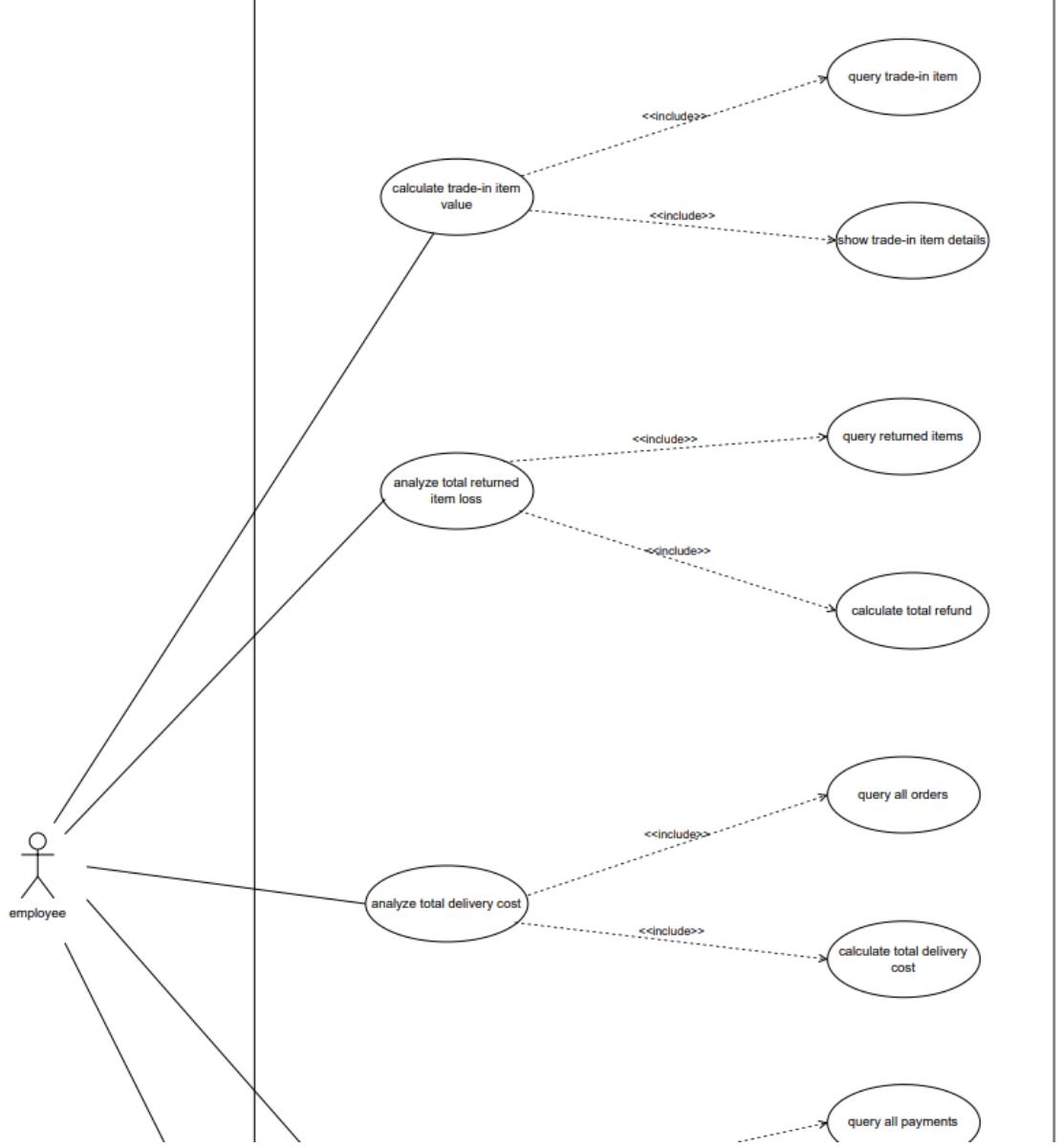


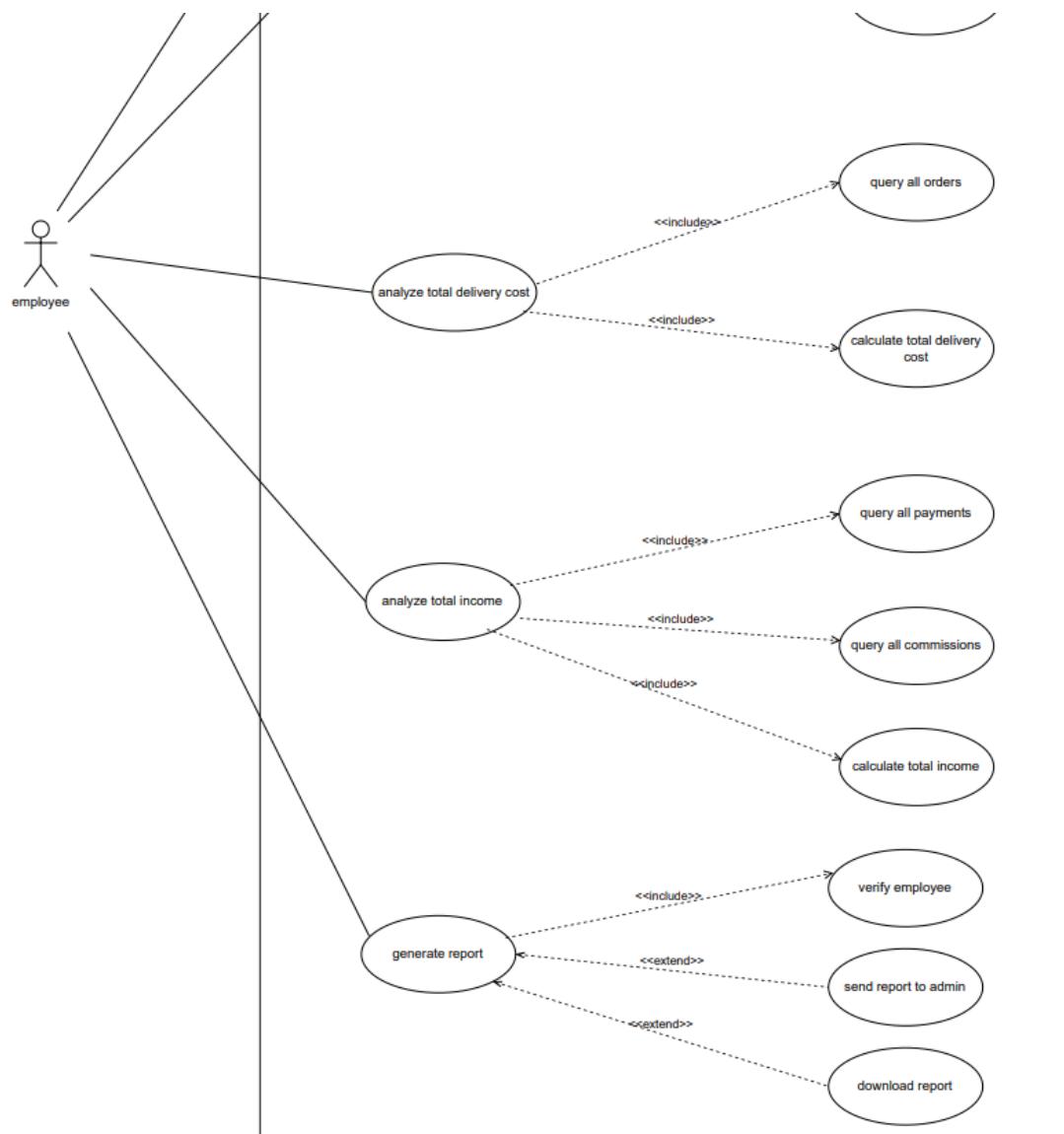




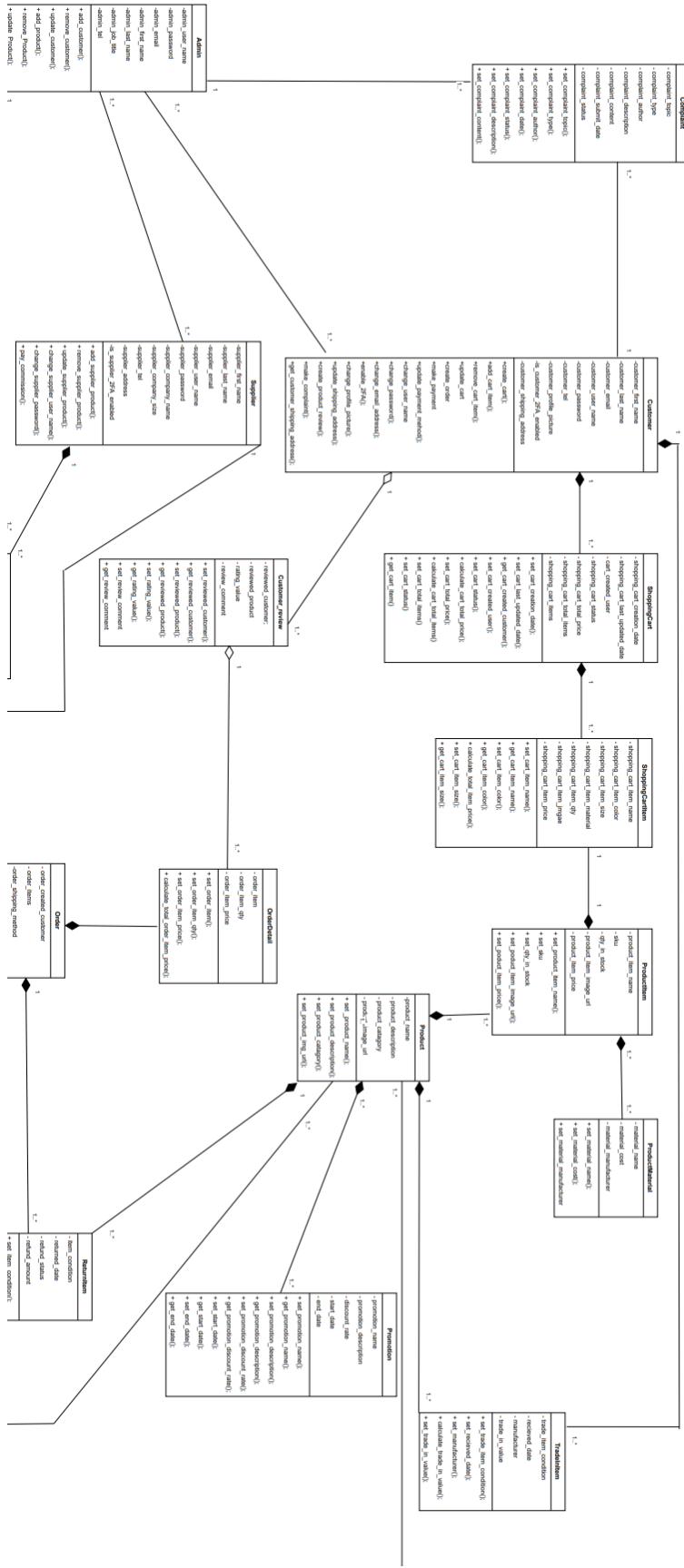


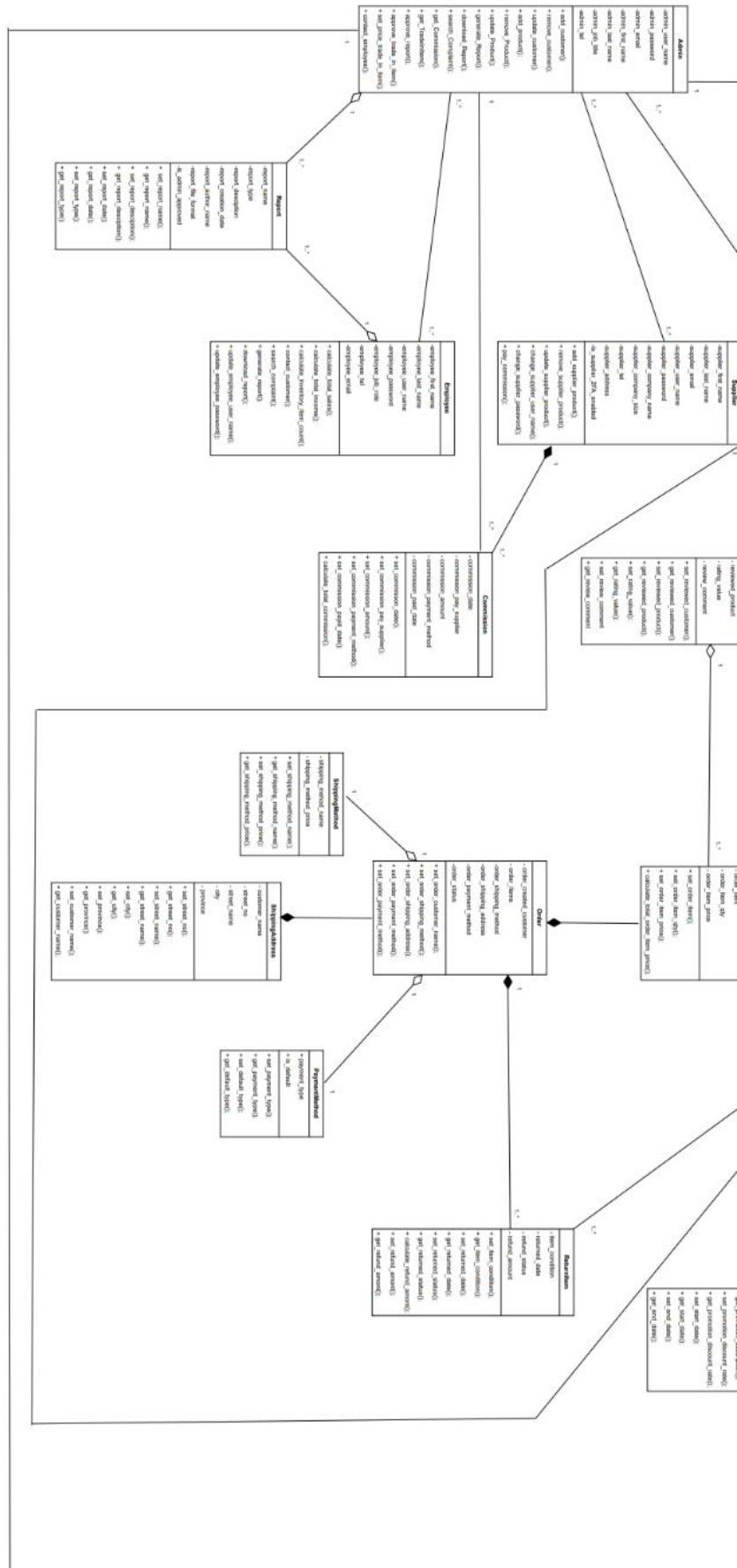






# Class Diagram

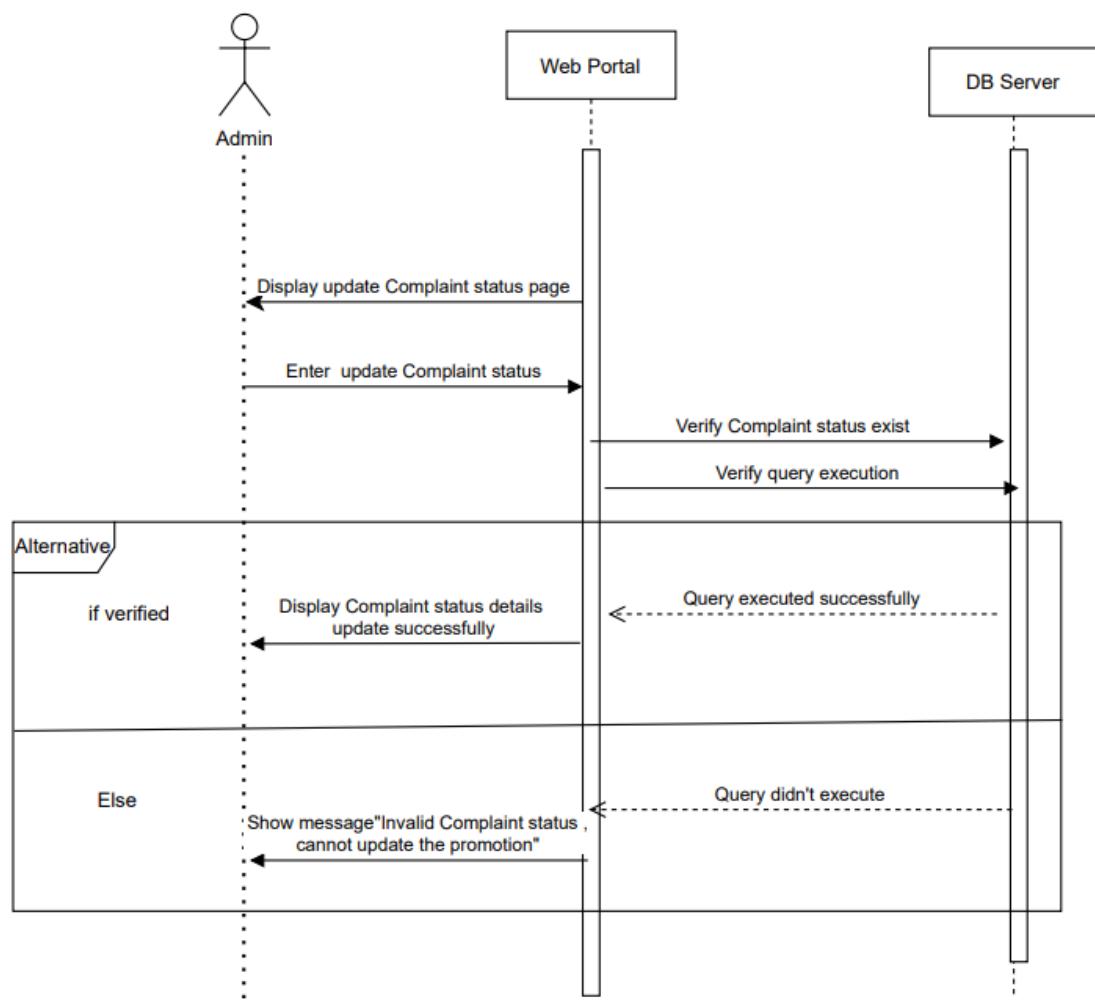




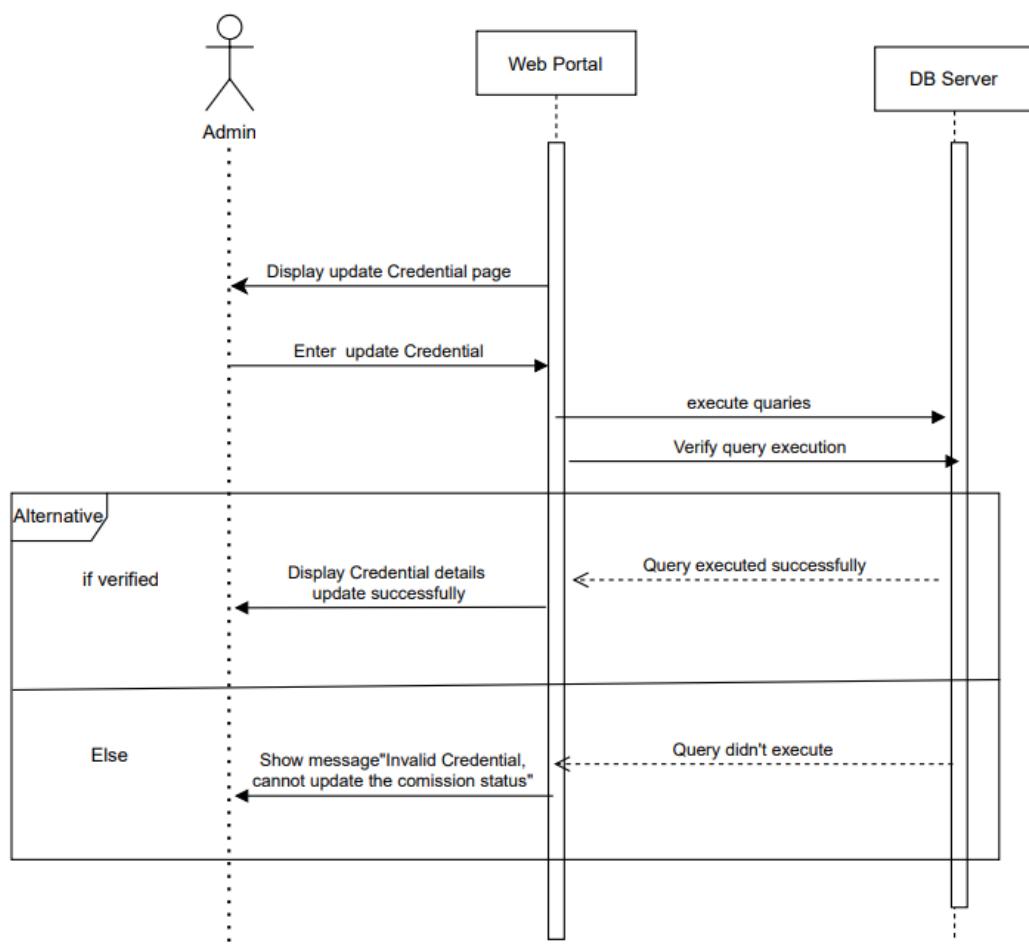
## Sequence Diagrams

Admin

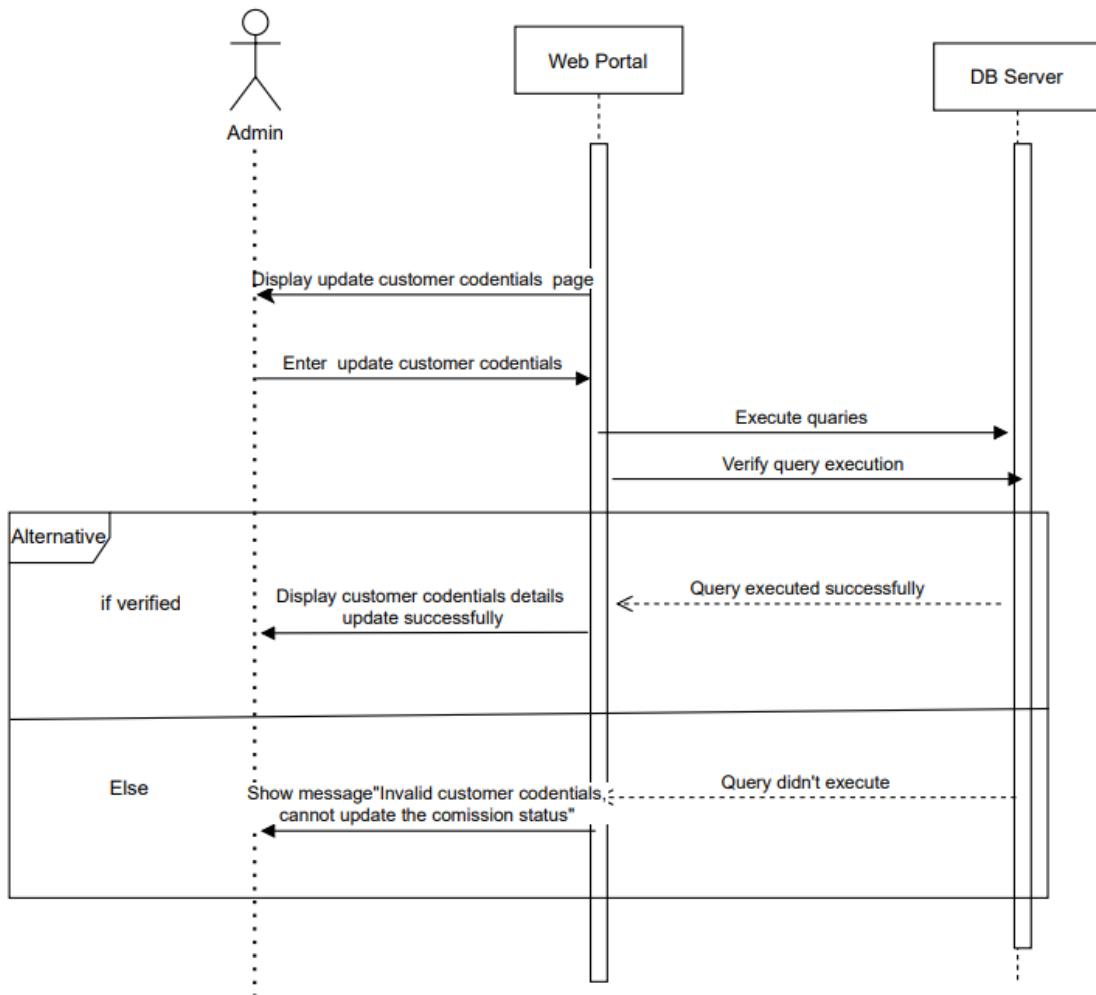
Sequence Diagram for Admin update Complaint status



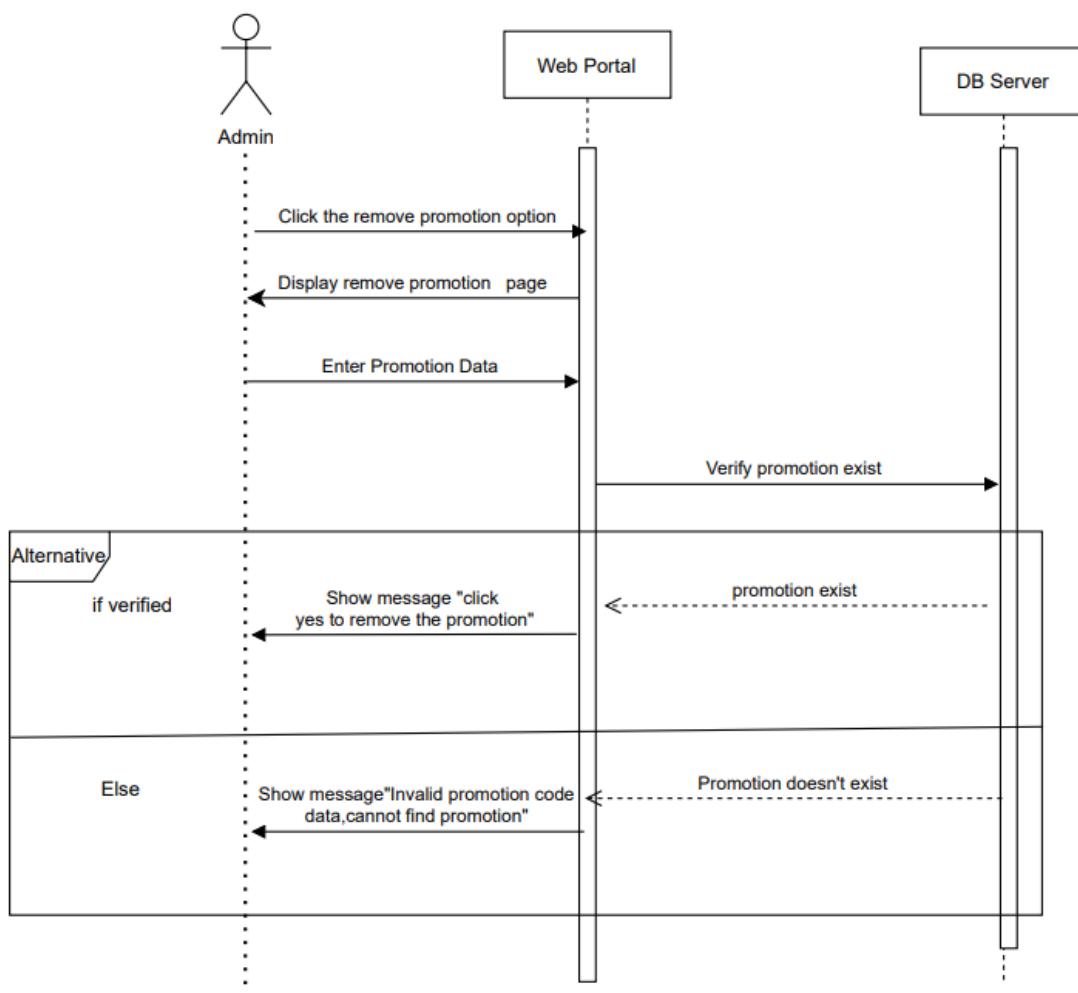
## Sequence Diagram for Admin update Credentials



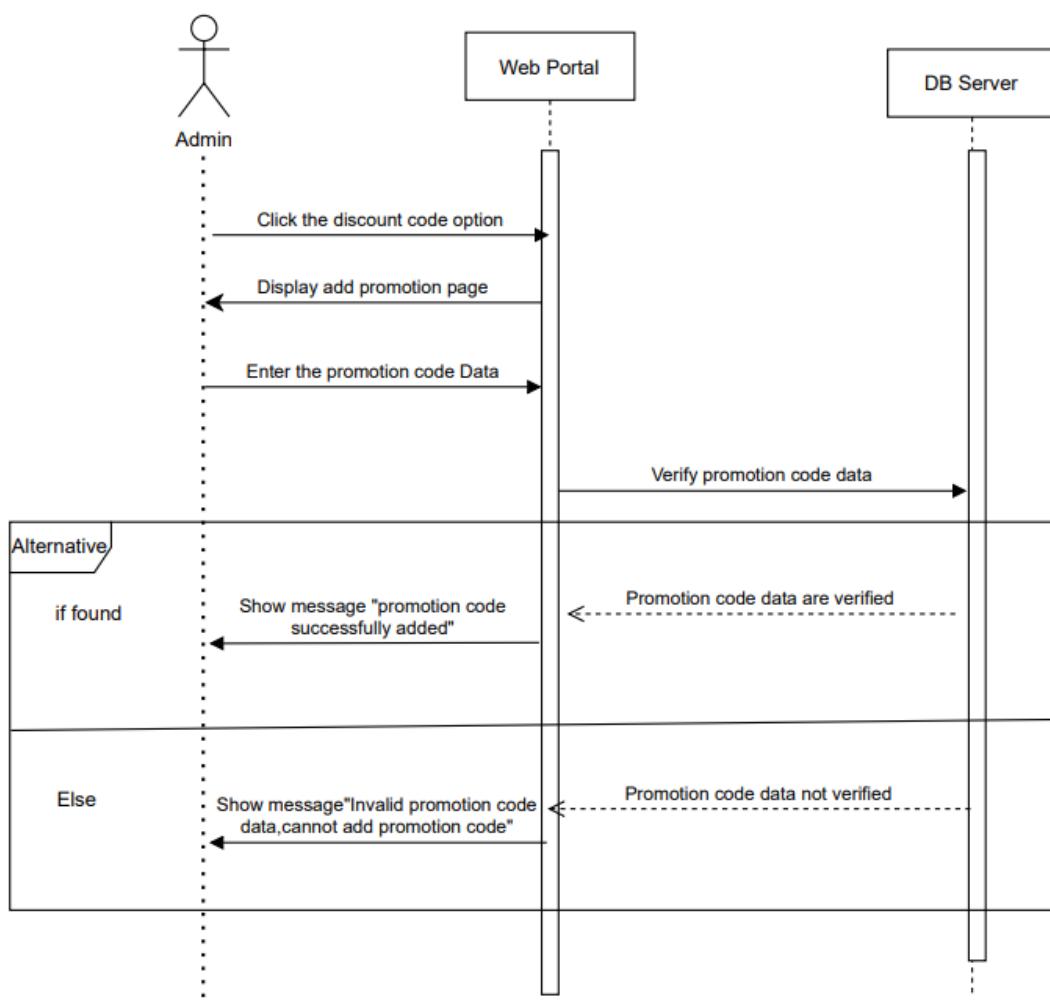
## Sequence Diagram for Admin update Customer codentials



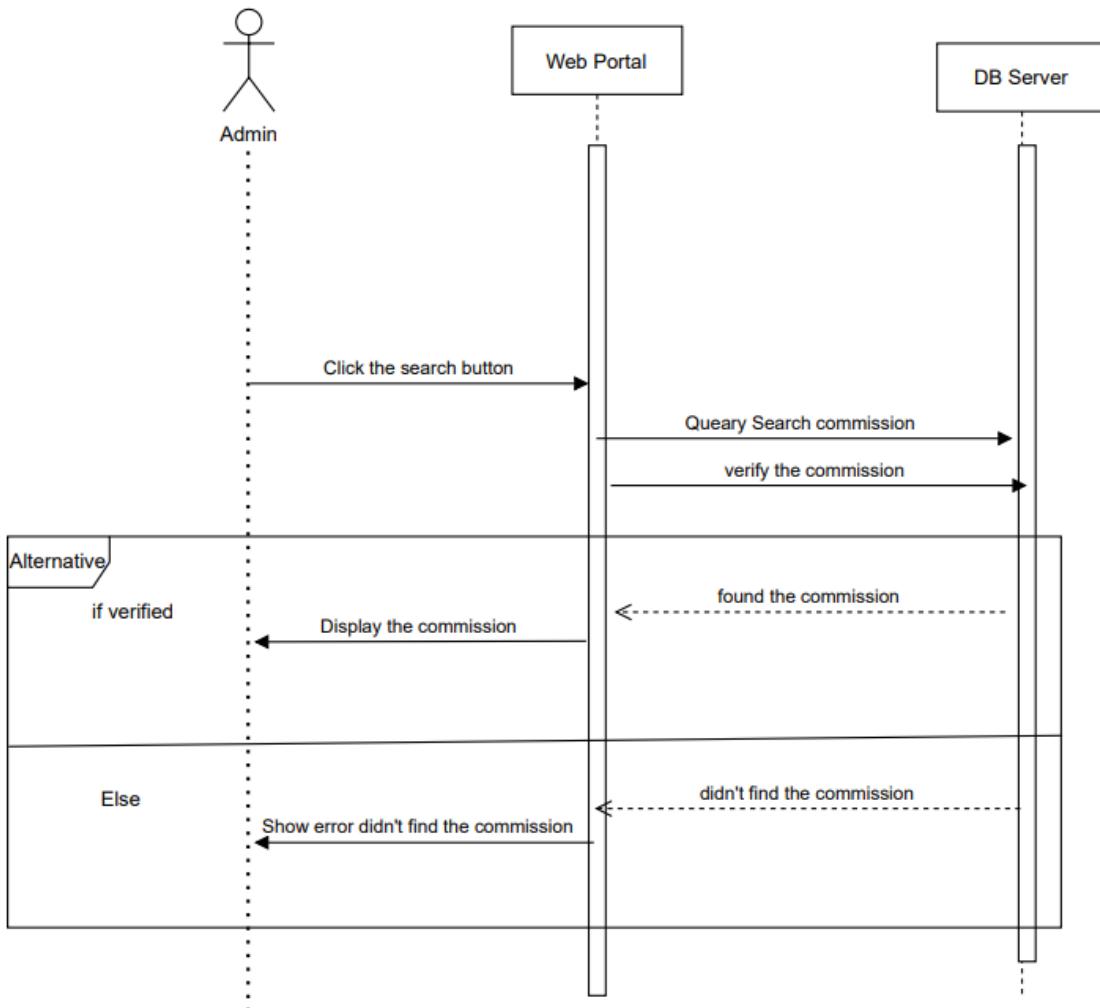
## Sequence Diagram for Admin remove Promotion



