

Cushion House E-Commerce

Website

Diploma in Computer system Design

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**This project is submitted in partial fulfillment of the requirement of the Diploma
in Computer System Design of the National institute of business management.**

Declaration

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Preamble

Abstract

Electronic commerce, or e-commerce, refers to the process of buying and selling goods or services over the internet. It allows customers to shop online using their electronic devices, such as laptops, smartphones, or tablets, without the need to physically visit a store.

Cushion House is a business that has decided to build an e-commerce website to sell luxury sofas and furniture. The website will allow customers to browse the available products, compare prices, and place orders from the convenience of their own homes. This is especially important during the current pandemic, when many people are avoiding in-person shopping and seeking alternatives to traditional retail.

Currently, Cushion House handles all of its sales and operations through social media and manually. This means that the company relies on social media platforms and manual processes to advertise its products, accept orders, and handle other business tasks. The development of a web-based system will streamline these processes, making it easier for Cushion House to manage its sales and operations. It will also save time and reduce physical labor, as the website can handle many tasks that would otherwise need to be done manually.

The ultimate goal of Cushion House's e-commerce website is to expand the business's local reach, increase profits, and build a larger customer base. By offering a convenient online shopping experience, the company hopes to attract more customers and grow its business.

To develop the e-commerce website, Cushion House used a variety of tools and technologies. The web application was built using the VS code tool, which is a popular code editor. The user interface was designed with Figma, a design and prototyping tool. The frontend of the website was created with Bootstrap, a popular framework for building responsive websites. The backend was developed using the Laravel PHP framework, which provides a range of tools and libraries for building web applications. Finally, MySQL was used as the database component of the website, allowing Cushion House to store and manage its product and customer data.

List of Keywords

- Customer
- Owner
- Supplier
- Delivery Person

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List of Acronyms and Abbreviation

- NIBM – National Institute of Business Management
- DCSD – Diploma in Computer System Design
- PK - Primary Key
- FK - Foreign Key
- HTML – Hypertext Markup Language
- UML – Unified Modeling Language
- SQL - Structured Query Language.
- UI – User Interface

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Thank you.

CHAPTER 1: Introduction

1.1 Introduction to Website

Cushion House is a leading provider of premium luxury furniture solutions in Sri Lanka, established in 2019. The company is renowned for its exceptional standards of craftsmanship and attention to detail, earning it a reputation as a leader in the modern furniture and sofa manufacturing industries.

At Cushion House, customers can find a vast selection of top-quality furniture pieces to suit any style and taste. From stylish and functional bedroom furniture sets, to elegant dining room sets and coffee tables, and a wide range of modern sofas, Cushion House has everything you need to bring your home to life.

With its own store and warehouse located in Piliyandala, Cushion House is committed to making its products accessible to customers across Sri Lanka and beyond. The company leverages the power of social media marketing to connect with its customers and showcase the beauty and versatility of its products, using platforms such as Facebook, Instagram, and Twitter to reach a wide audience.

At Cushion House, customer satisfaction is a top priority. The company strives to deliver the best possible customer experience by offering high-quality products, exceptional service, and a commitment to excellence in all that it does. So, if you're looking to make a statement with your home furnishings, or simply in search of stylish and functional furniture that will last a lifetime, Cushion House is the perfect choice.

1.2 Organizational Structure

- The Organizational Structure (OS) of an organization plays a crucial role in determining how its resources are used to achieve its business objectives. At Cushion House, the company adopts a flat organizational structure, which is ideal for companies with limited levels of management and a large number of staff employees.
- The flat organizational structure of Cushion House is designed to streamline the flow of work and information throughout the company, ensuring that each member of the organization is aware of their roles and responsibilities. This structure promotes efficient collaboration and teamwork, enabling Cushion House to achieve its business objectives effectively and efficiently.
- With clearly defined roles and responsibilities, staff members at Cushion House are empowered to make decisions and take ownership of their work, contributing to the overall success of the company. This structure also encourages open communication, allowing for better problem-solving and the development of new ideas and innovative solutions.
- In conclusion, the flat organizational structure at Cushion House is a key factor in its ability to deliver high-quality products and services to its customers. By promoting collaboration, teamwork, and efficient decision-making, the company is able to achieve its business objectives and remain a leader in the luxury furniture industry.

1.3 Current Operations in Organization

The three main operations of this organization are as follows

- Cushion House is a luxury furniture manufacturer and solution provider, renowned for its high-quality products and services. The company operates in three main areas - manufacturing, marketing, and sales - each of which is critical to the success of the business.
- Manufacturing - is the backbone of Cushion House's operations. The company takes great pride in producing furniture sets and sofas of the highest quality while maintaining cost-effectiveness. The focus on quality and affordability sets Cushion House apart from its competitors, ensuring that customers receive the best value for their money.
- Marketing - plays a crucial role in promoting Cushion House's products and services. The company leverages various social media platforms to reach a wide audience and showcase its offerings. By creating pages and accounts dedicated to the business, Cushion House is able to effectively communicate its product and service offerings to potential customers.
- Sales - is another key operation of the company. Cushion House sells its products through a combination of online channels and in-person sales at its physical store. Customers can easily browse and purchase products through social media, or visit the store to experience the products firsthand. This flexible and convenient approach to sales allows Cushion House to reach a broad customer base and meet the demands of the market.
- In conclusion, the manufacturing, marketing, and sales operations of Cushion House are essential to its success. By focusing on quality, affordability, and customer

satisfaction, the company is able to maintain its position as a leader in the luxury furniture industry.

1.4 Responsibilities of the administrator in the management of the Cushion House ecommerce website

The Cushion House ecommerce website is managed by an administrator, who is either the owner of the business or another designated person. The administrator is responsible for overseeing the product catalog, processing orders, and managing deliveries on the website. They also have the ability to respond to customer reviews and ensure that customer inquiries and complaints are handled in a timely and satisfactory manner. This person plays a crucial role in the operation and management of the website, ensuring that it is running smoothly and efficiently.

1.5 Problem Definition

- As a result of the pandemic, we faced in the past few years cushion house expanded their sales from physical store to social media marketing, as result of their excellent customer service and quality of products it is harder to satisfy all their customer orders and requests as expected only through the use of social media marketing e.g.- when a large number of customers must contact merchant only through social media and wait for a response it's hard to cater everyone and satisfy their needs solely through social media.
- Especially when providing services like customizing products it is harder to satisfy all customers who come up with new designs manually.
- Maintaining a physical store in present is costly and as a result of high customer base in the online market the owner wishes to invest and step into much convenient cost-effective online market place where he can minimize wastage and focus more on the warehouse and production place.

- Managing stock levels predicting stock levels needed before hand and tracking stock levels effectively are some poor management points cushion house face in the present as it is done manually. Not being able back track raw material usage as manual data and reports are not durable and can be lost or misplaced any moment.

1.6 Project objectives

The objective of the Cushion House ecommerce website project is to create a user-friendly and visually appealing online platform for customers to browse and purchase a wide range of sofas and furniture items for their homes. The website will feature a range of sofas and furniture in different sizes, and materials, as well as detailed product information and images to help customers make informed purchasing decisions.

The website will also feature a secure and efficient checkout process, allowing customers to easily purchase cushions and track their orders. Additionally, the website will provide customers with the option to create an account to save their billing and shipping information for future purchases, as well as the ability to leave reviews and ratings for products.

Overall, the goal of the Cushion House ecommerce website is to provide a convenient and enjoyable shopping experience for customers, leading to increased sales and customer satisfaction for the business.

The objectives of the system will be providing the following features: -

System Functionality	Description
Register	Allows the customer to create a new account on the website.
Browse Product	Allows the customer to browse and view the different cushion products available on the website.
Manage Carts	Allows the customer to add or remove products from their

	shopping cart, as well as view the contents of their cart.
Place Orders	Allows the customer to submit an order for the products in their shopping cart.
View Invoice	Allows the customer to view a summary of their order, including the total cost and shipping details.
Pay	Allows the customer to make a payment for their order using a secure payment method.
Return Product	Allows the customer to request a return or exchange for a product they have purchased.
Edit Profile	Allows the Customer, Owner, Delivery Person edit profile details.
Add products to wish list	Allows the customer to save a product to a list for future reference or purchase.
Remove Products from Wishlist	Allows the customer to remove a product from their wishlist.
Submit Feedback	Allows the customer to leave a review or rating for a product they have purchased.
Remove Feedback	Allows the customer to delete a review or rating they have left for a product.
Login	Allows the customer, Owner and Delivery Person to access their account on the website.
Update Delivery Person Status	Allows the delivery person to update their availability or status (e.g. on duty, off duty).
Update Delivery Status	Allows the delivery person to update the status of a delivery.
View Assign Order Details	Allows the delivery person to view the details of an order that has been assigned to them for delivery.
View Assign Order Invoice	Allows the delivery person to view the invoice for an order that has been assigned to them for delivery.
Manage Delivery Person Profile	Allows the delivery person to update their personal information and account settings.

Add Product	Allows the owner to add new cushion products to the website.
Update Product	Allows the owner to edit the details or information of an existing product.
Delete Product	Allows the owner to remove a product from the website.
Register Walking Customer	Allows the owner to register a customer who is visiting the physical store.
Place Walking Customer Order	Allows the owner to place an order for a customer who is visiting the physical store.
Enter Walking Customer Customize inquiry	Allows the owner to enter a custom modification request for a customer who is visiting the physical store.
Enter Walking Customer Payment Details	Allows the owner to enter the payment information for a customer who is visiting the physical store.
View Order	Allows the owner to view the details of an order placed on the website.
Assign Delivery Person	Allows the owner to assign an order to a specific delivery person for fulfillment.
Update Order Status	Allows the owner to update the status of an order (e.g. processing, shipped).
View Customize Inquiry	Allows the owner to view custom modification requests from customers.
Accept Customize Inquiry	Allows the owner to approve a custom modification request from a customer.
Decline Customize Inquiry	Allows the owner to reject a custom modification request from a customer.
Generate Customer Invoice	Allows the owner to create an invoice for a customer's order.
Update Cash settlement status	Allows the owner to update the status of a cash payment (e.g. settled, outstanding).
Register Delivery Person	Allows the owner to add a new delivery person to the website.
Remove Delivery Person	Allows the owner to remove a delivery person from the website.
Generate Purchase Order	Allows the owner to create a purchase order for products from a supplier.

Generate Good Received note	Allows the owner to create a document acknowledging receipt of goods from a supplier.
Enter Supplier Details	Allows the owner to add information about a new supplier to the website.
Edit Supplier Details	Allows the owner to update the information of an existing supplier.
Delete Supplier Details	Allows the owner to remove a supplier from the website.
Manage Product Model	Allows the owner to add, edit, or delete product model options (e.g. square, round).
Manage Product Size	Allows the owner to add, edit, or delete product size options (e.g. small, medium, large).
Manage Product Fabric	Allows the owner to add, edit, or delete product fabric options
Manage Product Type	Allows the owner to add, edit, or delete product type options (e.g. indoor, outdoor).
Manage Product Timber	Allows the owner to add, edit, or delete product timber options (e.g. oak, pine).
Generate Report	Allows the owner to generate various reports on the website's sales, customers, and products.
Reply Customer Feedback	Allows the owner to respond to a customer's review or rating for a product.

1.7 Propose Solution

- The proposed solution for Cushion House is to implement an ecommerce website. This platform will allow customers to browse and purchase a wide range of cushions online, as well as request custom modifications through a "design your dream sofa" feature. The website will also provide a secure and efficient checkout process, allowing customers to easily track their orders and make payments.
- In addition to providing a convenient shopping experience for customers, the ecommerce website will also benefit the business by allowing them to easily manage and track orders, as well as maintain and monitor stock levels through an automated stock management system. This system will generate a purchase order list and send it to the owner when stock levels drop below a certain threshold, based on order history.
- Overall, the ecommerce website will provide a necessary upgrade for Cushion House, allowing them to expand their product range and reach a wider audience, while also streamlining their operations and increasing customer satisfaction.

Following are few benefits of the proposed solution: -

There are many advantages to using an e-commerce website for a business-like Cushion House. Some of the benefits include:

- Convenience: Customers can shop online at their convenience, without the need to visit a physical store. This is especially helpful for customers who live far away or have busy schedules.
- Faster buying process: Customers can easily browse and purchase items on the website, saving time compared to physically shopping in a store.
- Analytics: E-commerce websites often have built-in analytics tools that allow merchants to track sales, customer demographics, and other

important data. This can help the business make informed decisions about its products and marketing efforts.

- Faster response to buyer demands: An e-commerce website allows the business to quickly process orders and deliver them to customers, improving the overall shopping experience.
- Customer reviews: Customers can leave reviews on the website, providing valuable feedback and helping other customers make informed purchasing decisions.
- Higher reach of customer base: An e-commerce website allows the business to reach a wider audience, including customers who may not be able to visit a physical store. This can help the business grow and expand its customer base.

1.8 Chapter Summary

- The purpose and responsibilities of the Cushion House ecommerce website project are to create an online platform that allows customers to easily browse and purchase a wide range of cushions and furniture products. This includes providing detailed product information and images, a secure and efficient checkout process, and the ability for customers to track their orders. The website will also have a custom design feature that allows customers to create their own unique cushion designs.
- The problem that the Cushion House ecommerce website project aims to solve is the difficulty in satisfying customer orders and requests solely through social media marketing, as well as the challenges of maintaining a physical store and manually managing stock levels. The ecommerce website aims to provide a cost-effective and convenient online marketplace for Cushion House to sell their products, while also improving their ability to manage stock levels and track raw material usage through the use of automated systems.

- The objectives of the project include creating a user-friendly and visually appealing website, expanding Cushion House's online presence and customer base, improving customer satisfaction through the convenience of online shopping and the ability to customize products, and streamlining the business operations of Cushion House through the use of automated systems for stock management and raw material tracking.

CHAPTER 2: Methodology

2.1 Introduction

- Before beginning work on the proposed solution, the team carefully planned and prepared for the project. This included identifying the problem that Cushion House was facing with their current sales and marketing operations and determining the objectives of the project. Research was conducted on the needs and preferences of the target audience and the capabilities and limitations of the project team were assessed.
- Overall, the planning and development of the Cushion House ecommerce website project required careful consideration of the needs and preferences of the target audience, the capabilities and limitations of the project team, and the most appropriate tools and technologies for the project.
- In this chapter, we will discuss the planning process, methodologies, and software development approaches that were used in the Cushion House ecommerce website project.

2.2 Data Collection Method

Here are the methods that were used to collect data from customers and other parties to build the successful Cushion House e-commerce platform:

- **Surveys:** Surveys were conducted online and through email to gather information from customers about their preferences and behaviors when shopping for furniture and sofas. This data was used to inform the design and features of the website, as well as to identify any potential issues or areas for improvement.
- **Interviews:** Interviews were conducted with key stakeholders, including the owner of Cushion House and members of the marketing and sales teams, to gather insights and ideas for the website. These interviews helped to shape the direction of the project and ensure that the website met the needs and goals of the business.

- **Focus groups:** Focus groups were held with a small group of customers to discuss their experiences with the current sales and marketing operations of Cushion House and their expectations for the e-commerce platform. This data helped to identify key features and functionality that should be included in the website.
- **Online reviews and ratings:** The team analyzed online reviews and ratings of Cushion House products and services to gather insights into customer experiences and preferences. This data was used to inform the design and content of the website and to identify any potential issues that needed to be addressed.
- **Customer service inquiries:** The team analyzed customer service inquiries to gather data on common issues or areas for improvement in the current sales and marketing operations of Cushion House. This data helped to inform the design and functionality of the e-commerce platform and ensure that it met the needs of customers.

2.3 Software Process Model

The Agile software development model is an iterative and incremental approach that emphasizes flexibility and adaptability in response to changing requirements. In the Agile model, the project is divided into small, iterative cycles called "sprints," each of which focuses on a specific set of tasks or features. At the end of each sprint, the team reviews and evaluates the progress of the project and adjusts the plan as necessary.

The Agile model is characterized by the following values and principles:

- **Individuals and interactions:** Agile prioritize the importance of individuals and their interactions in the development process. This means that the team should be empowered to make decisions and collaborate effectively.

- **Working software:** Agile emphasizes the importance of delivering working software to customers as quickly as possible. This means that the team should focus on delivering functional and usable software, rather than striving for perfection.
- **Customer collaboration:** Agile emphasizes the importance of collaboration with customers throughout the development process. This means that the team should work closely with customers to gather feedback and adjust the project as needed.
- **Responding to change:** Agile recognizes that requirements and priorities can change throughout the development process, and the team should be prepared to adapt and respond to these changes.

Overall, the agile model is a flexible and adaptable approach to software development that can help ensure that the Cushion House e-commerce platform meets the needs and goals of the business.

Benefits of Agile Development

There are several benefits to using the agile development model to build the Cushion House e-commerce website:

- **Faster delivery:** The iterative nature of the agile model allows for faster delivery of working software to customers. This means that the team can begin gathering feedback and adjusting the website sooner, rather than waiting until the end of the project.
- **Increased flexibility:** The Agile model allows for flexibility and adaptability in response to changing requirements. This means that the team can adjust the plan as needed to meet the evolving needs and goals of the business.

- **Improved collaboration:** The Agile model emphasizes the importance of collaboration with customers and the development team. This can lead to better communication and more effective problem-solving.
- **Enhanced quality:** The Agile model emphasizes continuous testing and evaluation, which can lead to improved quality and stability of the website.
- **Greater customer satisfaction:** By gathering customer feedback and adjusting the website throughout the development process, the Agile model can help ensure that the final product meets the needs and expectations of the customers.
- Overall, the Agile development model can provide numerous benefits to the Cushion House e-commerce website project, including faster delivery, increased flexibility, improved collaboration, enhanced quality, and greater customer satisfaction.



2.4 Software Development Tools

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

- **Figma**



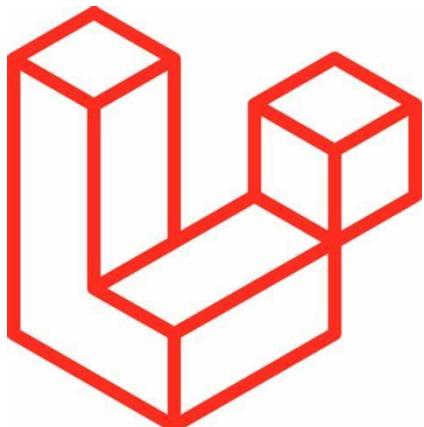
Figma is a cloud-based design and prototyping tool that allows teams to collaborate on design projects in real time. We used Figma to create wireframes and mockups of the Cushion House platform, which helped us visualize and plan the layout and functionality of the site.

- **HTML, CSS, Java Script**



These are all programming languages that are used to build the frontend 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.

2.5 Testing Strategies

Software testing strategies are the plans and approaches used to ensure the quality and functionality of a software product. These strategies help to identify and correct defects in the software, as well as to verify that the software meets the requirements and expectations of the end user.

- **Static testing:** Static testing is a type of testing that involves examining the code or design of the software without actually executing it. This can include activities such as code review, inspection, and verification. We implemented static testing by performing code reviews and inspections on the Cushion House codebase to ensure that it was well-written and free of defects.
- **Structural testing:** Structural testing is a type of testing that involves testing the internal structure and behavior of the software, rather than its external functionality. This can include activities such as testing individual units or components, integration testing, and testing how different parts of the software work together. We implemented structural testing by building and testing individual units and components of the Cushion House platform, as well as testing how they interacted with each other.
- **System testing:** System testing is a type of testing that involves testing the entire system as a whole, including all of its components and their interactions. We implemented system testing by testing the Cushion House platform in its entirety, including all of its features and functionality.

Behavioral testing

Behavioral testing is a type of testing that involves testing the behavior of the software under different conditions. This can include activities such as usability testing, performance testing, and acceptance testing. We implemented behavioral testing by conducting usability tests to ensure that the Cushion House platform was easy to use, as well as performance tests to ensure that it was able to handle a large volume of traffic and transactions.

Overall, these testing strategies helped us to ensure that the Cushion House ecommerce website was of high quality and met the needs of our users.

2.6 Implementations Plan

- An implementation plan is a document that outlines the steps and resources needed to successfully implement a new system or process. An implementation plan is required because it helps to ensure that the implementation process is well-organized and efficient, and that all stakeholders are aware of their roles and responsibilities. It also helps to minimize the risk of errors or delays, and to ensure that the final product meets the goals and objectives of the project.
- Parallel implementation is a method of implementing a new system or process alongside the existing system or process, rather than replacing it completely. This can be a useful approach when transitioning from one system to another, as it allows the new system to be tested and refined while the old system is still in place.
- As discussed with the client our plan is to use Parallel implementation method to implement Cushion House ecommerce website. This Method will minimize any risk in sales impact until all stake holders get use to the new platform.

2.7 Chapter Summary

- The Cushion House ecommerce website project team gathered data from customers and stakeholders using methods such as surveys, interviews, focus groups, online reviews, and customer service inquiries
- The project team used the Agile software development model, which is an iterative and incremental approach that emphasizes flexibility and adaptability
- The project team used tools such as Figma, HTML, CSS, JavaScript, Laravel, and MySQL in the development process
- The data and tools were used to inform the design and functionality of the website and ensure that it met the needs and preferences of the target audience

CHAPTER 3: Analysis

3.1 Introduction

- The analysis phase is a stage in software development where the project team gathers and examines information in order to understand the business needs and goals of the project, as well as any constraints or limitations that must be taken into account.
- During the analysis phase, we conducted interviews with stakeholders, reviewed relevant documentation, and created prototypes or models to help visualize the proposed solution indeed as mentioned in chapter 2 we also gathered required information using several methods accordingly.
- By thoroughly analyzing these requirements and constraints, the team was able to ensure that the final solution would be feasible to implement and would meet the needs of stakeholders.
- It is important to carefully document and communicate the results of the analysis phase, as this helps ensure that the project is properly scoped and that all stakeholders have a clear understanding of what is being built. Taking all these factors into consideration the designed the following diagrams.

3.2 UML Diagram

Figure 01: Use Case Diagram of Current System

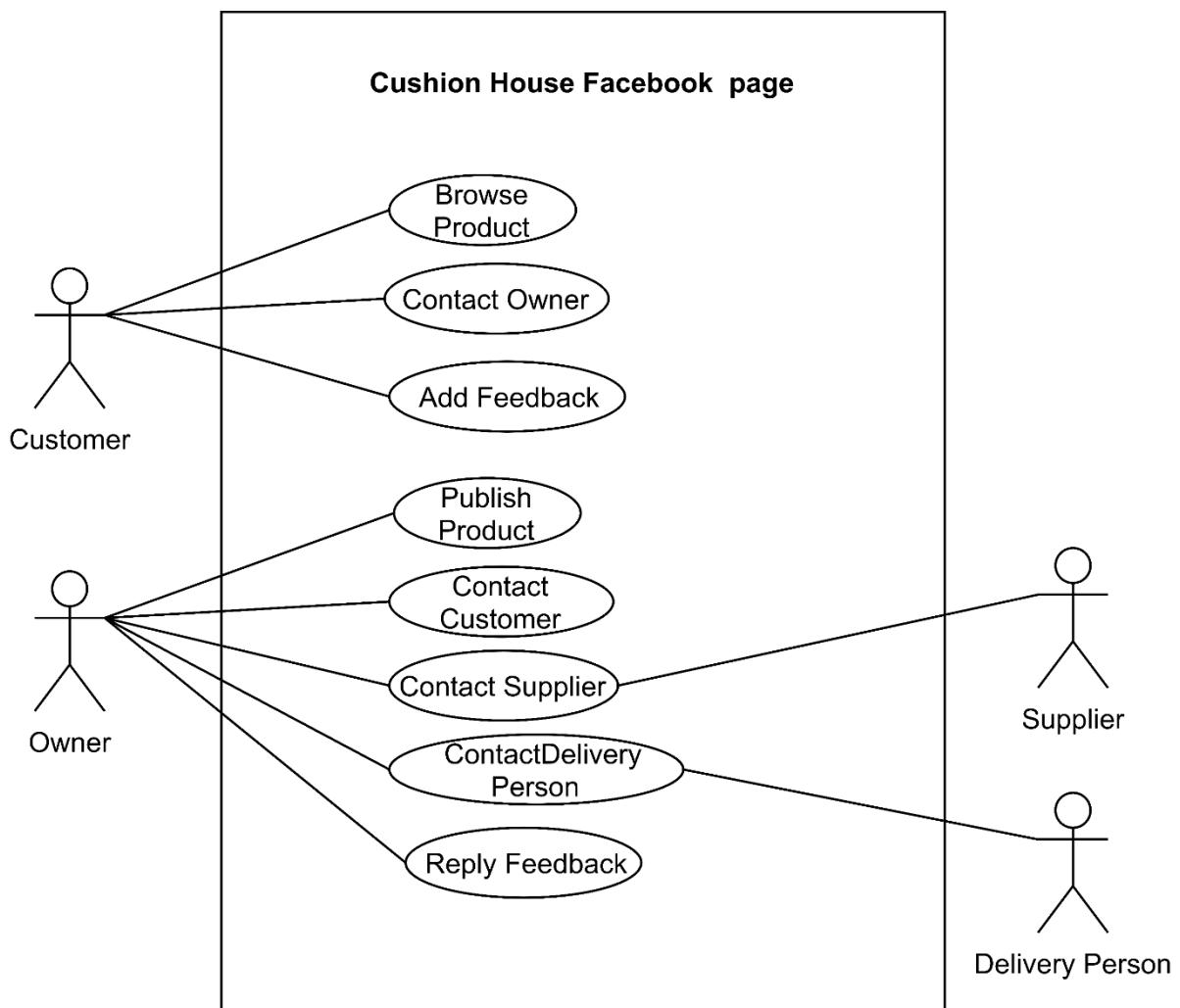


Figure 02: Use Case Diagram of Proposed System

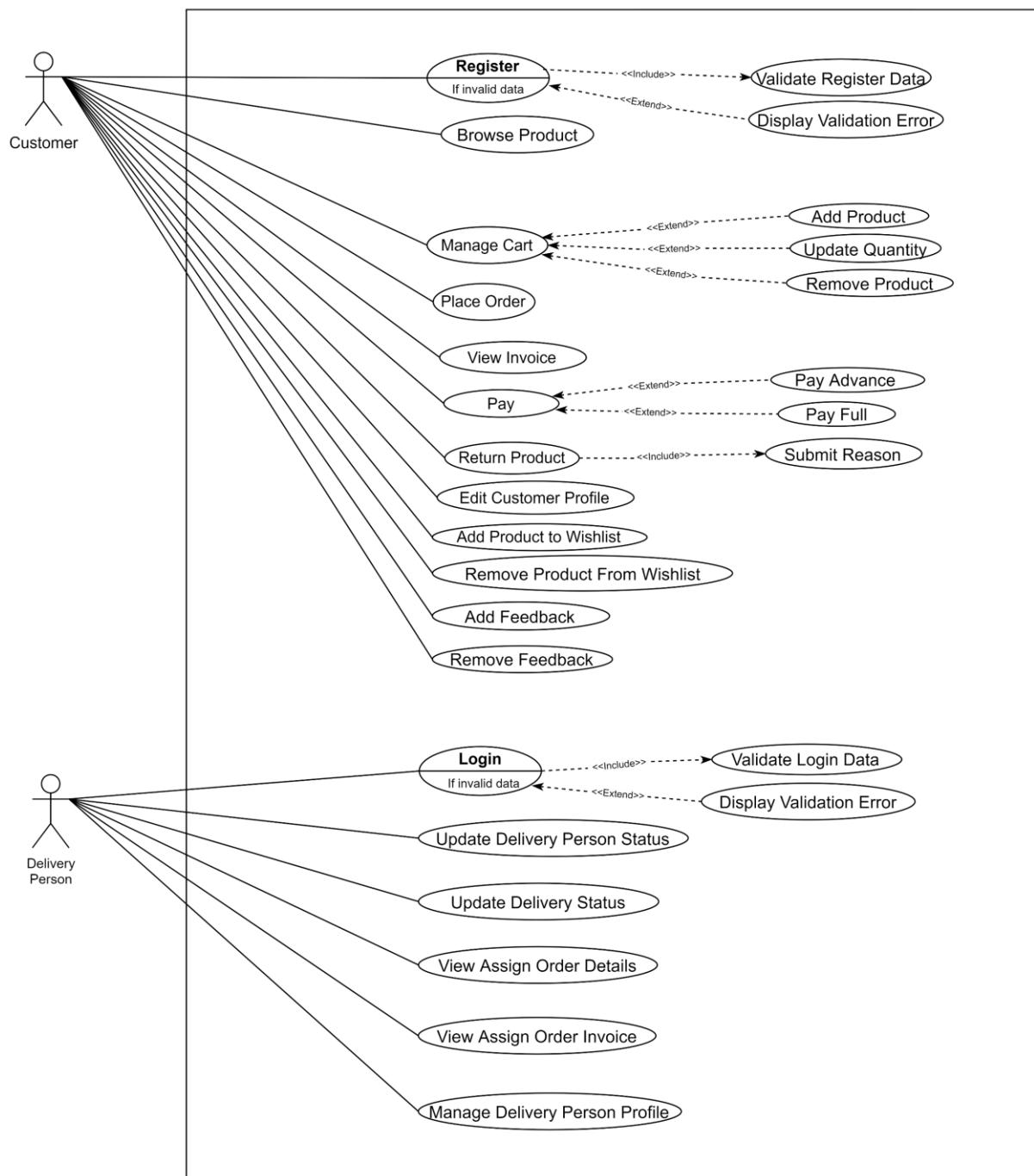


Figure 02: Use Case Diagram of Proposed System (Cont.)

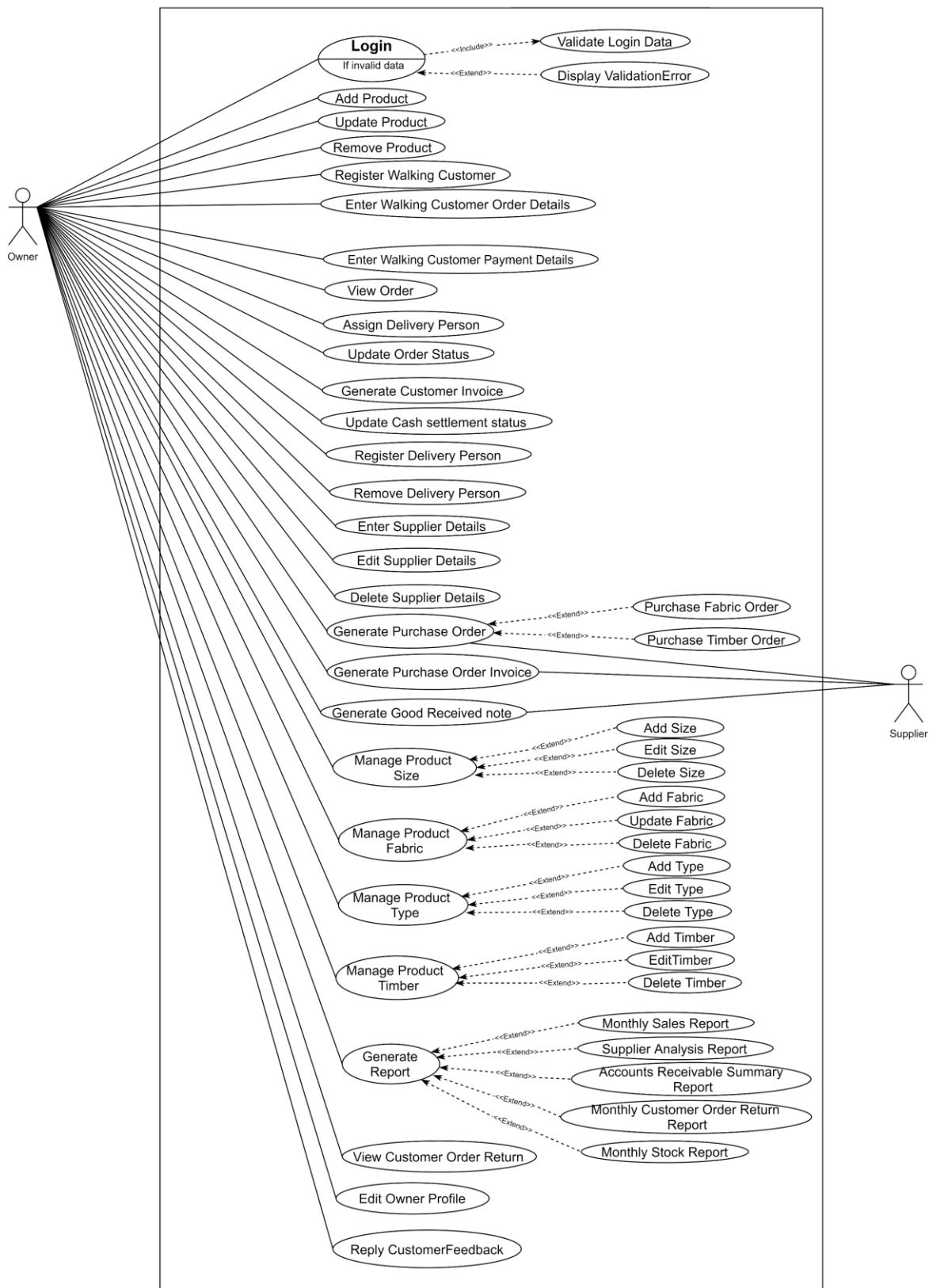
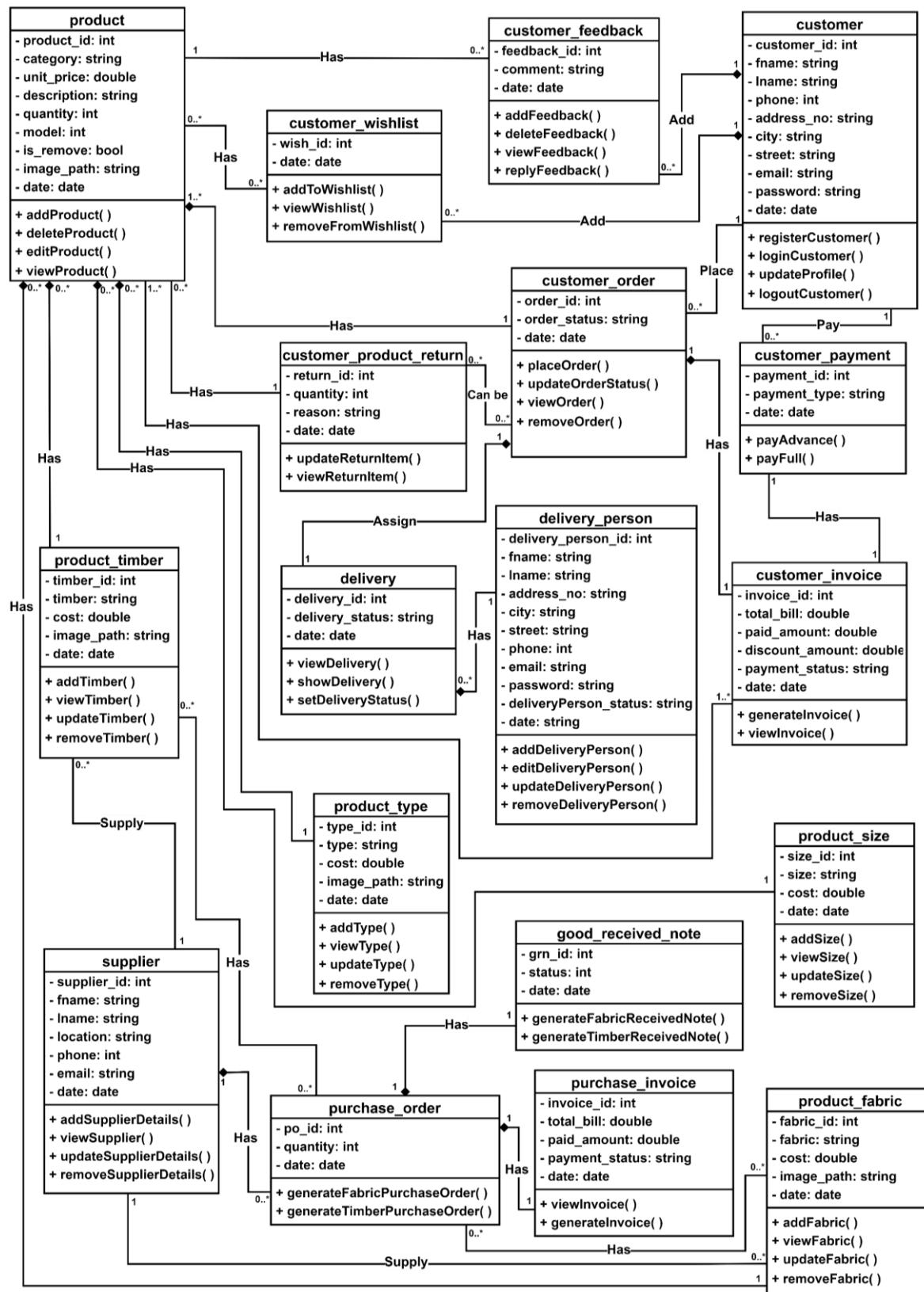