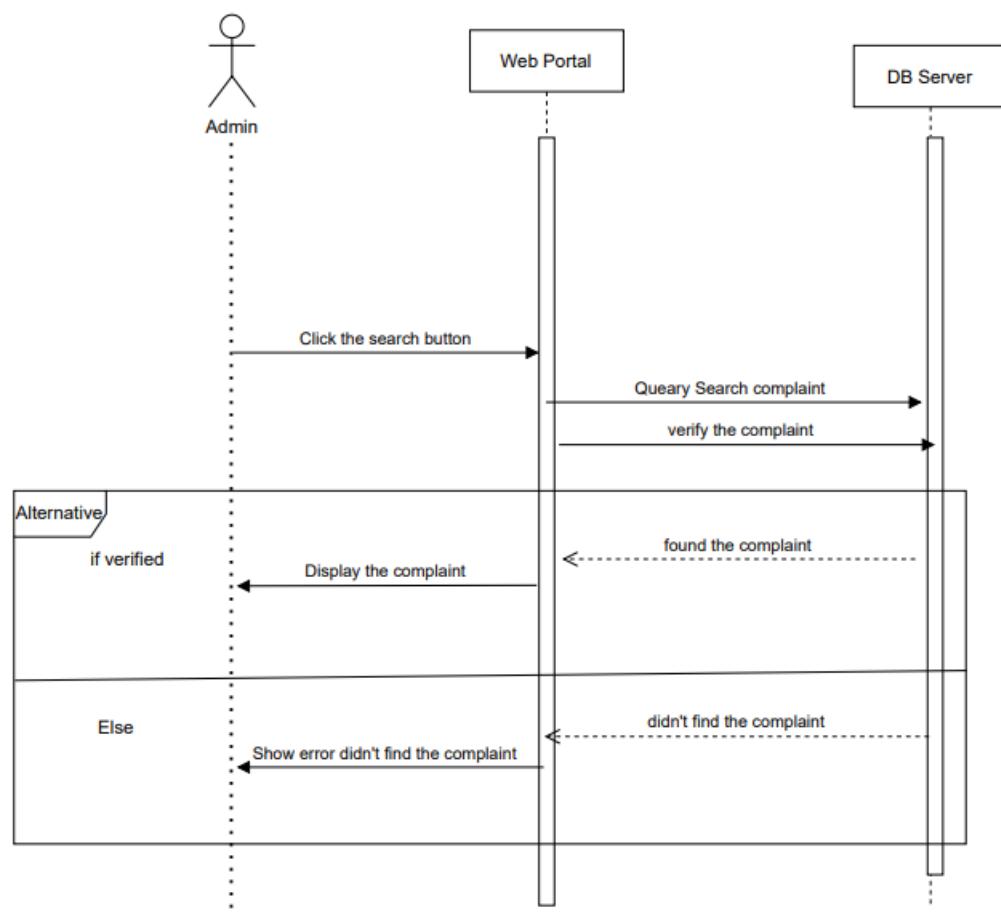
## Sequence Diagram for Admin create Promotion



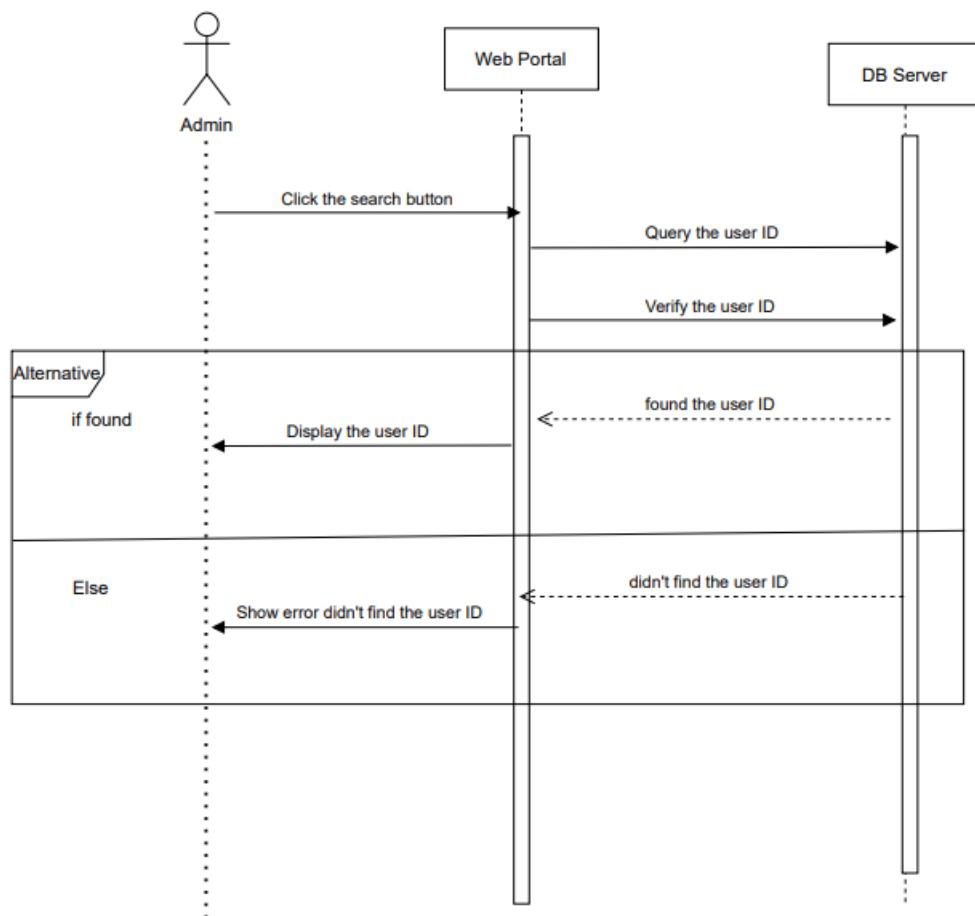
## Sequence Diagram for Admin Search Commission



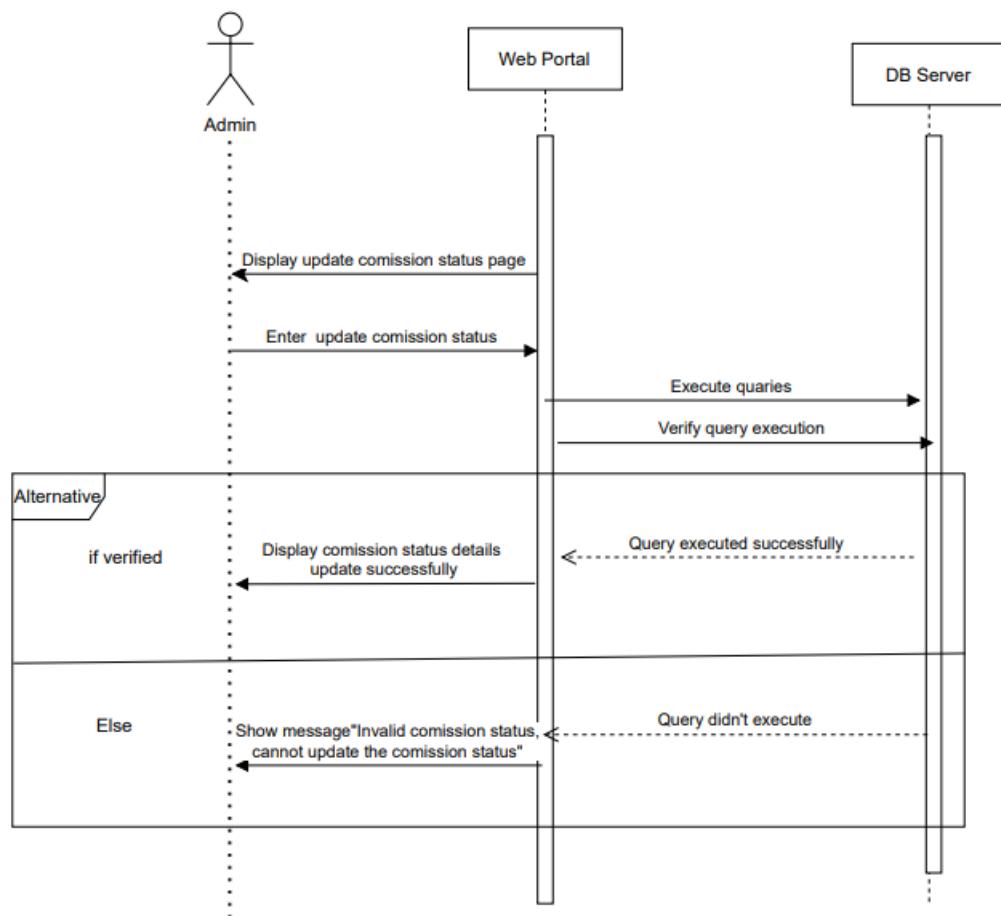
## Sequence Diagram for Admin Search Complaint



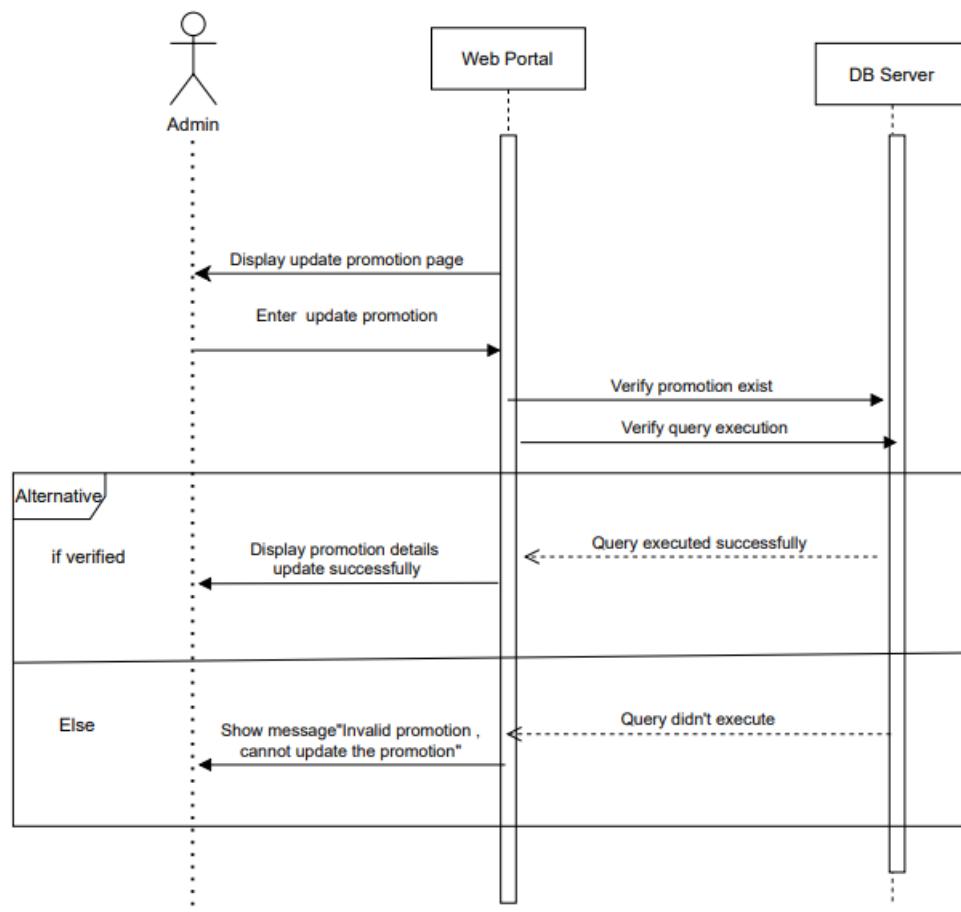
## Sequence Diagram for Admin search user



## Sequence Diagram for Admin update Comission Status

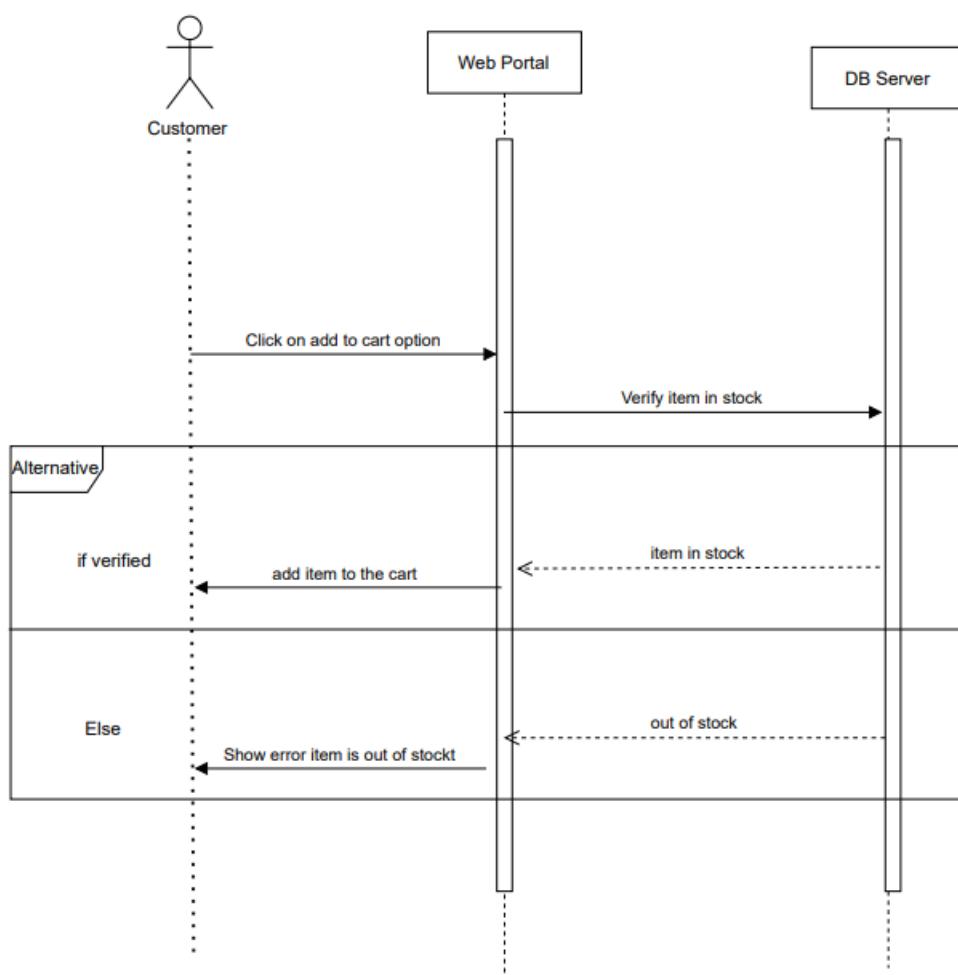


## Sequence Diagram for Admin update Promotion

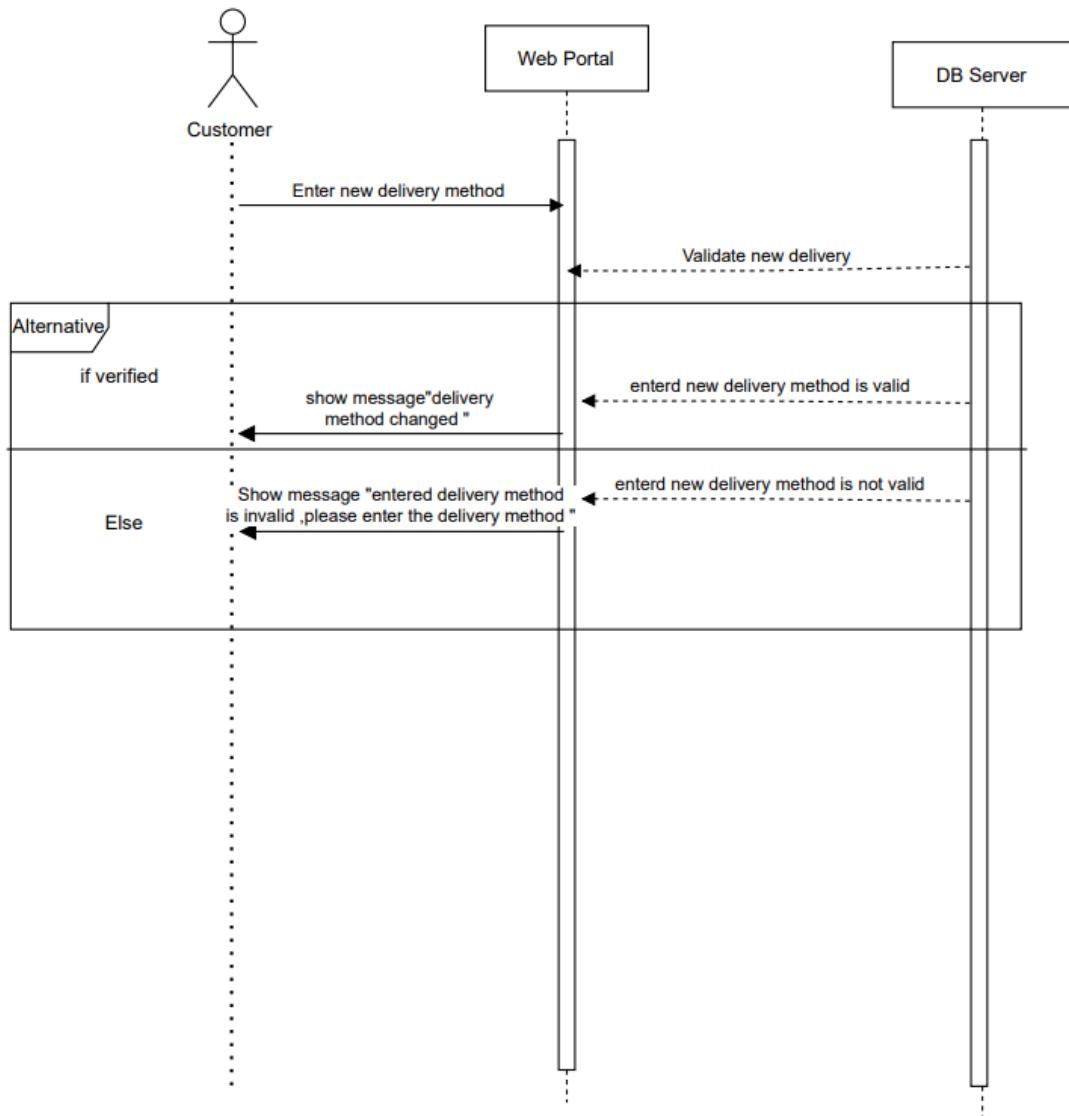


## Customer

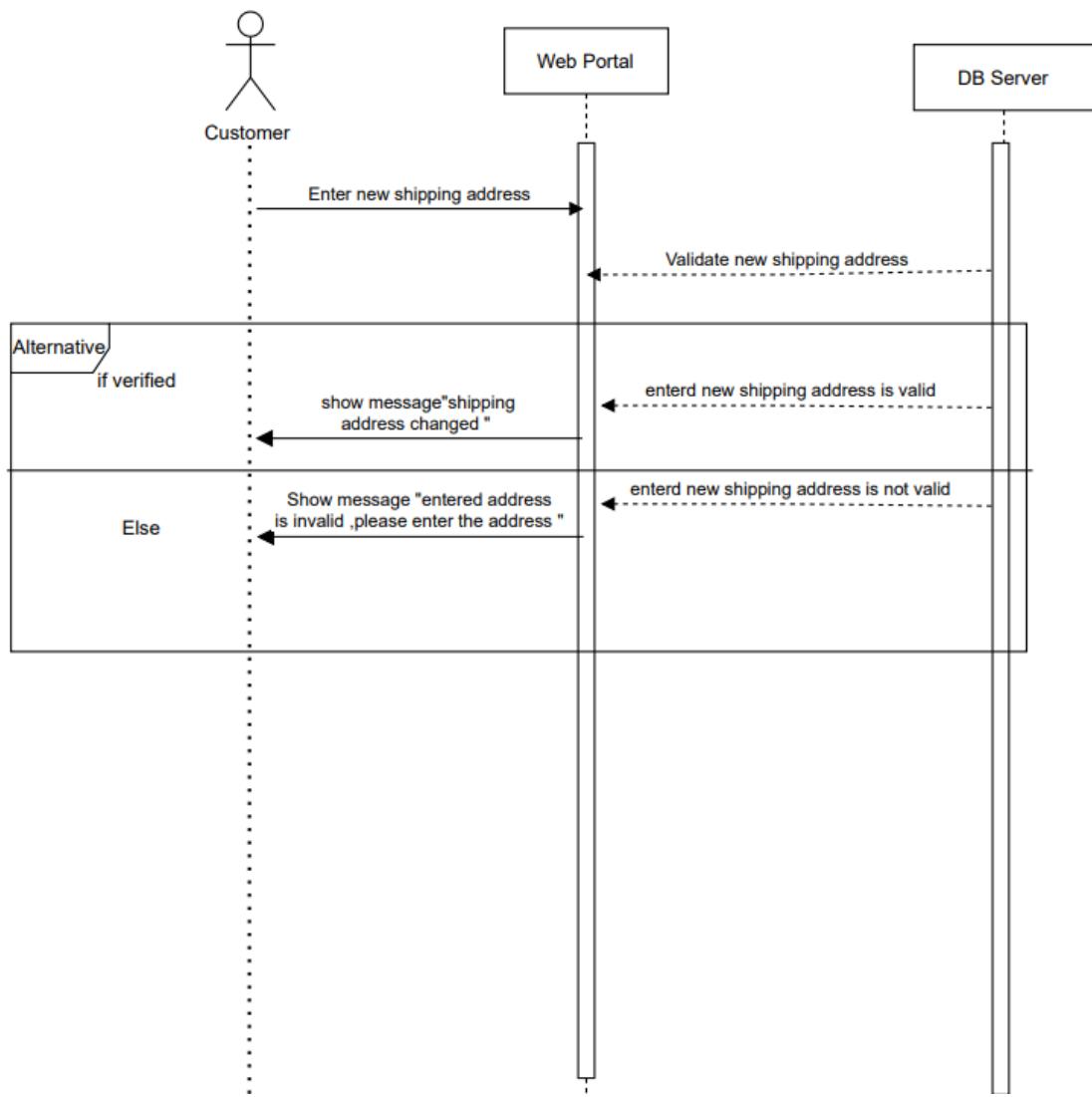
Sequence Diagram for Customer add item to the cart



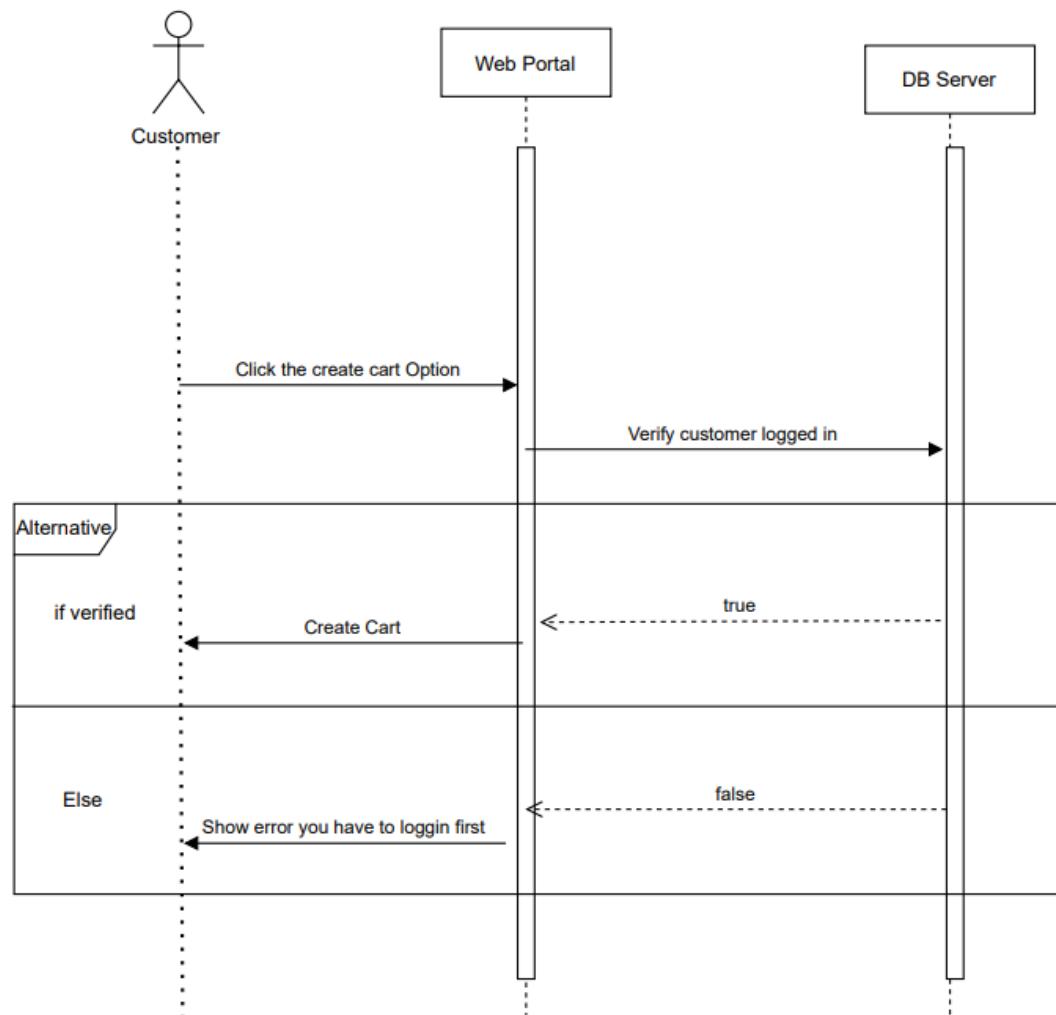
## Sequence Diagram for Customer change delivery method



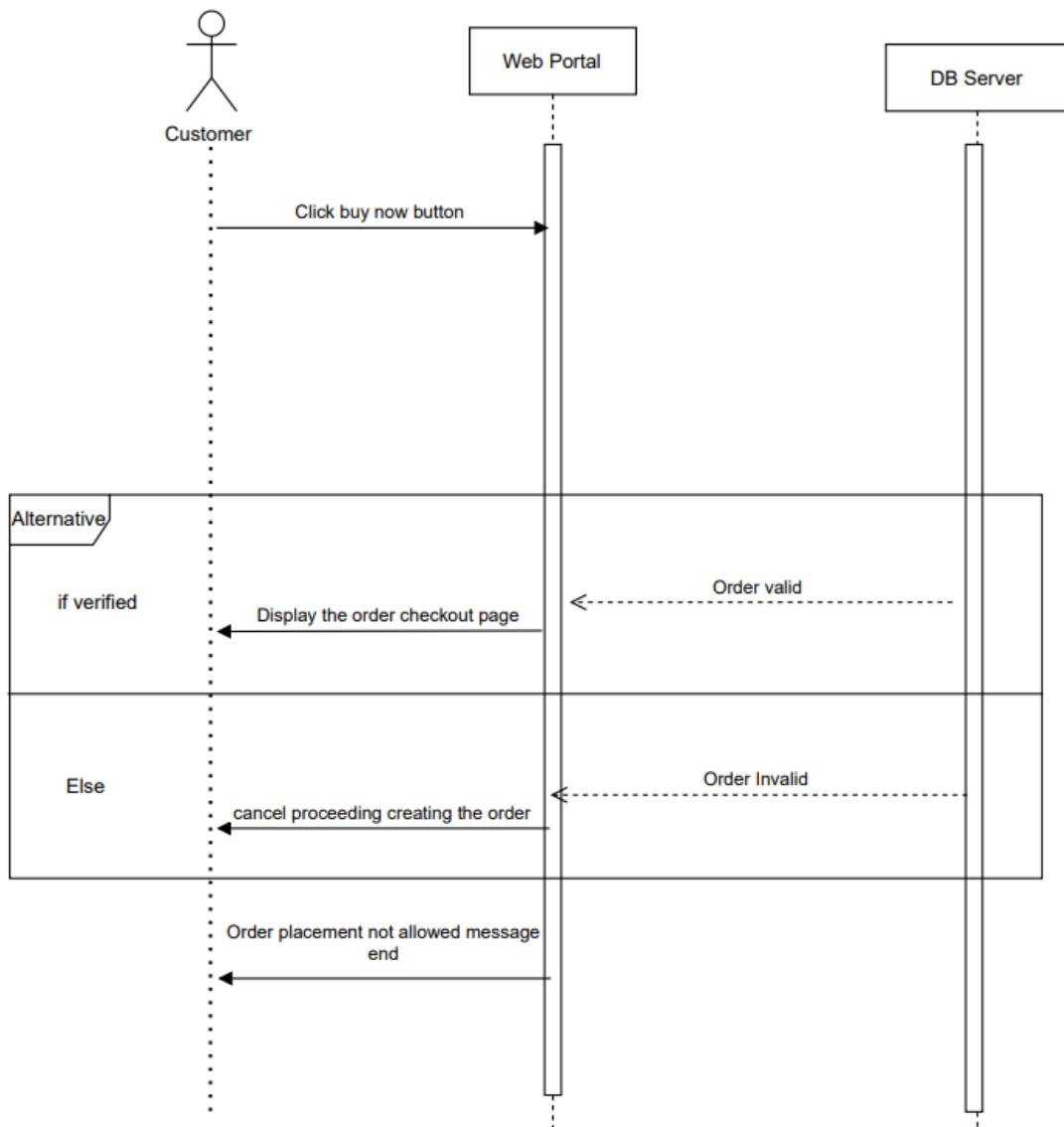
## Sequence Diagram for Customer change the shipping address



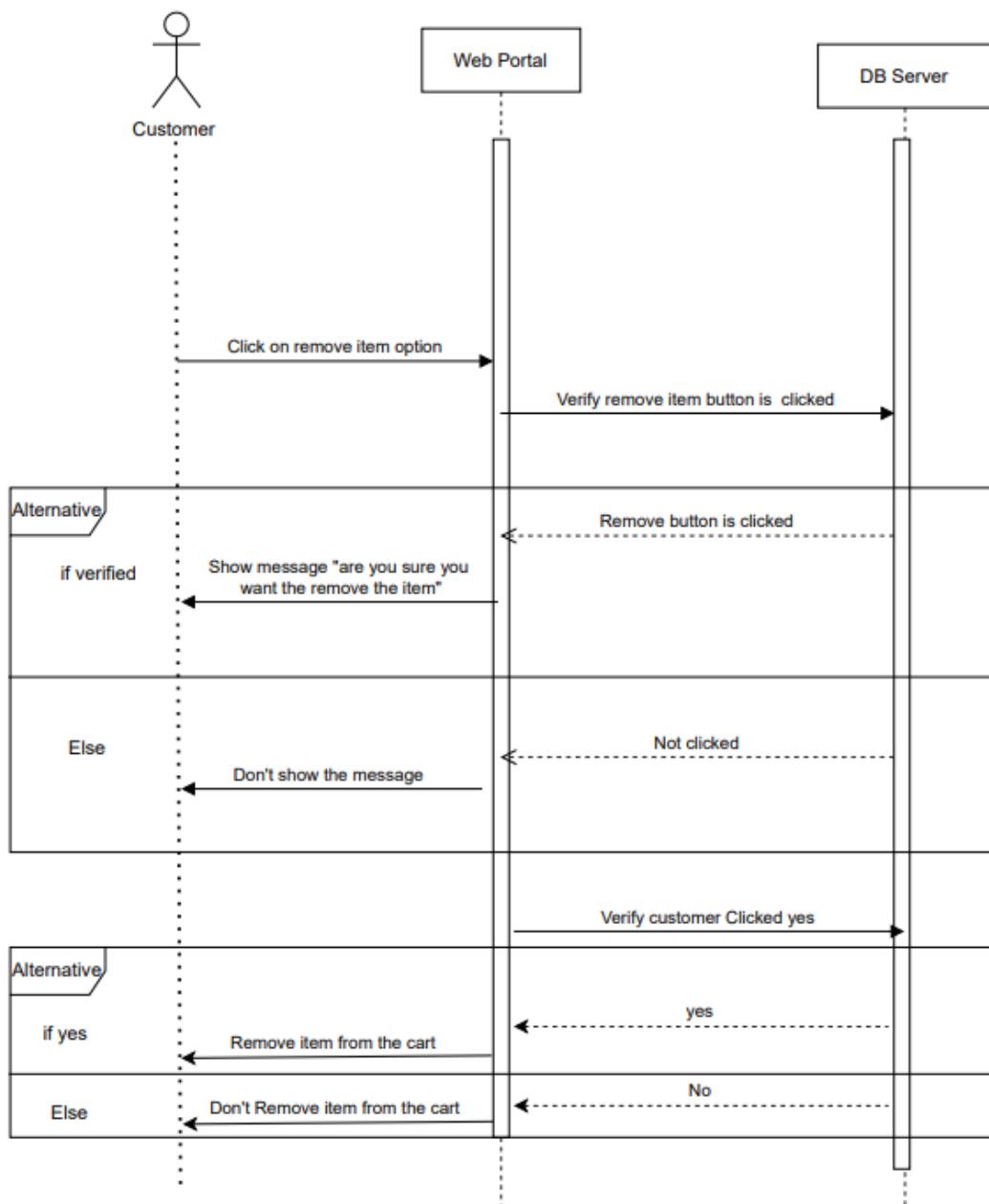
## Sequence Diagram for Customer create Cart



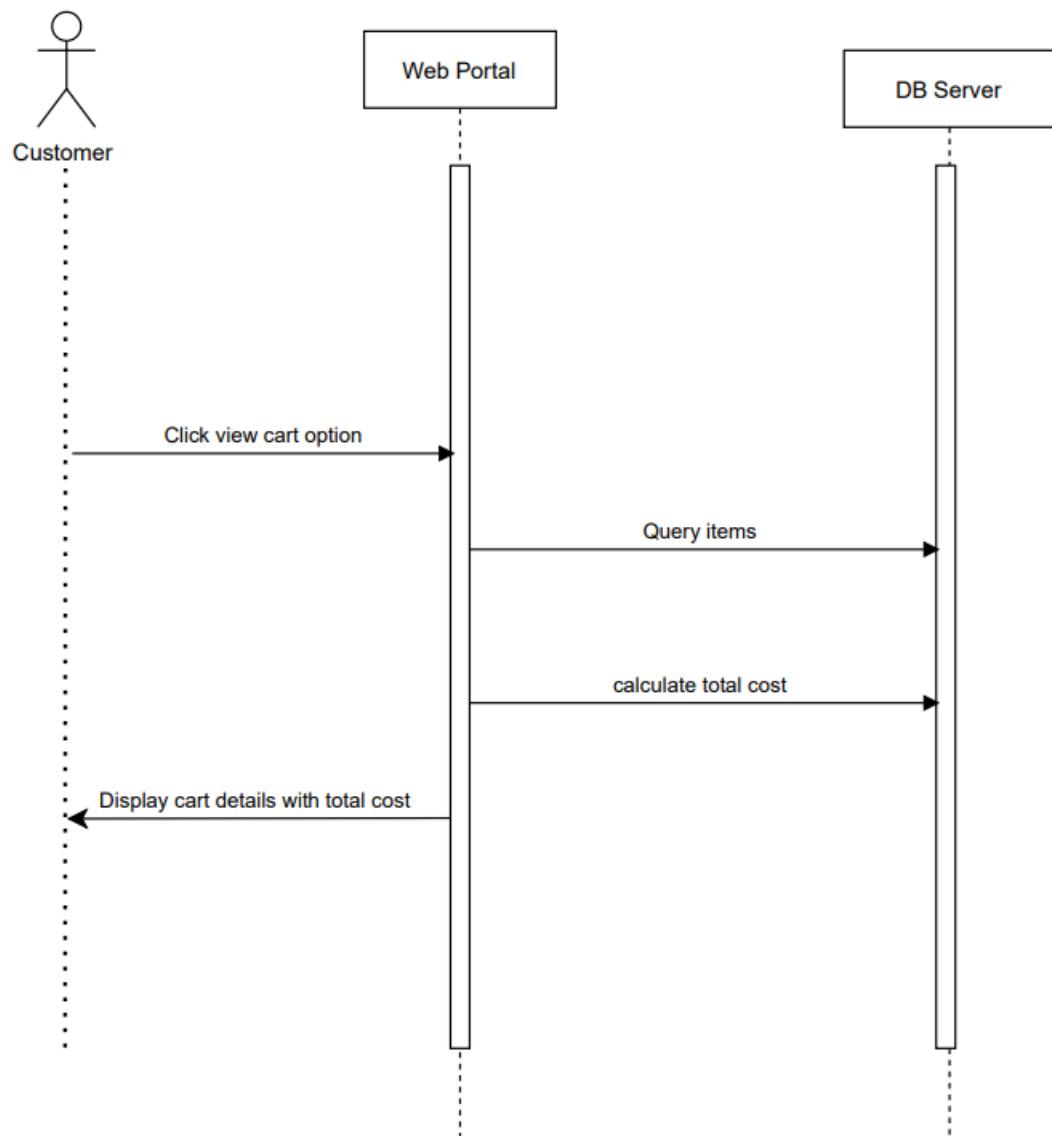
## Sequence Diagram for Customer place an order



## Sequence Diagram for Customer remove item from cart

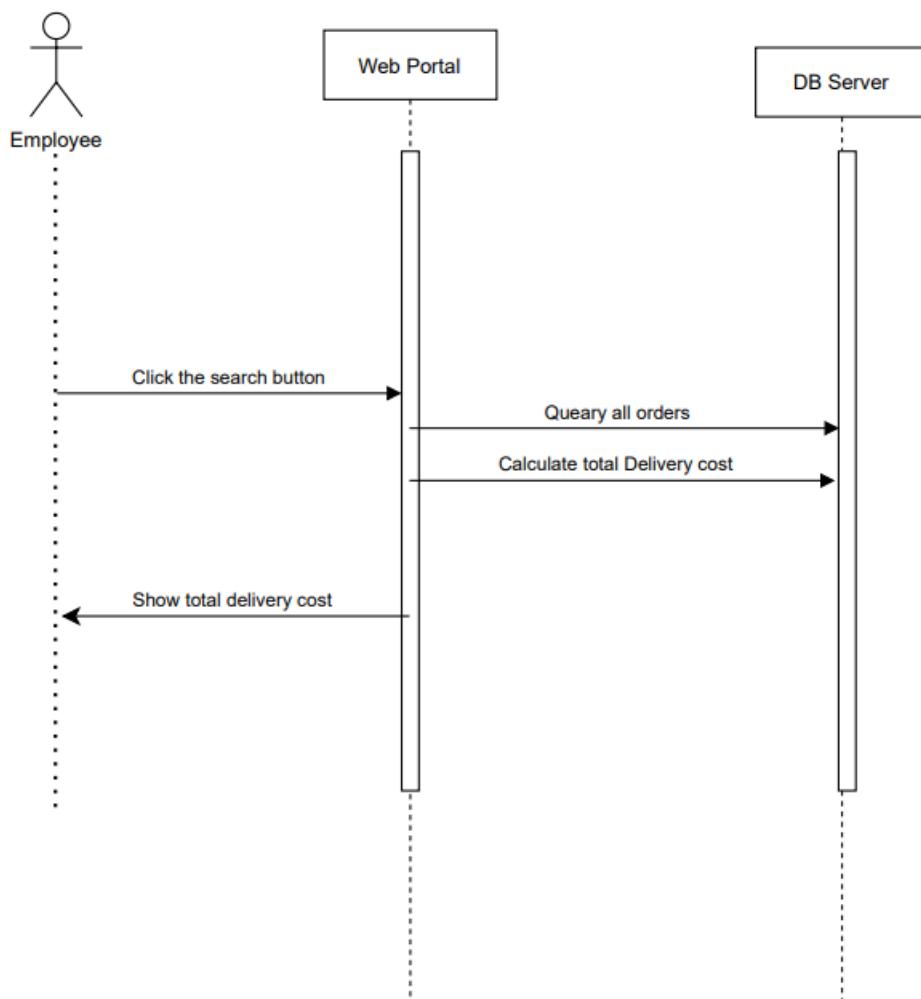


## Sequence Diagram for Customer View Cart

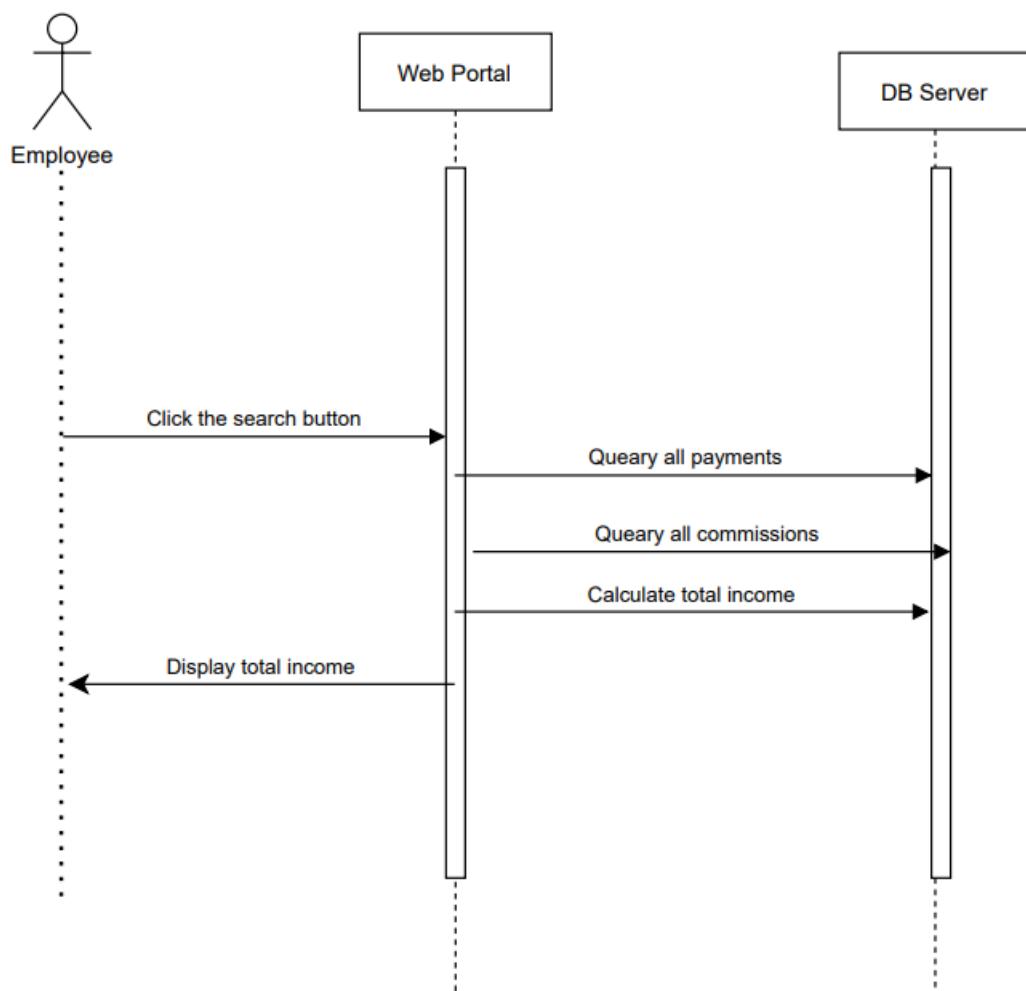


## Employee

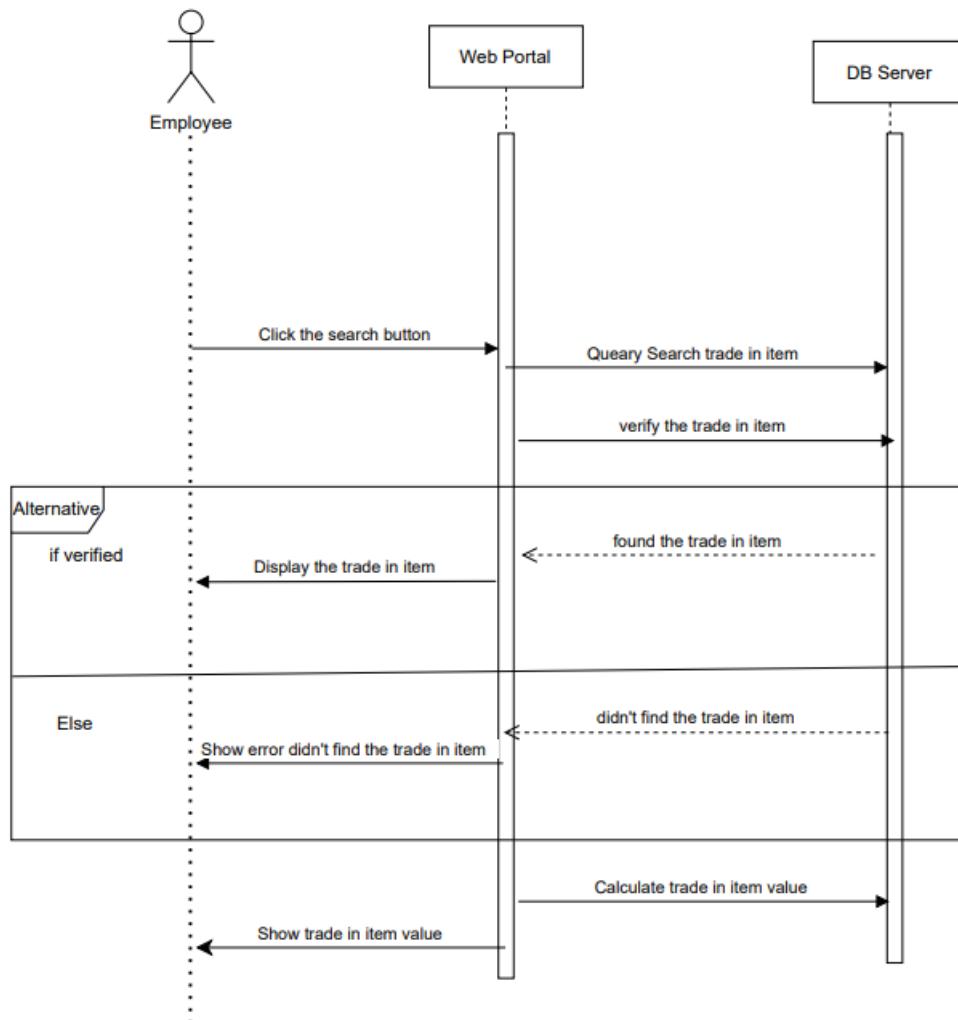
Sequence Diagram for employee  
Analyze total delivery cost



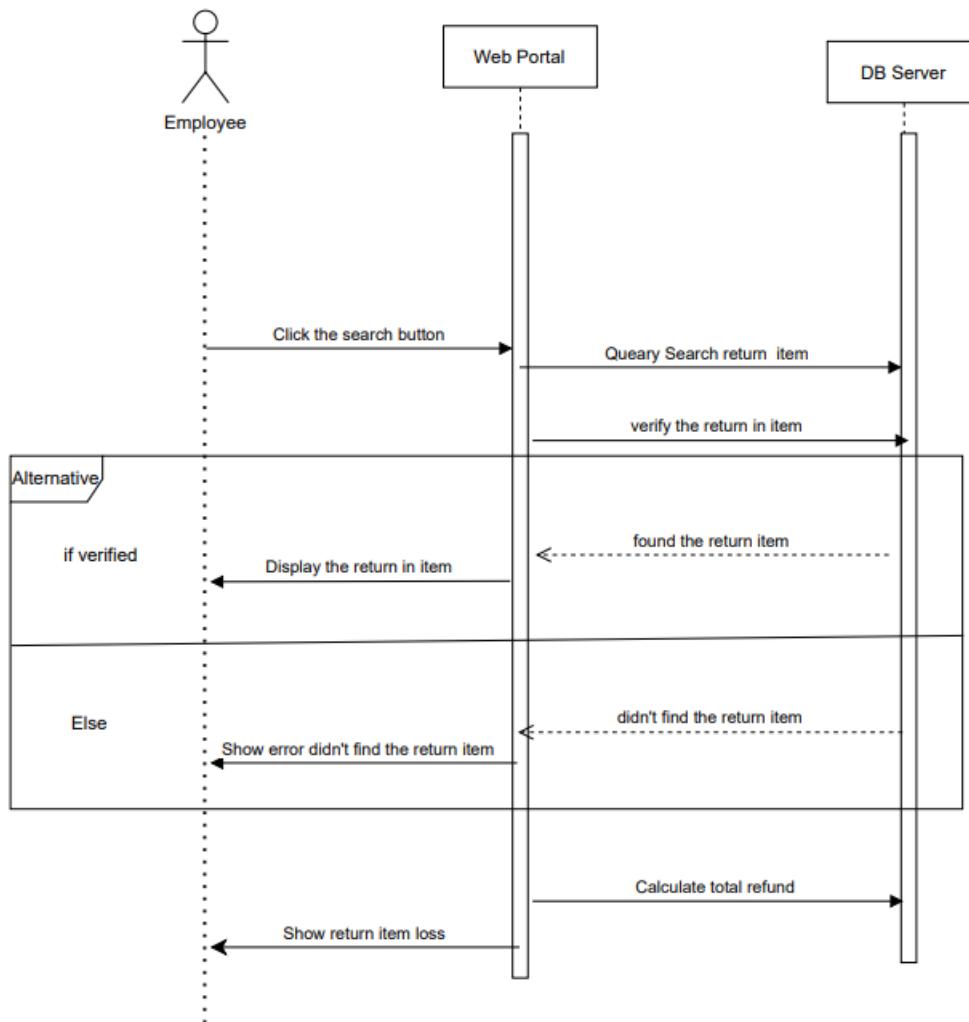
## Sequence Diagram for employee Analyze total income



## Sequence Diagram for employee search & calculate trade in item

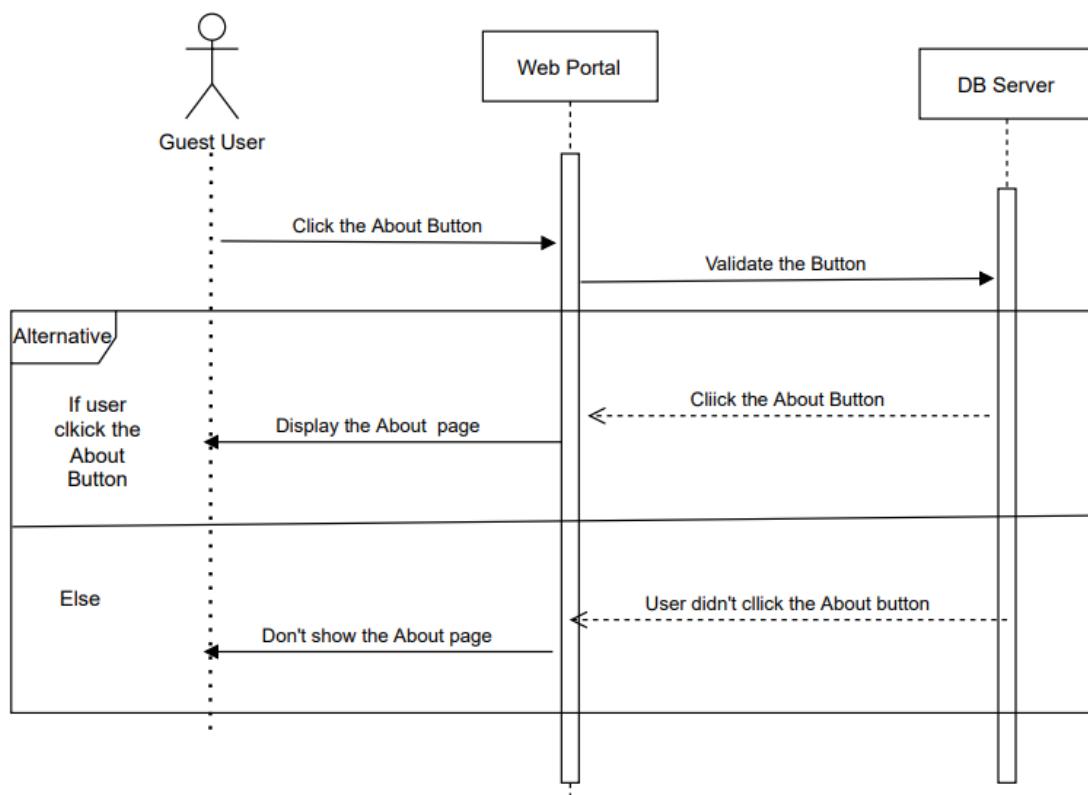


## Sequence Diagram for employee search & Analyze total return item loss

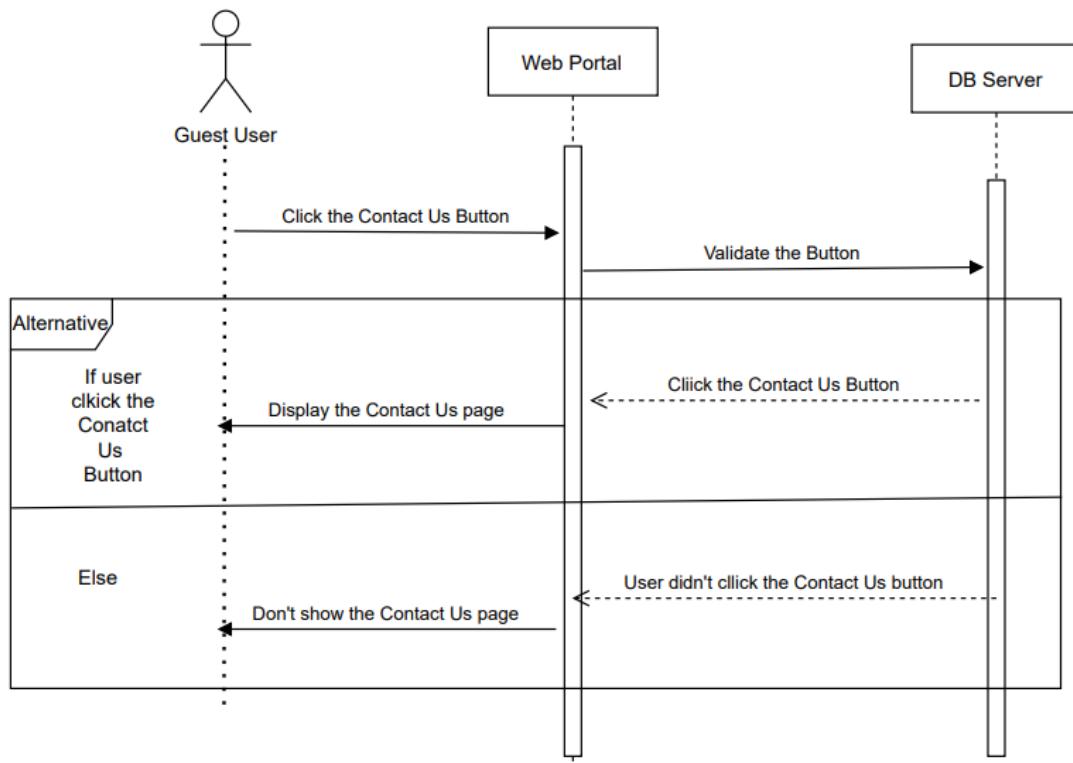


## Guest User

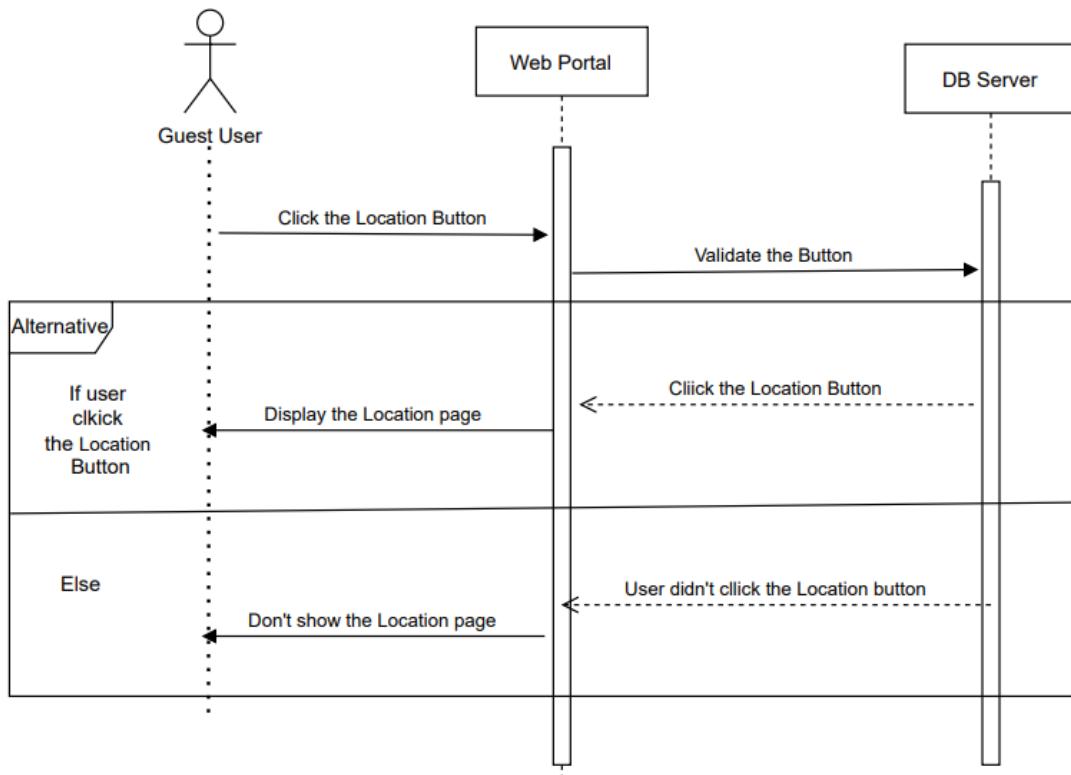
Sequence Diagram for guest View About Page



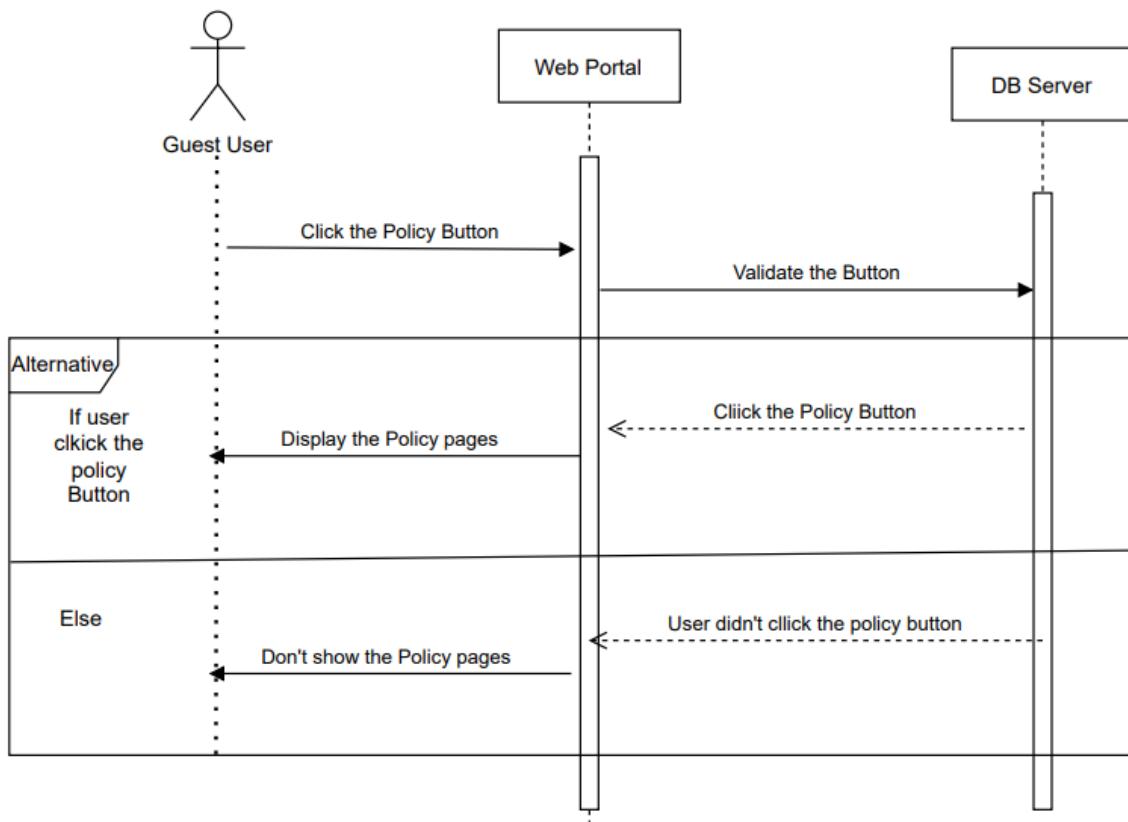
## Sequence Diagram for guest View Contact Details



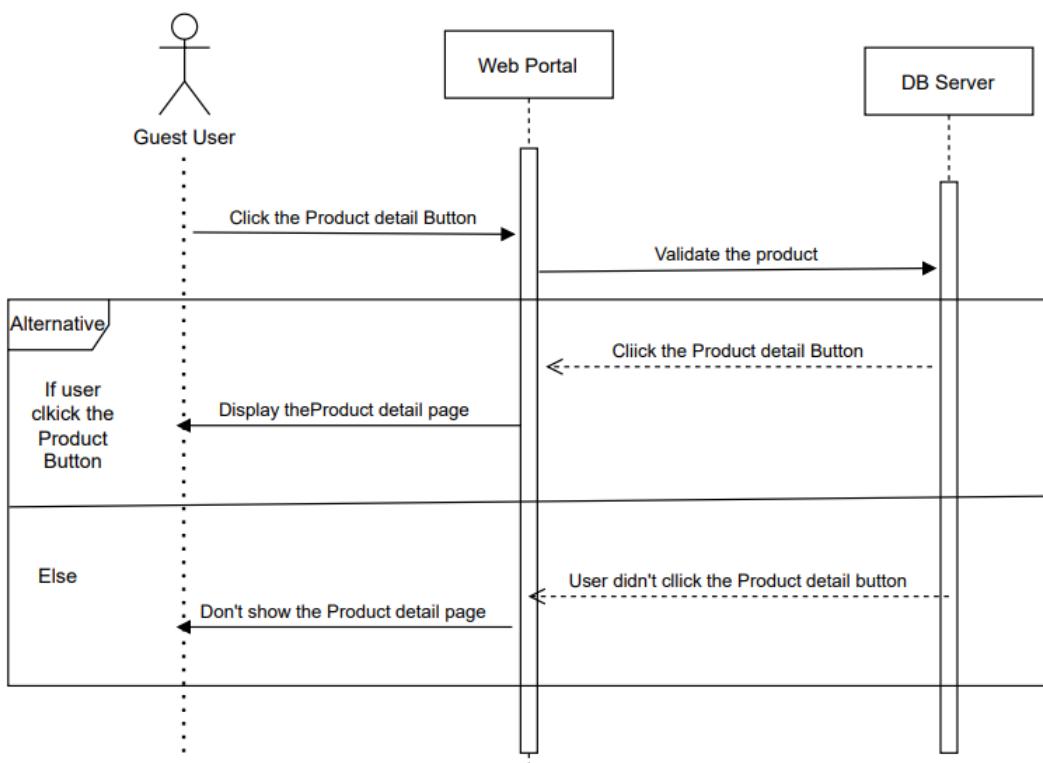
## Sequence Diagram for guest View Location



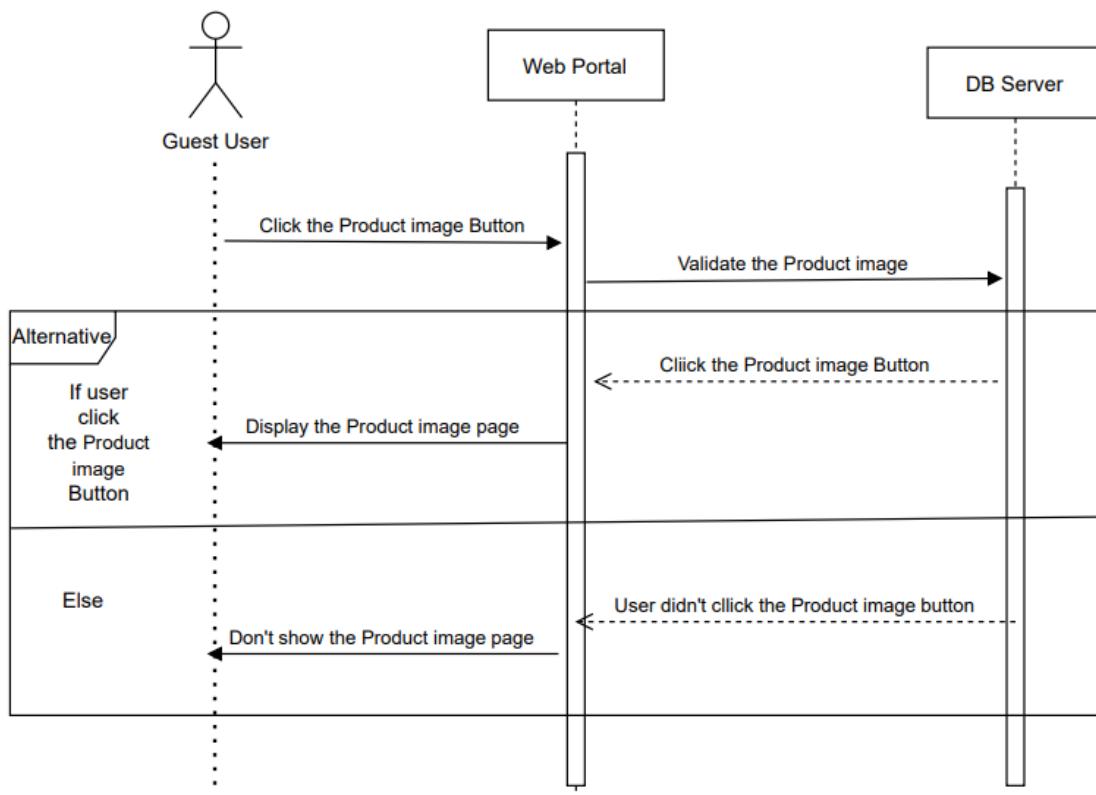
## Sequence Diagram for guest View Policies