Figure 03: Class Diagram of Proposed System



Sequence Diagrams

Customer

Figure 01: Register Customer

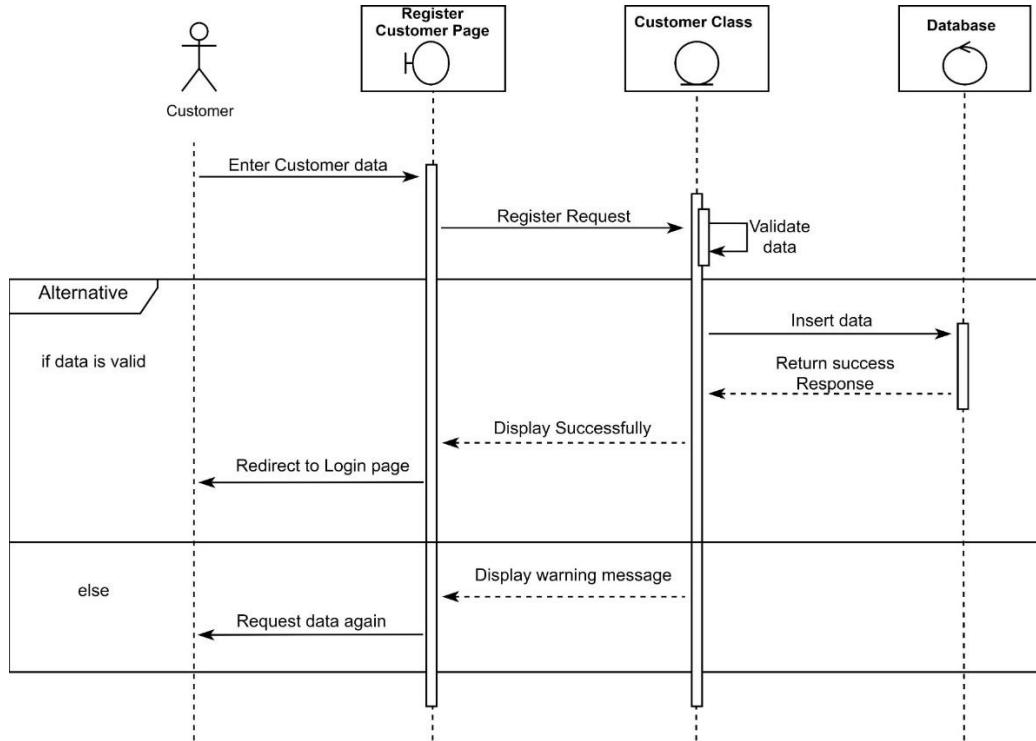


Figure 02: Customer Manage Cart - Add Product

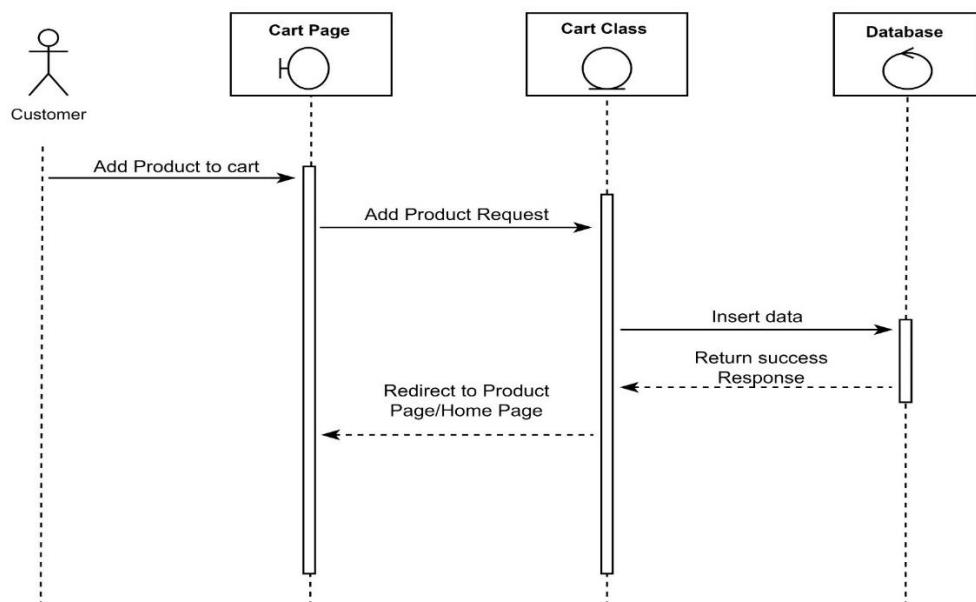


Figure 03: Customer Manage Cart - Update Product Quantity

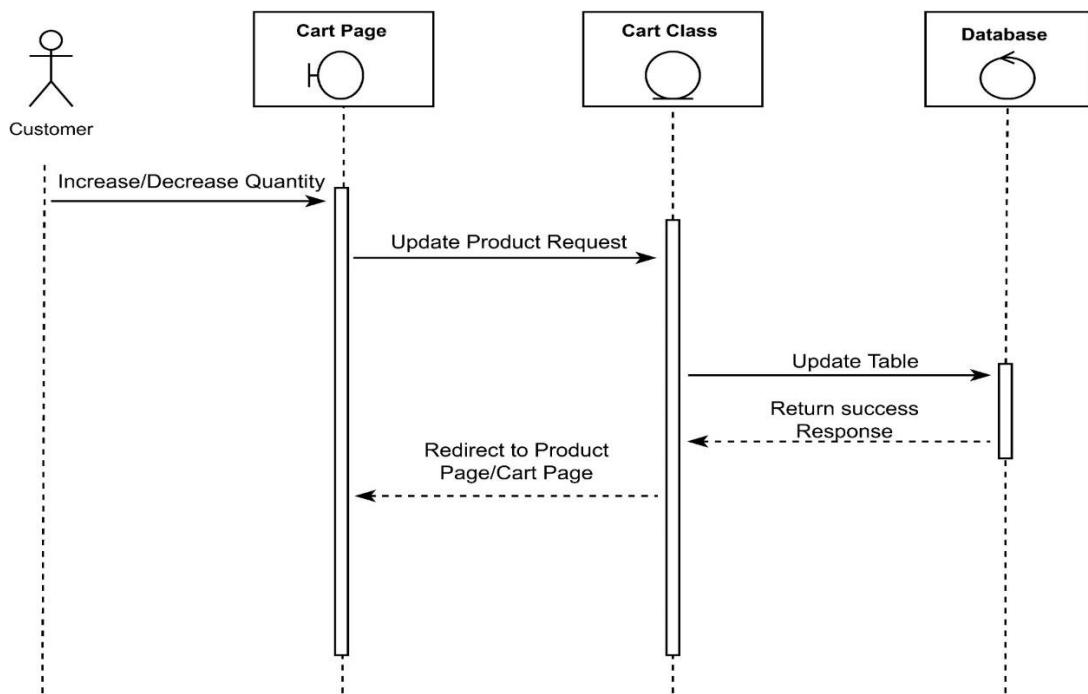


Figure 04: Customer Manage Cart - Remove Product

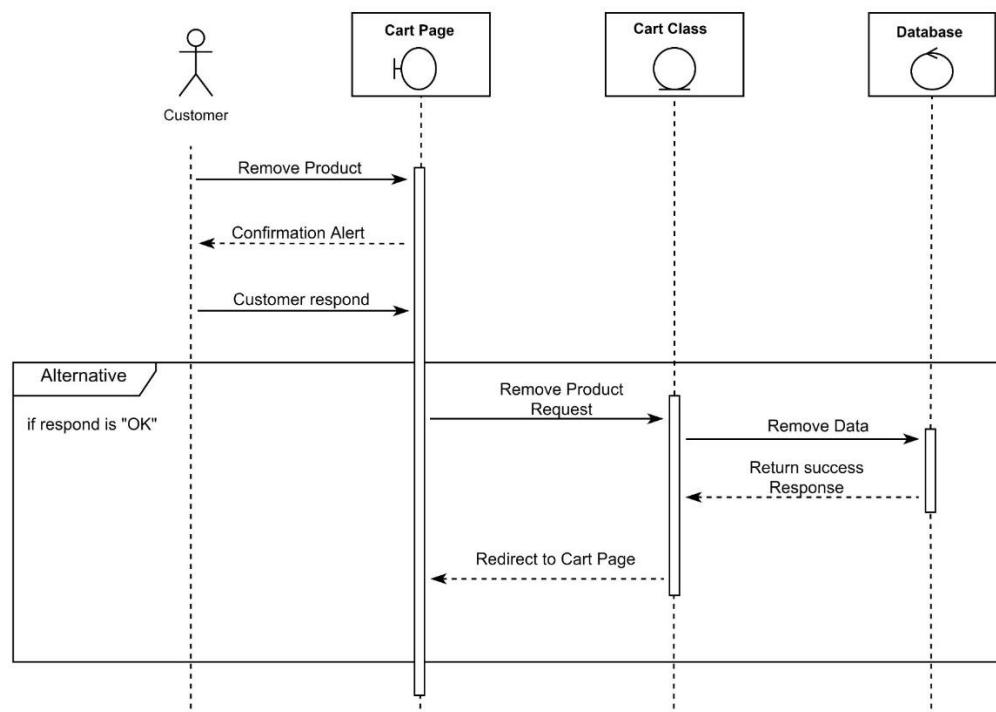


Figure 05: Place Order

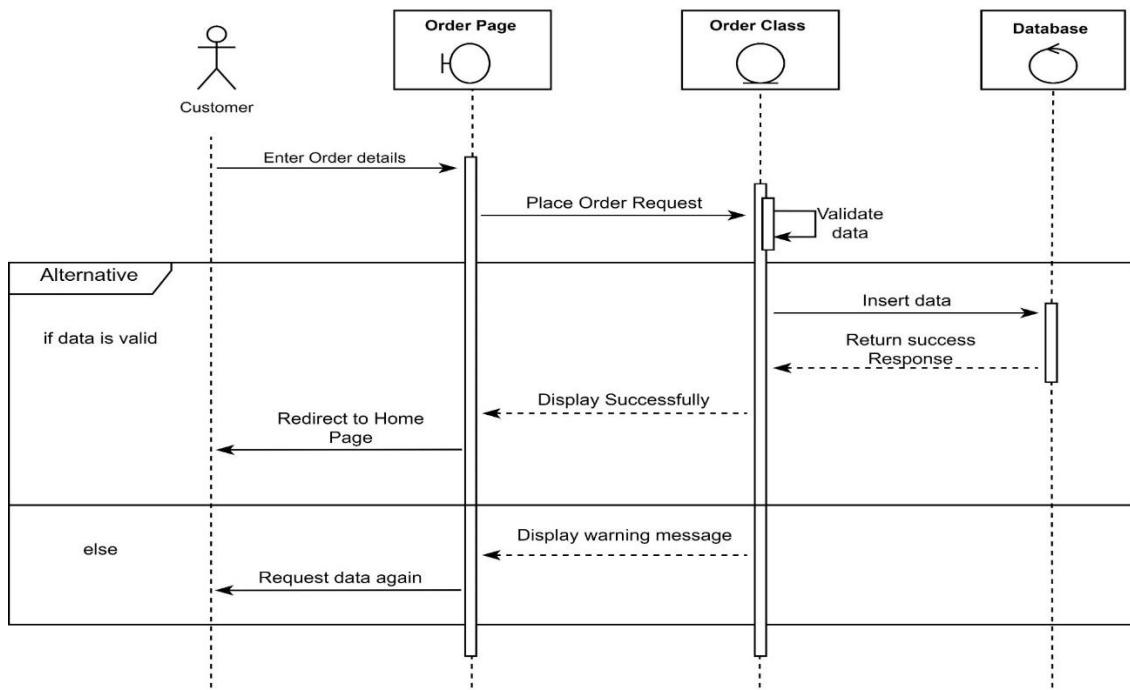


Figure 06: View Invoice

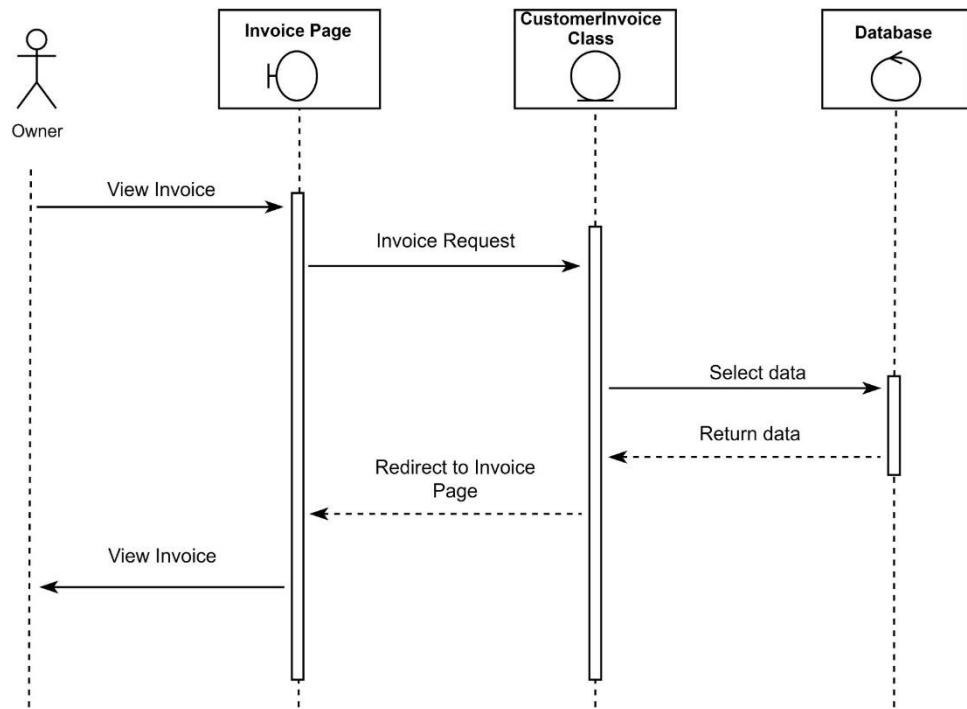


Figure 07: Pay Customer Payment

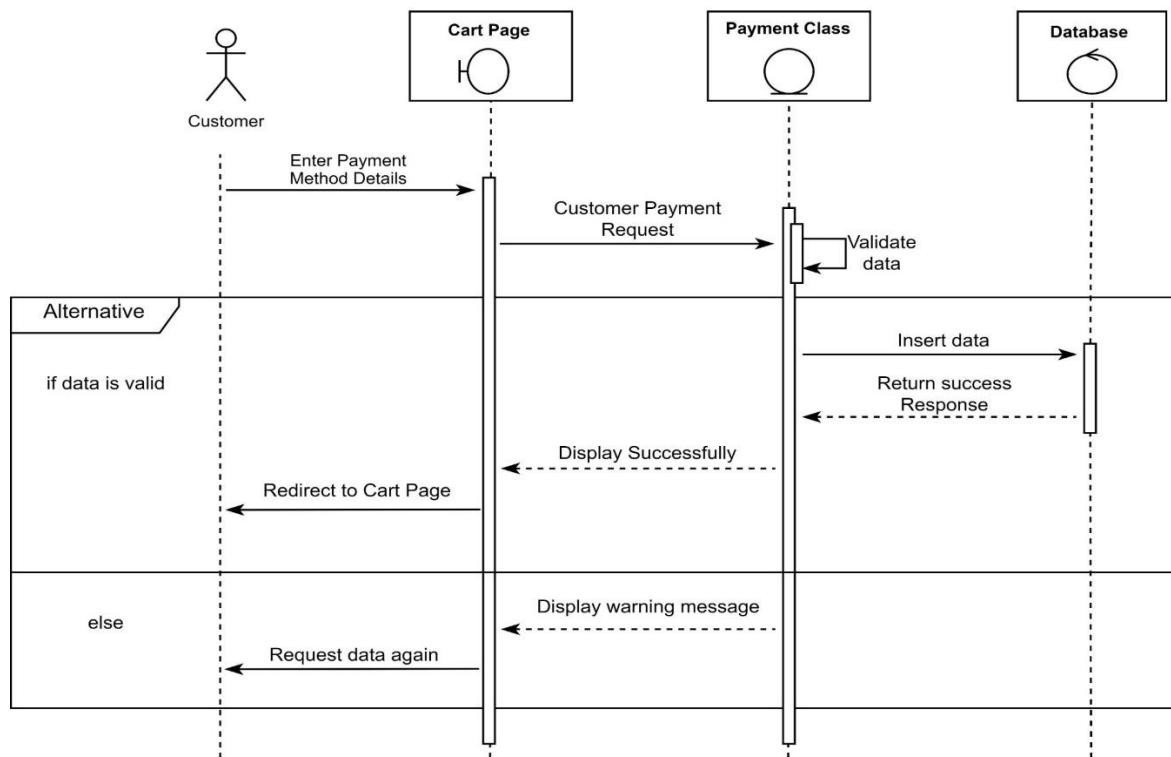


Figure 08: Return Product

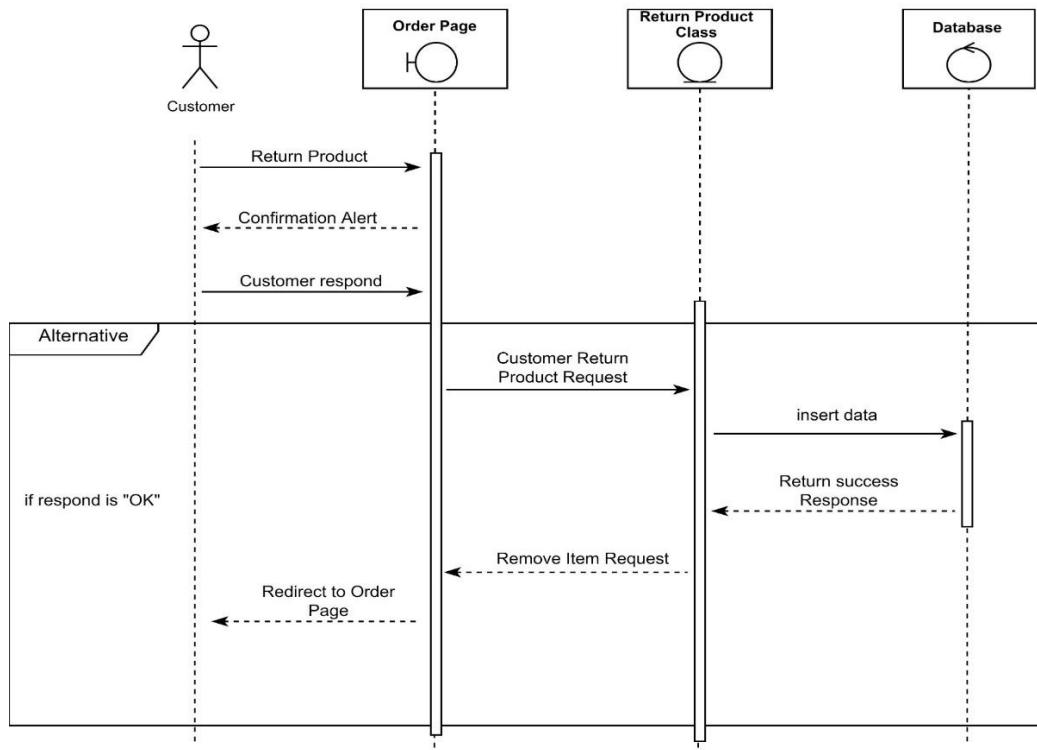


Figure 09: Update Customer Profile

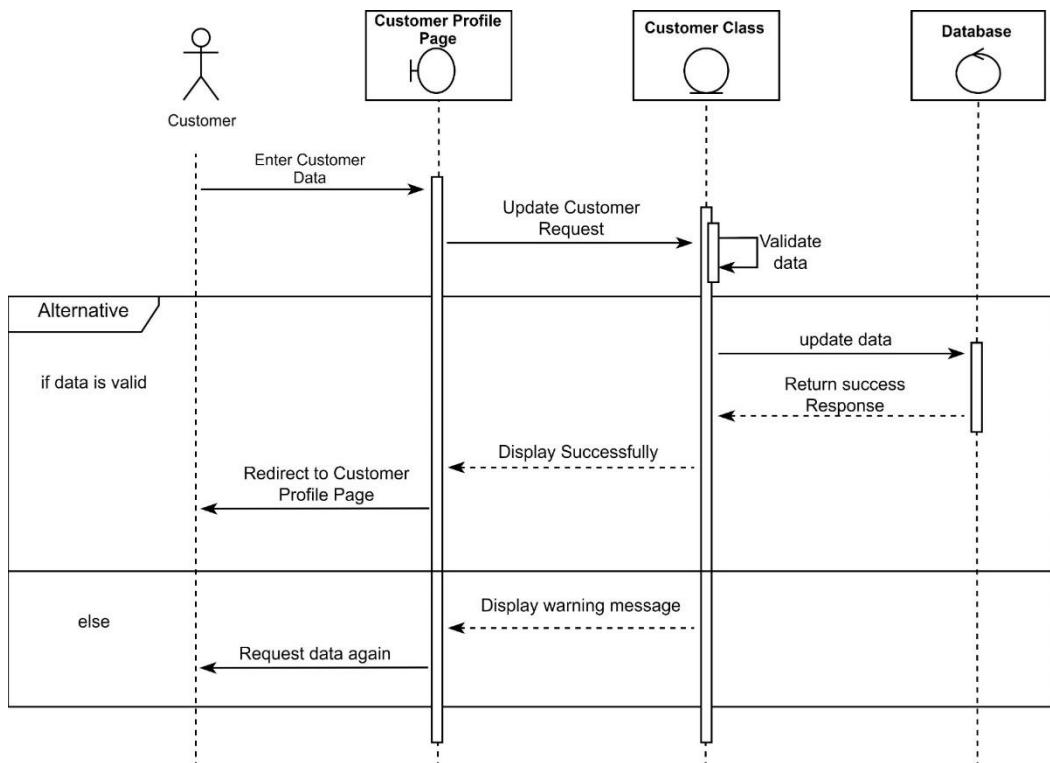


Figure 10: Manage Wishlist – Add Product to Wishlist

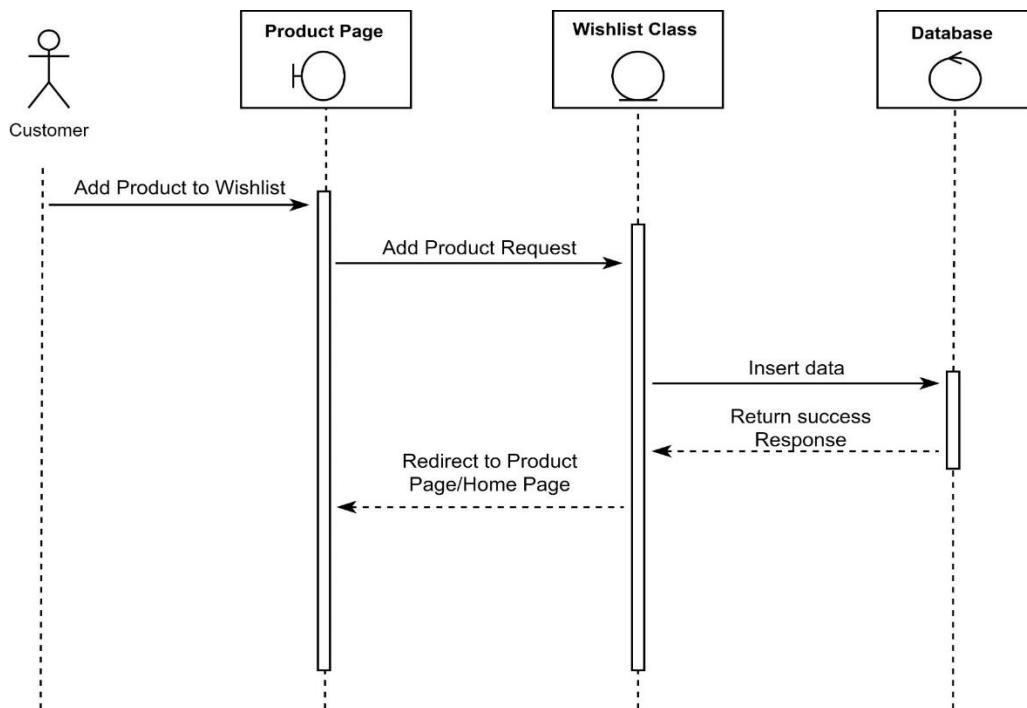


Figure 11: Manage Wishlist – Remove Product from Wishlist

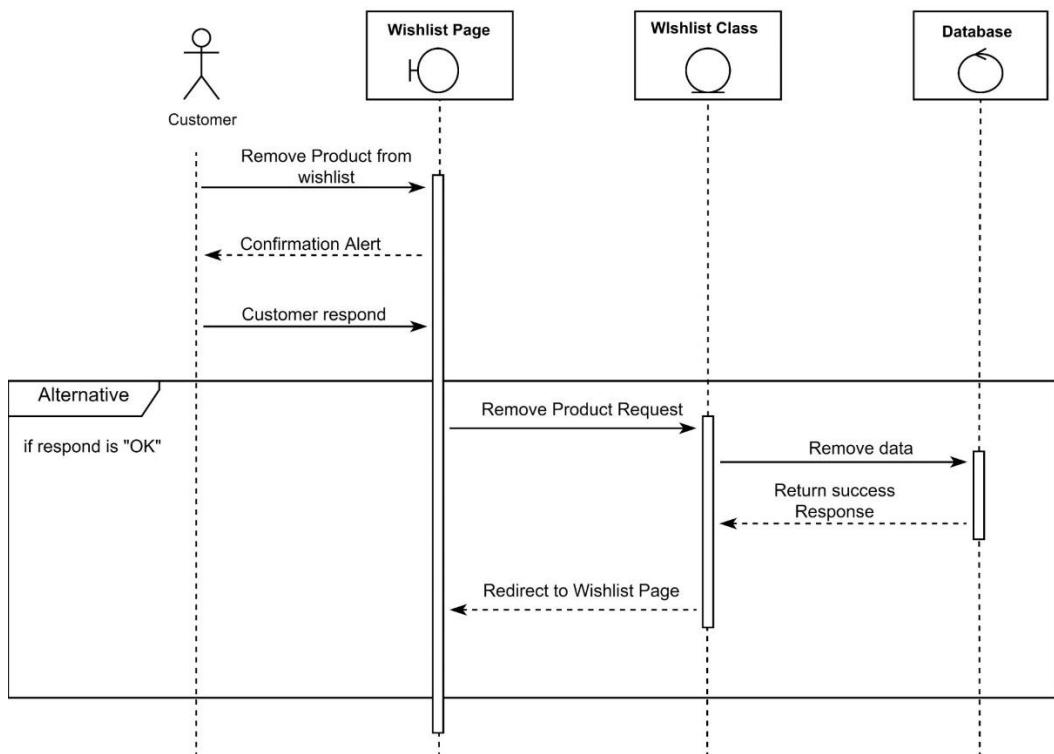


Figure 12: Manage Feedback – Add Feedback

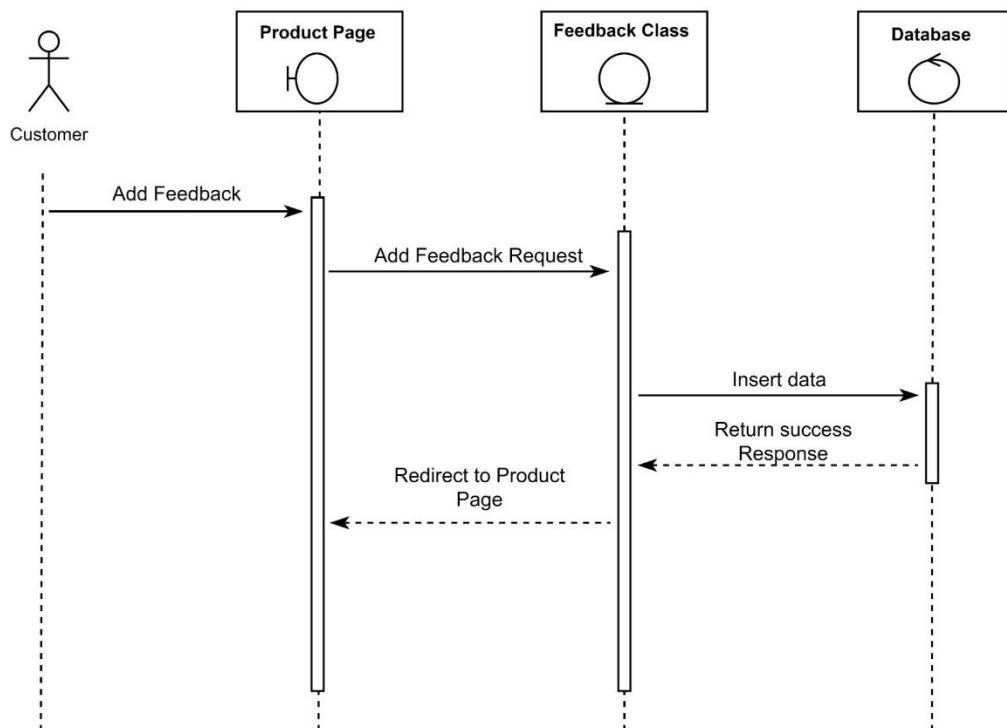
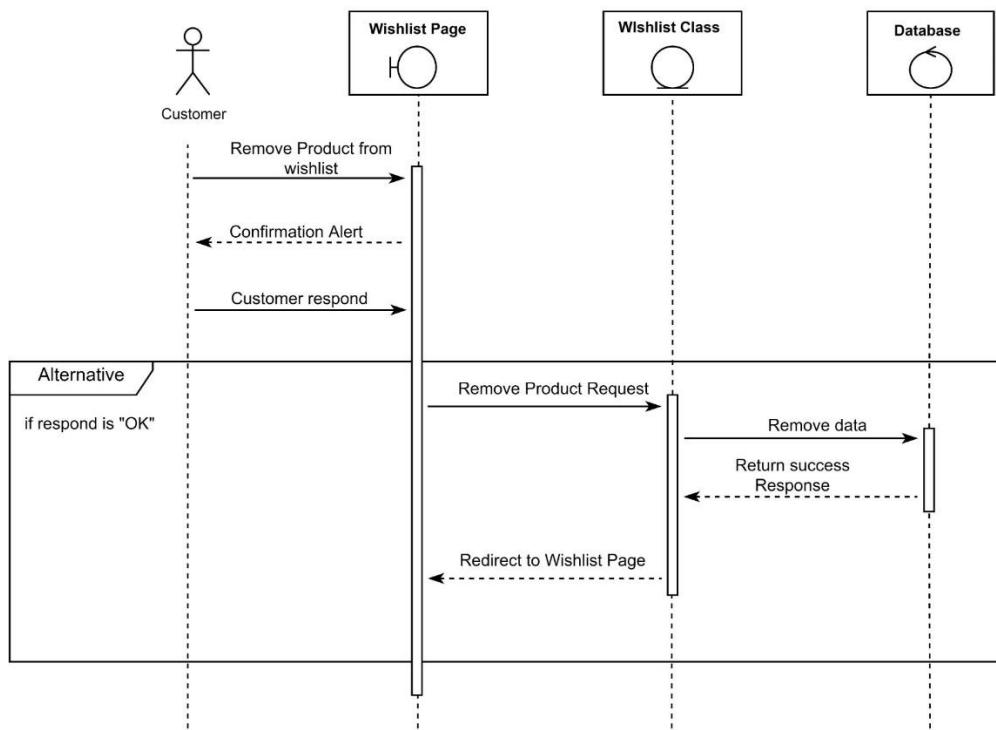