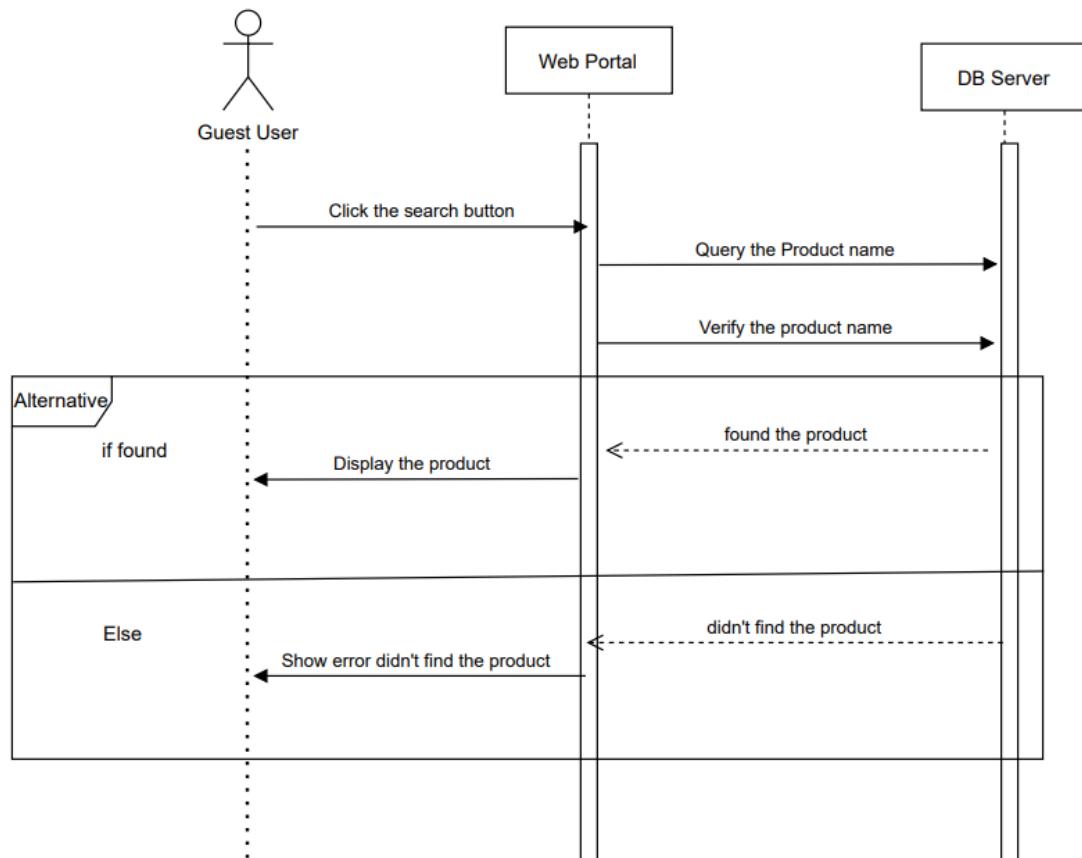
## Sequence Diagram for guest View Product Details



## Sequence Diagram for guest View Product image

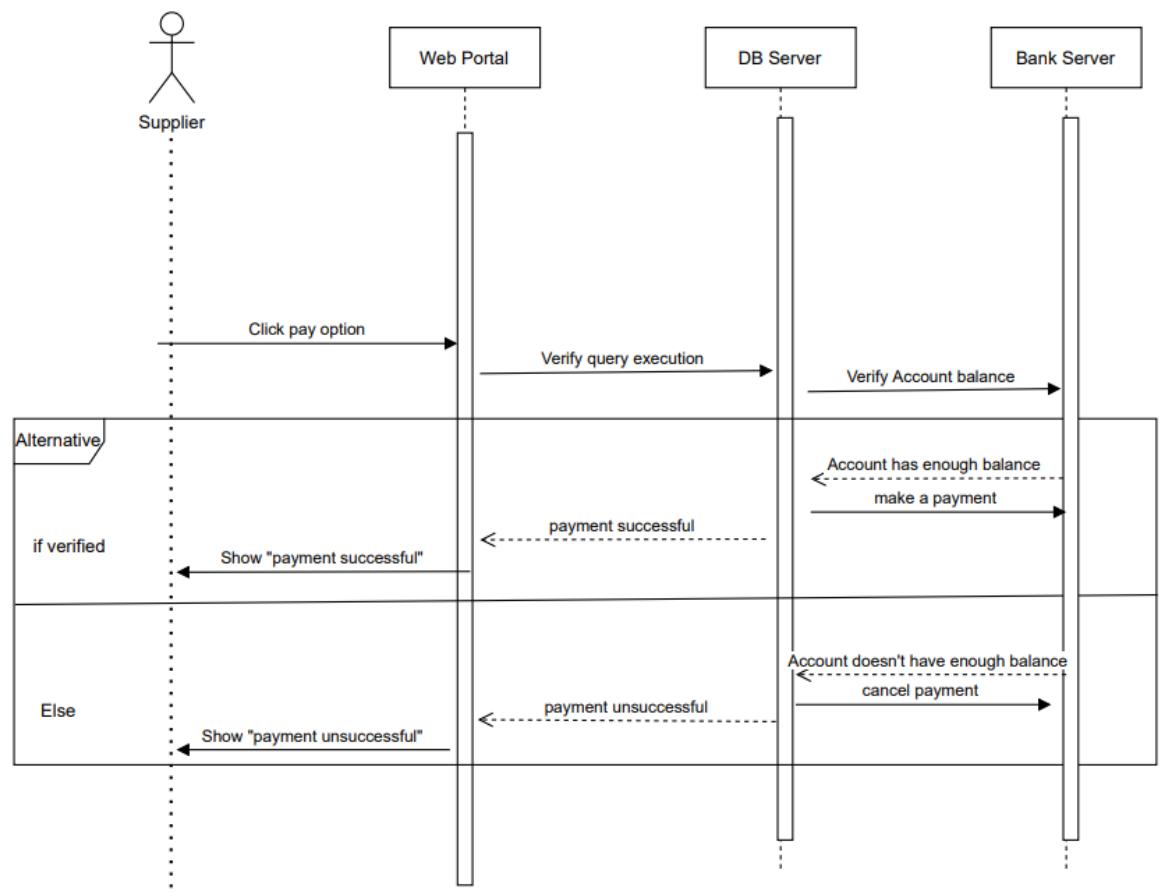


## Sequence Diagram for guest Search Product

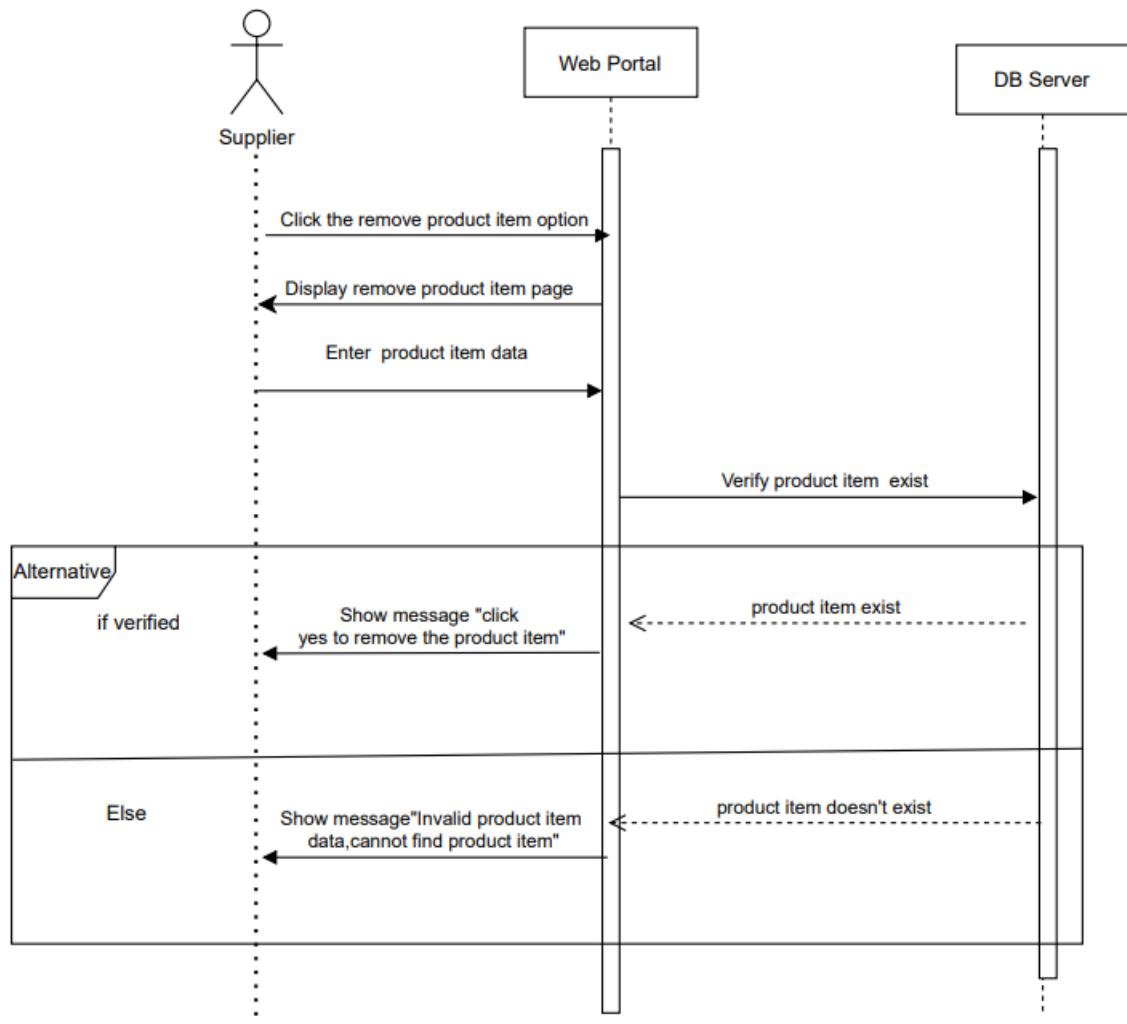


## Supplier

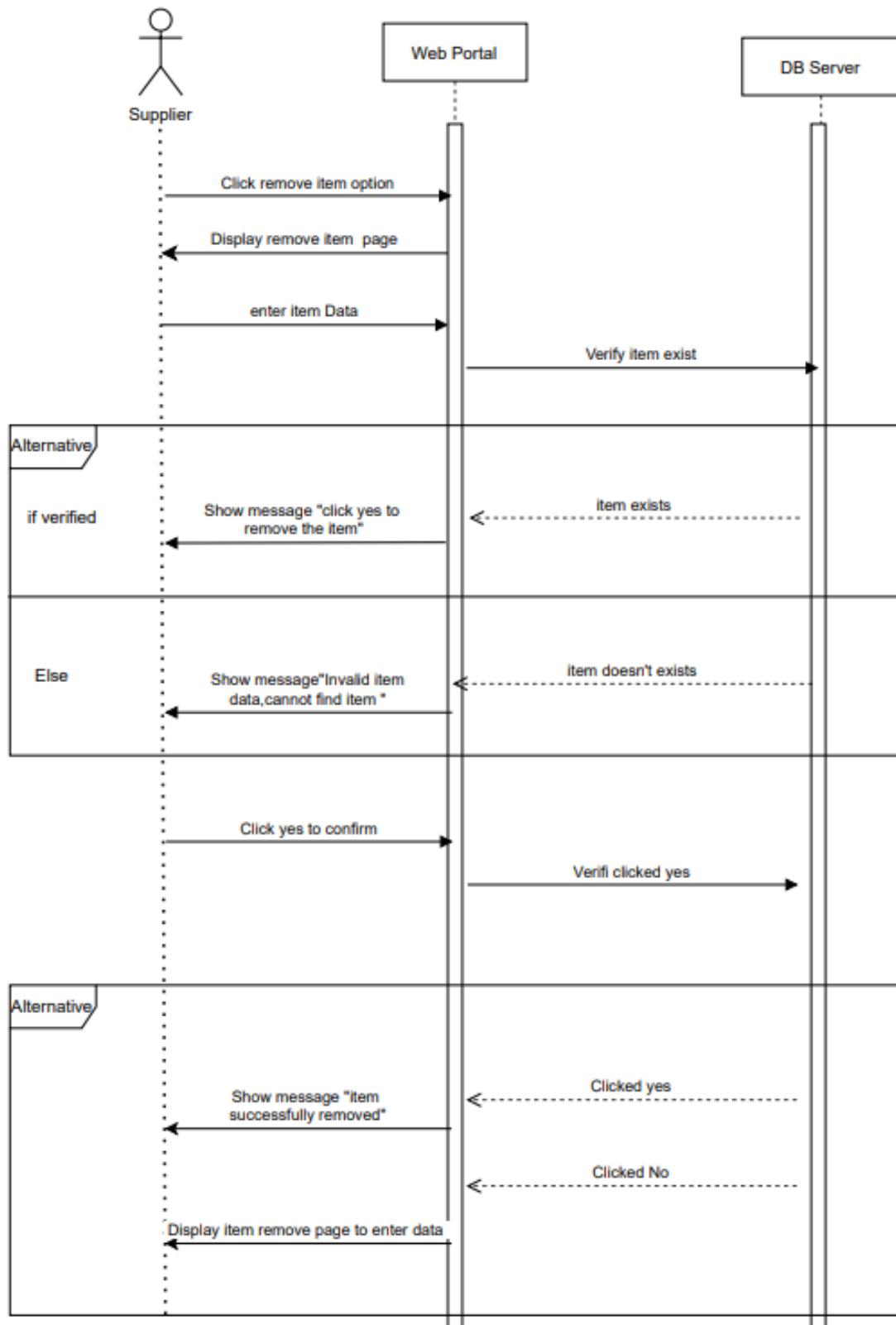
Sequence Diagram for Supplier make a payment



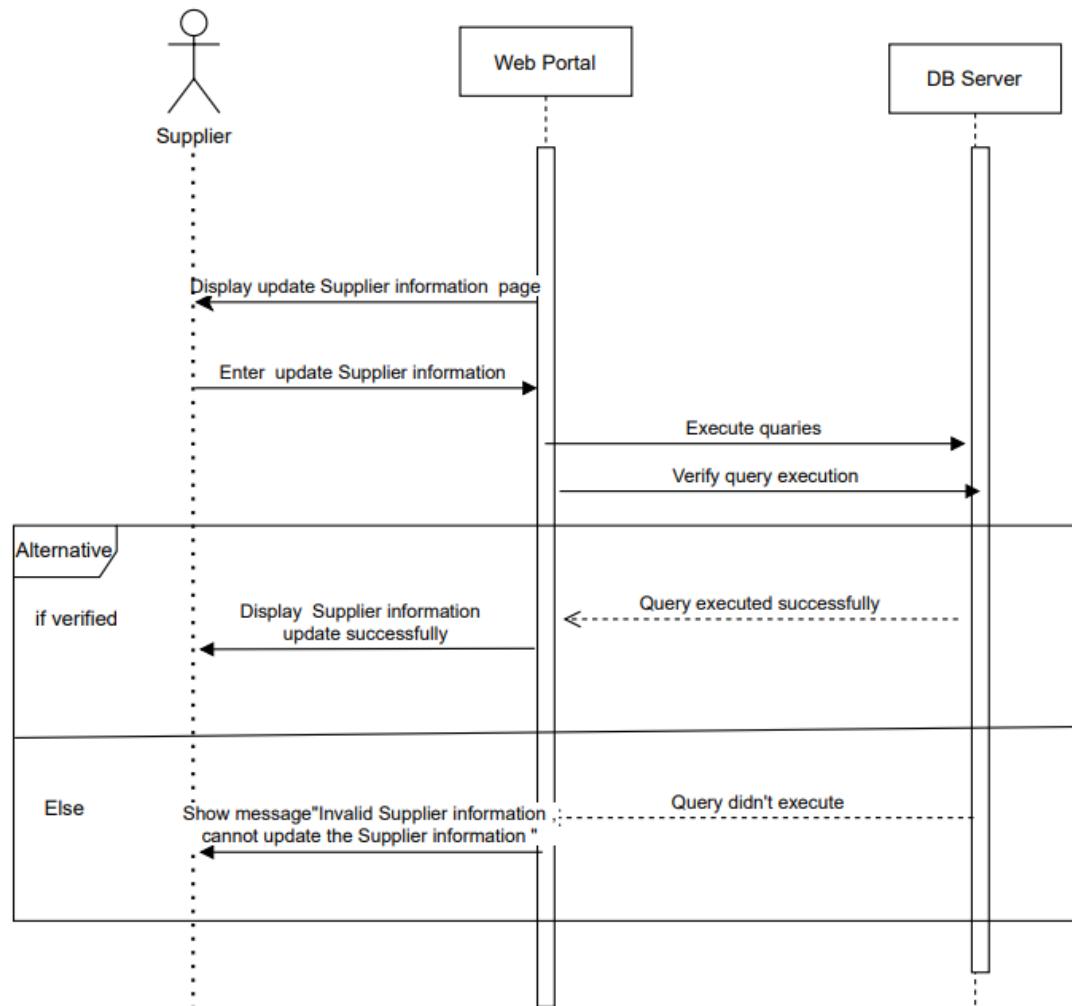
## Sequence Diagram for Supplier remove Product item



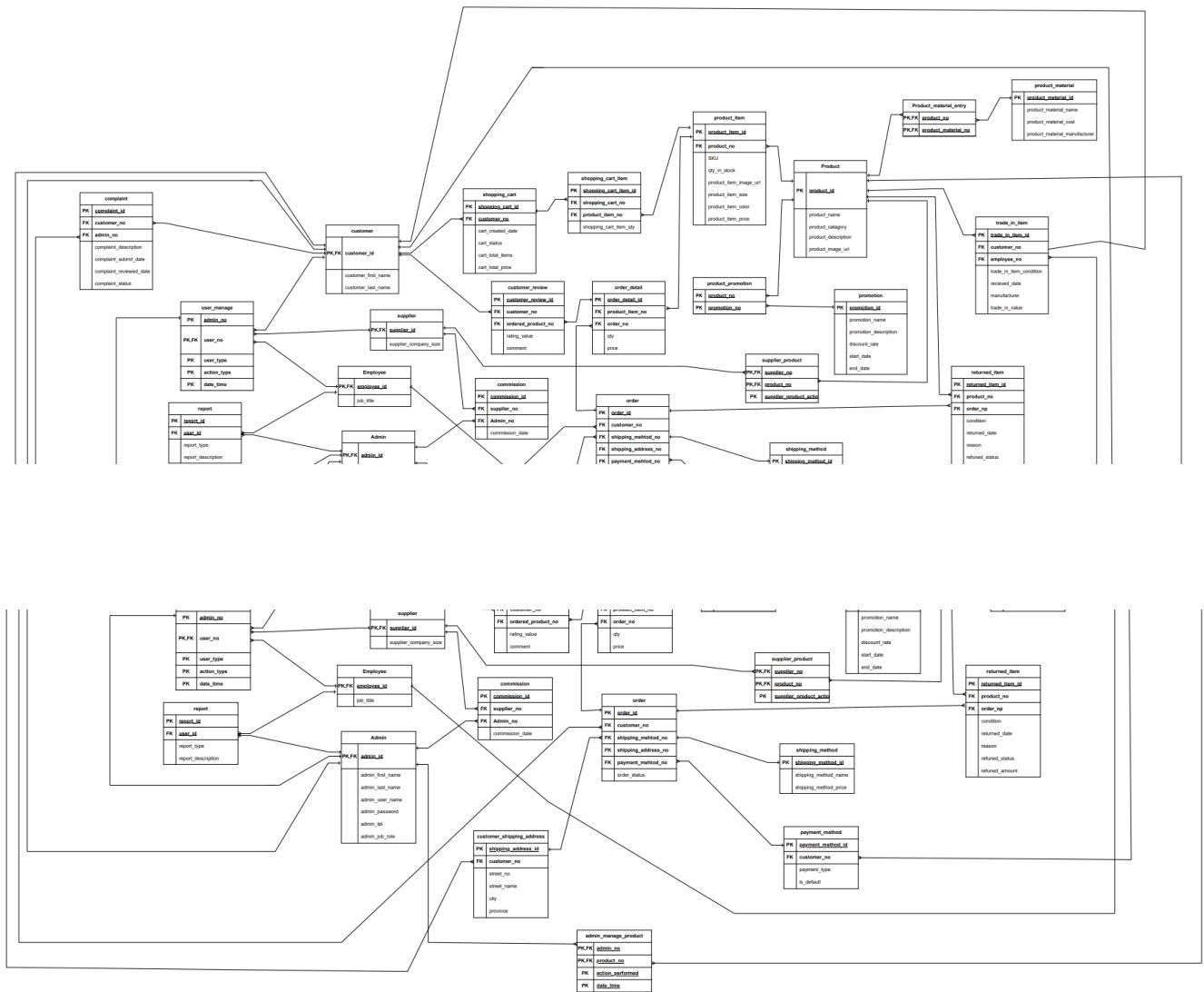
## Sequence Diagram for Supplier remove item



## Sequence Diagram for Supplier update Supplier information



### 3.3 ER Diagram



### **3.4 Software Architecture**

- Software architecture refers to the organization of a system, including its components, their interactions, the operating environment, and the design principles used. For the CS Antique Showroom website creation software project, the team decided to utilize the MVC (Model-View-Controller) architecture.
- The MVC architecture separates the internal representation of information from the user interface. The Model component handles data-related logic, the View component manages the user interface, and the Controller acts as an intermediary between the Model and View. It processes business logic, manipulates data using the Model, and interacts with the Views to present the final output. Adopting the MVC architecture enables a more organized and efficient system.

### **3.5 Chapter Summary**

- The analysis phase of the CS Antique Showroom website creation software project involved gathering and examining information to understand the business needs, goals, and constraints.
- Stakeholder interviews, documentation review, and prototyping were utilized during the analysis phase to visualize the proposed solution.
- Thorough analysis of requirements and constraints ensured the feasibility and alignment of the final solution with stakeholder needs.
- Documentation and communication of the analysis results were done through various diagrams and descriptions, including use case diagrams, class diagrams, UML ER diagrams, and software architecture descriptions. These artifacts provided a clear understanding of the proposed solution and its implementation.

## Chapter 4 Solution design

### 4.1 Introduction

The following chapter details the specifics of the solution.

Its sections will dive into the design of the UIs, with snapshots of the proposed UI designs laid out. Afterward, the design of the database will be discussed. The structure of the database was laid out in Chapter 3. This section will expand on the entities discussed by providing the table designs associated with them and those which arise because of their relationship with other entities.

Lastly, the analytic functionality of the system would be briefly touched upon by providing templates containing the structure of the proposed reports. The reports are digitally produced summaries of various aspects of the retail business. The system provides five different comprehensive reports, from which the store manager may make educated business decisions that will aid in improving Mallika Store's outlook by providing its customers with a better shopping experience.

The reports chosen are as follows:

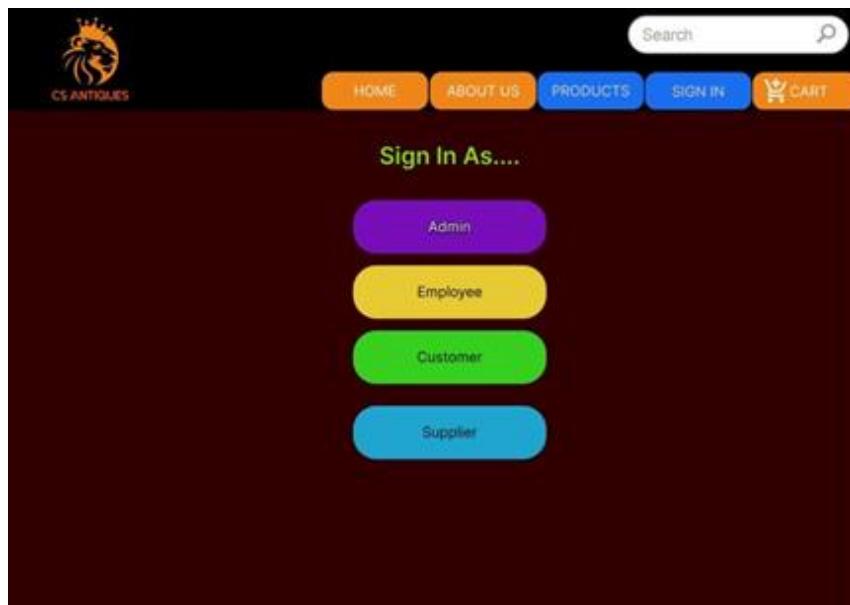
- Monthly Feedback Report
- Weekly Proportion of Sales by Category Report
- Outstanding Credit Report
- Monthly Inventory Report
- Monthly Sales and Purchases Report

## 4.2 Interface Design

Interface No: 01

Interface Name: Sign-Up Page

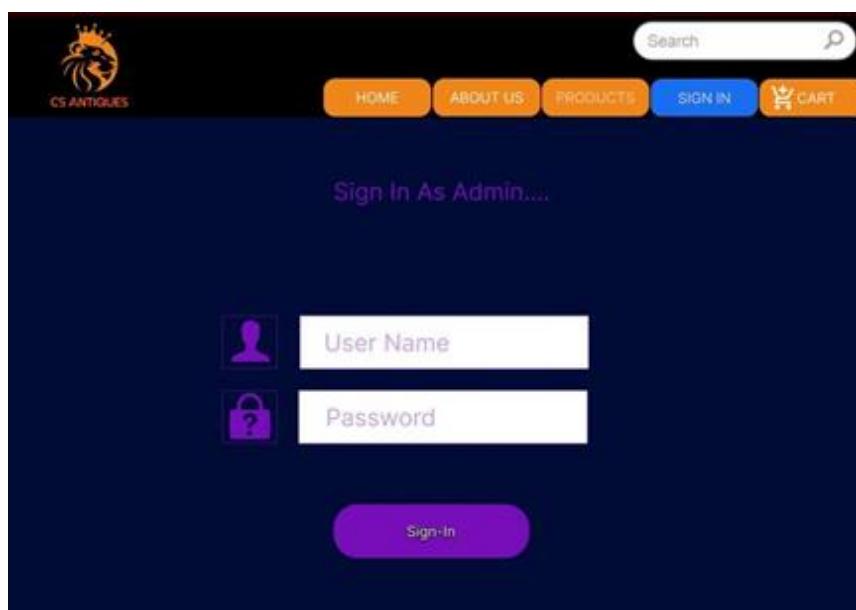
Description: In this system users can sign in as either admin, Employee, customer or supplier using credentials



Interface No: 02

Interface Name: Admin Sign Up Page

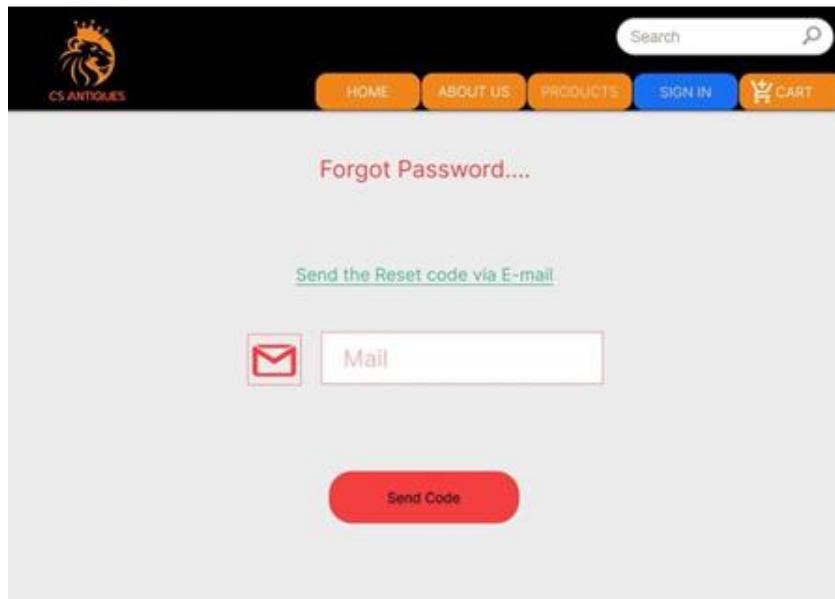
Description: Admin can sign up by entering the username and password. And the user will be authenticated.



Interface No: 03

Interface Name: Admin Sign Up Page

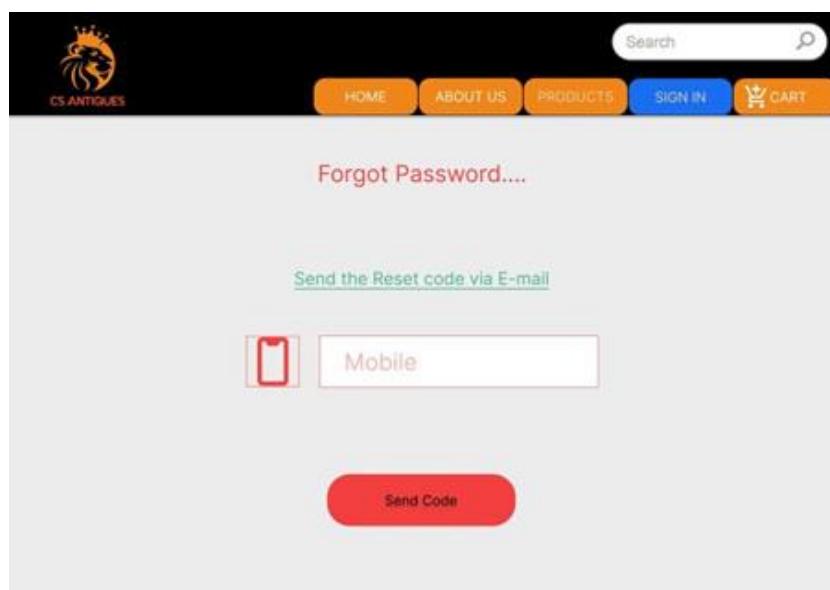
Description: Admin can sign up by entering the user name and password. And the user will be authenticated.



Interface No: 04

Interface Name: Forgot Password Page

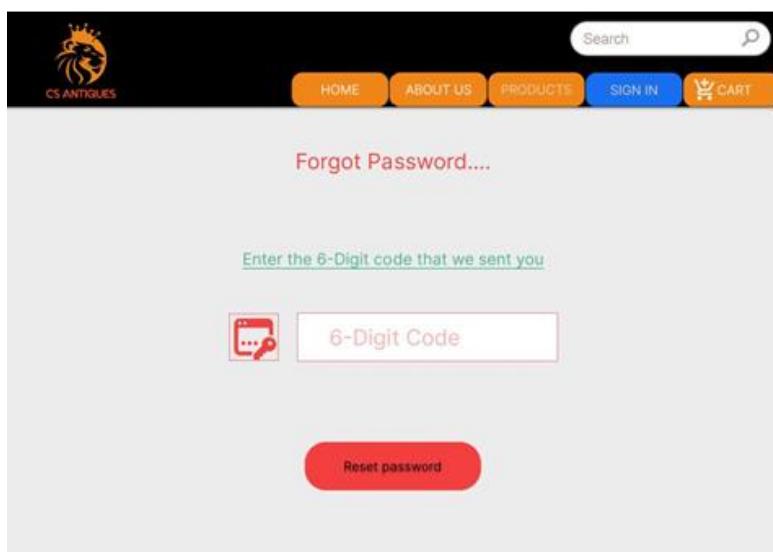
Can Reset the Password Through Mobile Page



Interface No: 05

Interface Name: Forgot Password page

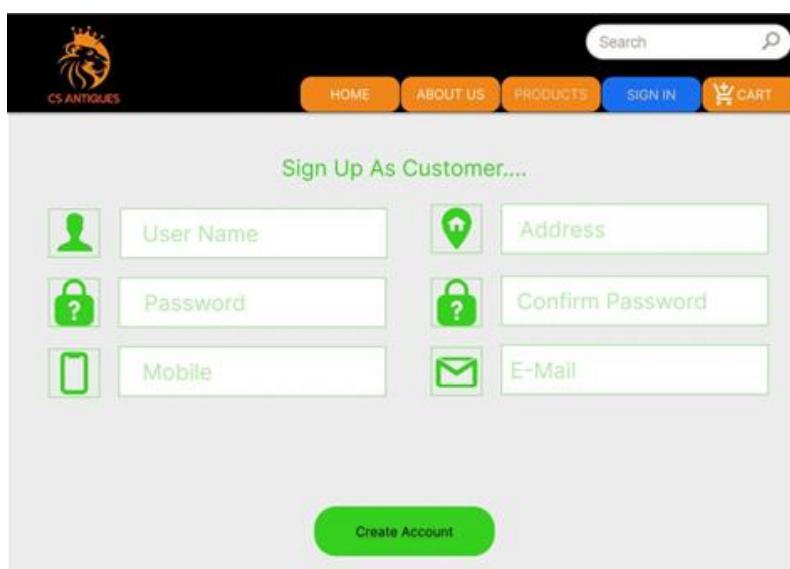
Enter the Received 6-Digit Code that Code



Interface No: 06

Interface Name: Sign Up as a Customer Page

Description: Users can sign up as a customer. To sign up as a customer, the user has to enter a username, password, mobile number, address, confirm password, and email.

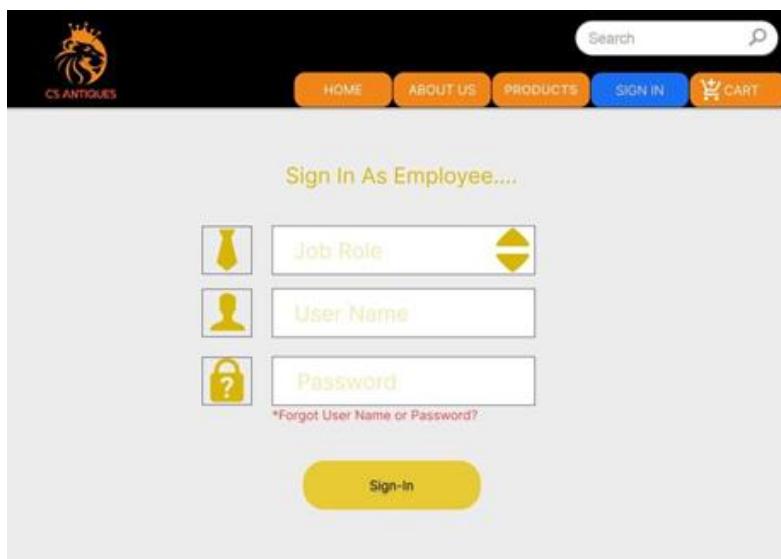


Interface No: 07

Interface Name: Sign In as an Employee Page

Description: Users can sign in as an employee.

To sign in as an employee, the user has to enter a username and password.