Figure 13: Manage Feedback – Remove Feedback



Delivery Person

Figure 14: Login Delivery Person

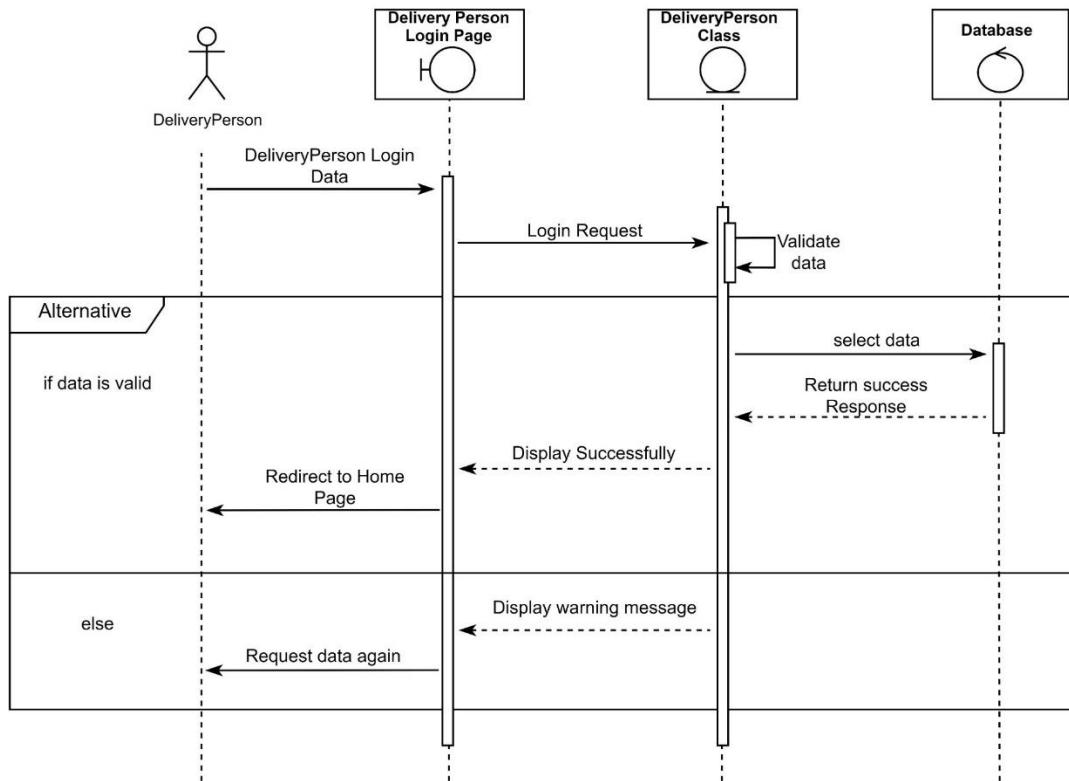


Figure 15: Update Delivery Person Status

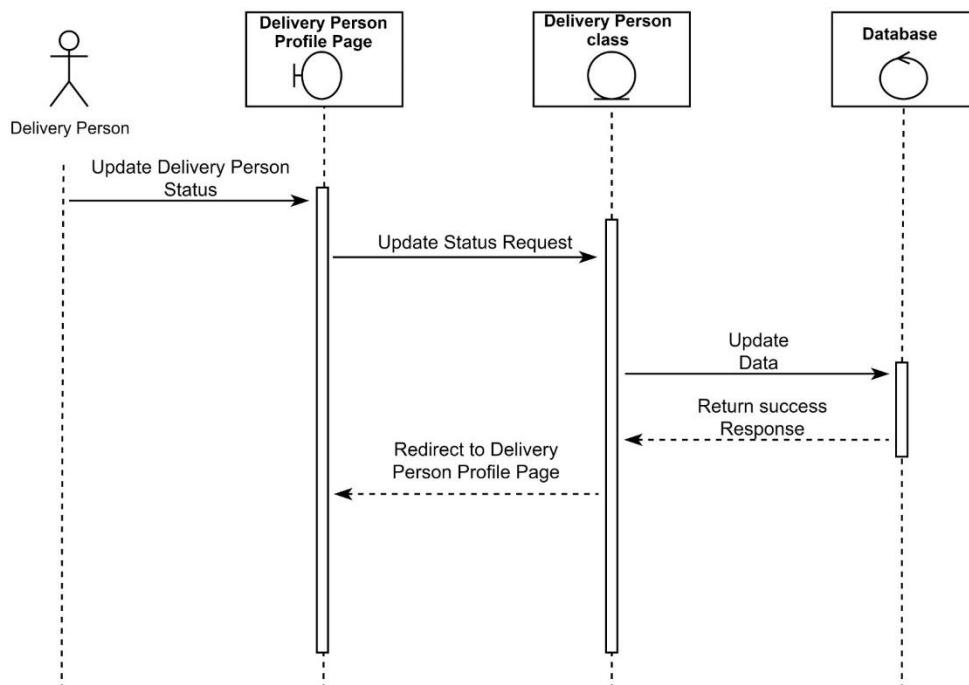


Figure 16: Update Delivery Status

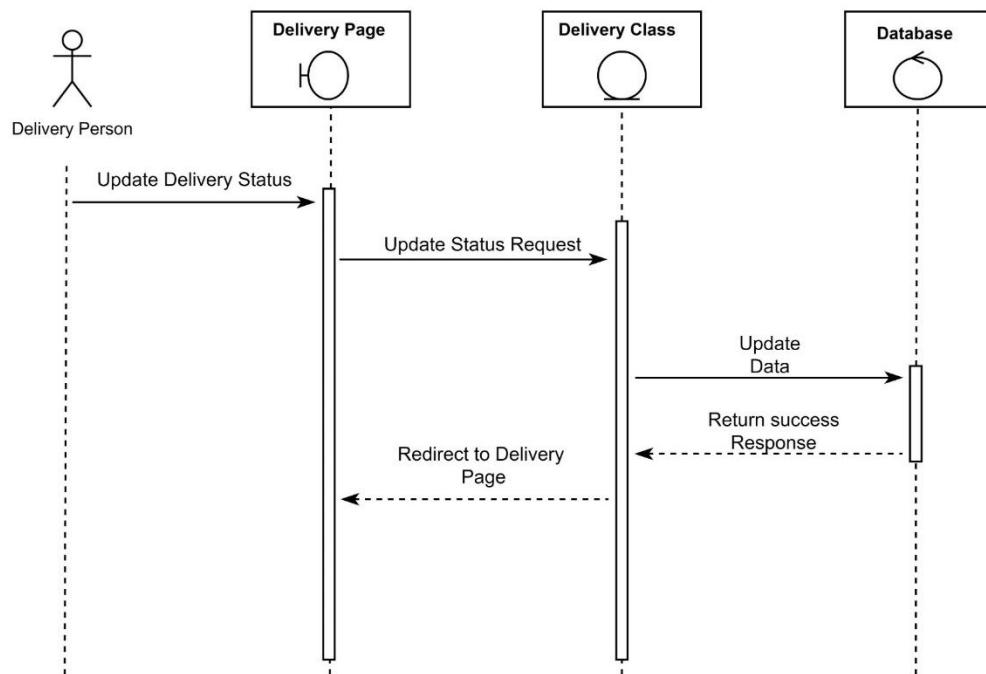


Figure 17: View Assign Order Details

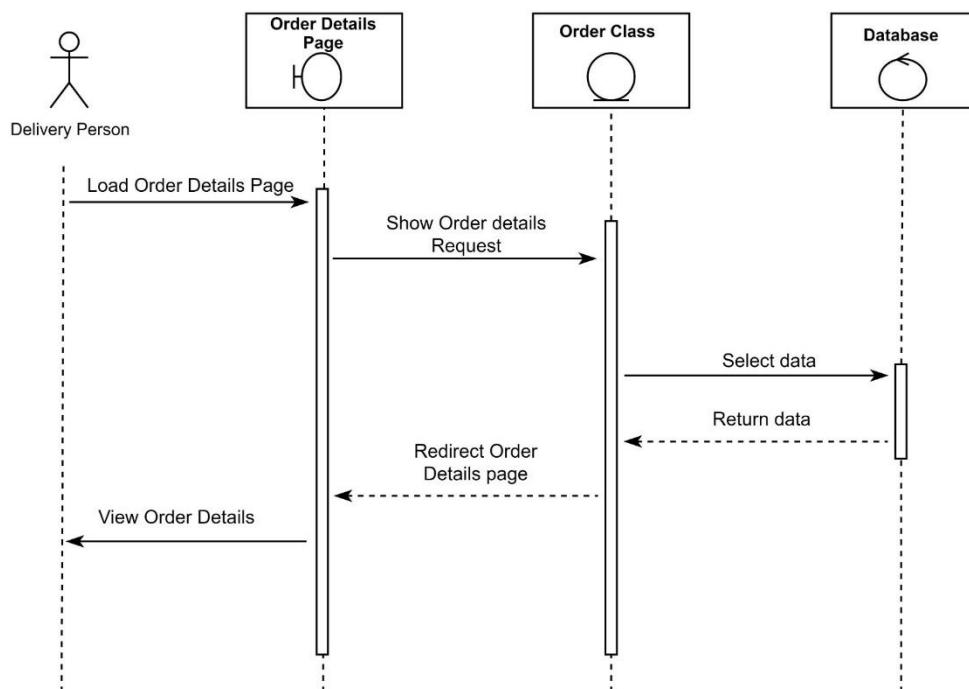


Figure 18: View Assign Order Invoice

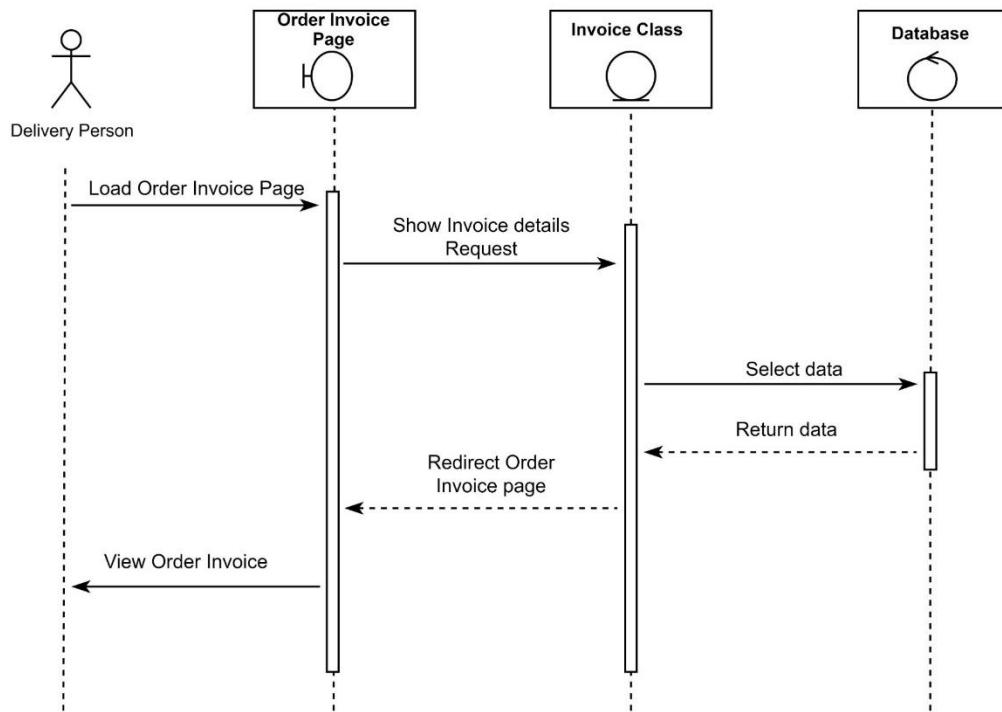
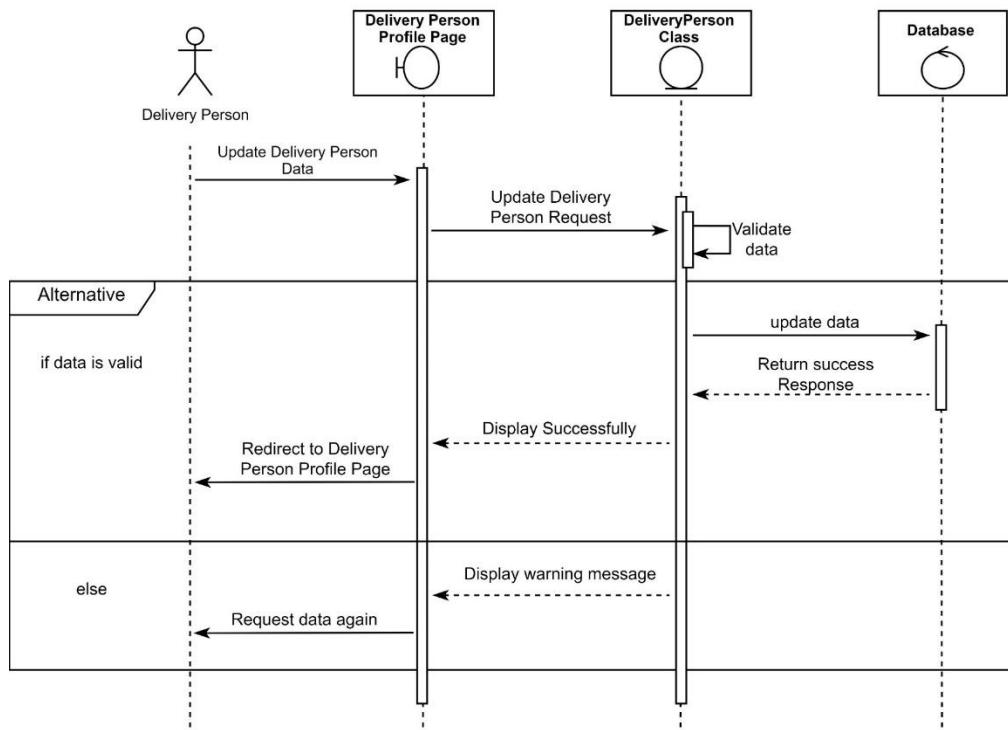