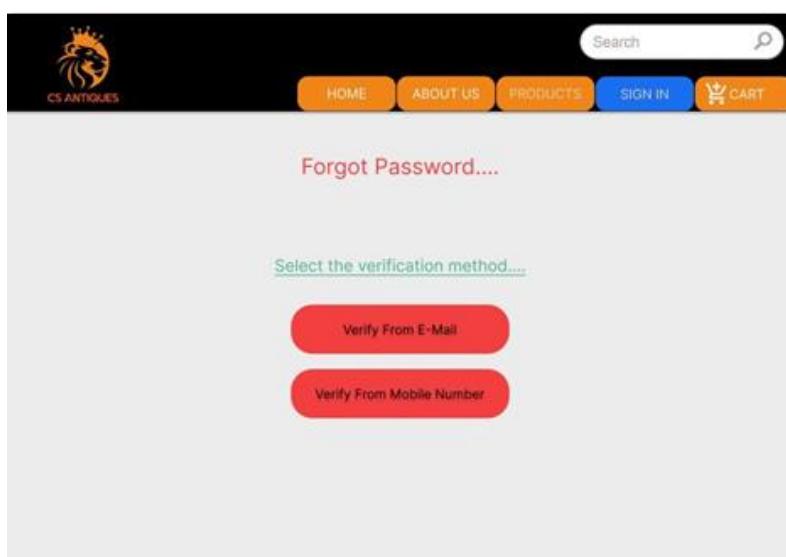


The screenshot shows the 'Sign In As Employee....' page. At the top, there is a navigation bar with a logo of a lion, the text 'CS ANTIQUES', and a search bar. Below the navigation bar, there are five orange buttons labeled 'HOME', 'ABOUT US', 'PRODUCTS', 'SIGN IN', and 'CART'. The main content area has a light gray background. It features three input fields: 'Job Role' (with a tie icon), 'User Name' (with a person icon), and 'Password' (with a lock icon). Below these fields is a link 'Forgot User Name or Password?'. A large yellow 'Sign-in' button is centered at the bottom.

Interface No: 08

Interface Name: Forgot Password Verification Page

Description: When a user forgets his password, the user will be prompted to choose a verification method in order to reset the password.

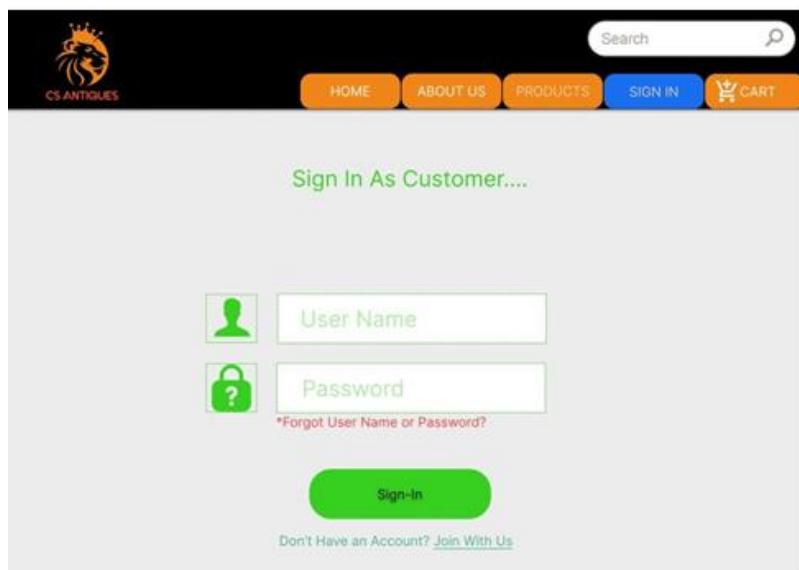


The screenshot shows the 'Forgot Password....' page. At the top, there is a navigation bar with a logo of a lion, the text 'CS ANTIQUES', and a search bar. Below the navigation bar, there are five orange buttons labeled 'HOME', 'ABOUT US', 'PRODUCTS', 'SIGN IN', and 'CART'. The main content area has a light gray background. It features a red text message 'Select the verification method....'. Below this message are two red buttons: 'Verify From E-Mail' and 'Verify From Mobile Number'.

Interface No: 09

Interface Name: Sign In as a Customer Page

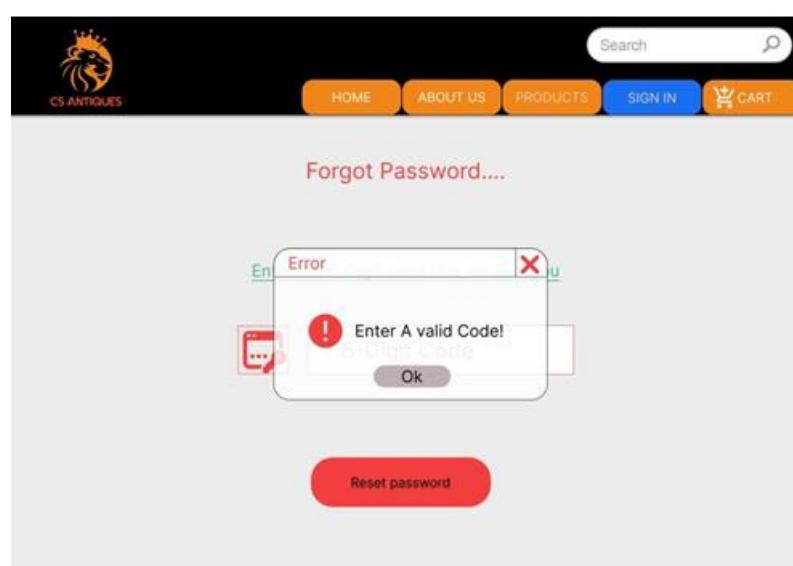
Description: Users can sign in as a customer. To sign in as a customer, the user has to enter a username and password.



Interface No: 10

Interface Name: Error Message Page

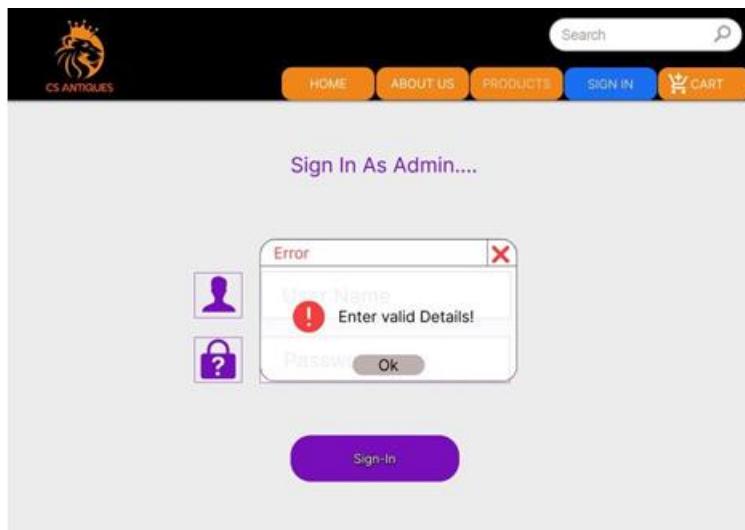
Description: If the password is incorrect, an error message will be displayed: "Enter A Valid Code!"



Interface No: 11

Interface Name: Sign As Admin Page

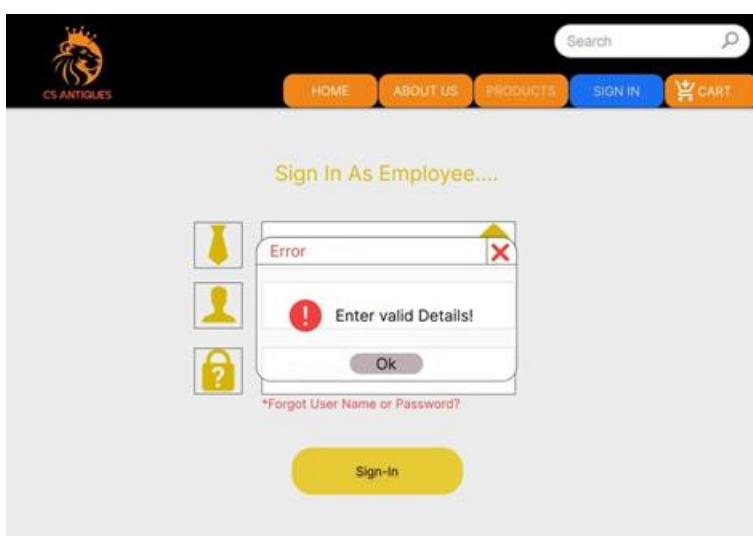
Description: If you enter invalid details, the error message will be displayed as "Enter valid details."



Interface No: 12

Interface Name: Sign As Employee Page

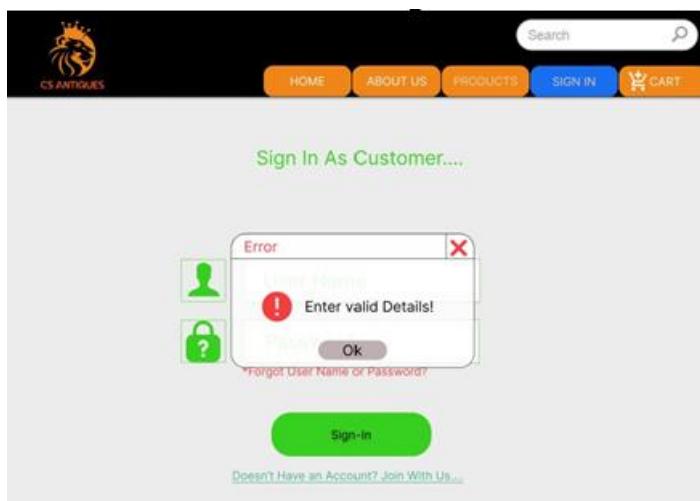
Description: If you enter invalid details, the error message will be displayed as "Enter valid details."



Interface No: 13

Interface Name: Sign As Customer Page

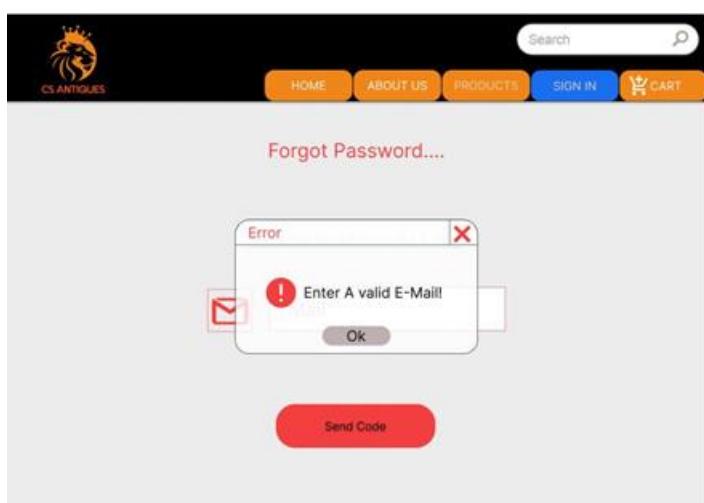
Description: If you enter invalid details, the error message will be displayed as "Enter valid details."



Interface No: 14

Interface Name: Customer Page Sign In

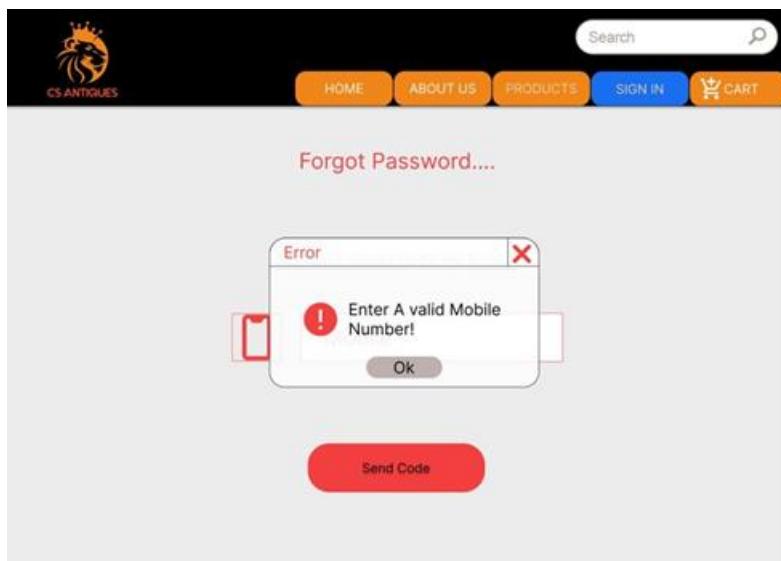
Description: If you enter invalid details, the error message will be displayed as "Enter valid Email."



Interface No: 15

Interface Name: Customer Page

Description: If you enter invalid details, the error message will be displayed as "Enter valid Mobile Number."

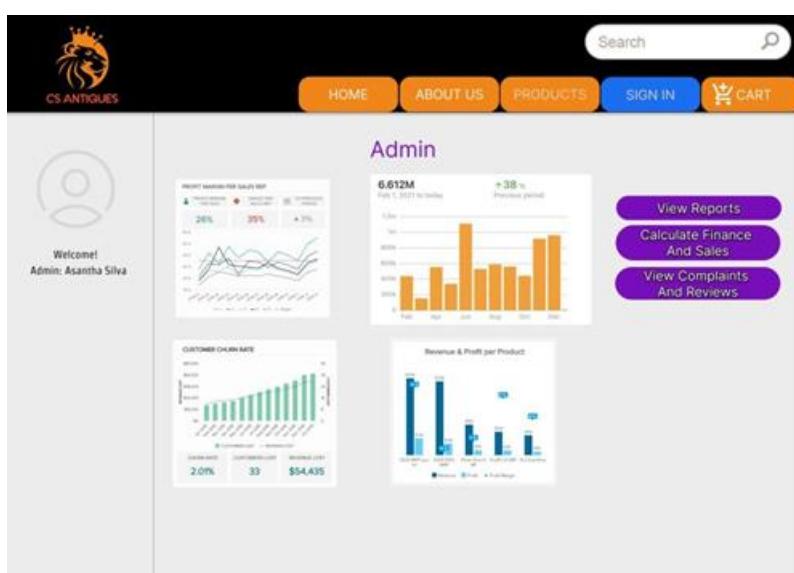


Interface No: 16

Interface Name: Admin Page

Description: Admin page details and charts are displayed here.

Users can view reports, calculate finances and sales, view complaints, and reviews.



Interface No: 17

Interface Name: Add Employee Page

Description: Users can add employee details through Username, Email, Mobile, Job role, password, and Address.

Add Employee

User Name	Job Role
E-Mail	Password
Mobile	Address

Next

Interface No: 18

Interface Name: Employee Page

Description: Give Access to Employee Search Customer Details.

Give Access To....

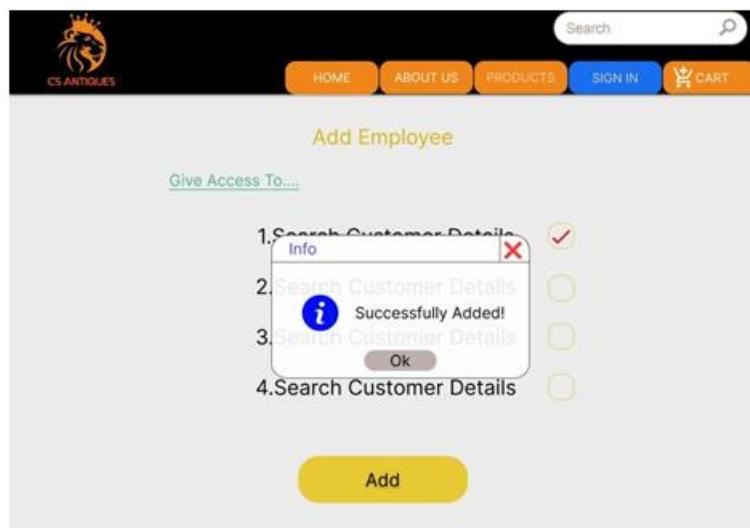
1. Search Customer Details	<input checked="" type="checkbox"/>
2. Search Customer Details	<input type="checkbox"/>
3. Search Customer Details	<input type="checkbox"/>
4. Search Customer Details	<input type="checkbox"/>

Add

Interface No: 19

Interface Name: Employee Page

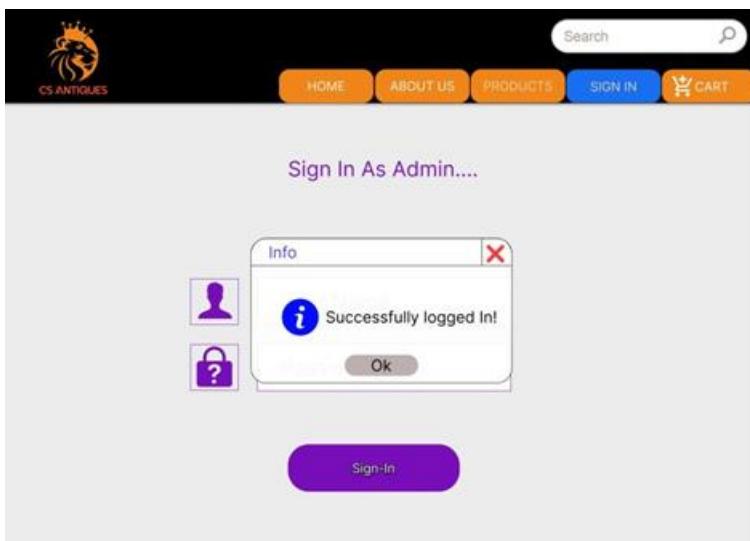
Description: You can give access to an employee, then you will receive a "Successfully Added" message.



Interface No: 20

Interface Name: Admin Page

Description: After successfully adding details for logging in, you will receive the message "Successfully logged in."



Interface No: 21

Interface Name: Success Message and Delete Confirmation

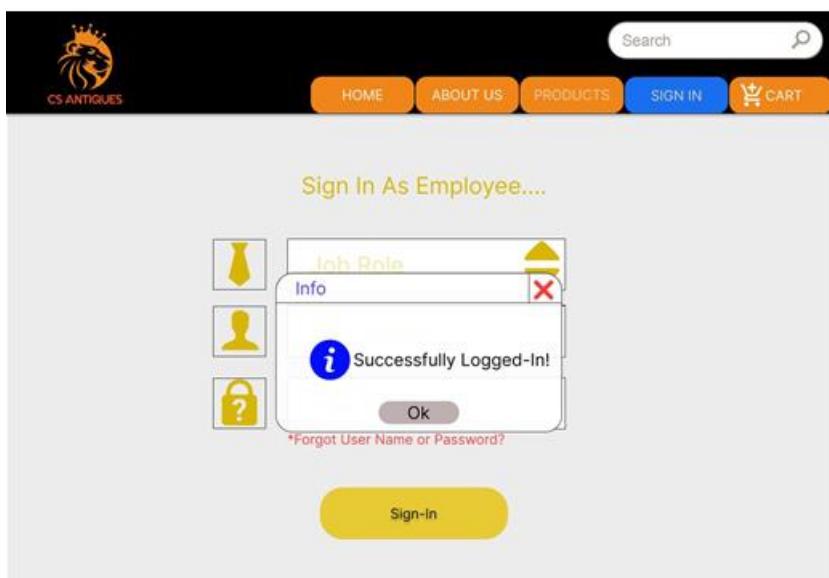
Description: Upon successful addition, the message "Successfully Added" is displayed. When prompted for deletion, the user can choose "Yes" or "No".



Interface No: 22

Interface Name: Employee Page

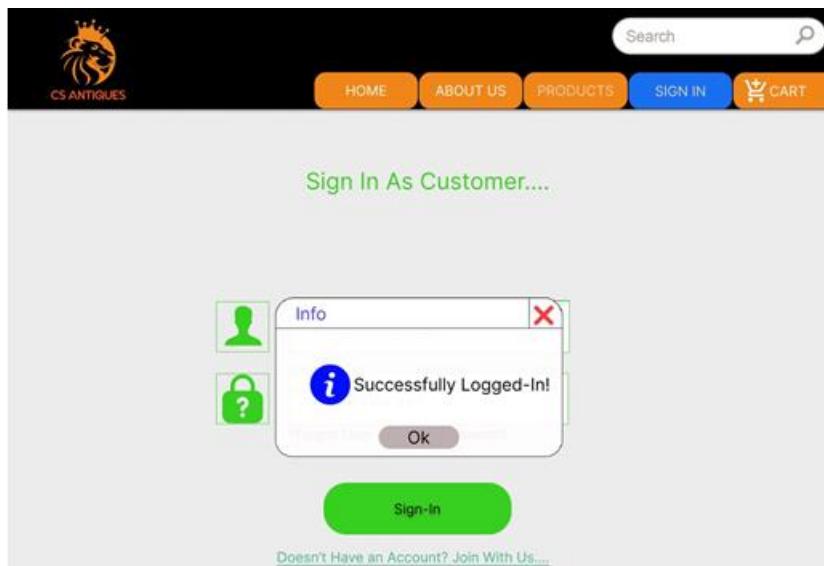
Description: Upon successfully adding details for logging in, the message "Successfully logged in" is displayed.



Interface No: 23

Interface Name: Customer Page

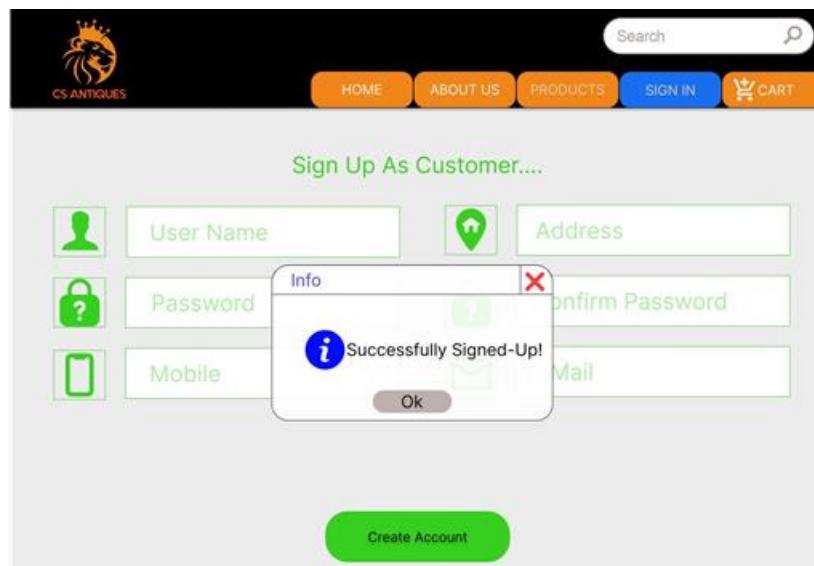
Description: Upon successfully adding details for logging in, the user can reserve the message.



Interface No: 24

Interface Name: Sign Up as Customer Page

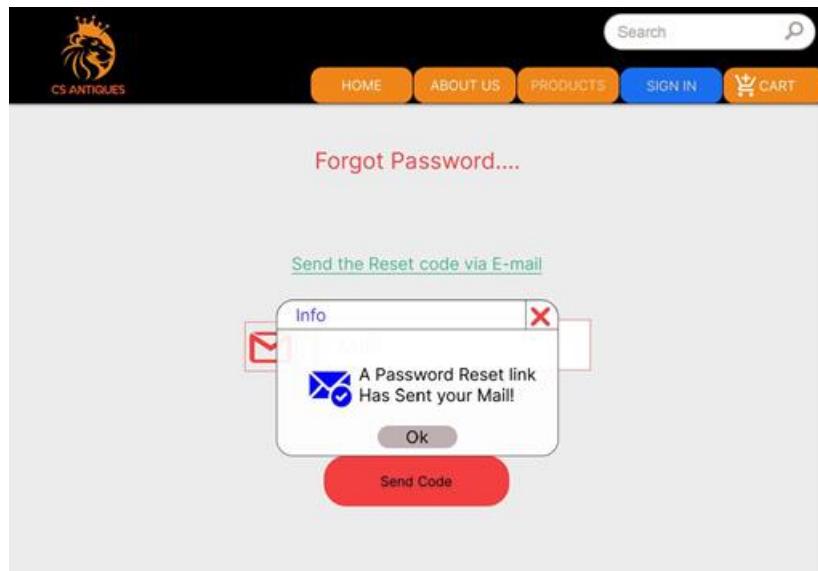
Description: Upon adding correct details, the message "Successfully Signed Up" is sent.



Interface No: 25

Interface Name: Sign In Page

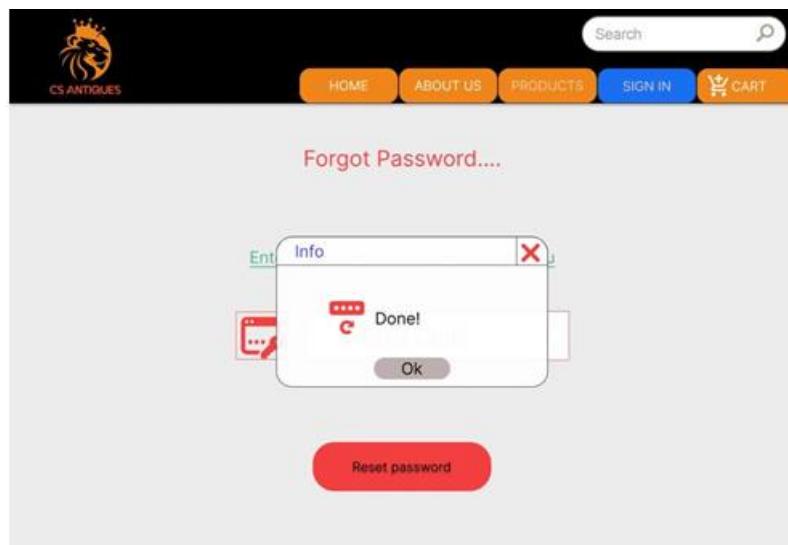
Description: If forgot password, the user can see the information "A Password Reset link has been sent to your email."



Interface No: 26

Interface Name: Sign In Page

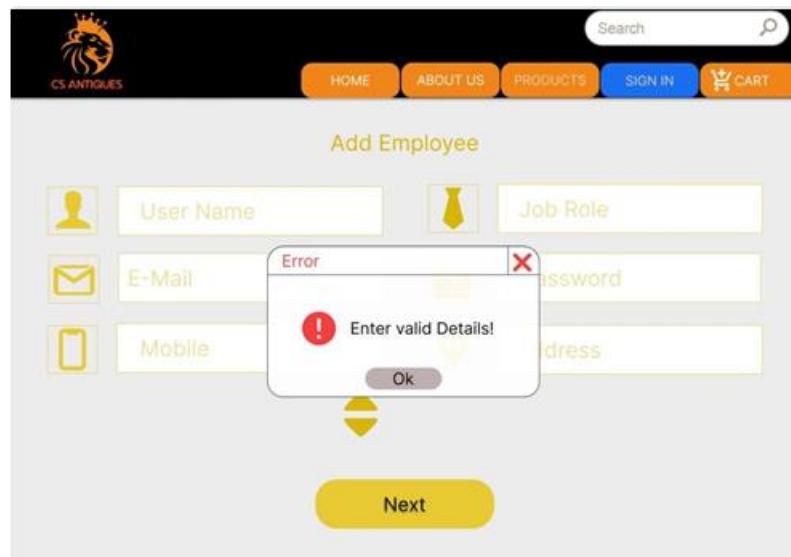
Description: If the correct password is entered, the message "Done" is displayed.



Interface No: 27

Interface Name: Employee Page

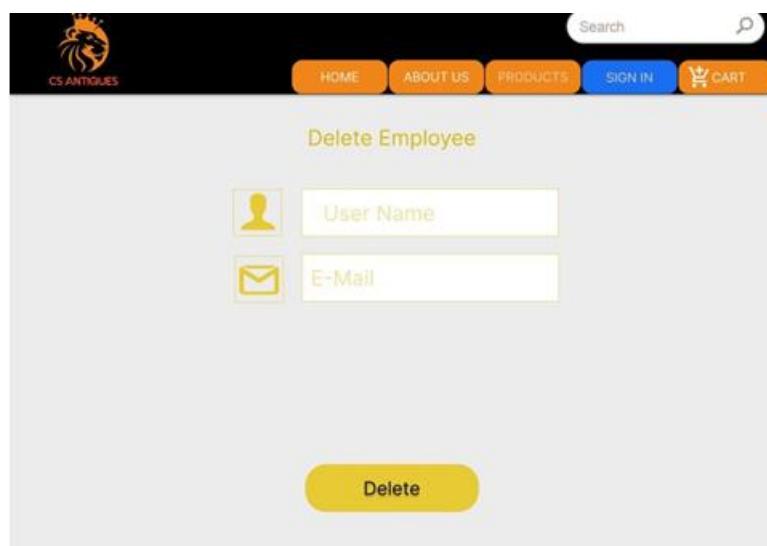
Description: If invalid details are entered, the user receives the message "Enter valid details."



Interface No: 28

Interface Name: Delete Employee Page

Description: Users can delete employees by entering their name and email.



Interface No: 29

Interface Name: Update Customer Details Page

Description: Users can update customer details including username, password, mobile, address, confirm password, and email.

Update Customer Details

User Name	Address
Password	Confirm Password
Mobile	E-Mail

Update Account

Interface No: 30

Interface Name: Update Customer Details

Description: After entering new details, the user receives the message "Are you sure you want to update this?"

Update Customer Details

Confirm Updates

Are You Sure You Want To Update This?

Yes      No

Update Account

Interface No: 31

Interface Name: Update Customer Details Page

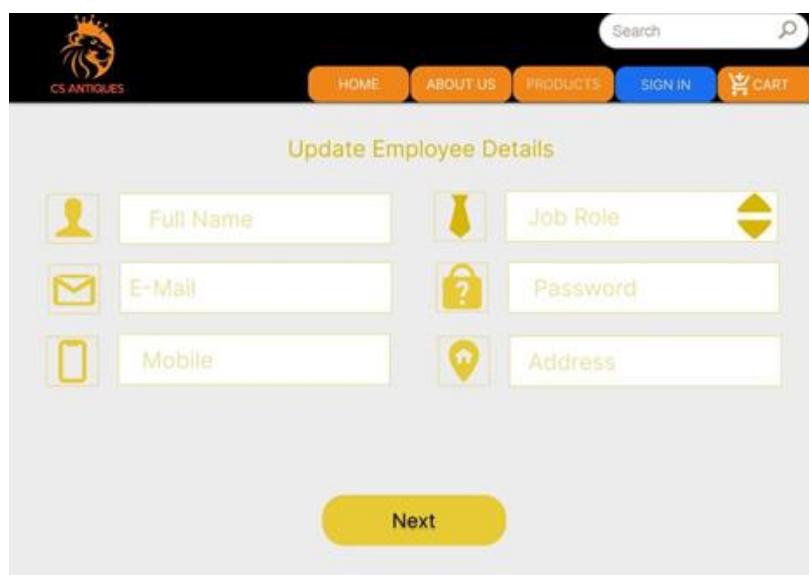
Description: If new details are entered, the customer details are updated and the message "Successfully updated" is received.



Interface No: 32

Interface Name: Update Employee Details Page

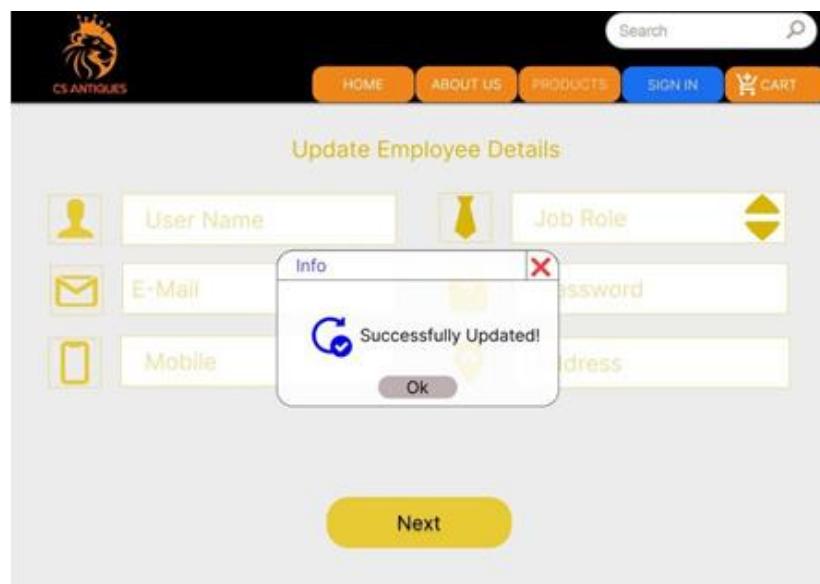
Description: Users can update employee details including full name, email, mobile, job role, password, and address.



Interface No: 33

Interface Name: Update Employee Details

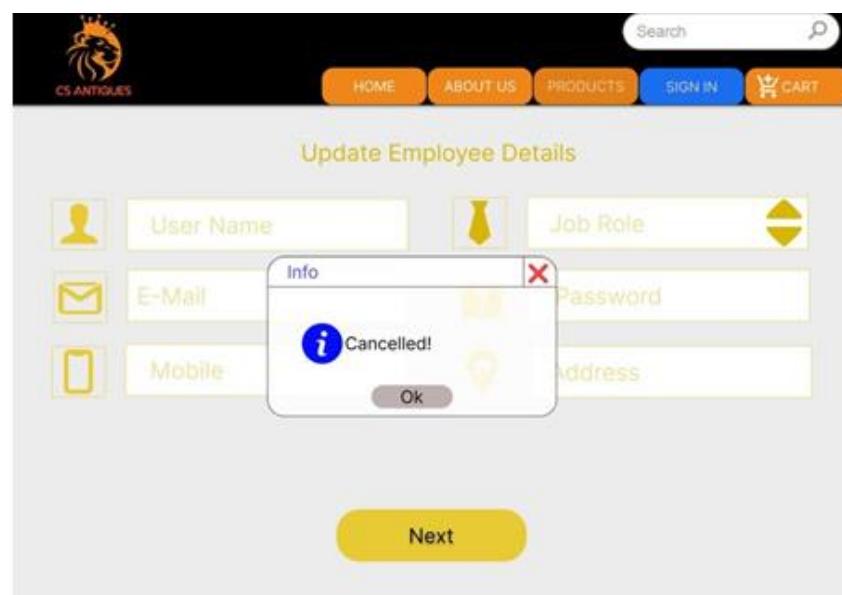
Description: After entering new details, the employee details are updated and the message "Successfully updated!" is received.



Interface No: 34

Interface Name: Update Customer Details

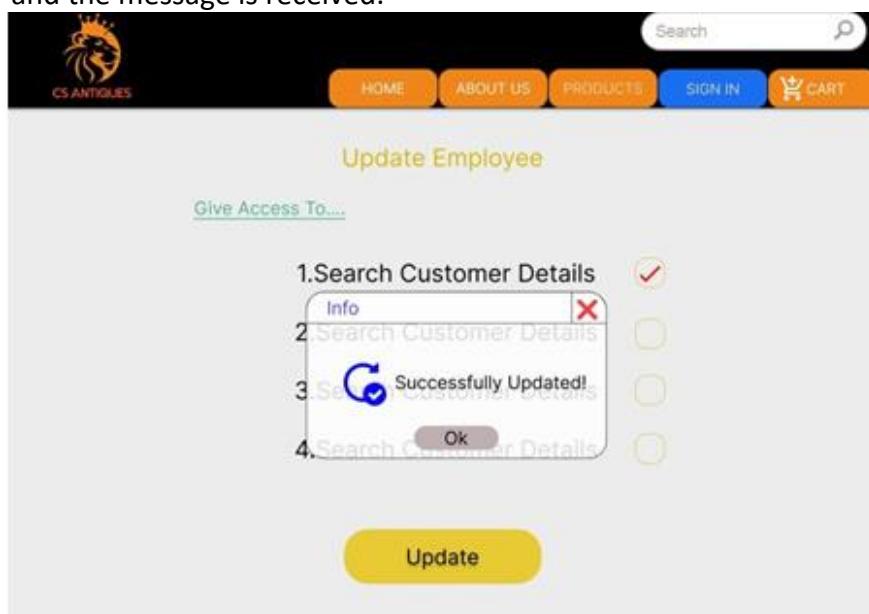
Description: If new details are entered, the customer details are not updated and the message "Cancelled" is received.



Interface No: 35

Interface Name: Update Employee Page

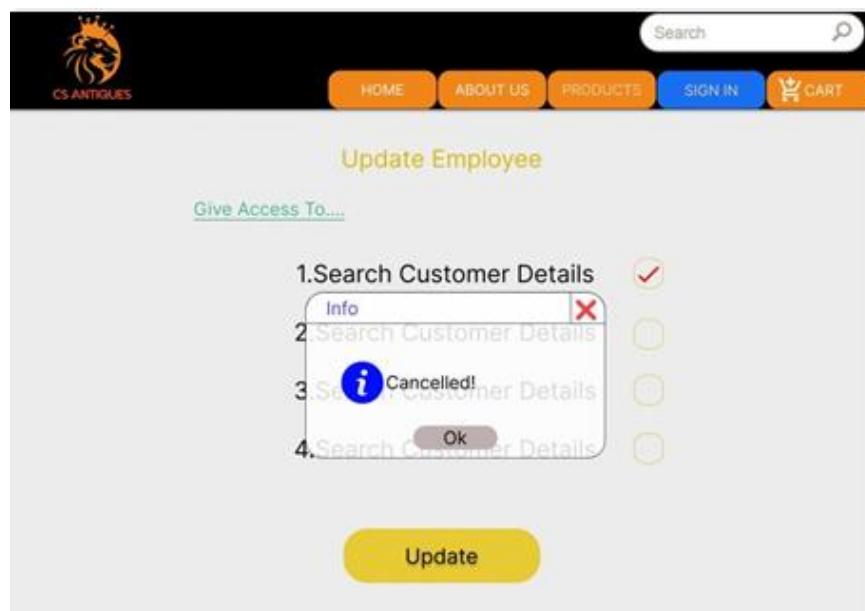
Description: If new access is selected, the employee access is updated and the message is received.



Interface No: 36

Interface Name: Update Employee Page

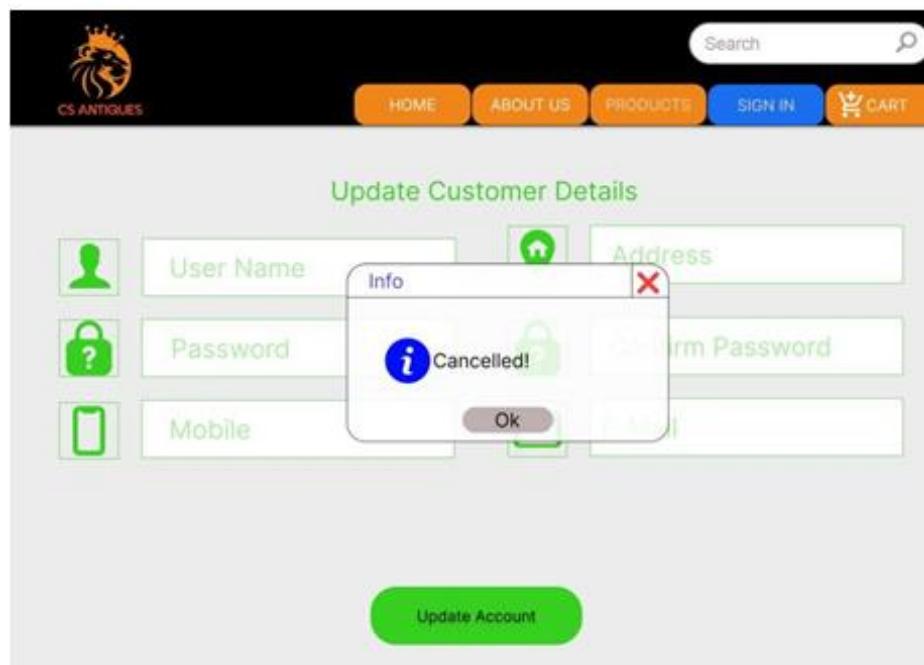
Description: If new access is selected, the employee access is not updated and the message "Cancelled" is received.



Interface No: 37

Interface Name: Update Customer Details

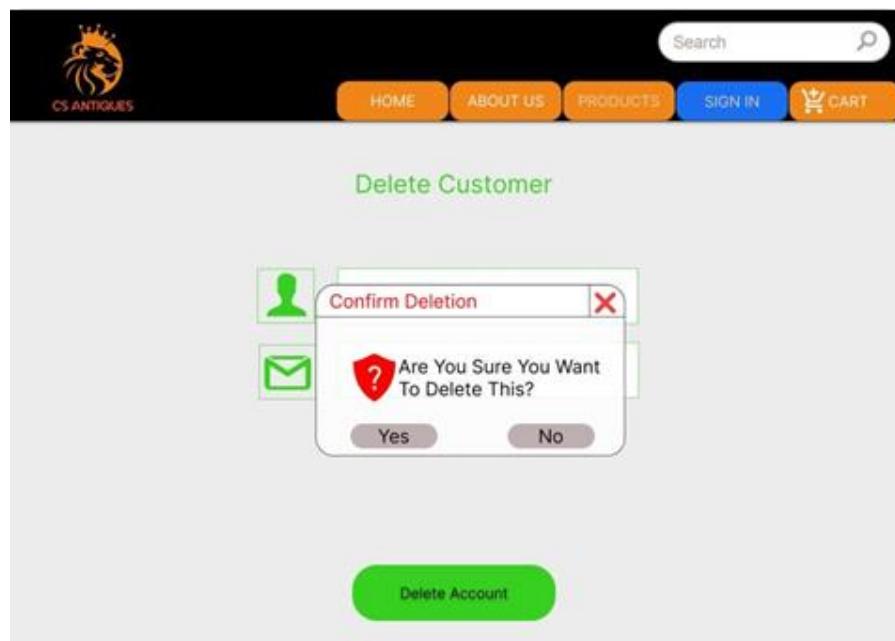
Description: If new details are entered, the customer details are not updated and the message "Cancelled" is received.



Interface No: 38

Interface Name: Delete Customer Page

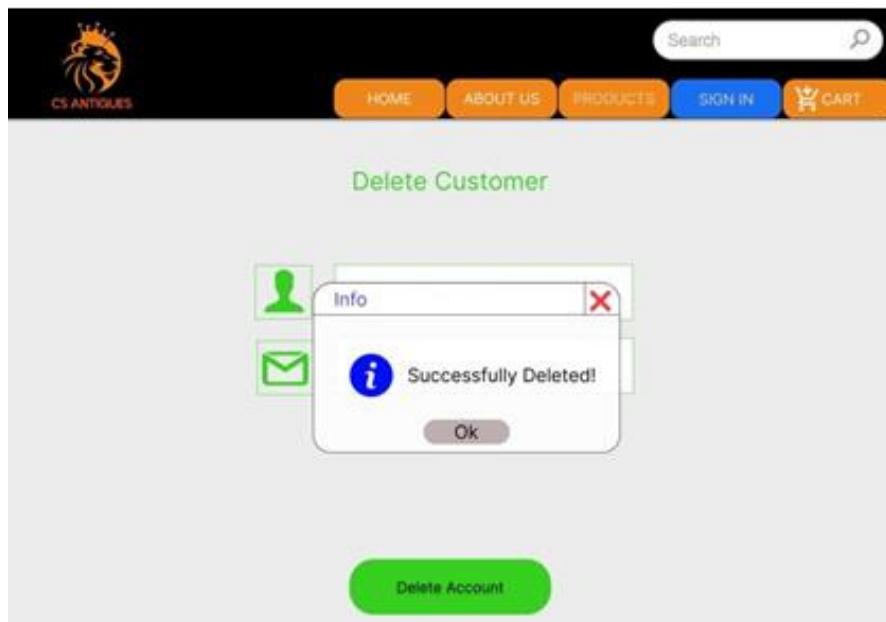
Description: By entering details, the user can receive the message "Are you sure you want to delete this?"



Interface No: 39

Interface Name: Delete Customer Page

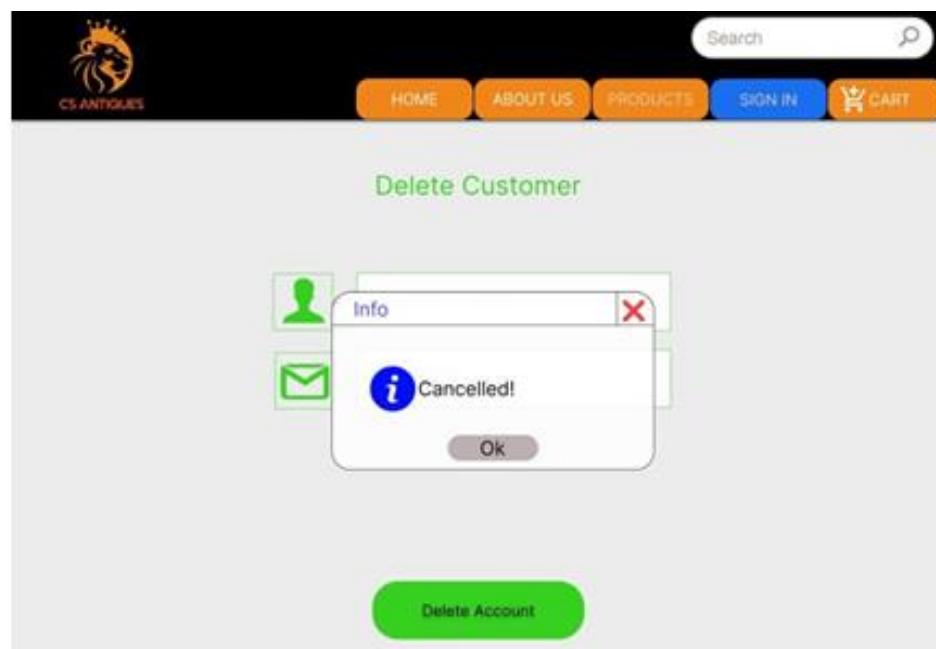
Description: Users can delete customers and receive the message "Successfully deleted."



Interface No: 40

Interface Name: Delete Customer Page

Description: Users cannot delete customers and receive the message "Cancelled."



Interface No: 41

Interface Name: Update Employee Details Page

Description: Users can select the "Give Access" page.

The screenshot shows a web page titled "Update Employee". At the top, there is a navigation bar with a logo, search bar, and links for HOME, ABOUT US, PRODUCTS, SIGN IN, and CART. Below the title, there is a section titled "Give Access To...." containing a list of four items, each with a checkbox:

- 1. Search Customer Details
- 2. Search Customer Details
- 3. Search Customer Details
- 4. Search Customer Details

A yellow "Add" button is located at the bottom of the list.

Interface No: 42

Interface Name: Sign In Page - New Password Entry

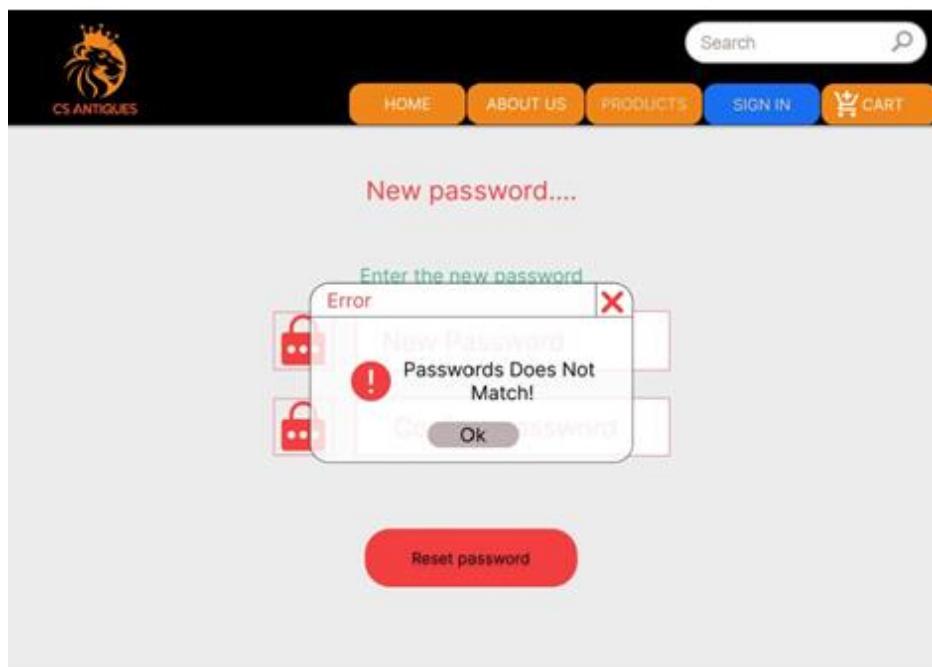
Description: Users can enter a new password for the sign-in page.

The screenshot shows a web page titled "New password...." with a navigation bar at the top. The main area contains a red header "Enter the new password" followed by two input fields: "New Password" and "Confirm password", each preceded by a lock icon. A red "Reset password" button is located at the bottom.

Interface No: 43

Interface Name: Sign In Page - New Password Mismatch

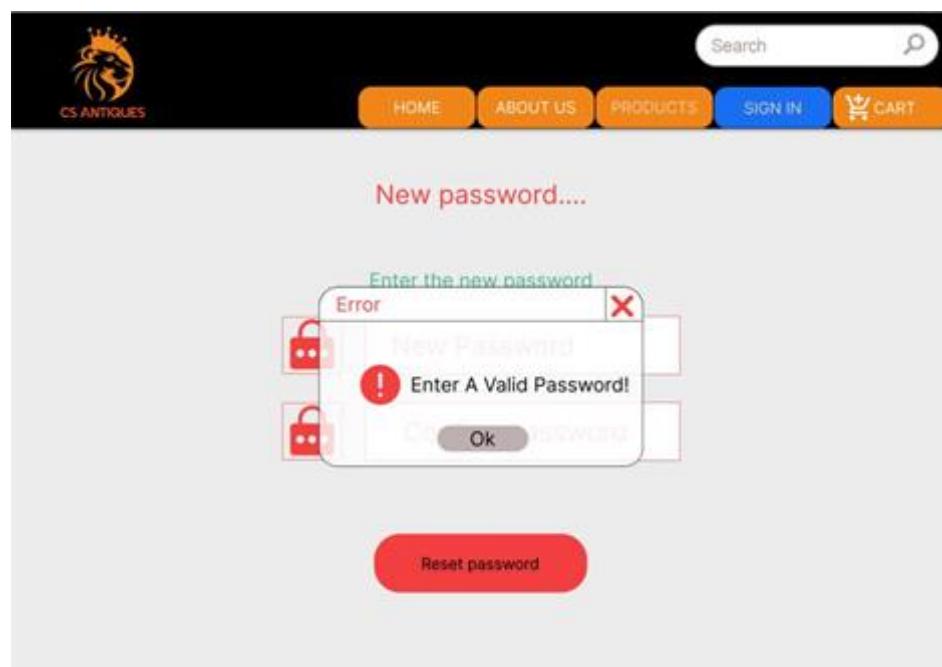
Description: If the new password does not match the confirm password, the user receives a message.



Interface No: 44

Interface Name: Sign In Page - Invalid Password

Description: If the user signs in with an invalid password, a message is displayed.



Interface No: 45

Interface Name: Add Employee Page

Description: Users can add details of an employee including username, email, mobile, job role, password, and address.

The screenshot shows the 'Add Employee' form. It includes fields for User Name, E-Mail, Mobile, Job Role, Password, and Address. An error message box is displayed in the center, stating 'Enter valid Details!' with an exclamation mark icon. A yellow 'Next' button is at the bottom.

Interface No: 46

Interface Name: Delete Employee Page

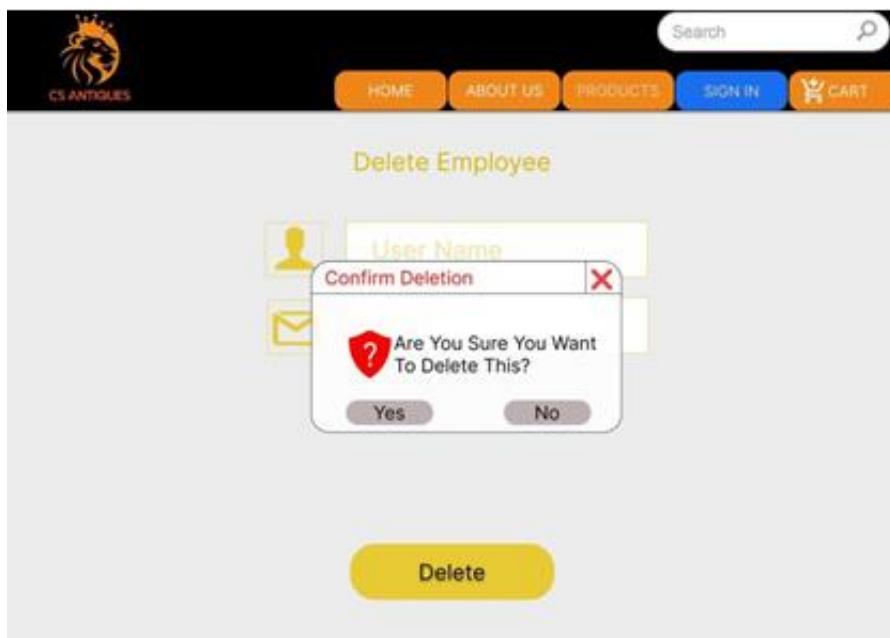
Description: Users can delete an employee by entering their username and email.

The screenshot shows the 'Delete Customer' form. It has fields for User Name and E-Mail. At the bottom is a green 'Delete Account' button.

Interface No: 47

Interface Name: Delete Employee Details Page

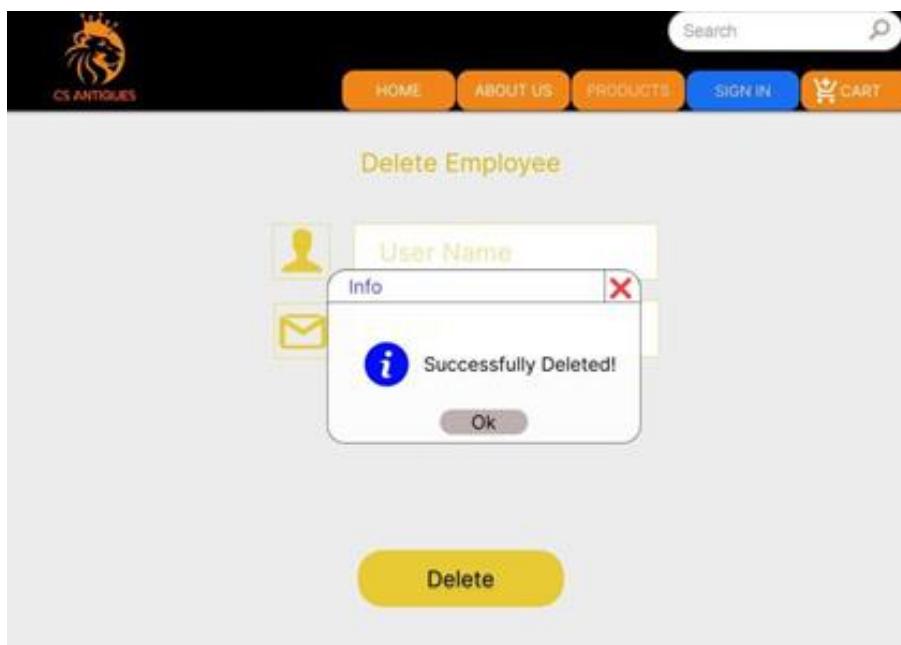
Description: Upon attempting deletion, the user receives the message "Are you sure you want to delete this?"



Interface No: 48

Interface Name: Delete Employee Page - Successful Deletion

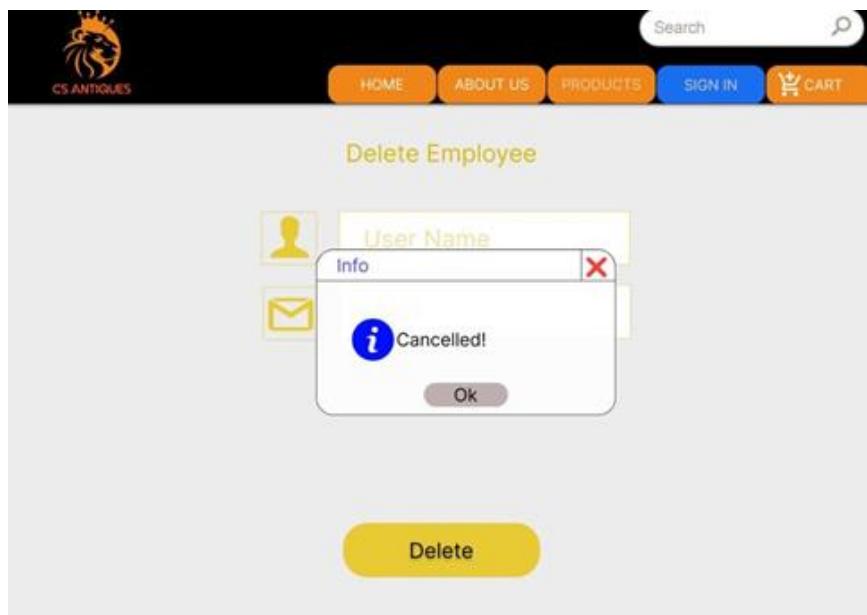
Description: If the user selects "Yes" for deletion, the employee is deleted and the message "Successfully deleted" is displayed.



Interface No: 49

Interface Name: Delete Employee Page - Cancellation

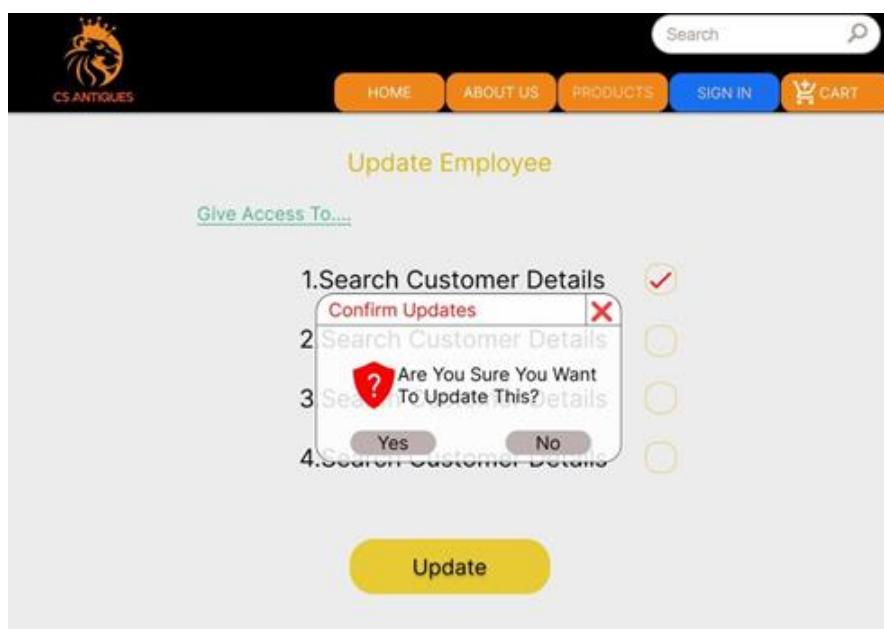
Description: If the user cancels deletion, the message "Cancelled" is displayed.



Interface No: 50

Interface Name: Update Employee Details Page

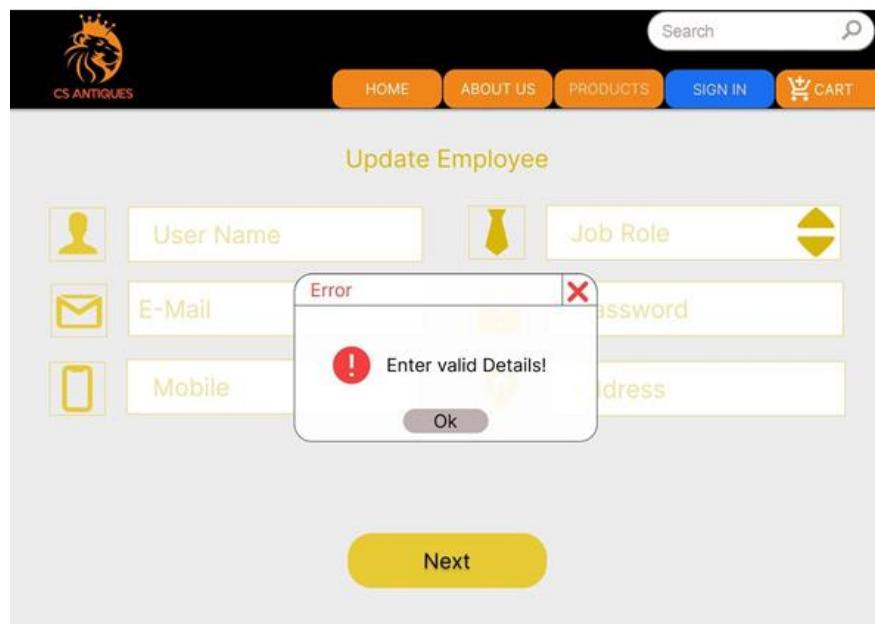
Description: If new details are updated, a message is displayed.



Interface No: 51

Interface Name: Update Employee - Incorrect Details

Description: If incorrect details are entered, the message "Enter valid details" is displayed.



Interface No: 52

Interface Name: Products Page

Description: Users can view pictures with names of products.

The screenshot shows the 'PRODUCTS' section of the CS Antiques website. At the top, there's a navigation bar with a lion logo, 'CS ANTIQUES', a search bar, and links for 'HOME', 'ABOUT US', 'PRODUCTS' (which is highlighted in blue), 'SIGN IN', and 'CART'. Below the navigation is a red header bar with the word 'PRODUCTS' in white. The main content area displays eight product images in a 2x4 grid:

- Kavichichya (top-left)
- Weda Bed (top-middle)
- Suddle Box (top-right)
- Coins Pettagama (bottom-right)
- Resting Chair (middle-left)
- Brass Ash Tray (middle-middle)
- Brass Iron (middle-right)
- Dutch Box (bottom-right)

Below this grid is a red header bar with the text 'Top Selling'. Underneath it are three more product images in a row:

- A wooden chair (left)
- A small wooden cabinet (middle)
- A large wooden chest (right)

At the bottom is a red header bar with the text 'CONTACT US'. Below it is a dark grey footer bar containing contact information:

- A location pin icon followed by the address: 'No.214 /A Horana Road,Wekada,Panadura'
- A phone icon followed by the numbers '077-3963489' and '075-1698620'
- An envelope icon followed by the email address 'silvaantique@gmail.com'

In the bottom right corner of the footer bar, it says '© CS ANTIQUES'.

Interface No: 53

Interface Name: Purchased Items Details Page

Description: Users can view details about purchased items.



CS ANTIQUES

🔍

HOME ABOUT US PRODUCTS SIGN IN CART

## PURCHASED ITEMS

Review Item Return Item Buy Another



### SUDDLE BOX

Product Rating 5.0 ★★★★☆

✓ In Stock

100% Manufactured in Sri Lanka  
3 Months Manufacture Warranty  
Island Wide Delivery within 7 days

**Rs 50,000**

Product Name	Quantity	Total Amount (RS)
Suddle Box	1	50,000

© CS ANTIQUES

Interface No: 54

Interface Name: Cart Page

Description: Users can add the quantity of items in their cart.

The screenshot shows the 'CART' page of the CS ANTIQUES website. At the top, there's a navigation bar with a logo, a search bar, and links for HOME, ABOUT US, PRODUCTS, SIGN IN, and CART. Below the navigation is a large green header with the word 'CART' in white. In the center, there's a product card for a 'SUDDLE BOX'. The product image shows a wooden octagonal box with a dark blue base and red panels, featuring brass hardware. To the right of the image, the product name 'SUDDLE BOX' is displayed with a minus sign icon. Below the name are the product rating (5.0), 'In Stock' status with a checkmark, and a quantity selector set to 1. Text below the selector indicates '100% Manufactured in Sri Lanka', '3 Months Manufacture Warranty', and 'Island Wide Delivery within 7 days'. The price 'Rs 50,000' is shown in bold. At the bottom of the card, there's a table with three columns: 'Product Name', 'Quantity', and 'Total Amount (RS)'. The table contains one row for the 'Suddle Box' with a quantity of 1 and a total amount of '50,000'. The footer of the page includes the copyright notice '© CS ANTIQUES'.

Product Name	Quantity	Total Amount (RS)
Suddle Box	1	50,000

Interface No: 55

Interface Name: Cart Page - Add to Cart

Description: Users can add products to their cart.

The screenshot shows a mobile application interface for a shopping cart. At the top, there is a navigation bar with a logo of a lion wearing a crown, followed by the text "CS ANTIQUES". To the right of the logo are links for "HOME", "ABOUT US", "PRODUCTS", "SIGN IN", and a "CART" icon. A search bar with a magnifying glass icon is positioned at the top right. Below the navigation bar, the word "CART" is centered in a large, bold, white font. Underneath "CART", there are three buttons: "CONTINUE SHOPPING" (blue), "UPDATE CART" (red), and "CHECKOUT" (green).  
  
The main content area features a product listing for a "SUDDLE BOX". On the left is a photograph of a wooden, octagonal-shaped saddle box with intricate carvings and a dark wood finish. To the right of the image, the product name "SUDDLE BOX" is displayed in bold capital letters. Below the name is a "Product Rating" of 5.0, accompanied by five yellow stars. A green circular icon with a checkmark and the text "In Stock" is shown. There are plus and minus buttons for adjusting the quantity, currently set to 1. Below these, text indicates "100% Manufactured in Sri Lanka", "3 Months Manufacture Warranty", and "Island Wide Delivery within 7 days".  
  
The price of the product is listed as "Rs 50,000".  
  