Figure 19: Update Delivery Person Profile



Owner

Figure 20: Login Owner

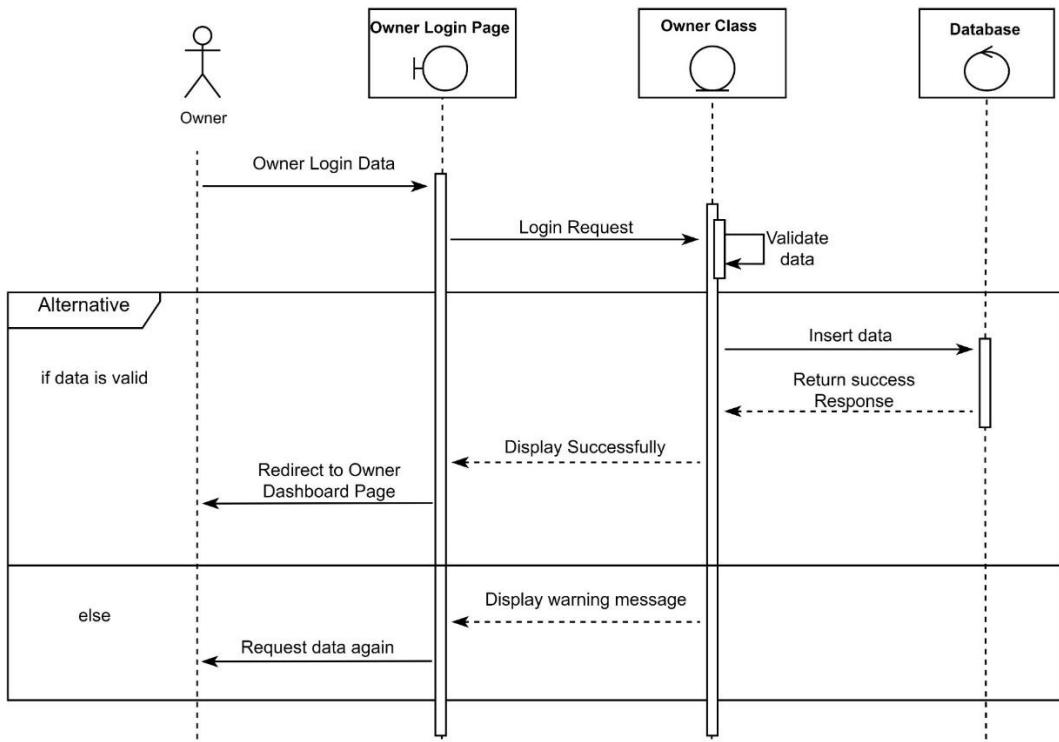


Figure 21: Manage Product – Add Product

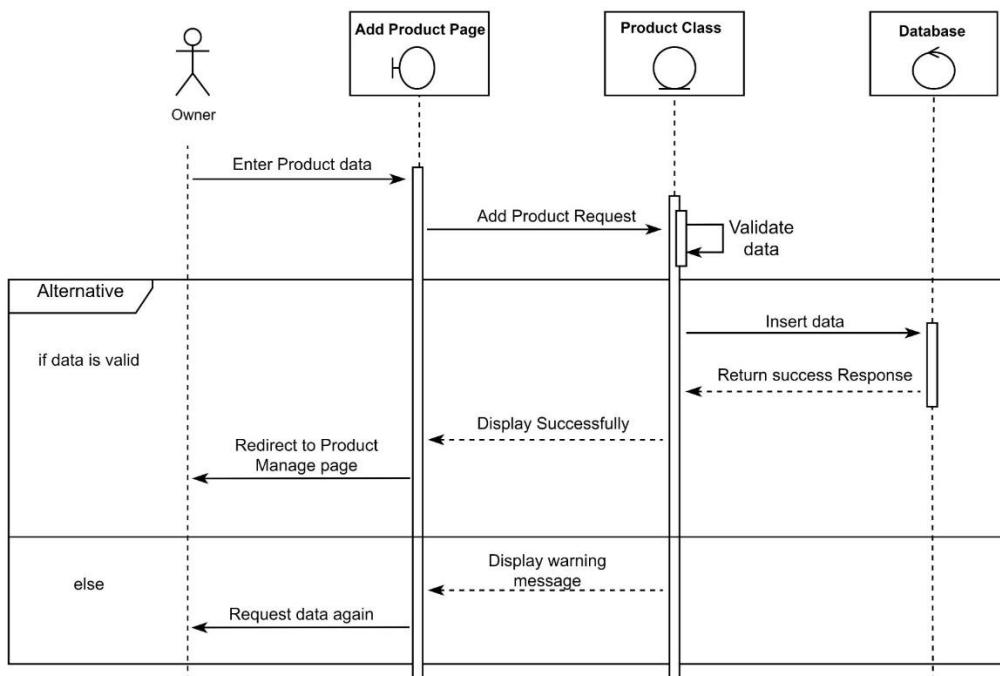


Figure 22: Manage Product – Update Product

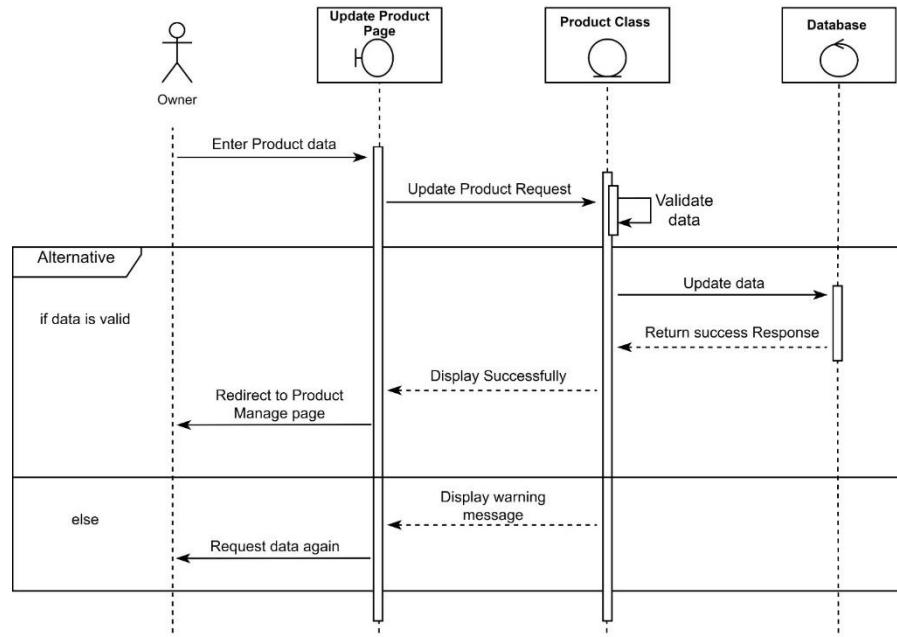


Figure 23: Manage Product – Remove Product

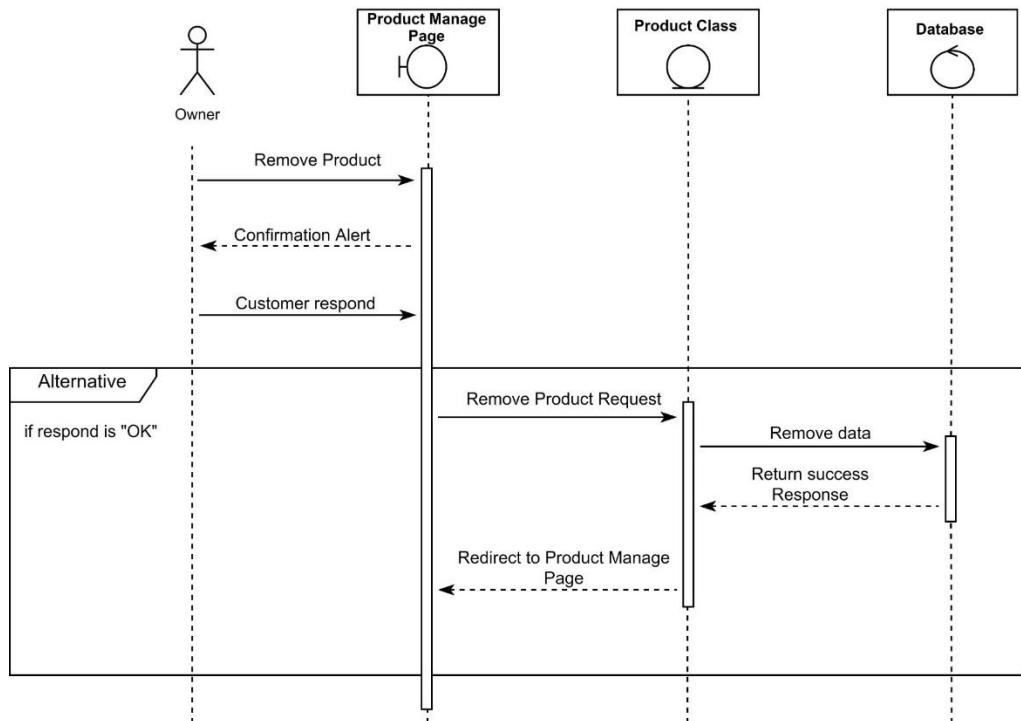


Figure 24: Register Walking Customer

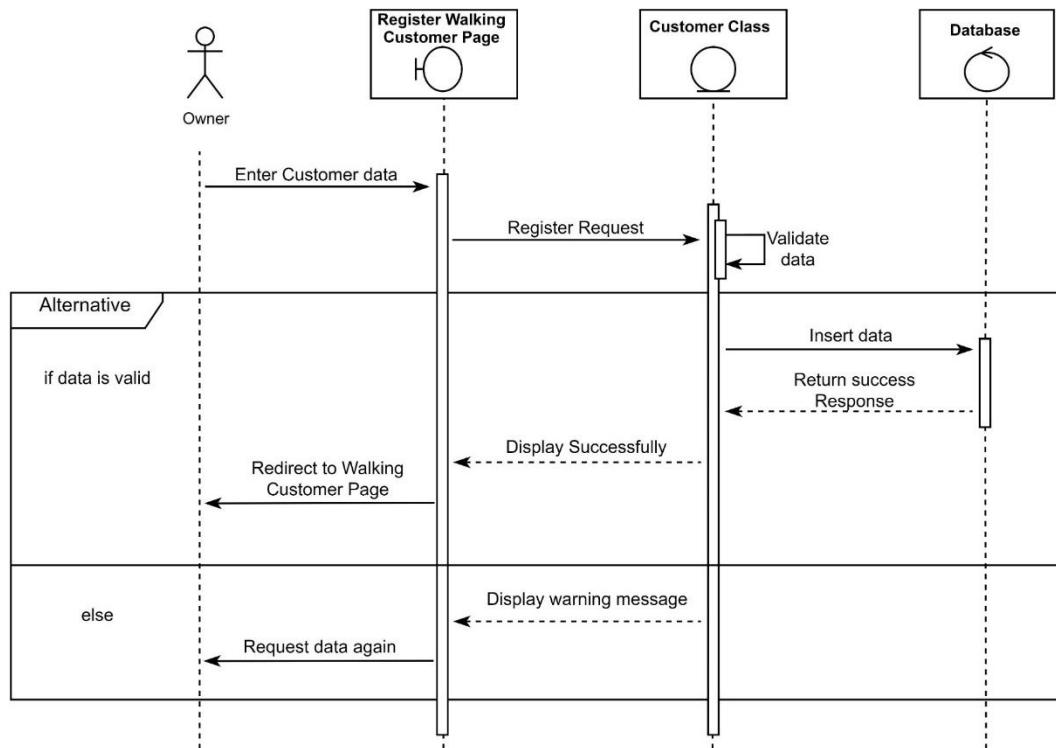


Figure 25: Enter Walking Customer Customize Inquiry Details

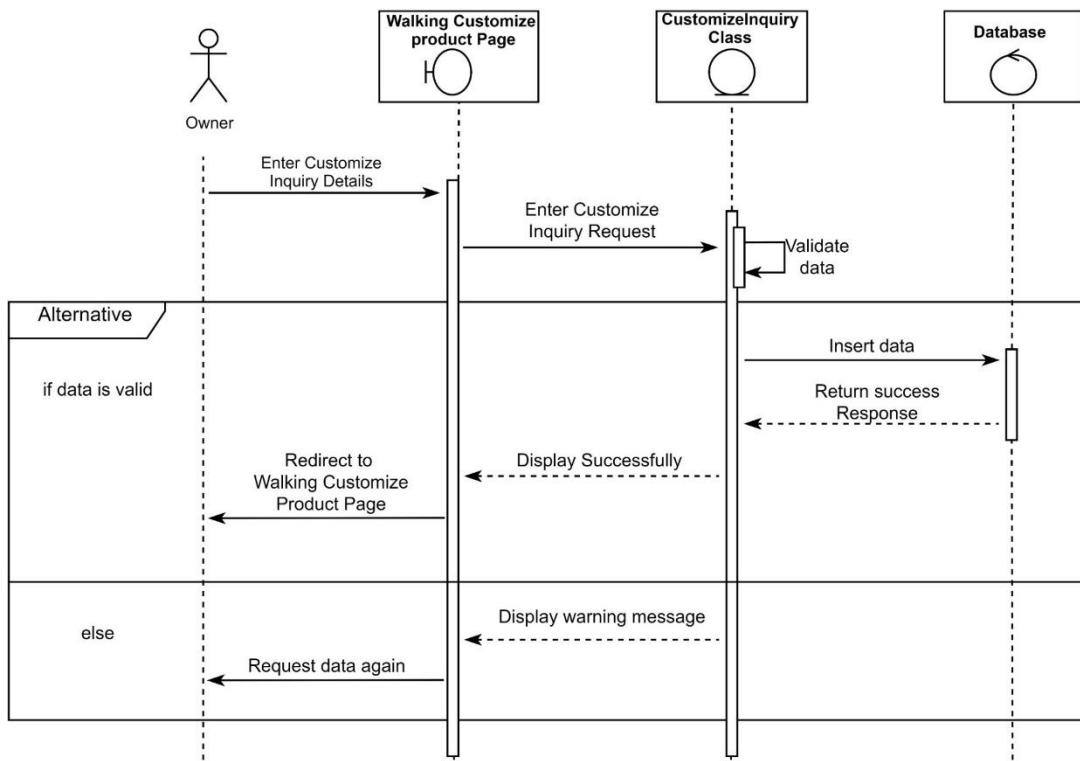


Figure 26: Enter Walking Customer Payment Details

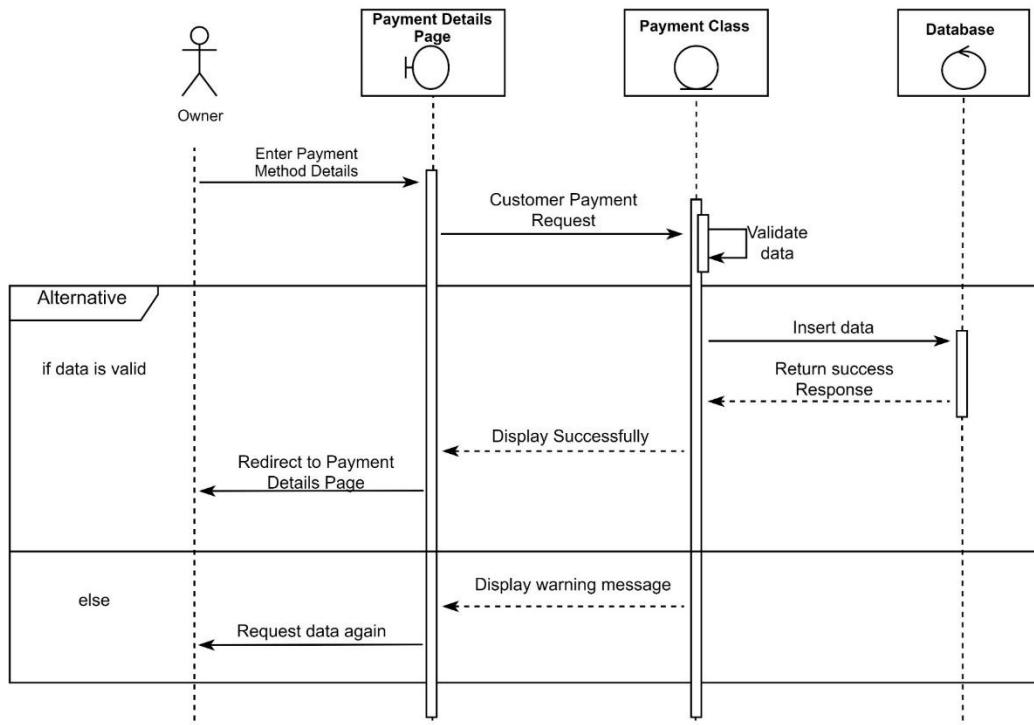


Figure 27: View Order

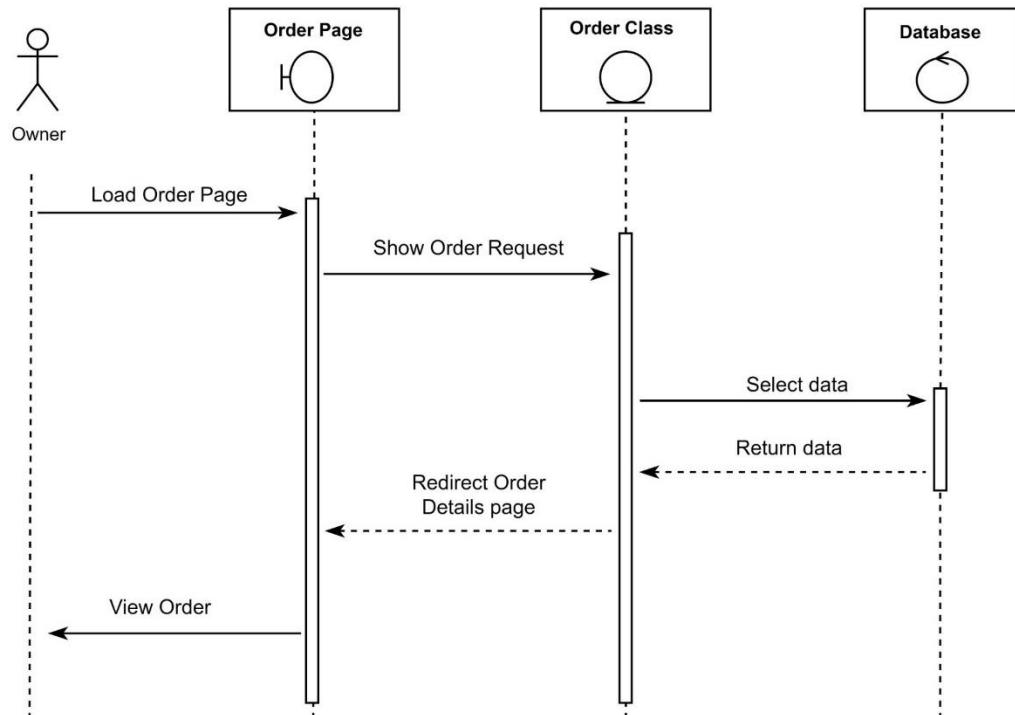


Figure 28: Assign Delivery Person to Delivery Order

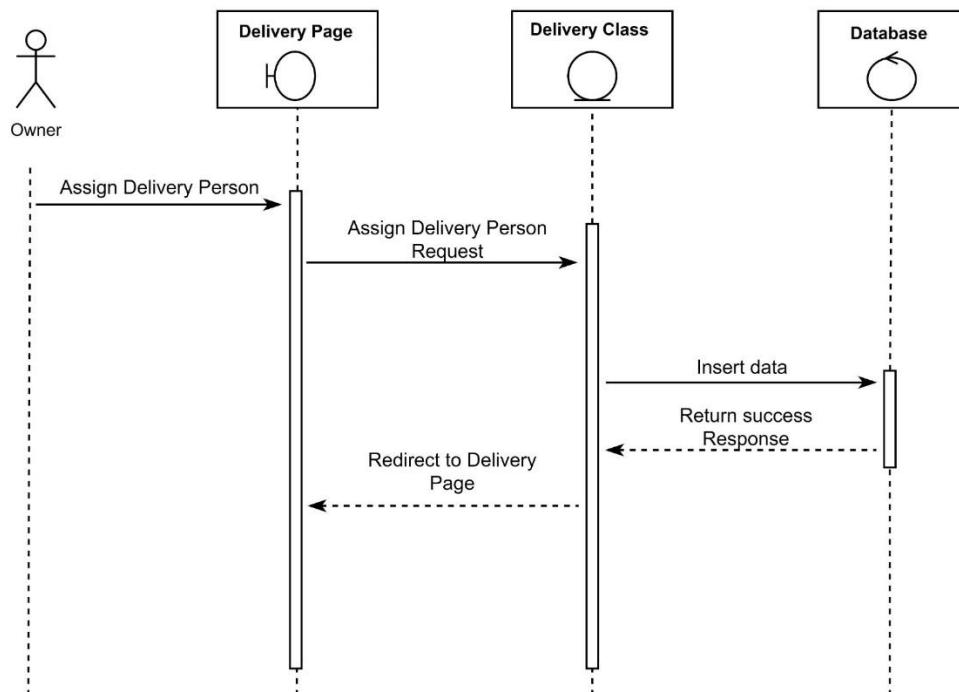


Figure 29: Update Order Status

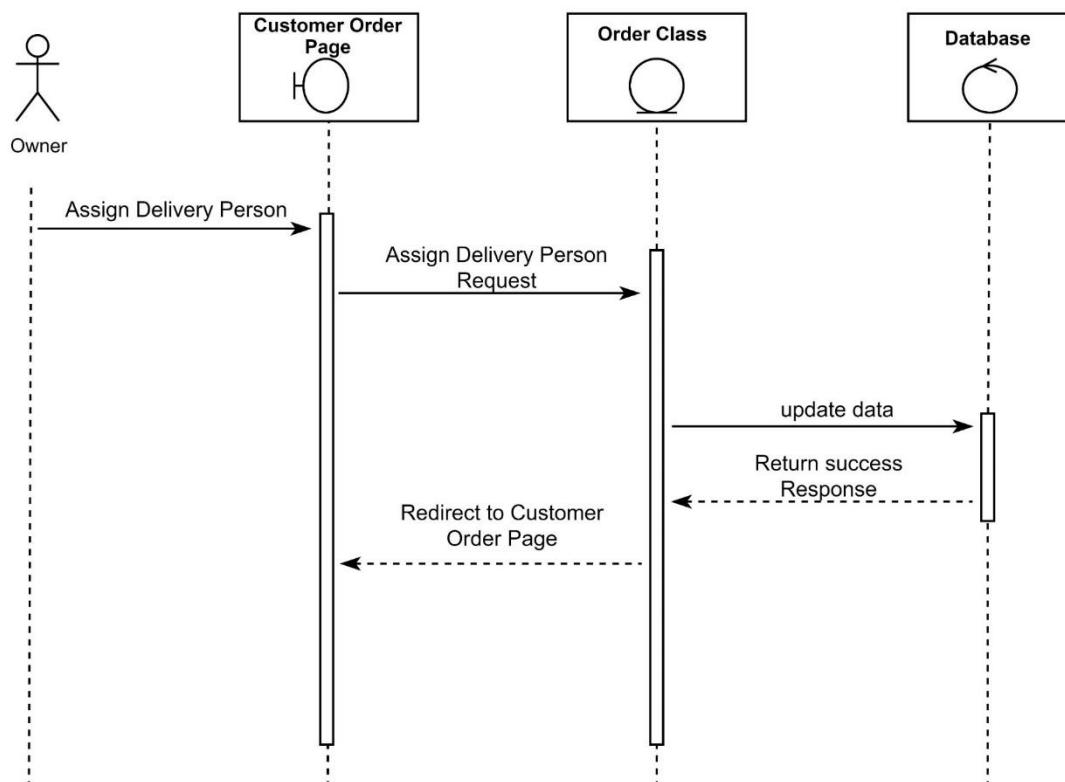


Figure 30: Generate Customer Invoice

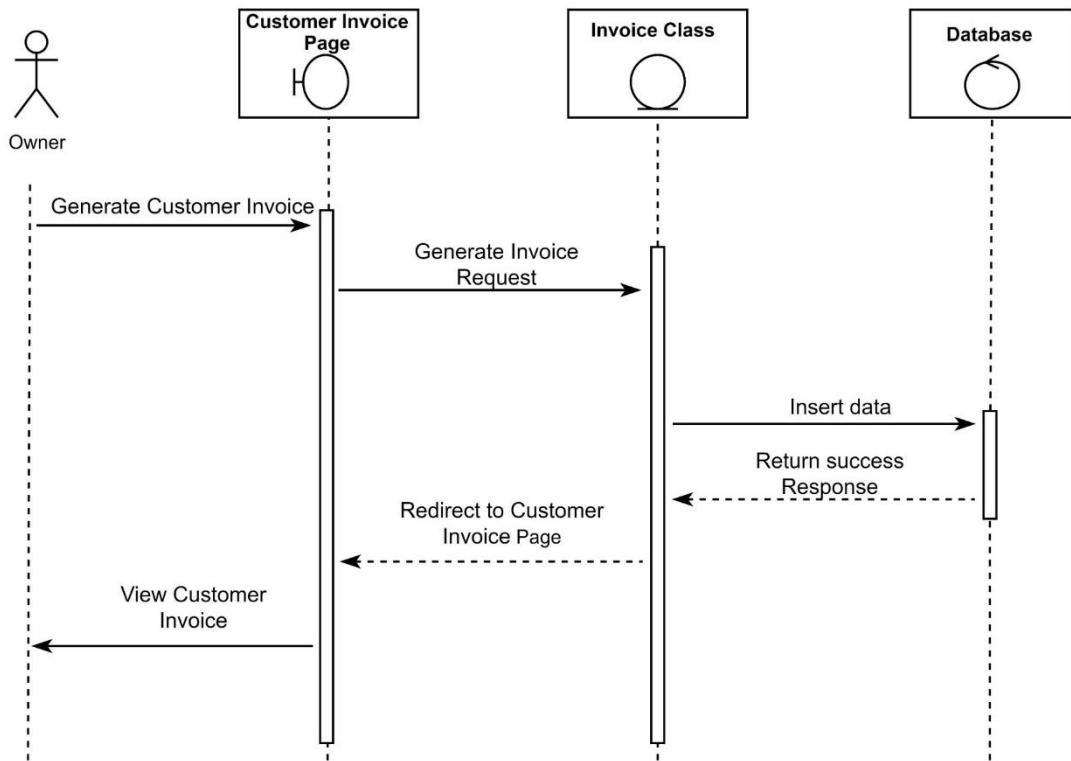


Figure 31: Update Cash Settlement Status

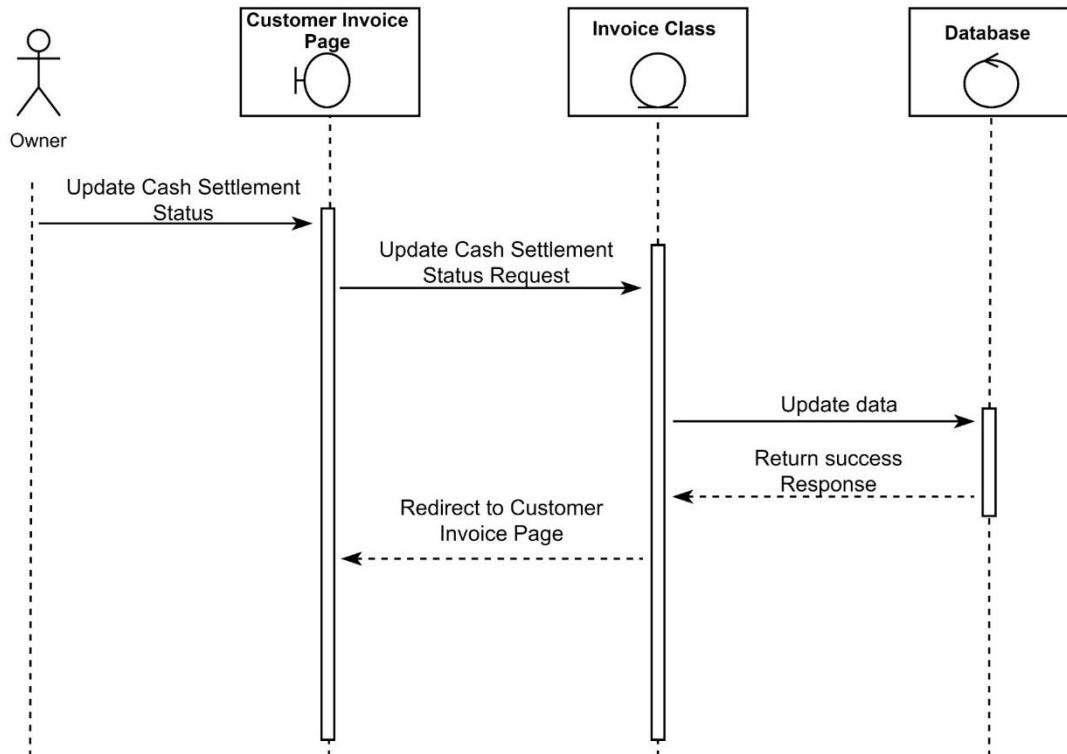


Figure 32: Register Delivery Person

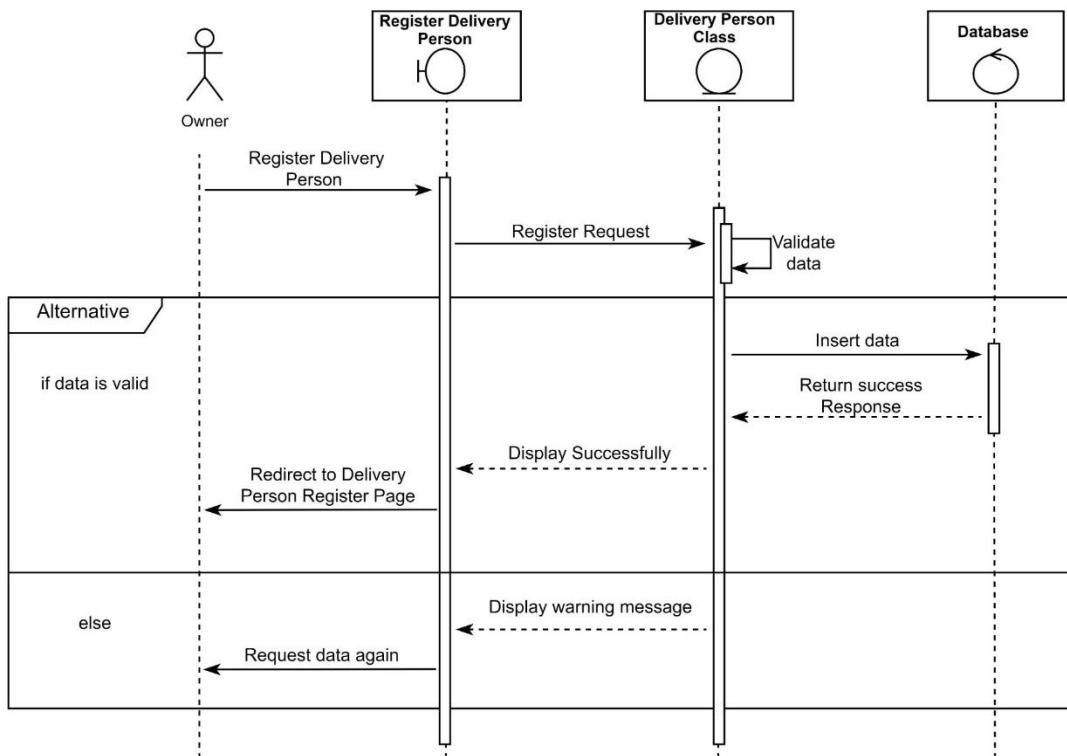


Figure 33: Remove Delivery Person

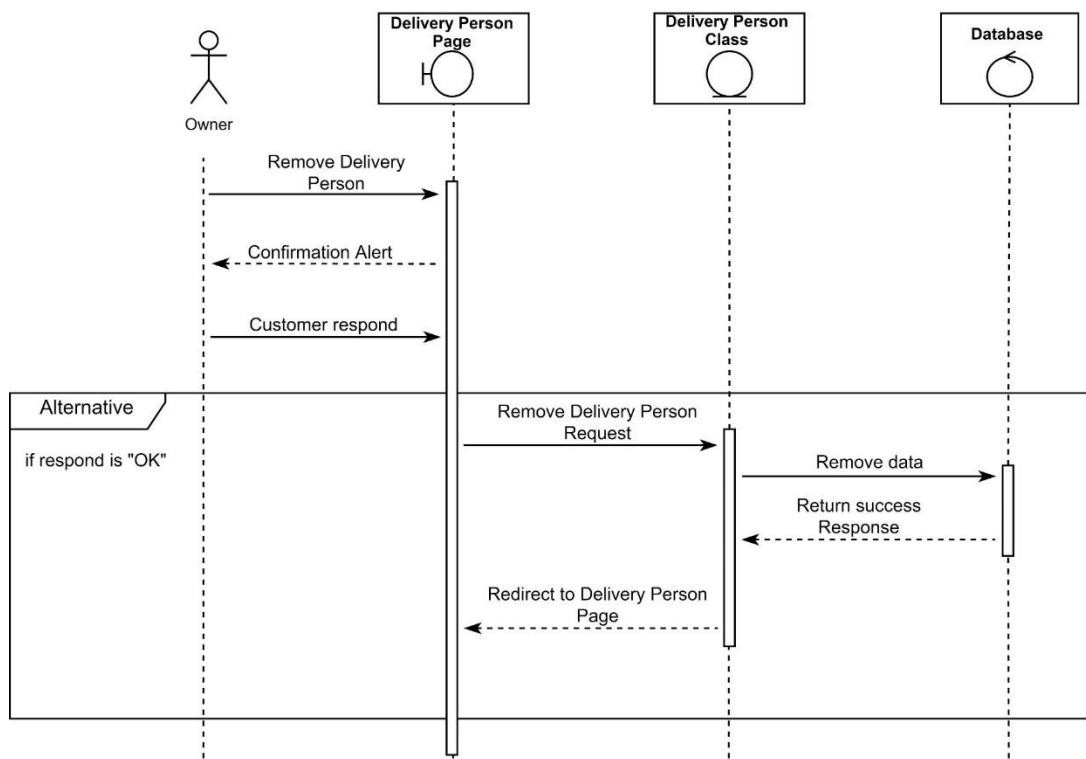


Figure 34: Enter Supplier Details

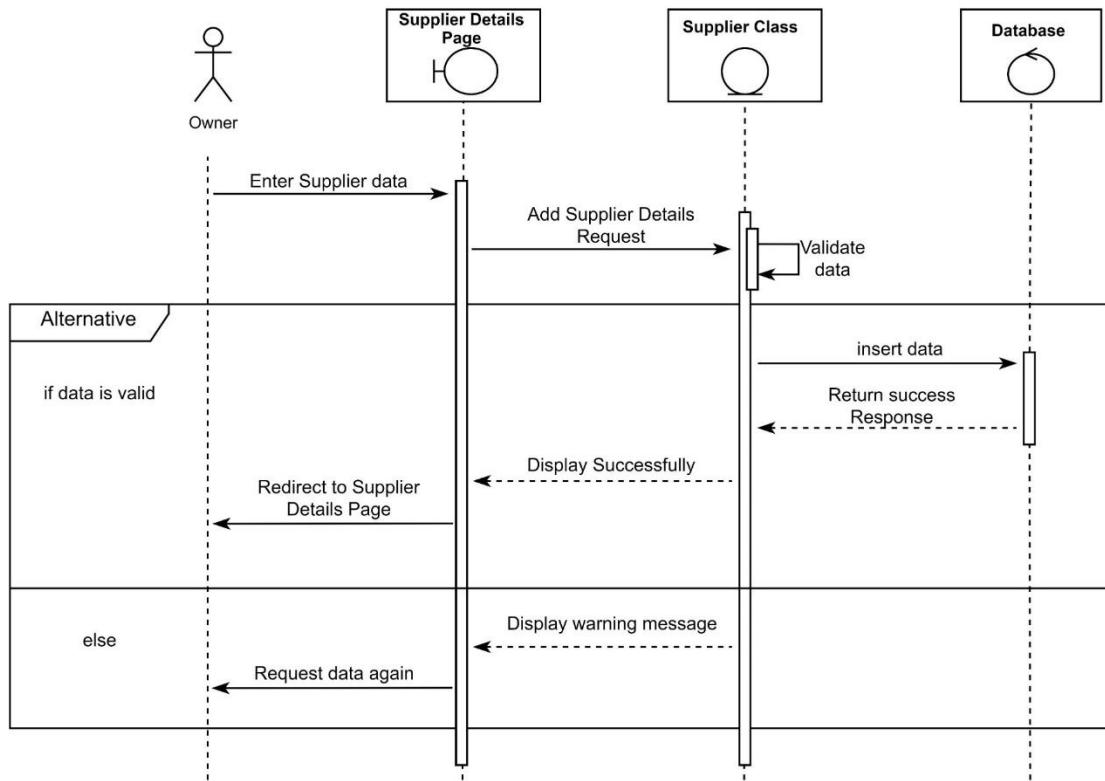


Figure 35: Update Supplier Details

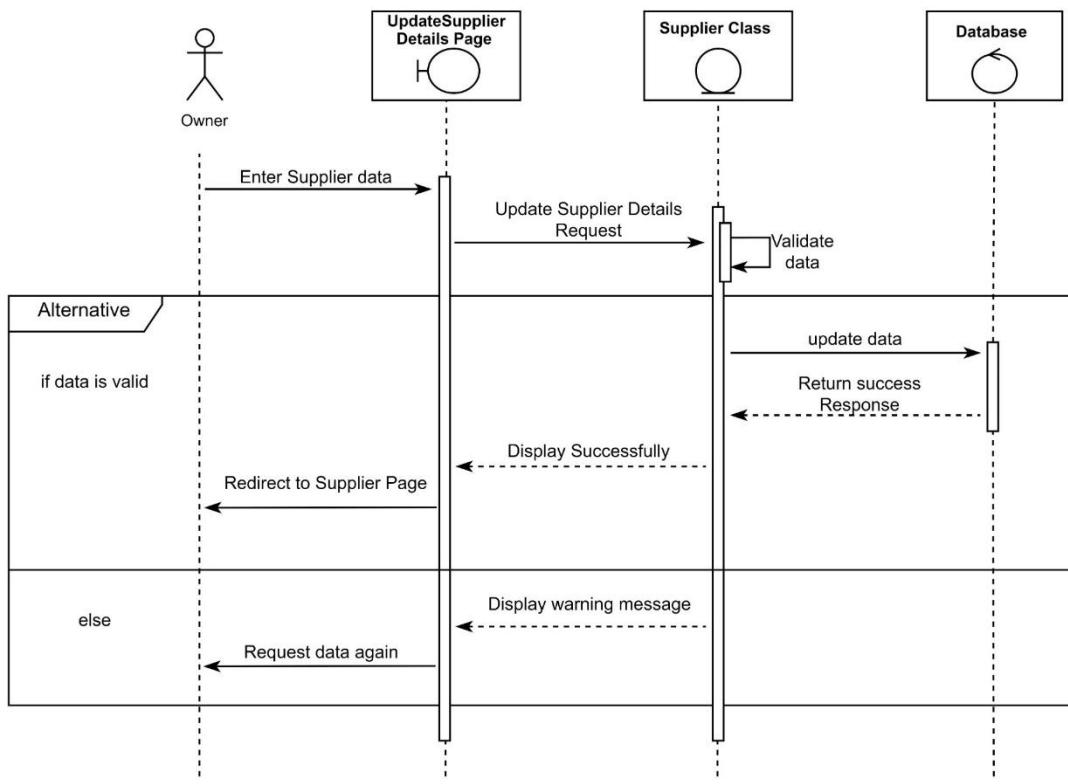


Figure 36: Remove Supplier Details

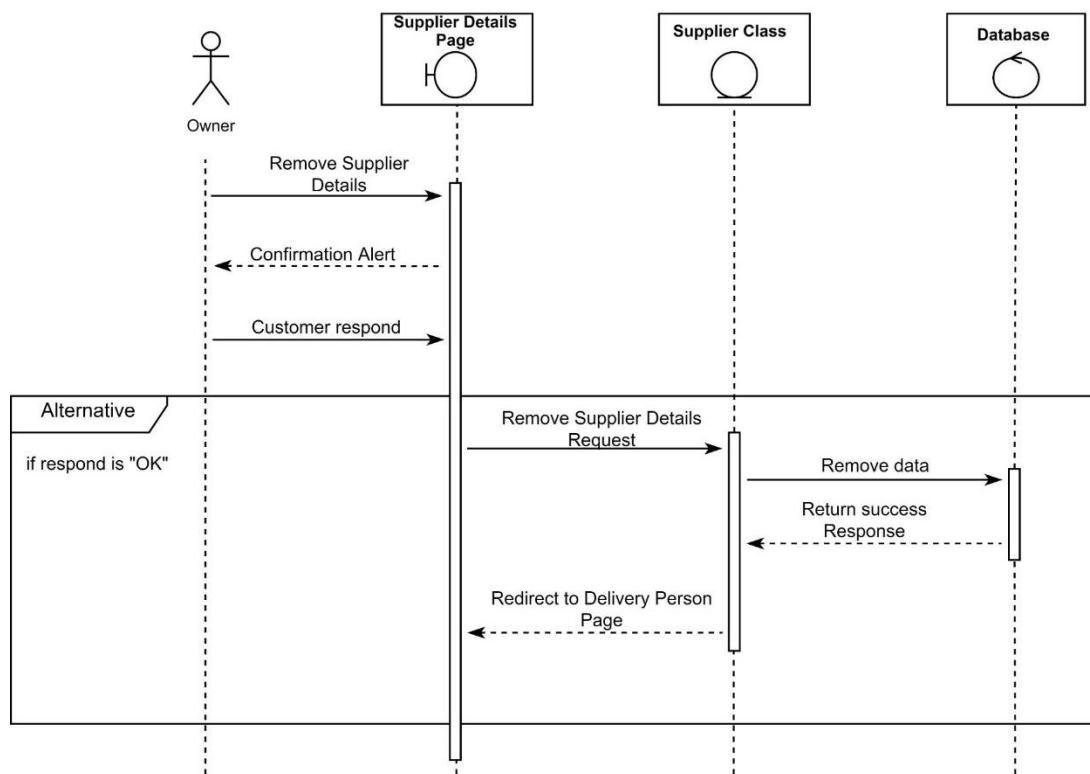


Figure 37: Generate Purchase Order

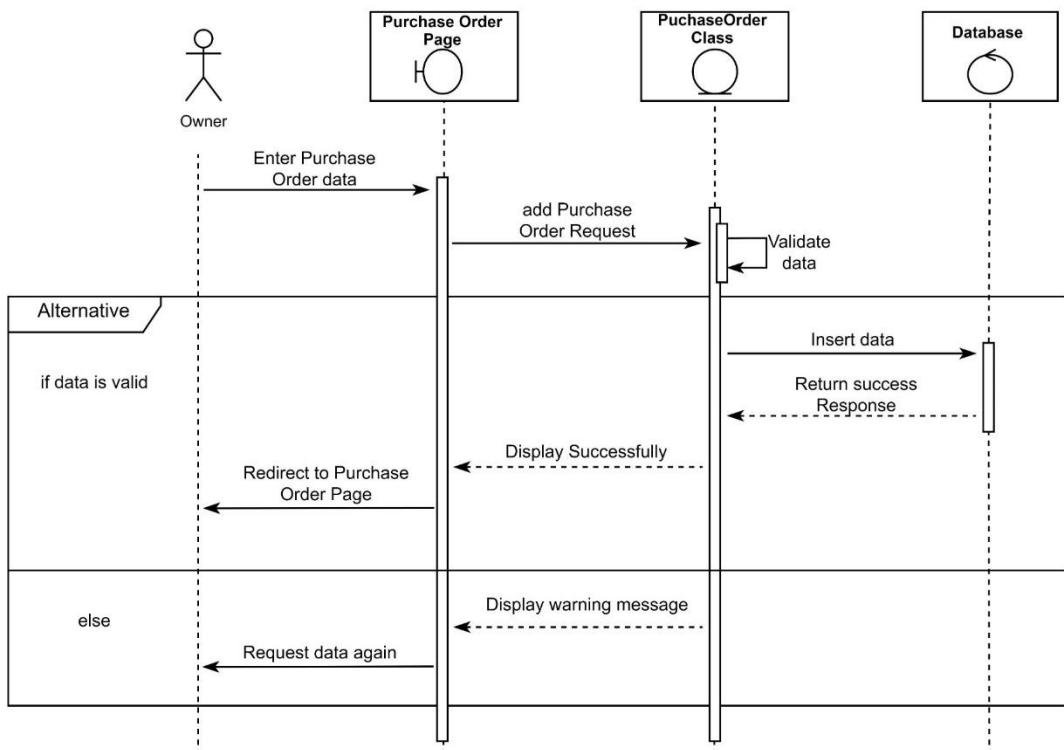


Figure 38: Generate Good Receive Note

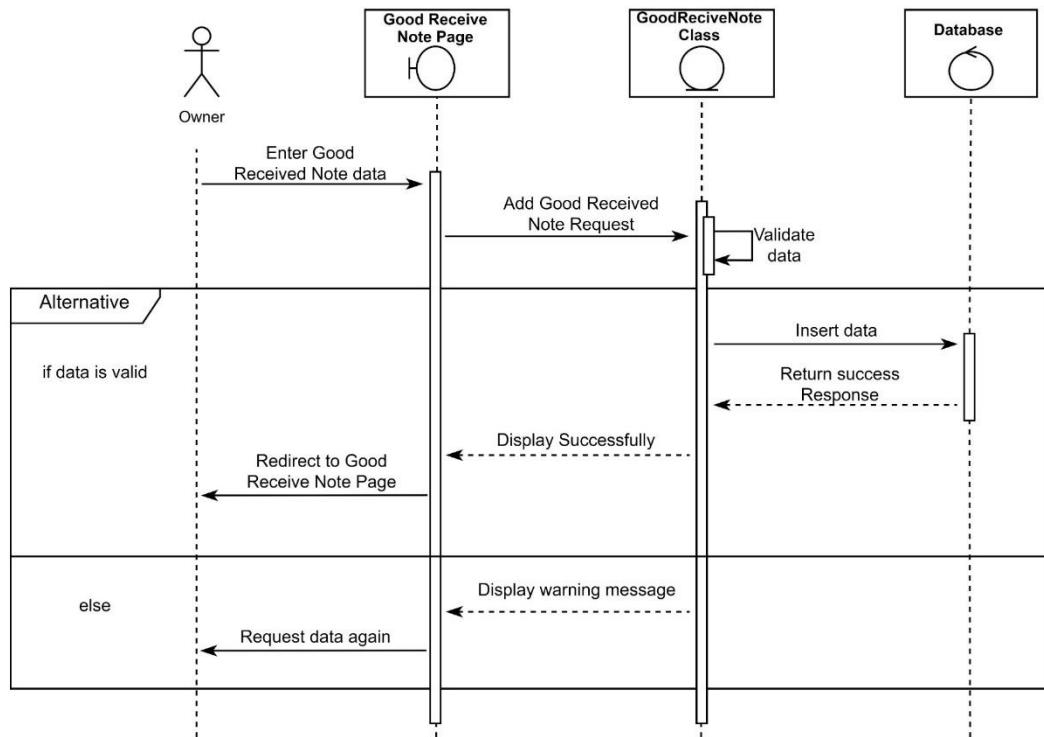


Figure 39: Manage Product Size – Add Size

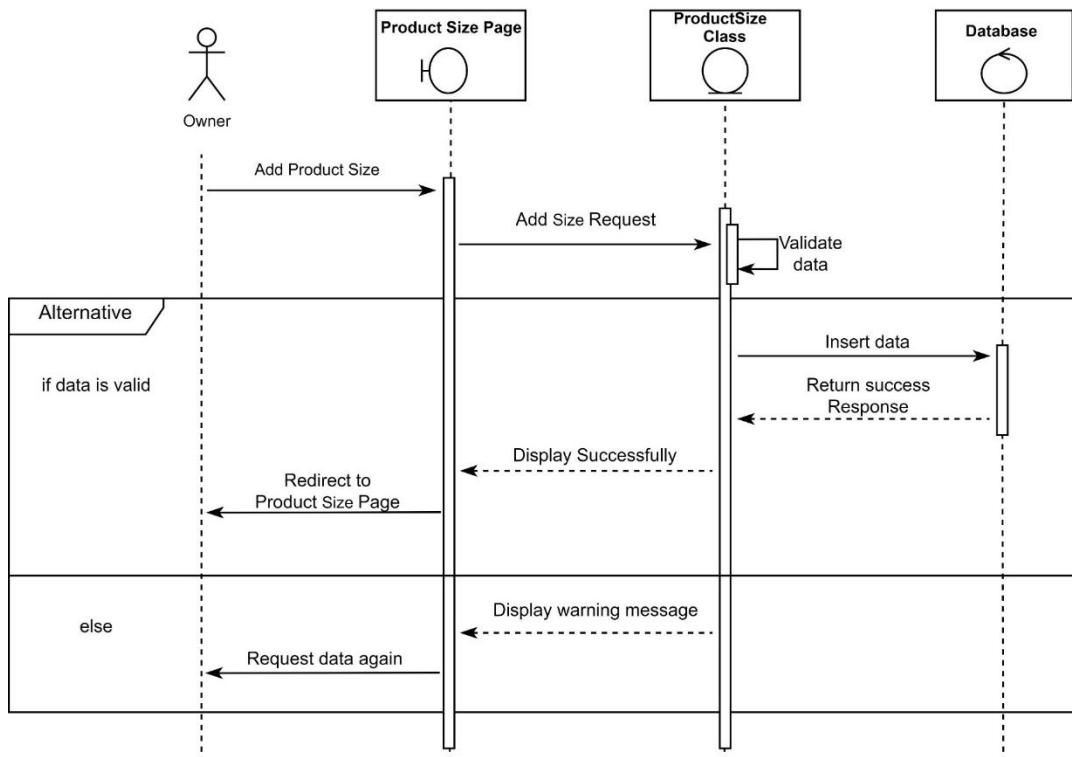


Figure 40: Manage Product Size – Update Size

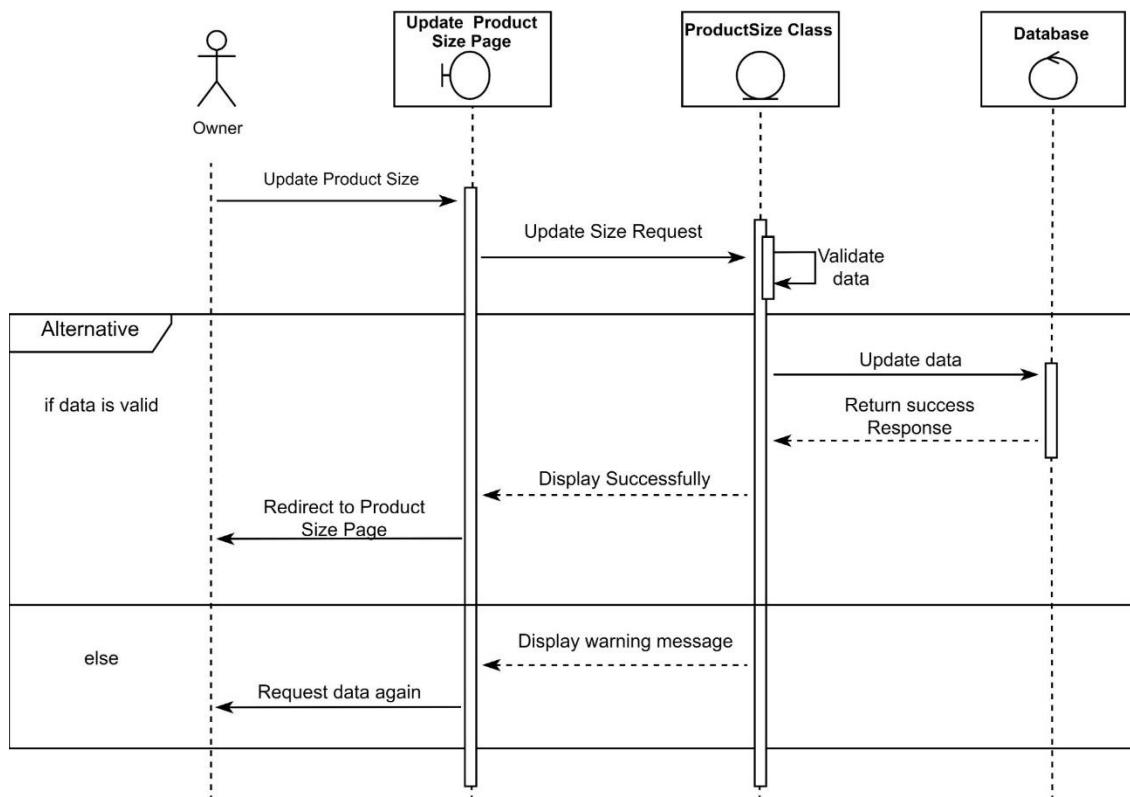


Figure 41: Manage Product Size – Delete Size

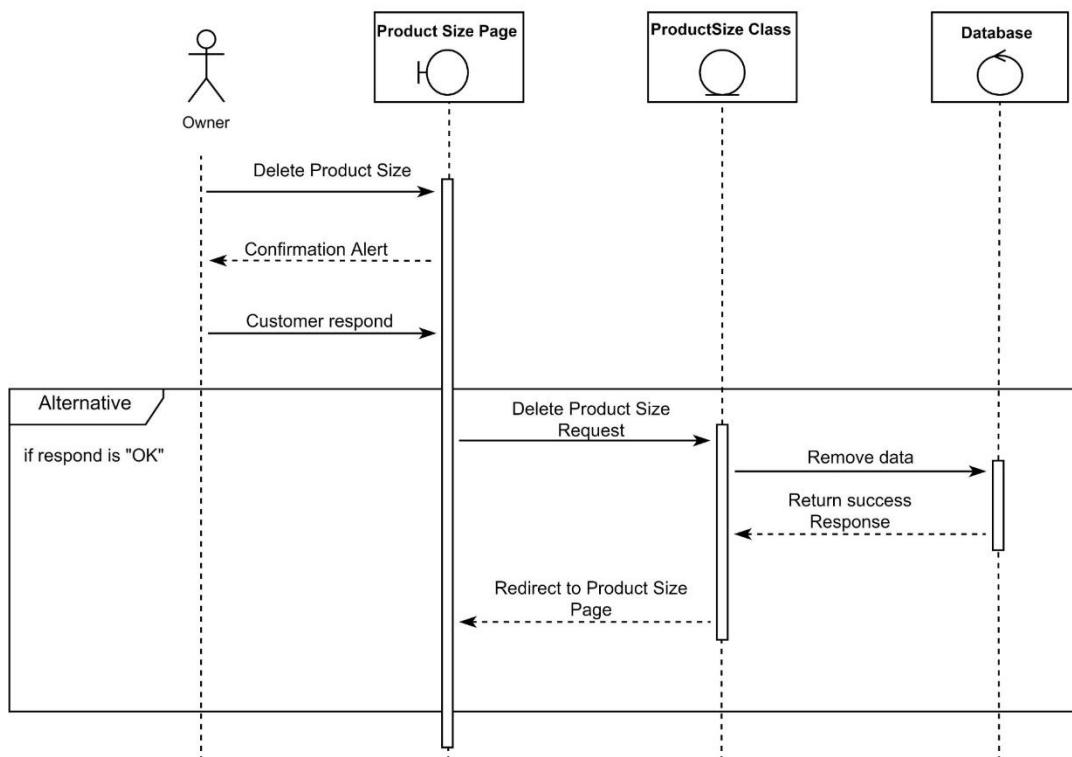


Figure 42: Manage Product Fabric – Add Fabric

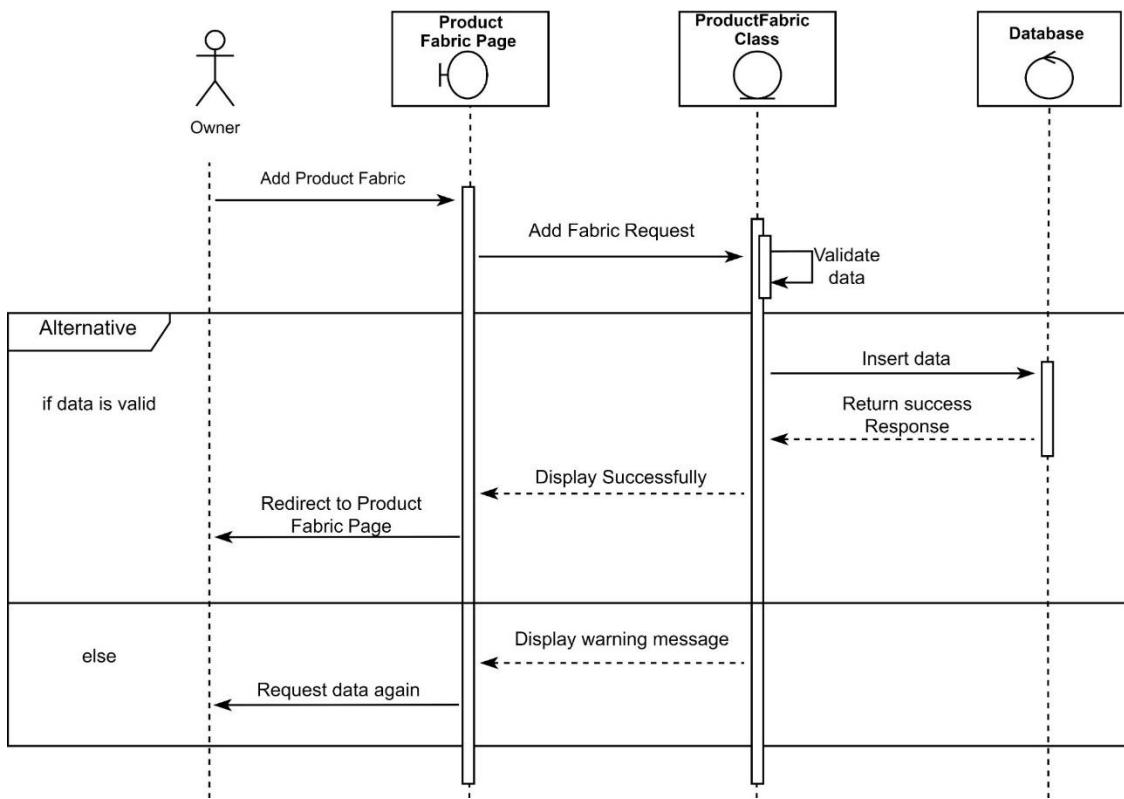


Figure 43: Manage Product Fabric – Update Fabric

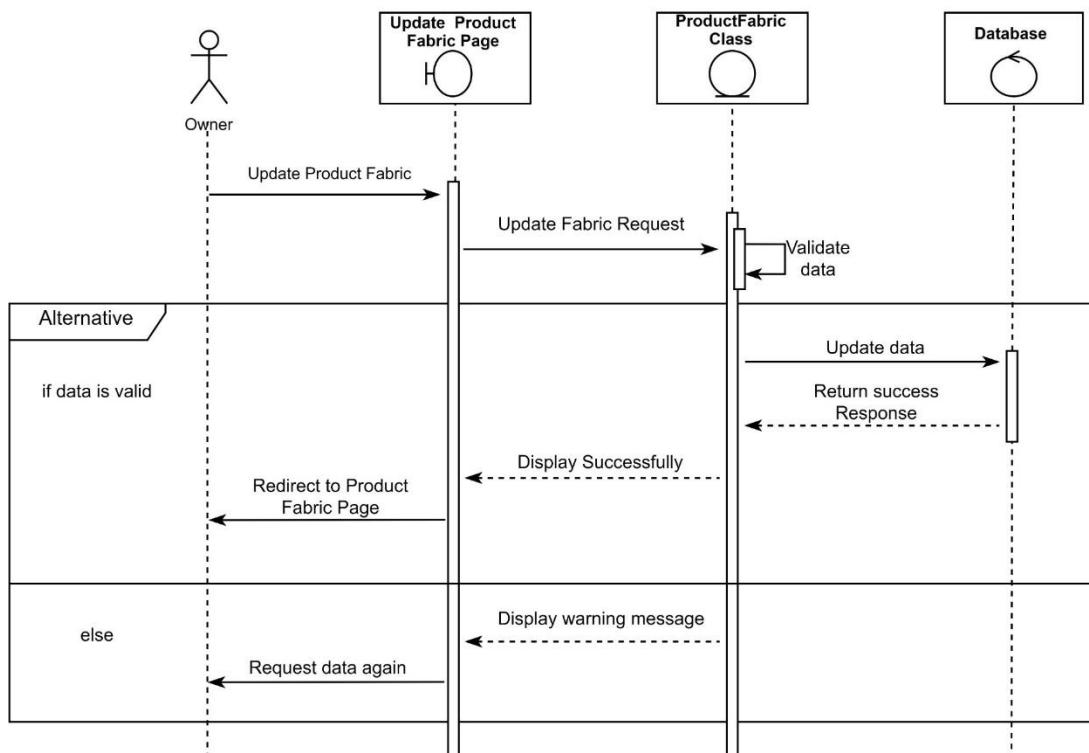


Figure 44: Manage Product Fabric – Delete Fabric

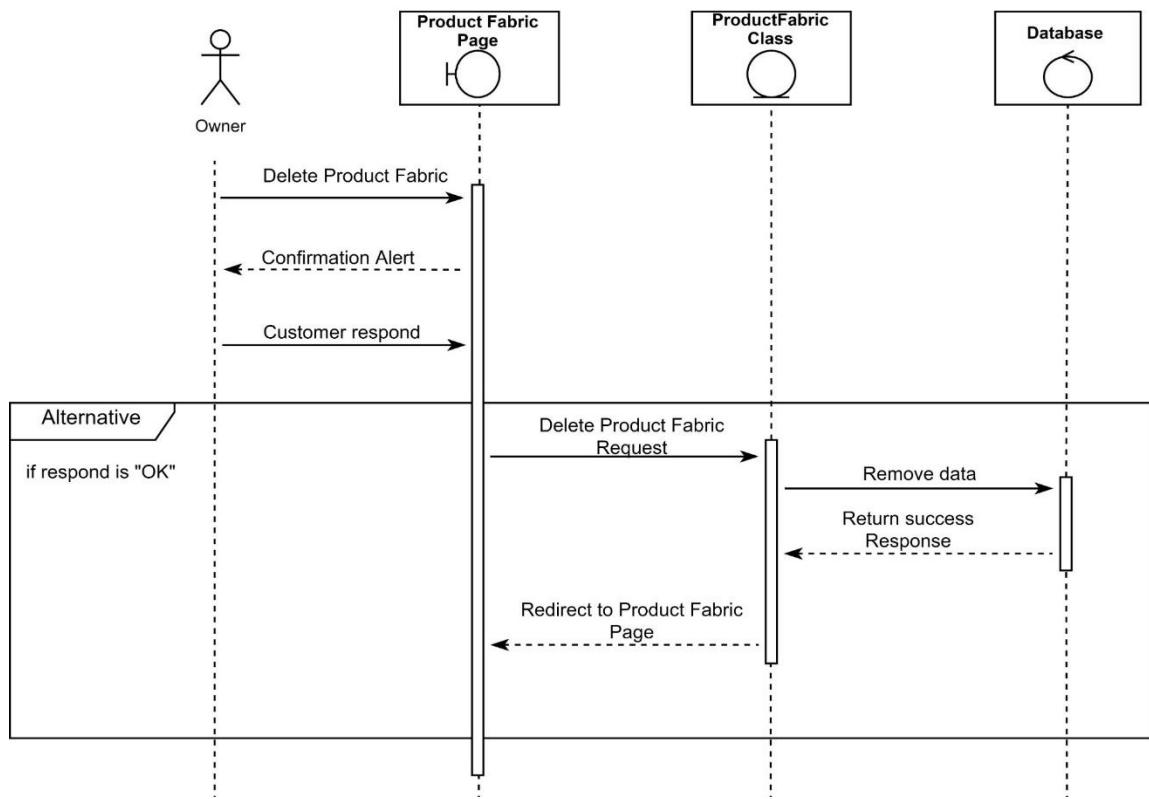


Figure 45: Manage Product Type – Add Type

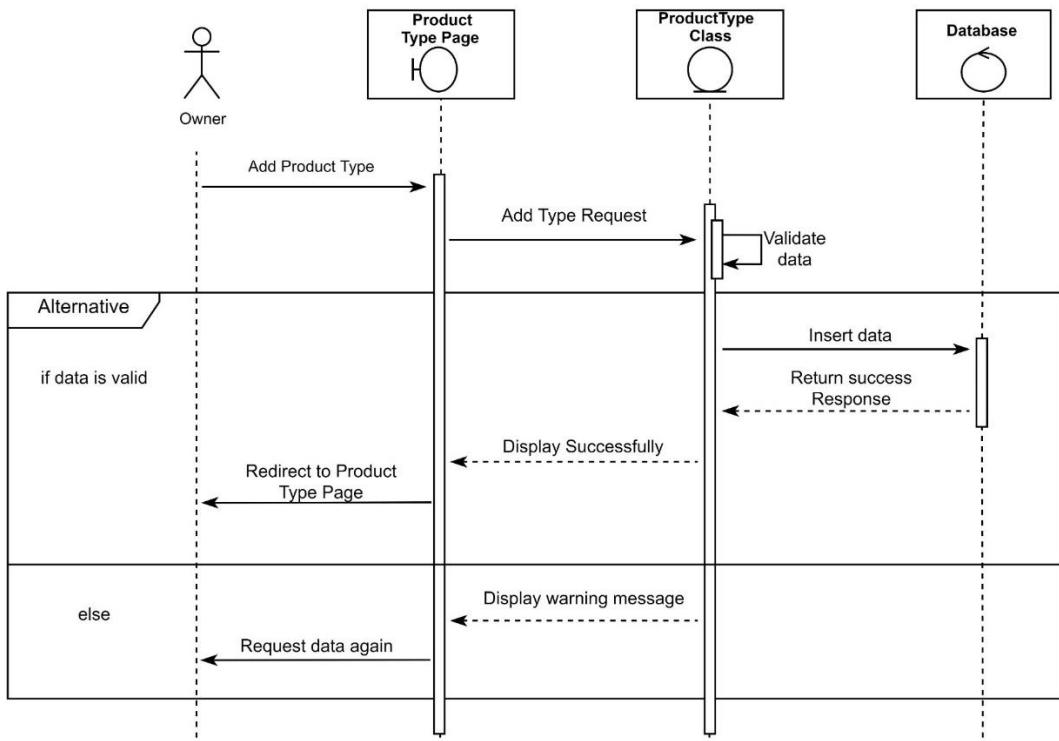


Figure 46: Manage Product Type – Update Type

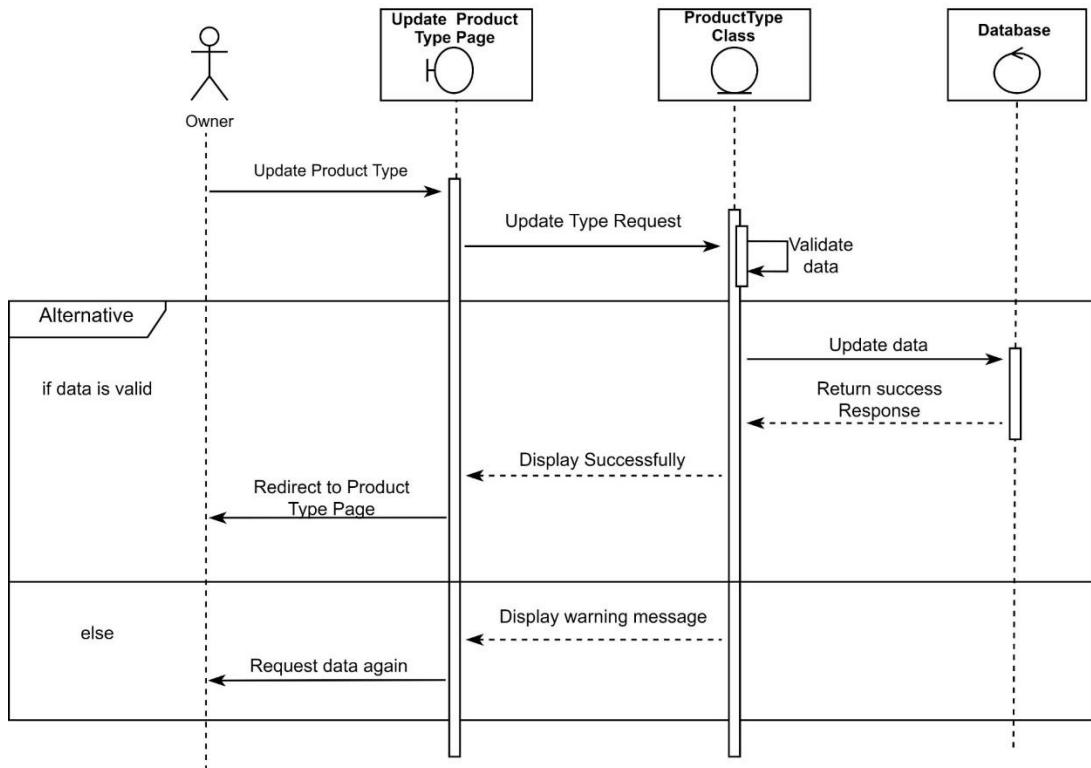


Figure 47: Manage Product Type – Delete Type

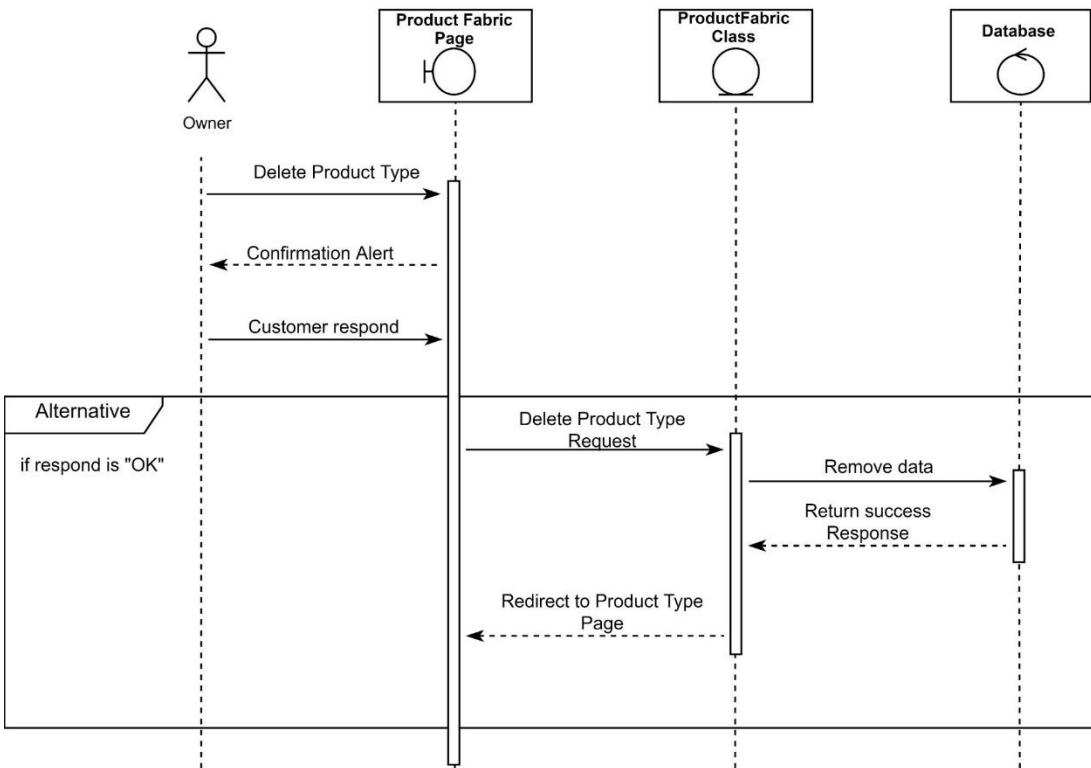


Figure 48: Manage Product Timber – Add Timber

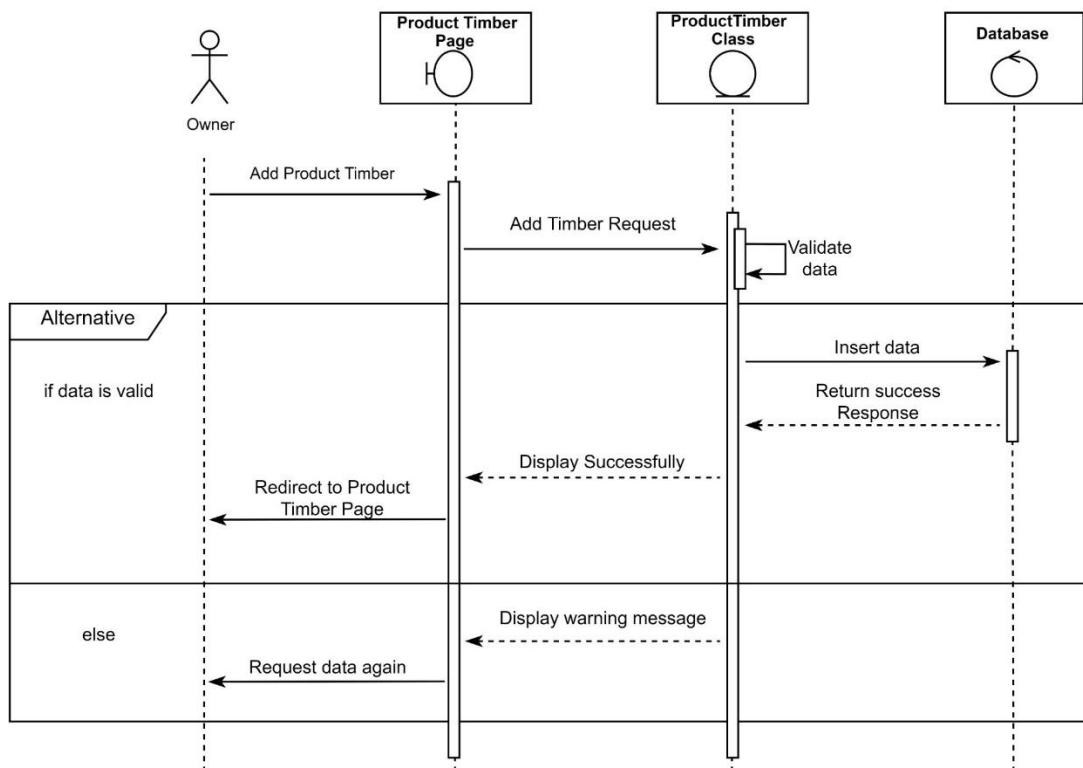


Figure 49: Manage Product Timber – Update Timber

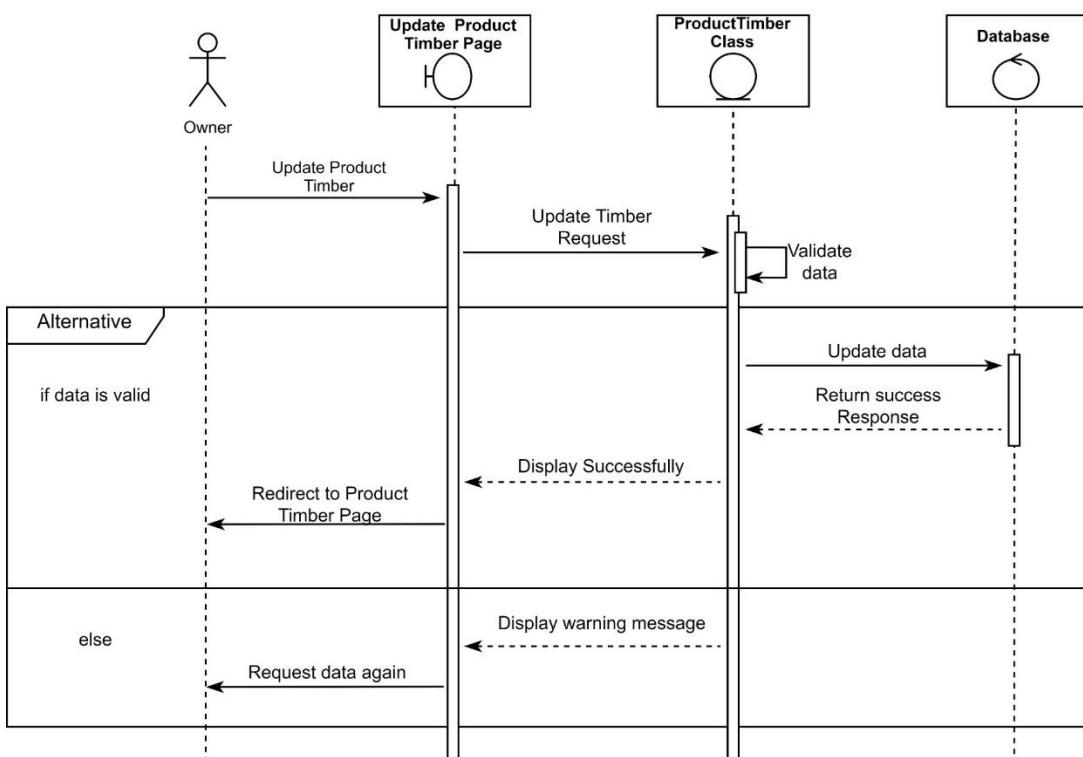


Figure 50: Manage Product Timber – Delete Timber

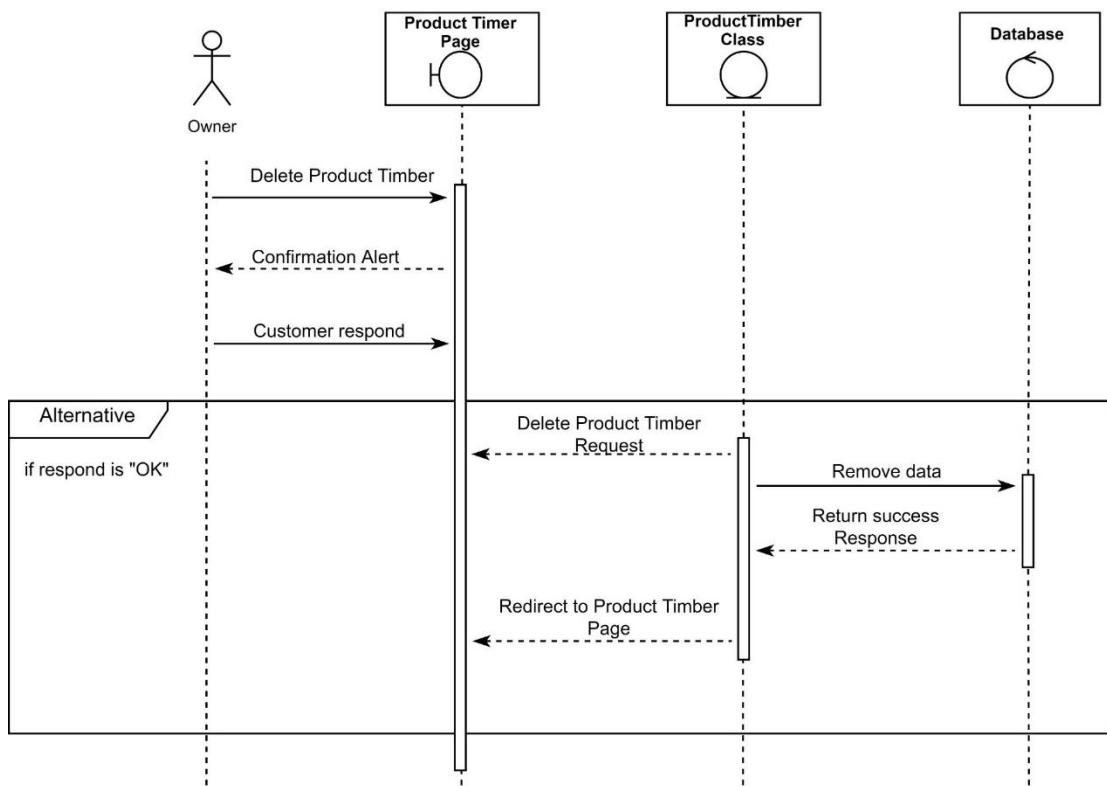


Figure 51: Generate Report

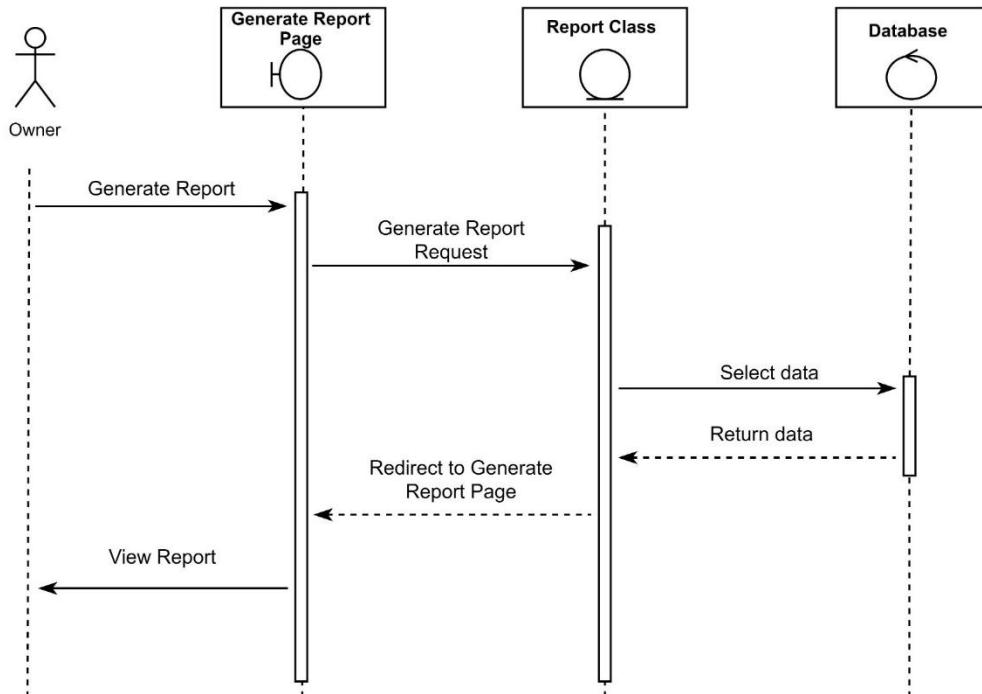


Figure 52: View Order Return

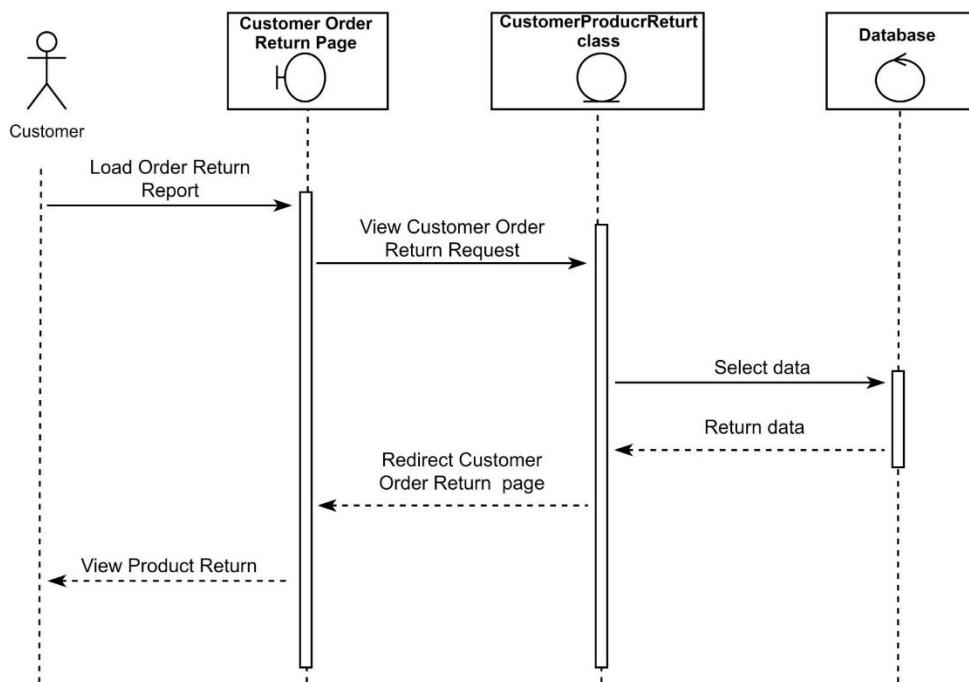


Figure 53: Edit Owner Profile

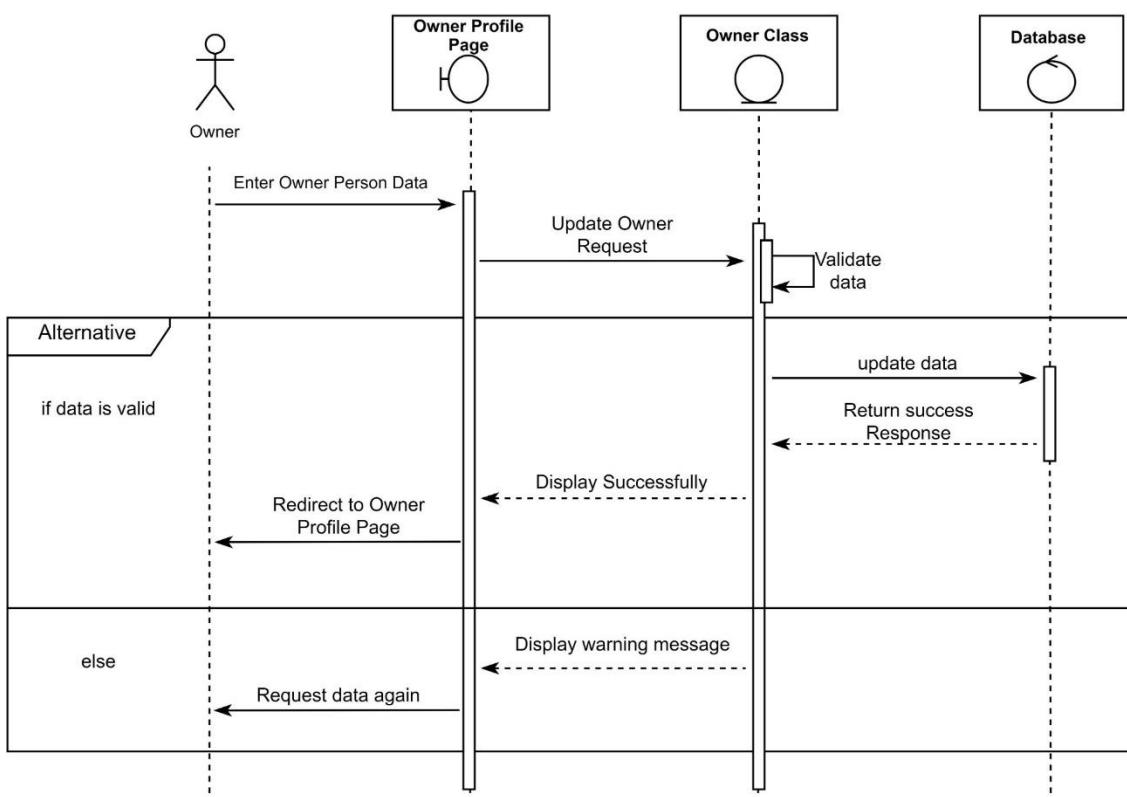
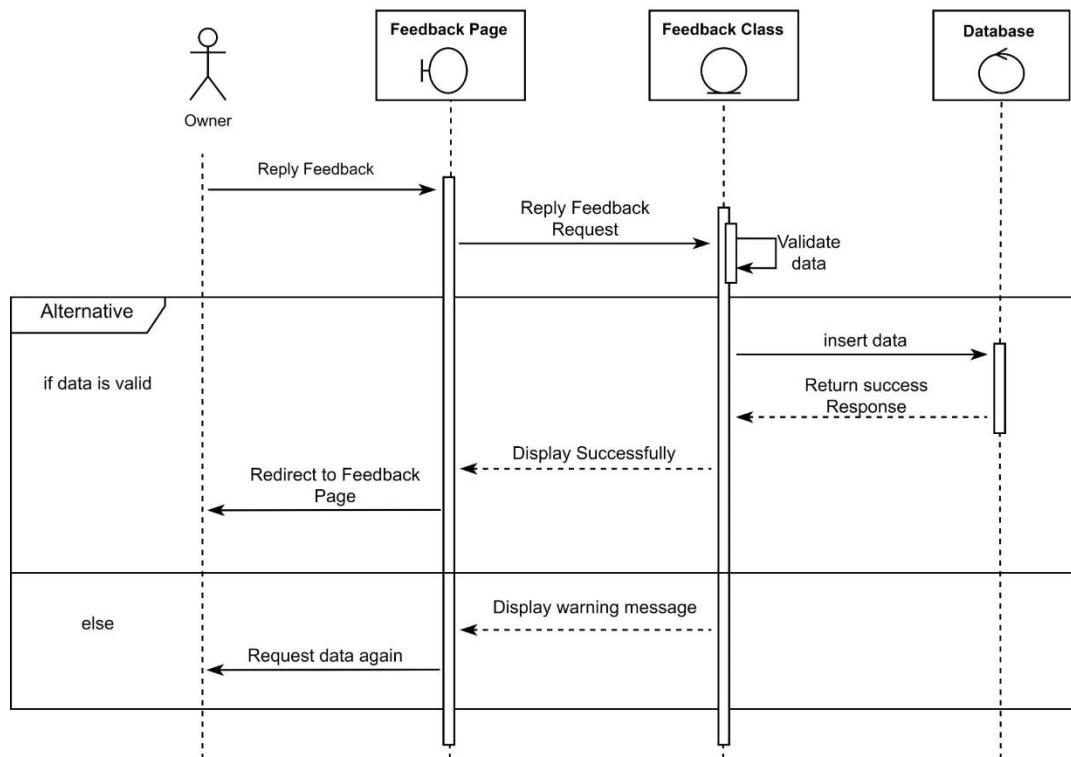
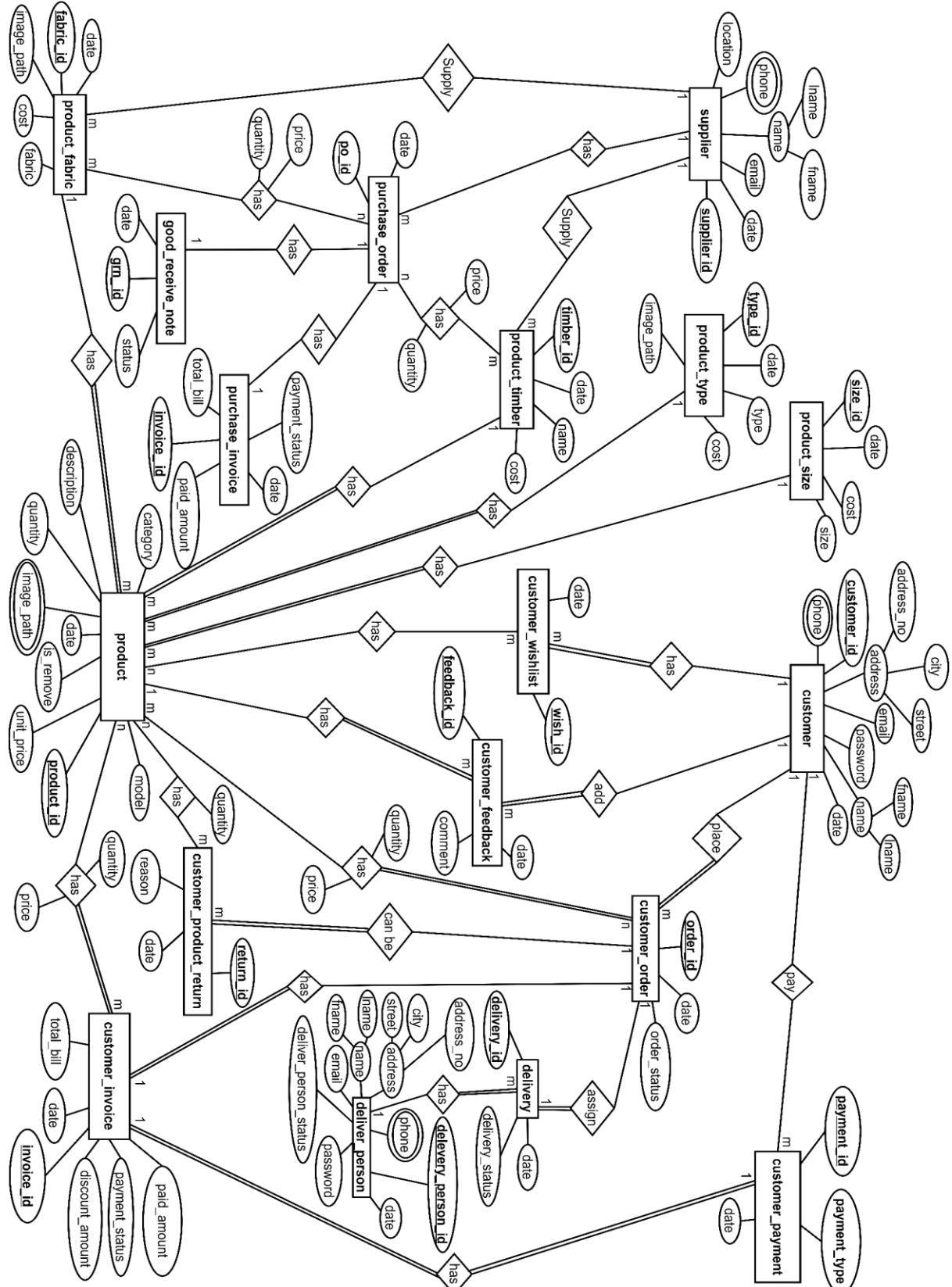


Figure 54: Reply Customer Feedback



3.3 UML ER Diagram of the Proposed System



3.4 Software Architecture

Software architecture refers to the organization of a system, including the components that make up the system, the way they interact with each other, the environment in which they operate, and the principles used to design the software. For the Cushion House e-commerce website rewrite project, the team decided to use the MVC (Model-View-Controller) architecture.