A table below summarizes the cart items:

Product Name	Quantity	Total Amount (RS)
Suddle Box	1	50,000

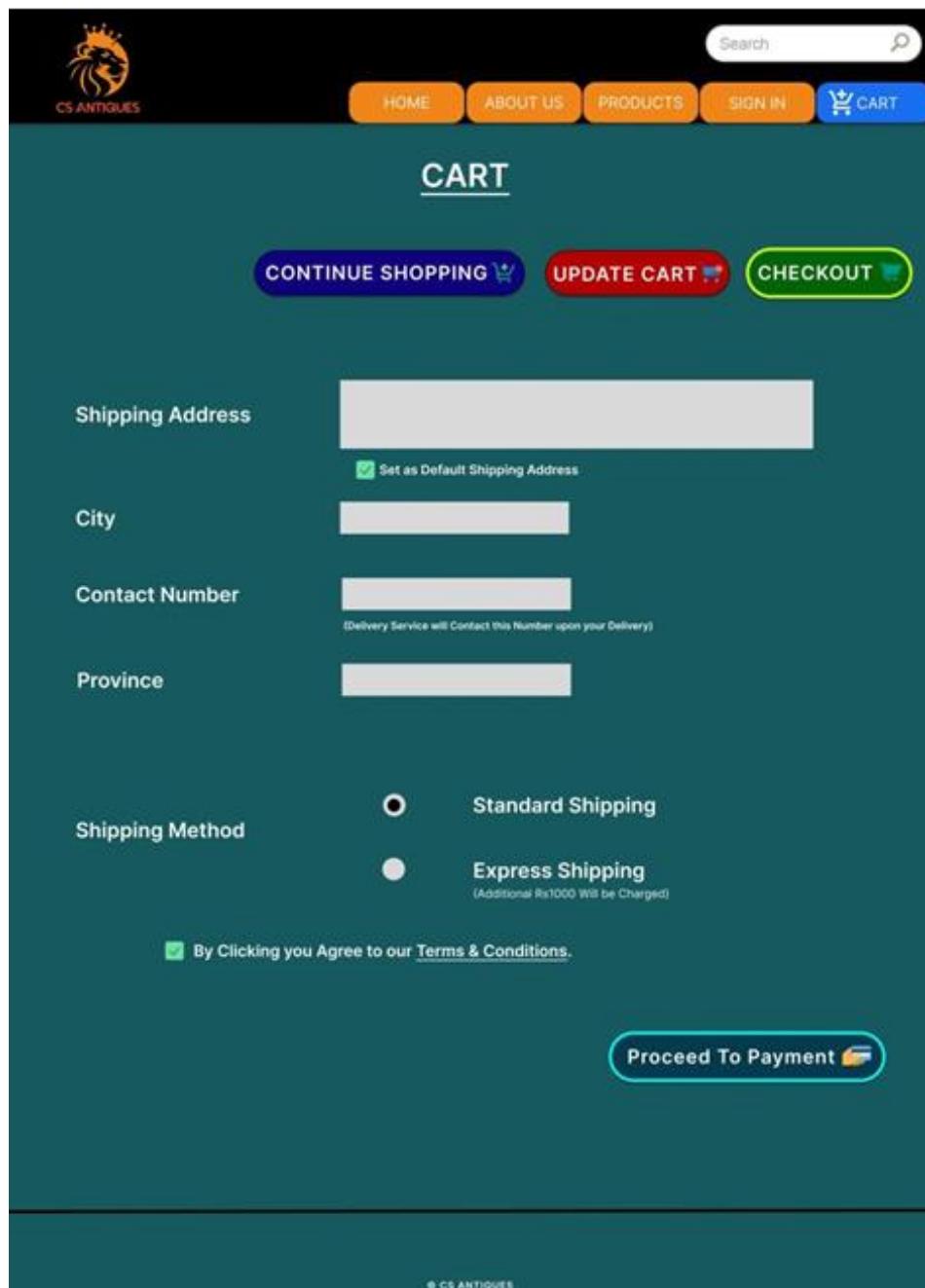
  

© CS ANTIQUES

Interface No: 56

Interface Name: Cart Details Page - Standard Shipping

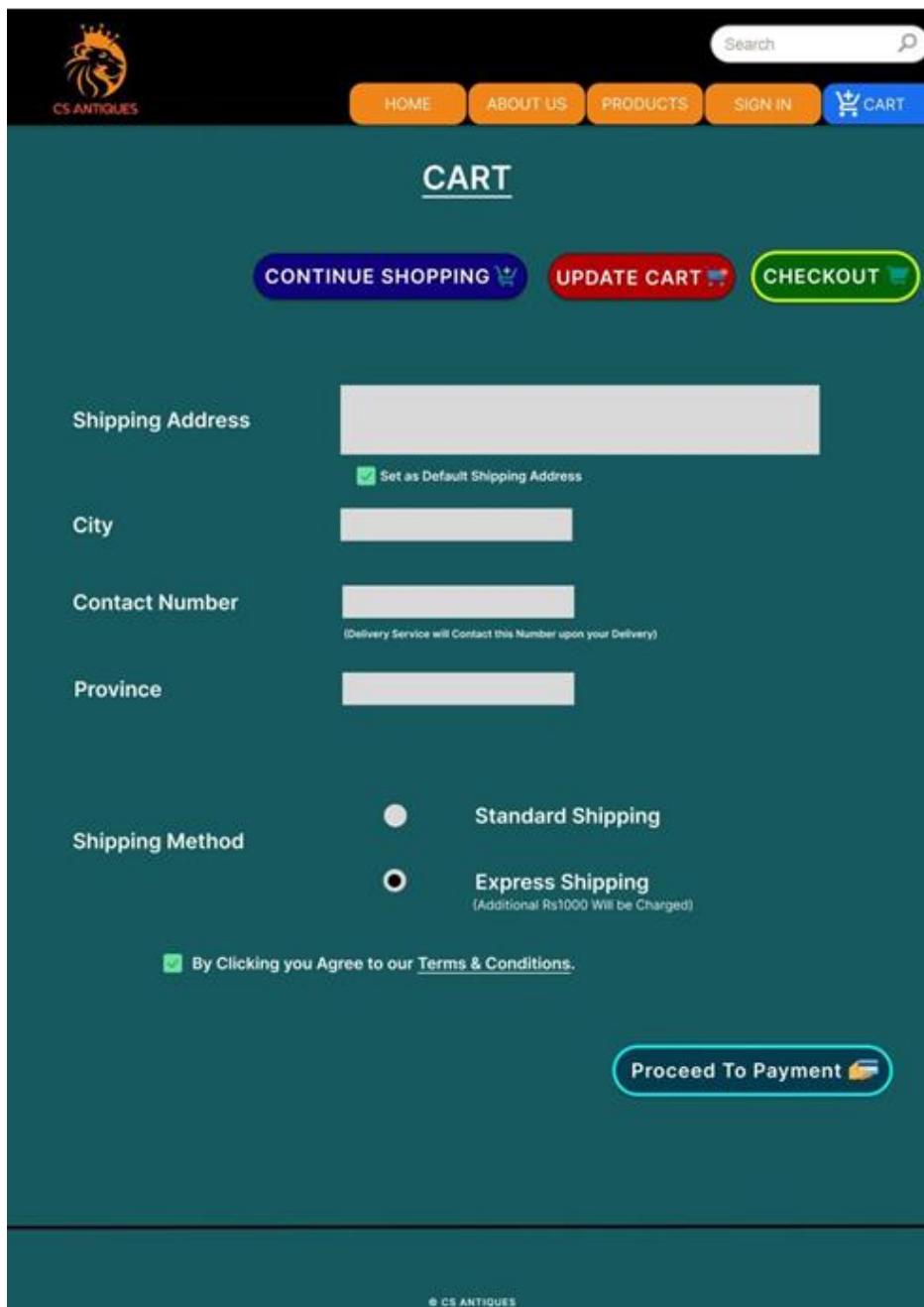
Description: Users can select standard shipping option.



Interface No: 57

Interface Name: Cart Details Page - Express Shipping

Description: Users can select express shipping option.



Interface No: 58

Interface Name: Products Details Page

Description: Users can view details of a specific product.



CS ANTIQUES

[HOME](#) [ABOUT US](#) [PRODUCTS](#) [SIGN IN](#) [CART](#)

## Products

### SUDDLE BOX



Product Rating 5.0 ★★★★★

 In Stock

Quantity - **1** +

100% Manufactured in Sri Lanka  
3 Months Manufacture Warranty  
Island Wide Delivery within 7 days

Rs 50,000

[Add To Cart](#) [Buy Now](#)

---

#### Item Description

This is the saddle box.

Original antique saddle box is made of jak and ebony wood. Its Designed with superior brass cravings . This is very beautiful wood box item. This was used in ancient times packed the horse riding places some items . length 2 feet 8 inches, width 1 feet 4 inches ,height 1 feet 8 inches . We can provide any quantity of high quality products from our qualified carpenters with warranty .  
Then this we can use for get more attraction from others .  
This item is suitable for varandha or living room.

© CS ANTIQUES

Interface No: 59

Interface Name: Trade-in Policy Page

Description: Users can view details about the trade-in items policy.

The screenshot shows a website for 'CS ANTIQUES' with a dark blue header. The header includes a logo of a lion, a search bar, and navigation links for 'HOME', 'ABOUT US', 'PRODUCTS', 'SIGN IN', and 'CART'. The main content area has a white background and features a section titled 'Trade-In Policy' in bold. Below this, there is a note about last updated date (20.6.2023) and a detailed explanation of the terms and conditions for trade-in services. The page is divided into several sections: 'Eligibility', 'Trade-In Process', 'Trade-In Value and Payment', 'Return of Trade-In Item', 'Trade-In Terms and Conditions', and 'Contact Us'. Each section contains specific guidelines and instructions for users.

Last Updated: 20.6.2023

This Trade-In Policy explains the terms and conditions for trade-in services provided by CS ANTIQUES for our users. By participating in our trade-in program, you agree to comply with the following policy.

**Eligibility**

To be eligible for our trade-in program, the following criteria must be met:

You must be a registered user on our website and have an active account. The item you wish to trade in must be in compliance with our Trade-In Guidelines (detailed below). Trade-in services are currently available for customers within [geographical region/countries].

**Trade-In Guidelines**

Please ensure that the item you intend to trade in meets the following guidelines:

The item must be the same or similar to the product specified in our trade-in program. The item should be in good condition, free from significant damage or defects that affect its functionality. Any accessories or components that originally came with the item must be included. The item must be eligible for resale, without any legal restrictions or limitations.

**Trade-In Process**

To participate in our trade-in program, follow these steps:

Visit our trade-in webpage or designated section on our website. Provide accurate details about the item you wish to trade in, including the brand, model, and condition. Our system will provide an estimated trade-in value based on the information provided.

If you agree to the estimated value, follow the instructions to complete the trade-in process. After receiving your trade-in request, we will review the information and contact you with further instructions, including shipping details and any required documentation.

**Trade-In Value and Payment**

The final trade-in value of your item will be determined by our evaluation process. Factors considered may include the item's condition, market demand, and current resale value.

Once we have completed the evaluation, we will notify you of the confirmed trade-in value. Payment for the trade-in will be provided in the form of [payment method, e.g., store credit, gift card, or refund to the original payment method] within [specified timeframe].

Please note that the trade-in value may differ from the initial estimate provided, depending on the condition of the item and market fluctuations.

**Return of Trade-In Item**

Once you have initiated the trade-in process and received confirmation, the traded-in item becomes our property. We do not return traded-in items, and any rights to the item are relinquished upon completion of the trade-in.

**Trade-In Terms and Conditions**

You must ensure that any personal information or data stored on the traded-in item is permanently removed or erased before sending it to us. You are responsible for the cost of shipping the traded-in item to us, unless otherwise specified in our trade-in program.

We reserve the right to refuse any trade-in request that does not meet our guidelines or does not comply with applicable laws or regulations.

We are not responsible for any loss or damage that occurs during shipping. We recommend using a reliable shipping method with appropriate packaging and insurance.

**Contact Us**

If you have any questions, concerns, or inquiries regarding our trade-in policy or trade-in program, please contact us at:

CS ANTIQUES  
No.214 /A Horana Road,Wekada,Panadura  
0773963489  
silvaantique@gmail.com

We will respond to your inquiries as soon as reasonably possible.

Please note that this Trade-In Policy is subject to change. We encourage you to review this policy periodically to stay informed about our trade-in terms and conditions.

Interface No: 60

Interface Name: Privacy Policy Page

Description: Users can view details about the privacy policy.

The screenshot shows a website for 'CS ANTIQUES' with a dark blue header. The header features a logo of a lion's head, the text 'CS ANTIQUES', a search bar with a magnifying glass icon, and navigation links for 'HOME', 'ABOUT US', 'PRODUCTS', 'SIGN IN', and 'MY CART'. The main content area has a white background and is titled 'Privacy Policy' in bold. Below the title, a small note says 'Last Updated: [20.6.2023]'. The page contains several sections of text explaining information collection, use, storage, and rights.

**Information Collection**

We may collect the following types of personal information from you:

- Contact Information:** When you create an account or make a purchase, we may collect your name, email address, phone number, and shipping address.
- Payment Information:** If you make a purchase, we collect payment details such as your credit card information. However, we do not store this information on our servers. We utilize a secure third-party payment processor to handle all transactions.
- Browsing Information:** We may collect information about your interactions with our website, such as your IP address, browser type, referring/exit pages, and operating system. We use cookies and similar technologies to enhance your browsing experience and analyze trends.

**Use of Collected Information**

We use the collected information for the following purposes:

- To provide and improve our services:** We use your information to process orders, fulfill requests, and deliver products. We may also use it to personalize your experience on our website and offer relevant recommendations.
- To communicate with you:** We may send you transactional emails, such as order confirmations or shipment notifications. Additionally, we may contact you regarding customer support inquiries or provide updates about our services.
- To analyze and enhance our website:** We use browsing information and analytics tools to understand user behavior, improve our website's functionality, and optimize marketing campaigns.

**Data Storage and Security**

We take reasonable measures to protect your personal information from unauthorized access, alteration, disclosure, or destruction. We implement industry-standard security practices, including the use of encryption technologies and firewalls, to safeguard your data. However, please note that no method of transmission over the internet or electronic storage is 100% secure, and we cannot guarantee absolute security.

**User Rights and Choices**

You have the right to access, update, correct, or delete your personal information. You can manage your account settings and preferences by logging into your account on our website. If you need assistance or have any privacy-related inquiries, please contact our customer support team using the contact information provided below.

**Children's Privacy**

Our services are not directed towards individuals under the age of 18. We do not knowingly collect personal information from children. If you are a parent or guardian and believe that your child has provided personal information to us, please contact us, and we will take steps to remove their information from our systems.

**Updates to the Privacy Policy**

We may update this Privacy Policy from time to time to reflect changes in our practices or legal requirements. Any modifications will be effective when we post the updated policy on our website. We encourage you to review this policy periodically to stay informed about how we collect, use, and protect your information.

**Contact Us**

If you have any questions, concerns, or requests regarding this Privacy Policy or our privacy practices, please contact us at:

CS ANTIQUES  
No.214/A Horana Road,Wekada,Panadura.  
0773963489  
silvantique@gmail.com

We will respond to your inquiries as soon as reasonably possible.

By using our website, you acknowledge that you have read and understood this Privacy Policy and consent to the collection, use, and disclosure of your personal information as described herein.

Interface No: 61

Interface Name: Return Item Details Page

Description: Users can return items by filling in the details

The screenshot shows a mobile application interface for returning items. At the top, there is a navigation bar with a logo of a lion wearing a crown, followed by the text "CS ANTIQUES". To the right of the logo are buttons for "HOME", "ABOUT US", "PRODUCTS", "SIGN IN", and a shopping cart icon labeled "CART". A search bar with a magnifying glass icon is positioned at the top right.

The main content area has a dark blue background. It features three input fields:

- A text input field labeled "Contact Number".
- A text input field labeled "Reason for Returning this Item".
- A text input field labeled "Tell Us Your Complaints & Suggestions".

Below these fields is a section with two checkboxes:

- By Clicking you Agree to our [Terms & Conditions](#).
- Refund the Amount to your Payment Method

A green "SUBMIT" button is located below the checkboxes.

At the bottom of the screen, there is a footer section with a dark blue background. It contains a link "View our Policy pages" and three buttons:

- "Privacy Policy" with a lock icon.
- "Trade-In Policy" with a circular arrow icon.
- "Return Policy" with a hand icon.

At the very bottom center of the footer, it says "© CS ANTIQUES".

Interface No: 62

Interface Name: Return Policy Page

Description: Users can view details about the return policy.

The screenshot shows the CS ANTIQUES website with a dark blue header. The header features a logo of a lion's head, the text 'CS ANTIQUES', a search bar, and navigation links for 'HOME', 'ABOUT US', 'PRODUCTS', 'SIGN IN', and 'CART'. Below the header, the main content area has a dark blue background with white text. The title 'Return Policy' is centered at the top of the page. A note at the top states 'Last Updated: 20.6.2023' and describes the policy as applicable to products purchased from CS ANTIQUES by users. It includes a link to the terms and conditions. The page is divided into several sections: 'Eligibility', 'Non-Returnable Items', 'Return Process', 'Return Shipping Costs', 'Inspection and Refund', 'Exchanges', and 'Contact Us'. Each section contains detailed information and instructions for the user.

**Eligibility**

To be eligible for a return, the following criteria must be met:

The product must have been purchased directly from our website.  
The return request must be made within 14 days from the date of delivery.  
The product must be in its original condition, unused, and in its original packaging (including all accessories, manuals, and labels).

**Non-Returnable Items**

The following items are non-returnable:

Personalized or customized products.  
Items listed as "Final Sale" or "Non-Returnable" on the product page.  
Products that have been used, damaged, or altered after delivery, except for manufacturing defects covered under warranty.

**Return Process**

To initiate a return, please follow these steps:

Contact our customer support team within the specified return period, either by email or phone, and provide your order details and reason for the return.

Our customer support team will guide you through the return process, including providing a return authorization number (RMA) and instructions for packaging and shipping the product back to us.

Please ensure that the product is securely packaged to avoid damage during transit.

**Return Shipping Costs**

Return shipping costs are the responsibility of the customer, unless the return is due to our error (such as shipping the wrong item or a defective product). In such cases, we will provide a prepaid shipping label or arrange for the return shipping at our expense.

**Inspection and Refund**

Once we receive the returned product, we will inspect it to ensure it meets the return eligibility criteria. If the return is approved:

For returns due to our error or defective products, we will provide a full refund, including the original shipping charges, within [number of days].

For returns due to customer preference or non-defective products, we will issue a refund for the product cost only, excluding any shipping charges.

Refunds will be processed using the original payment method used for the purchase. Please note that it may take [number of days] for the refund to appear in your account, depending on your bank or payment processor.

**Exchanges**

We currently do not offer direct product exchanges. If you wish to exchange a product, you will need to initiate a return as per this policy and place a new order for the desired product separately.

**Contact Us**

If you have any questions, concerns, or inquiries regarding our return policy or need assistance with a return, please contact our customer support team at:

CS ANTIQUES  
No.214/A Horana Road, Wekada, Panadura  
0773963489  
silvantique@gmail.com

We will respond to your inquiries as soon as reasonably possible.

Please note that this Return Policy is subject to change. We encourage you to review this policy periodically to stay informed about our return terms and conditions.

Interface No: 63

Interface Name: Supplier Policy Page

Description: Users can view details about the supplier policy.



The screenshot shows a website header with a logo, search bar, and navigation links for Home, About Us, Products, Sign In, and Cart. The main content area has a dark blue background and displays the "Supplier Policy" title. Below it is a bulleted list of policy details:

- CS ANTIQUES Supplier Policy
- Date: 20.6.2023
- Introduction: This Supplier Policy outlines the guidelines and expectations for suppliers associated with CS ANTIQUES, an ecommerce website. We value our relationship with our suppliers and aim to foster a transparent and ethical business environment. This policy aims to ensure the highest level of quality, reliability, and customer satisfaction. All suppliers are required to comply with this policy to maintain a mutually beneficial partnership with CS ANANTIQUES.
- Supplier Selection: CS ANANTIQUES selects suppliers based on predetermined criteria, which include quality, reliability, cost-effectiveness, and ethical practices. Prospective suppliers must complete an evaluation process, including providing relevant documentation, references, and samples, if applicable. We strive to work with suppliers who share our commitment to sustainability and social responsibility.
- Product Quality: Suppliers are responsible for ensuring the quality and safety of their products and services. All products must comply with applicable local, national, and international standards and regulations. CS ANANTIQUES may conduct periodic quality audits to assess compliance with the required standards.
- Communication and Collaboration: Open and effective communication between CS ANANTIQUES and suppliers is crucial. Suppliers must promptly address any inquiries, concerns, or complaints from CS ANANTIQUES. Suppliers should collaborate with CS ANANTIQUES to improve product offerings, packaging, and delivery processes. and suppliers is crucial. Suppliers must promptly address any inquiries, concerns, or complaints from CS ANANTIQUES. Suppliers should collaborate with CS ANANTIQUES to improve product offerings, packaging, and delivery processes.
- Pricing and Payment: Suppliers must provide competitive and fair pricing, taking into account market conditions and the quality of their products or services. Any changes in pricing should be communicated in advance and agreed upon by both parties. Payments will be made in a timely manner, according to the agreed-upon terms and conditions. Supplier must pay a fee of Rs2000 to CS antiques, if the supplier failed to pay fee for 2 months the supplier account will be Temporarily disabled.
- Ethical Practices: CS ANANTIQUES expects suppliers to adhere to high ethical standards and operate in compliance with applicable laws and regulations. Suppliers must not engage in any form of bribery, corruption, or unethical practices. Suppliers should ensure fair treatment of their employees, promoting a safe and inclusive work environment.
- Confidentiality and Intellectual Property: Suppliers must respect and maintain the confidentiality of any confidential or proprietary information shared by CS ANANTIQUES. Suppliers should respect and not infringe upon the intellectual property rights of CS ANANTIQUES or any third parties.
- Compliance and Continuous Improvement: Suppliers are expected to comply with this policy and all relevant laws and regulations. CS ANANTIQUES reserves the right to terminate the relationship with any supplier that consistently fails to meet these requirements. Suppliers are encouraged to continuously improve their processes, products, and sustainability practices.

Interface No: 64

Interface Name: Help Page

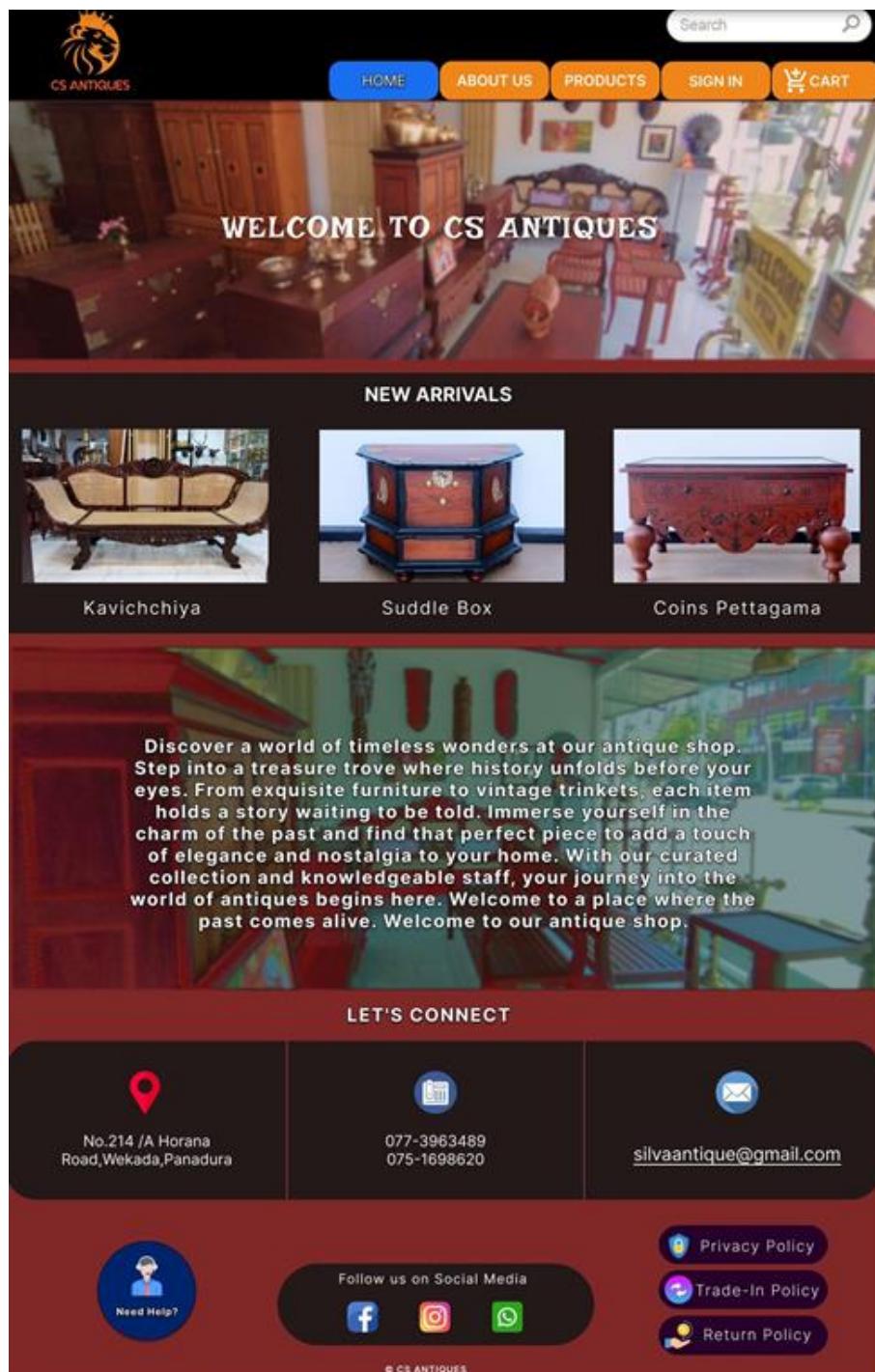
Description: Users can get help from the system, and send complaints and suggestions.



Interface No: 65

Interface Name: CS Antiques Web Page Interface - Home Page

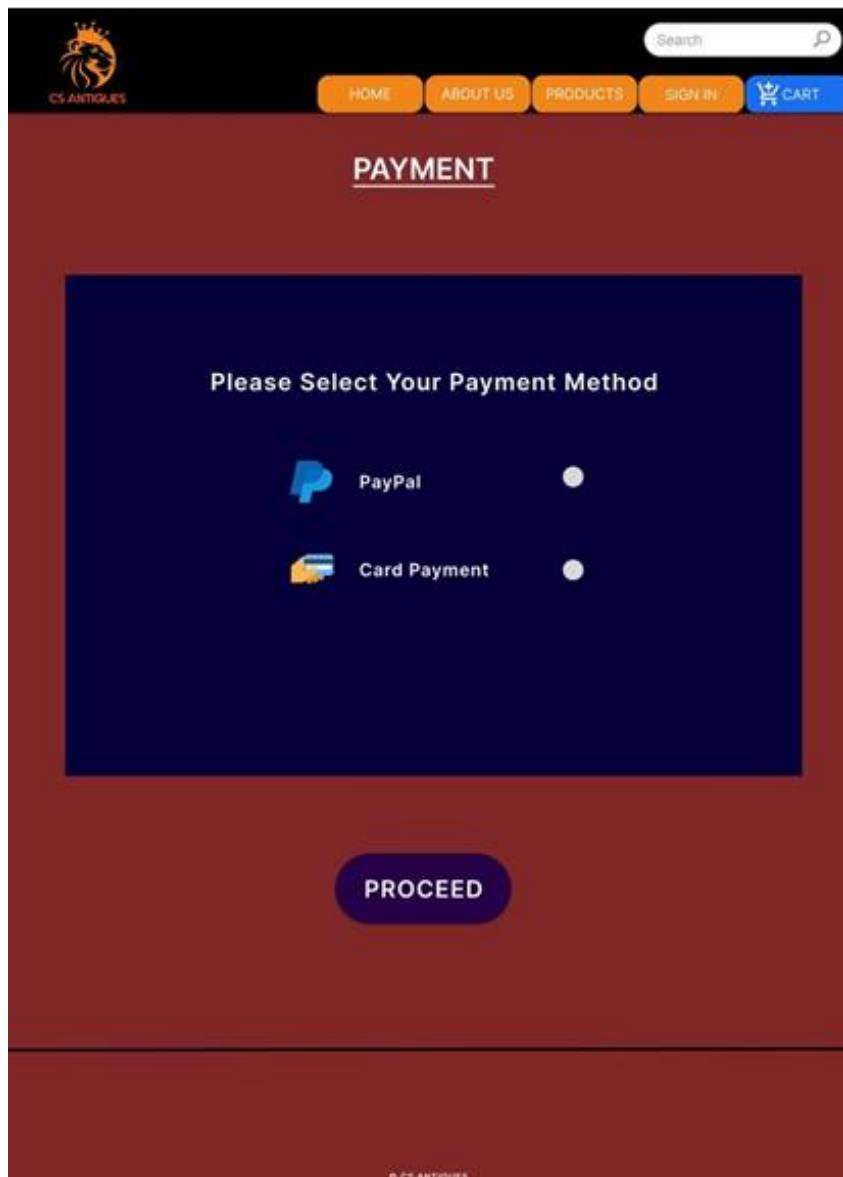
Description: This is the first page of the CS Antiques website.



Interface No: 66

Interface Name: Payment Interface

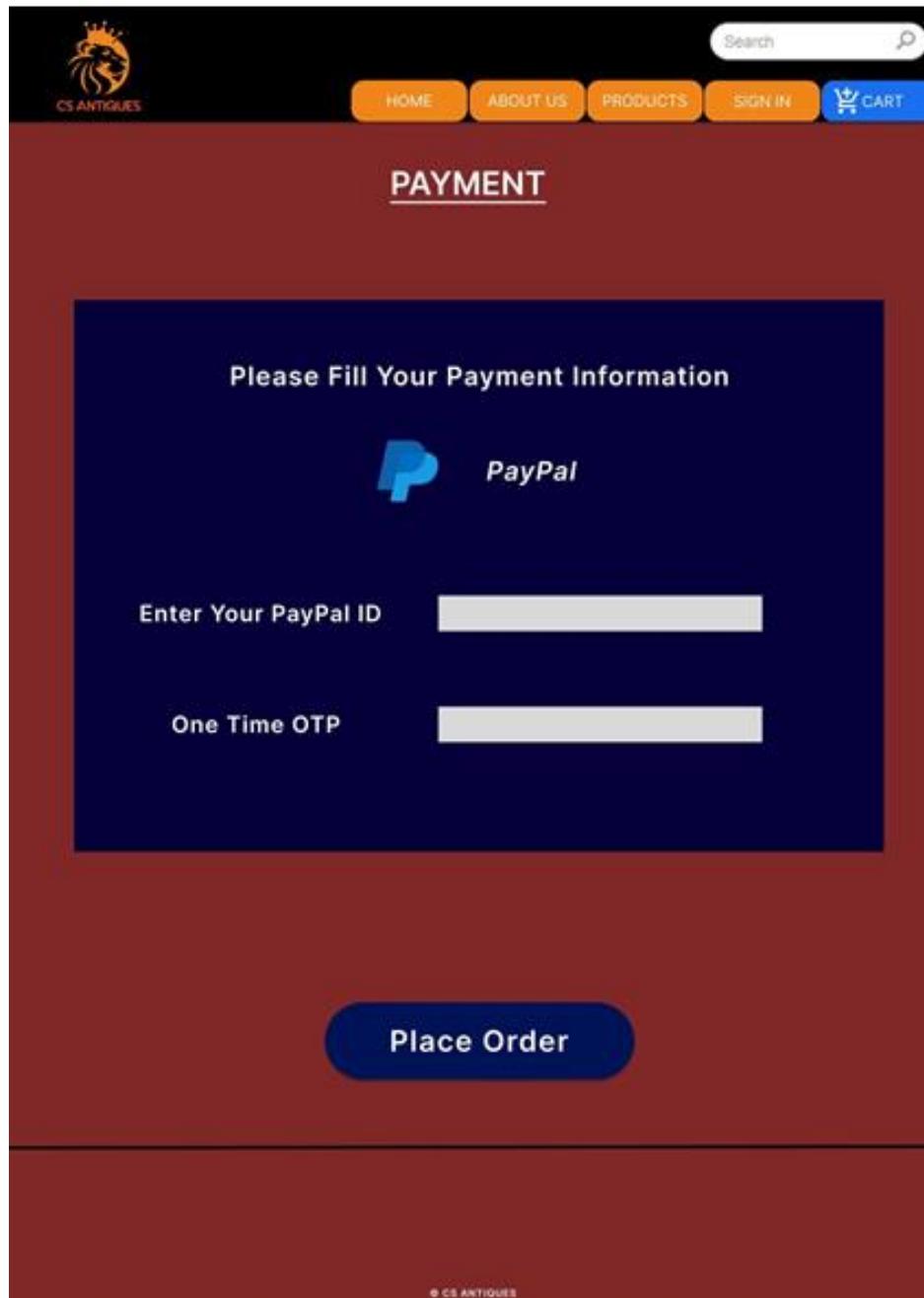
Description: Users can select a payment option for their purchase.



Interface No: 67

Interface Name: Payment Page - PayPal

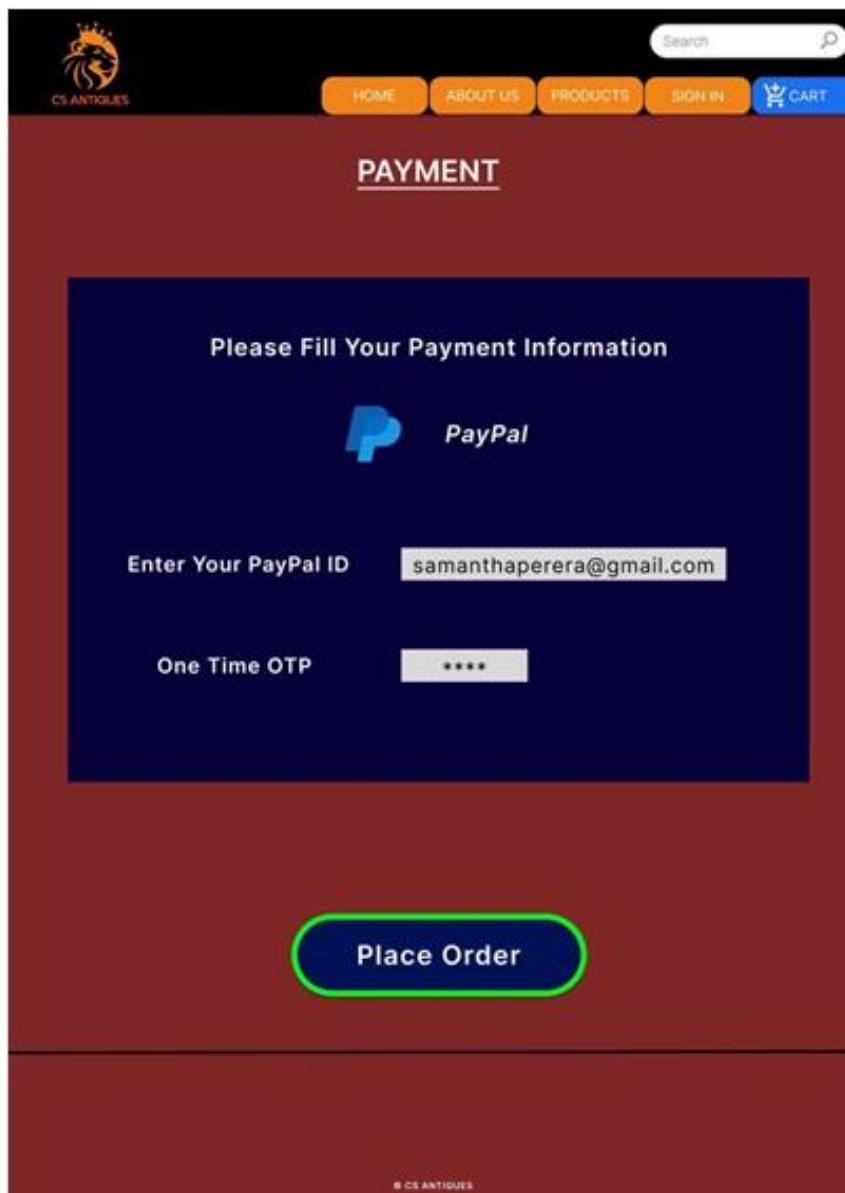
Description: Users can add PayPal payment details.



Interface No: 68

Interface Name: Payment Interface - Unsuccessful Payment

Description: If the payment is unsuccessful, a message is displayed.



Interface No: 69

Interface Name: Payment Page - Card Details

Description: Users can add card payment details.