The MVC architecture separates the internal representation of information from the ways in which information is presented to and accepted from the user. The Model component handles all of the data-related logic that the user works with, the View component handles the user interface logic, and the Controller acts as an interface between the Model and View components. It processes business logic and incoming requests, manipulates data using the Model component, and interacts with the Views to render the final output. By using the MVC architecture, the team was able to create a more organized and efficient system.

3.5 Chapter Summary

During the analysis phase of this system development project, the project team gathers and examines various pieces of information in order to understand the business needs and goals of the project, as well as any constraints or limitations that must be taken into account. This may involve conducting interviews with stakeholders, reviewing relevant documentation, and creating prototypes or models to help visualize the proposed solution.

The team also analyzes the requirements and constraints of the project to ensure that the final solution will be feasible to implement and will meet the needs of stakeholders. To document and communicate the results of the analysis phase, the team creates a variety of diagrams, including use case diagrams, class diagrams, and UML ER diagrams, as well as a description of the software architecture. These diagrams and descriptions provide a clear and detailed understanding of the proposed solution and how it will be implemented.

CHAPTER 4: Solution Designs

4.1 Introduction

- Welcome to the interface design chapter of the Cushion House e-commerce website documentation. In this chapter, we will be showcasing sample screenshots of the interface designs created using Figma, a popular platform for designing and prototyping user interfaces.
- The interface design of an e-commerce website plays a crucial role in the overall user experience. It determines how easy it is for customers to browse and purchase products, as well as how visually appealing the website is.