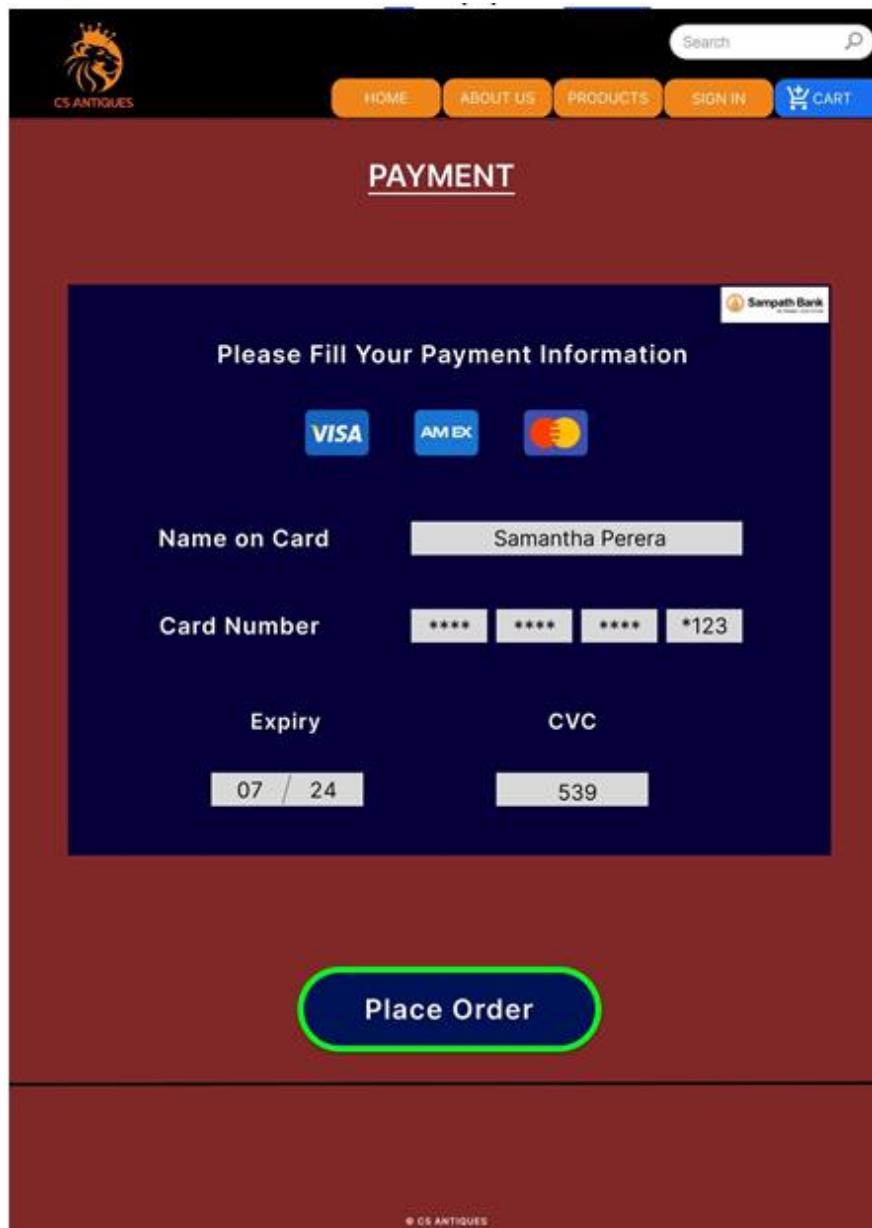
The screenshot shows a payment page for CS ANTIQUES. At the top, there's a navigation bar with a lion logo, the text 'CS ANTIQUES', a search bar, and links for 'HOME', 'ABOUT US', 'PRODUCTS', 'SIGN IN', and 'CART'. Below this, a large red header says 'PAYMENT'. In the center, a dark blue form box contains the text 'Please Fill Your Payment Information' and logos for VISA, AMEX, and MasterCard. It has fields for 'Name on Card' (redacted), 'Card Number' (redacted), 'Expiry' (MM / YY), and 'CVC' (redacted). A 'Place Order' button is at the bottom of the form. The footer of the page says '© CS ANTIQUES'.

PAGE NUMBER: 126

Interface No: 70

Interface Name: Payment Interface - Fill Payment Details

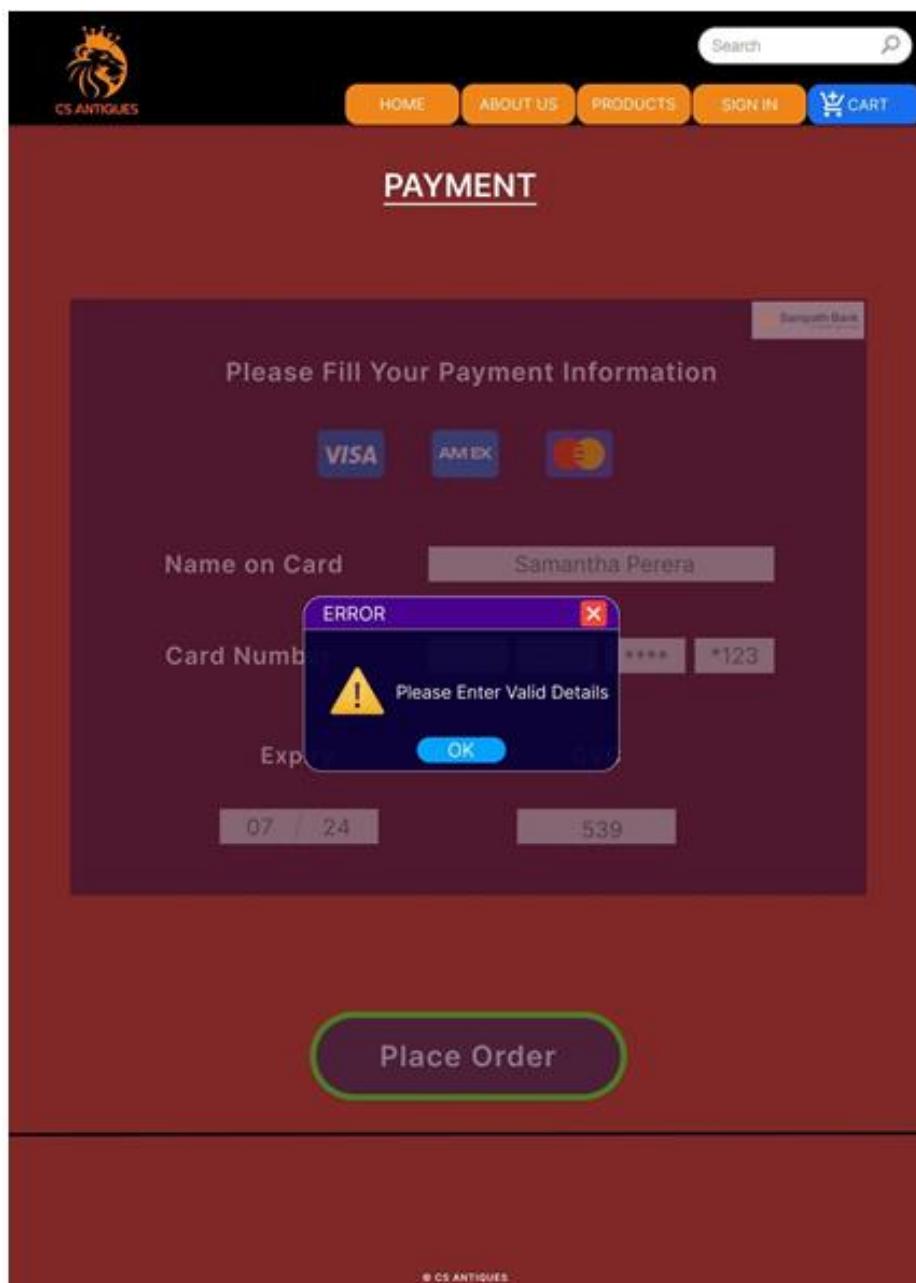
Description: Users can fill in the payment details.



Interface No: 71

Interface Name: Payment Interface - Unsuccessful Payment

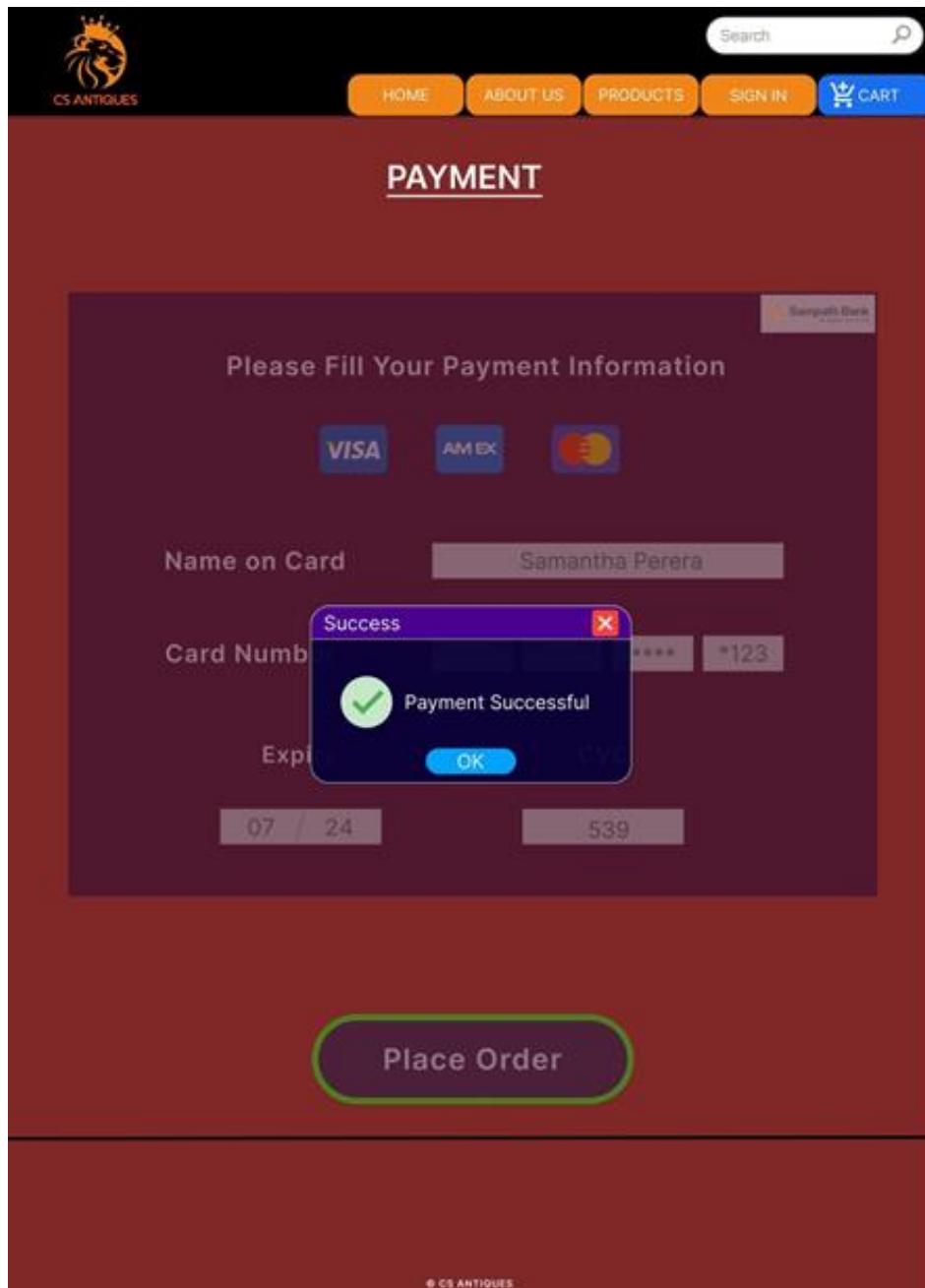
Description: If the payment is unsuccessful, a message is displayed.



Interface No: 72

Interface Name: Payment Interface - Successful Payment

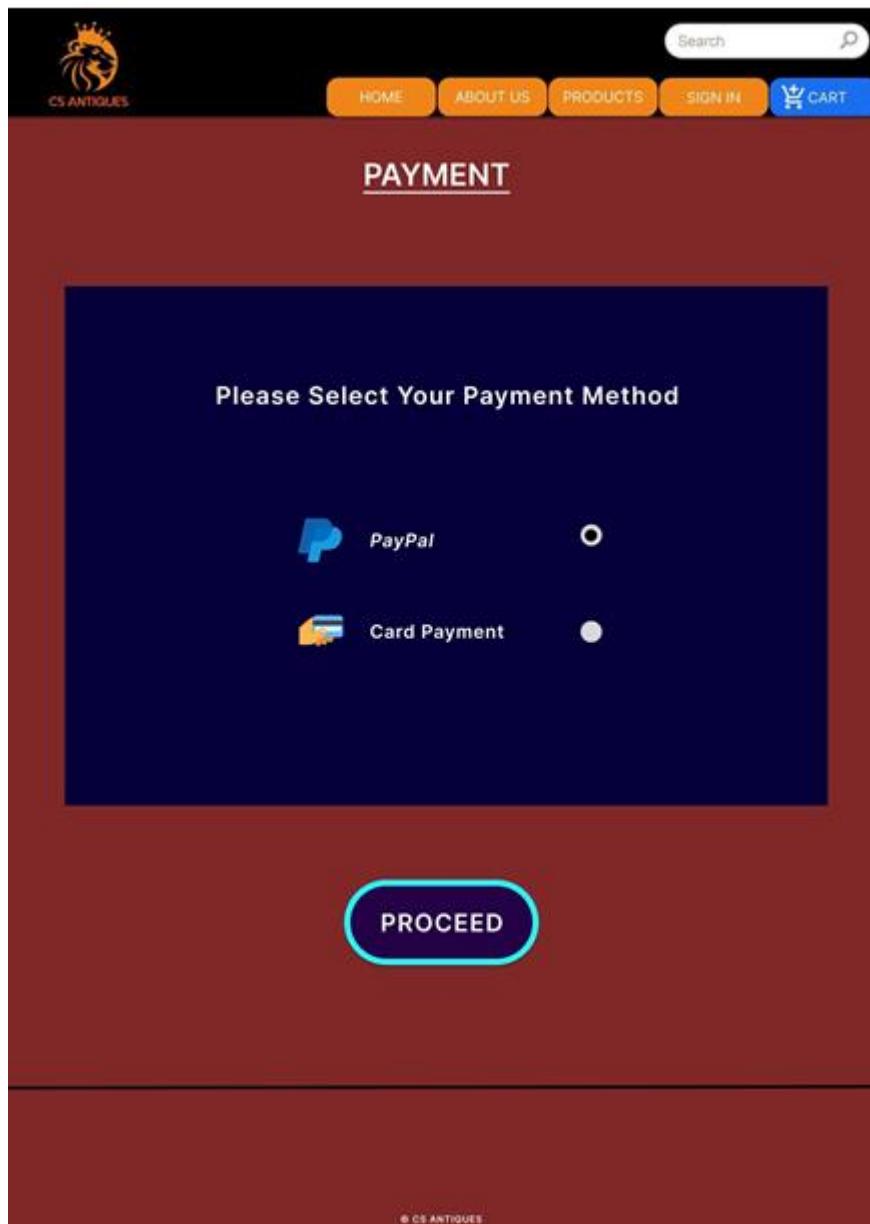
Description: If the payment is successful, a message is displayed.



Interface No: 73

Interface Name: Payment Option Selection Interface - PayPal

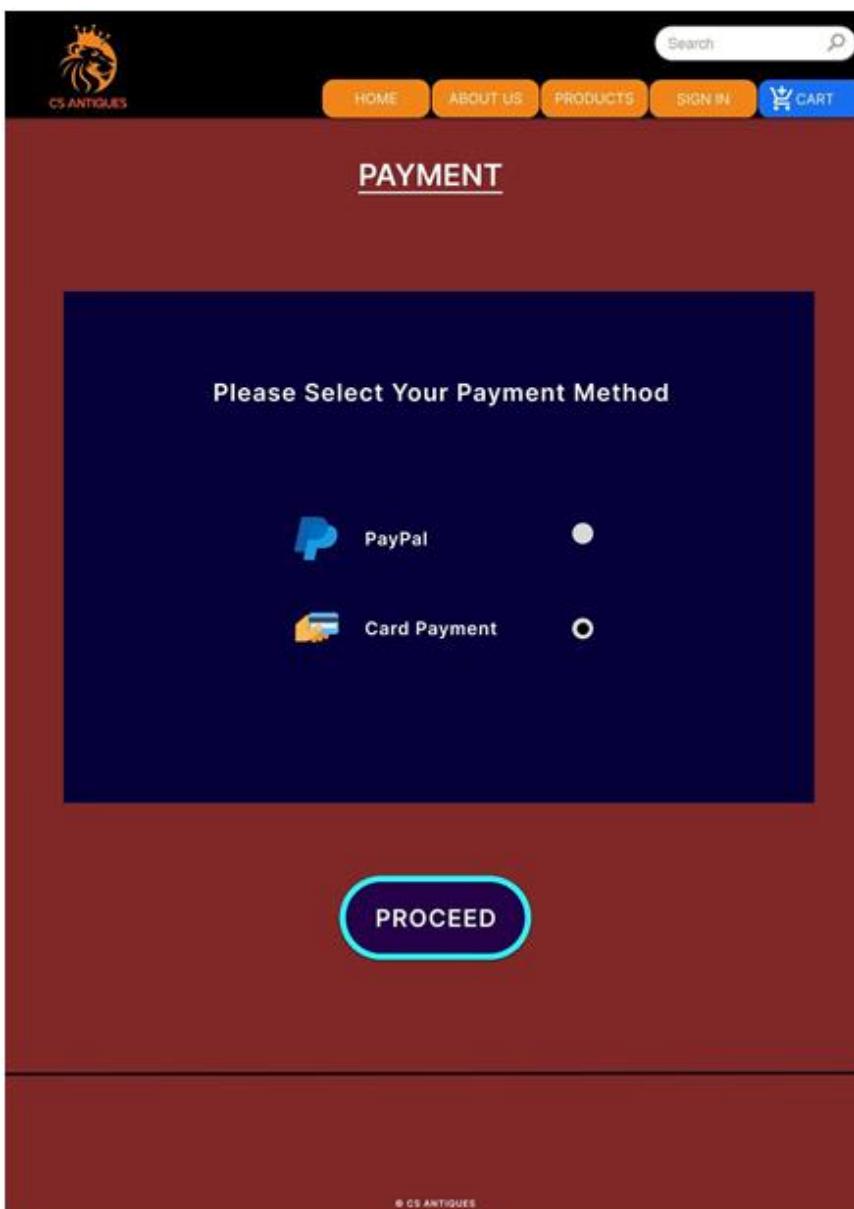
Description: Users can select PayPal as the payment option.



Interface No: 74

Interface Name: Payment Option Selection Interface - Card

Description: Users can select card as the payment option.



Interface No: 75

Interface Name: About Us Page

Description: This is the about page of the CS Antiques website.

The screenshot shows the 'ABOUT US' page of the CS Antiques website. At the top, there is a navigation bar with links for HOME, ABOUT US (which is highlighted in blue), PRODUCTS, SIGN IN, and CART. A search bar is also present. The main content area features a large logo for 'CS ANTIQUES' with a lion emblem. Below the logo, the heading 'ABOUT US' is centered. The page contains several paragraphs of text describing the company's products, history, and customer service. The background of the content area is a light beige color.

In the Panadura region, CS Antiques Showroom is a well-known merchant of antiques and replicas. Antique furniture such as pettograms, cabinets, chairs, tables, beds, coffee tables, brass items, and more are among the specialties of the store. Additionally, the showroom provides top-notch replicas of well-known antique furniture items, including warandar chairs.

Since the company's founding, CS Antiques Showroom has been committed to giving customers distinctive, superior products that suit their individual requirements and preferences. The business is dedicated to providing outstanding customer service and making sure that every customer has a satisfying and enjoyable purchasing experience.

Customers looking to buy antiques or replicas can get expert guidance and advice from CS Antiques Showroom's team of qualified and experienced professionals. The personnel at the showroom is an expert in determining the authenticity of antique goods and can help clients choose the ideal piece for their residence or place of business.

In addition to taking pleasure in being a dependable supplier of genuine antiques for consumers, CS Antiques Showroom is dedicated about protecting the rich history and cultural heritage of antique objects. The business is committed to offering a wide variety of one-of-a-kind and uncommon antique products, as well as premium replicas that perfectly reflect the beauty and elegance of antique furniture.

Overall, CS Antiques Showroom is a reputable and reliable seller of antiques and replicas, renowned for its first-rate customer service, experienced employees, and top-notch goods.

### 4.3 Report Design

Report Layout Number 01

Report Name: Item Payment Reports

Description: This report provides detailed information about item payments, including transaction dates, item names, quantities purchased, prices, and total amounts paid.

  
**Order Report**

User Name: Samantha  
Job Role: Supplier  
E-Mail: Samantha1@gmail.com  
Phone: 0771509804  
No: 238/5/1, Gonahahena, Makola

Report: Order Report  
Start Date: 2.4.2023  
End Date: 31.4.2023

Printed Date: 31.5.2023

Date	Product	Quantity	Supplier	Amount	Shipping fee	Total
3.4.2023	Kanappu	1	Kamal	65,000	3,000	68,000
2.3.2023	Pettagama	3	Saman	55,000	2,500	167,500
21.5.2023	Art	10	Namal	10,000	1,900	101,900
28.2.2023	Pettagama	2	Wimal	50,000	2,000	102,000

Total Shipping Fee:	9,400
Total Amount:	180,000
Total Profit:	189,400

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## Report Layout Number 02

Report Name: Order Report Interface

Description: Users can access this interface to obtain comprehensive details about orders, including order numbers, customer names, order dates, item details, quantities ordered, prices, and order statuses.



### Order Report

User Name: Samantha  
Job Role: Supplier  
E-Mail: Samantha1@gmail.com  
Phone: 0771509804  
No: 238/5/1, Gonahahena, Makola

Report: Order Report  
Start Date: 2.4.2023  
End Date: 31.4.2023

Printed Date: 31.5.2023

Date	Product	Quantity	Supplier	Amount	Shipping fee	Total
3.4.2023	Kanappu	1	Kamal	65,000	3,000	68,000
2.3.2023	Pettagama	3	Saman	55,000	2,500	167,500
21.5.2023	Art	10	Namal	10,000	1,900	101,900
28.2.2023	Pettagama	2	Wimal	50,000	2,000	102,000

Total Shipping Fee:	9,400
Total Amount:	180,000
Total Profit:	189,400

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## Report Layout Number 03

Report Name: Income Report Interface

Description: This interface allows users to access income reports, providing insights into revenue generated over specific time periods. It includes details such as total sales, revenue from different sources, expenses, and net income.

### INCOME REPORT



USER - ADMIN  
Start Date - 1.5.2023  
End Date - 31.5.2023

No.214 /A Horana Road,Wekada,Panadura  
Phone - 0773963489  
Email - silvaantique@gmail.com

Description - This is the Income Report Generated for the Selected Time Range.

Date	Product	Quantity	Payment ID	Payment Method	User	Amount (Rs)	Discount (Rs)	Shipping Fee	Total
1.5.2023	Pettagama	1	001	Visa	kasun	50,000.	0	1500	51,500
3.5.2023	Kanappu	1	002	Visa	Dilshan	65,000	2500	1500	64,000
20.5.2023	Pettagama	1	003	PayPal	Isuru	55,000	0	1500	56,500
24.5.2023	Art	1	004	Visa	Janidu	30,000	1000	1500	31,500

Total Discounts	3500
Total Shipping Fee	6000
Total Amount	203,000
Total Profit	196,500

Report Layout Number 04

Report Name: Inventory Report Interface

Description: Users can utilize this interface to obtain detailed information about inventory levels. It includes data on available stock quantities, item names, categories, unit costs, and total inventory values.

## INVENTORY REPORT



USER - ADMIN  
Start Date - 1.5.2023  
End Date - 31.5.2023

No.214 /A Horana Road,Wekada,Panadura  
Phone - 0773963489  
Email - silvaantique@gmail.com

Total number of stocks - 260  
Total number of products - 9  
Number out of stock products - 1

Date	Product	Current stock	Last restock date	Product Manufactured Material	Supplier
1.5.2023	Pettagama	50	31.4.2023	Wood,Metal	kasun
1.5.2023	Kanappu	60	31.4.2023	Wood	Dilshan
1.5.2023	Lamp	30	31.4.2023	Metal	Isuru
1.5.2023	Art	20	31.4.2023	Paper	Janidu
1.5.2023	Kavichi	10	31.4.2023	Wood	kasun
1.5.2023	Coins	0	31.4.2023	Metal	Dilshan
1.5.2023	Table	40	31.4.2023	Wood	Isuru
1.5.2023	Chair	35	31.4.2023	Wood	Janidu
1.5.2023	Cupboards	15	31.4.2023	Wood/Metal	kasun

## Report Layout Number 05

Report Name: User Details Report Interface

Description: This report interface is designed for users to input and retrieve detailed information about users. It includes fields for capturing user details such as usernames, contact information, account statuses, and any additional relevant information.



## Reports

User Details:

	User Name
	Job Role
	E-Mail
	Mobile
	Address

Select Report And Duration:

	Report Category	
	Starting Date	
	End Date	

February 2014						
S	M	T	W	T	F	S
					1	
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

August 2014						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
					31	

Generate Report

## 4.4 Database Design

### File Design

**Table 01 :- Admin Table**

**Primary Key: aid**

**This is details about admin table database what are the records have. Field Name, Data type , data size and description**

Field Name	Data Type	Data Size	Description
aid	Number	5	Admin id
a_uname	Text	10	Admin user name
a_pass	Text	10	Admin password
a_fname	Text	15	Admin first name
a_lname	Text	20	Admin last name
a_job_title	text	10	Admin job title
a_email	Text	20	Admin email
a_tel	Text	10	Admin telephone number
Record Size		100	

**Table 02 :- Admin-Product Table**

**Primary key:** aid, pid

**Foreign key:** aid, pid

**This is details about admin-product table database what are the records have. Field Name, Data type ,data size and description**

Field Name	Data Type	Data Size	Description
aid	Number	5	Admin id
pid	Number	5	Product id
date	Text	5	Date managed
remark	Text	10	Remark detail
Record Size		25	

**Table 03 :- Product Table**

**Primary key: pid**

**Foreign Key: sid**

**This is details about product table database what are the records have. Field Name,Data type ,data size and description**

Field Name	Data Type	Data Size	Description
pid	Number	5	Product id
sid	Number	5	Supplier id
p_name	Text	15	Product name
p_desc	Text	150	Product description
p_qty	Number	5	Product quantity
p_catagory	Text	15	Product catagory
p_size	Text	10	Product size
p_color	Text	10	Product color
p_img	Text	50	Product image
Record Size		265	

**Table 04 :- Product-Order Table**

**Primary key: oid ,pid**

**Foreign key: oid ,pid**

**This is details about product order table database what are the records have. Field Name,Data type ,data size and description**

Field Name	Data Type	Data Size	Description
oid	Number	5	Order id
pid	Number	5	Product id
o_qty	Number	2	Order product quantity
Record Size		12	

**Table 05 :- Order Table**

**Primary key: oid**

**Foreign key: smid, cid**

**This is details about order table database what are the records have. Field Name, Data type ,data size and description**

Field Name	Data Type	Data Size	Description
oid	Number	5	Order id
cid	Number	5	Customer id
smid	Number	5	Shipping method id
o_status	Text	15	Order status
o_total_price	Number	6	Order total price
o_date	Date		Order date
Record Size		36	

**Table 06 :- Supplier table**

**Primary key: sid**

**This is details about Supplier table database what are the records have. Field Name, Data type ,data size and description**

Field Name	Data Type	Data Size	Description
sid	Number	5	Supplier id
s_uname	Text	10	Supplier user name
s_pass	Text	10	Supplier password
s_email	Text	20	Supplier email
s_tel	Text	10	Supplier telephone number
s_fname	Text	20	Supplier first name
s_lname	Text	20	Supplier last name
company_name	Text	30	Company name
company_size	Text	20	Company size
Record size		145	

**Table 07 :- Commission Table**

**Primary key:** cmid

**Foreign key:** aid, sid

**This is details about commission table database what are the records have. Field Name, Data type , data size and description**

Field Name	Data Type	Data Size	Description
cmid	Number	5	Commission id
aid	Number	5	Admin id
sid	Number	5	Supplier id
cm_status	Text	15	Commission status
cm_date	Date		Commission date
cm_price	Number	4	Commission price
cm_month	Text	10	Commission Month
Record size		44	

**Table 08 :- Employee Table**

**Primary key: eid**

**Foreign key: aid**

**This is details about Employee table database what are the records have. Field Name, Data type, data size and description**

Field Name	Data Type	Data Size	Description
eid	Number	5	Employee id
aid	Number	5	Admin id
e_uname	Text	10	Employee user name
e_fname	Text	10	Employee first name
e_lname	Text	20	Employee last name
e_pass	Text	20	Employee password
e_email	Text	20	Employee email
e_job_role	Text	15	Employee job role
e_tel	Text	10	Employee telephone number
Record size		115	

**Table 09 :- Cart Table**

**Primary key:** ctid

**Foreign key:** cid

**This is details about cart table database what are the records have. Field Name,Data type ,data size and description**

Field Name	Data Type	Data Size	Description
ctid	Number	5	Cart id
cid	Number	5	Customer id
ct_date	Date		Cart created date
ct_u_date	Date		Cart last updated date
ct_status	Text	15	Cart status
ct_total_items	Number	2	Cart total items
ct_total_price	Number	6	Cart total price
Record size		33	

**Table 10 :- Product-Cart Table**

**Primary key:** ctid ,pid

**Foreign key:** ctid, pid

**This is details about Product cart table database what are the records have. Field Name,Data type ,data size and description**

Field Name	Data Type	Data Size	Description
ctid	Number	5	Cart id
pid	Number	5	Product id
c_qty	Numeber	2	Cart quantity
Record size		12	

**Table 11 :- Customer Table**

**Primary key: cid**

**This is details about Customer table database what are the records have. Field Name, Data type ,data size and description**

Field Name	Data Type	Data Size	Description
cid	Number	5	Customer id
c_uname	Text	10	Customer user name
c_pass	Text	10	Customer password
c_fname	Text	20	Customer first name
c_lname	Text	20	Customer last name
c_email	Text	20	Customer email
c_tel	Text	10	Customer telephone number
st_no	Text	5	Street number
st_name	Text	15	Street name
city	Text	15	City
province	Text	15	Province
zip	Text	5	Zip code
Record size		150	

**Table 12 :- Complaint table**

**Primary key: cmpid**

**Foreign key: cid**

**This is details about Complaint table database what are the records have. Field Name, Data type , data size and description**

Field Name	Data Type	Data Size	Description
cmpid	Number	5	Complaint id
cid	Number	5	Customer id
cmp_title	Text	20	Complaint title
cmp_desc	Text	200	Complaint description
cmp_subdate	Date		Complaint submitted date
is_checked	Boolean		Is complaint checked
Record size		230	

**Table 13 :- Payment\_Method Table**

**Primary key:** pmid

**Foreign key:** cid

**This is details about Payment\_Method table database what are the records have. Field Name, Data type ,data size and description**

Field Name	Data Type	Data Size	Description
pmid	Number	5	Payment method id
cid	Number	5	Customer id
pm_type	Text	15	Payment method type
is_default	Boolean	5	Is payment method default
Record size		30	

**Table 14:- Shipping\_Method Table**

**Primary key:** smid

**This is details about Shipping\_method table database what are the records have. Field Name, Data type ,data size and description**

Field Name	Data Type	Data Size	Description
smid	Number	5	Shipping method id
sm_name	Text	10	Shipping method name
sm_price	Number	4	Shipping method price
Record Size		19	

**Table 15:- Return Table**

**Primary key:** rid

**Foreign key:** oid

**These are details about Return table database what are the records have. Field Name, Data type ,datasize and description**

Field Name	Data Type	Data Size	Description
rid	Number	5	Return id
oid	Number	5	Order id
r_date	date		Returned date
reason	Text	30	Returned reason
r_condition	Text	10	Return condition
refund_status	Boolean		Refund status
refund_amount	Number	6	Refund amount
Record Size		56	

**Table 16:- Report Table**

**Primary key:** rpid

**Foreign key:** uid

This is details about Report table database what are the records have. Field Name, Data type, data size and description

Field Name	Data Type	Data Size	Description
rpid	Number	5	Report id
uid	Number	5	User id
rp_type	Text	15	Report type
rp_desc	Text	50	Report description
Record Size		75	

**Table 17:- Promotion Table**

**Primary key:** pmid

**Foreign key:** pid

These are details about Promotion table database what are the records have. Field Name, Data type , data size and description

Field Name	Data Type	Data Size	Description
pmid	Number	5	Promotion id
pid	Number	5	Product id
pm_name	Text	15	Promotion name
pm_desc	Text	30	Promotion description
s_date	date		Start date
e_date	date		End date
d_rate	Number	2	Discount rate
Record Size		57	

**Table 18:- Category Table**

**Primary key:** cat\_name

**Foreign key:** catid

This is details about Category table database what are the records have. Field Name, Data type , data size and description

Field Name	Data Type	Data Size	Description
catid	Number	5	category id
cat_name	Number	5	Category name
Record Size		10	

**Table 19:- Product-category Table**

**Primary key:** catid ,pid

**Foreign key:** catid, pid

This is details about Product-category table database what are the records have. Field Name, Data type ,data size and description

Field Name	Data Type	Data Size	Description
pid	Number	5	Product Id
catid	Number	5	Category Id
Record size		10	

## CHAPTER 5: Conclusion

In conclusion, the CS Antique Showroom embarked on a website creation software project to modernize their business operations and enhance their presence in the market. Through close collaboration and thorough research, we designed and developed an e-commerce website using Figma, HTML, CSS, Bootstrap, jQuery, JavaScript, and the Laravel framework.

The new website will serve as a powerful platform for CS Antique Showroom to effectively manage their procurement, storage, utilization, and manufacturing processes. It will also facilitate workforce management, generate reports on production efficiency and quality, and coordinate with suppliers and distributors for seamless supply chain management.

By embracing this software solution, CS Antique Showroom will experience improved operational efficiency, enhanced productivity, and better customer satisfaction. The website will enable them to showcase their antique products, reach a wider audience, and stay ahead of industry trends. Overall, the website creation software project will pave the way for CS Antique Showroom's success and growth in the antique market.

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