- Some of the key features and functionality of our interface design include a responsive navigation menu, detailed product pages with high-quality images and descriptions, and a secure and streamlined checkout process. We have also implemented a range of tools and technologies, such as HTML, CSS, and JavaScript, to ensure that the interface is fast, responsive, and accessible.
- To achieve this, we followed a set of design principles, such as minimalism, consistency, and ease of use. We also conducted extensive research and user testing to ensure that the design meets the needs and preferences of our target audience.
- Our team has put a lot of thought and effort into creating a user-friendly and visually appealing interface design for the Cushion House website. We believe that our design will provide an enjoyable and seamless shopping experience for our customers.
- We hope that these sample screenshots give you a good idea of what the final interface design will look like. If you have any questions or suggestions, please don't hesitate to reach out to us. Thank you for taking the time to review our proposal.

4.2 Interface Designs

Customer

Interface 01: Home Page

Description:

This is the home page of the website.

The screenshot shows the homepage of Cushion House. At the top, there's a navigation bar with links for Home, Design Your Own Sofa, Sofas, About, Contact, and social media icons. The main header features a large image of a sofa with tropical foliage in the background, with the text "Welcome to Cushion House". Below this, a brief welcome message is displayed. A "See more.." button is visible. Underneath, there's a section titled "CATEGORIES" with four sub-sections: "Left-sectional Sofas", "+24 See more", "Traditional Sofa", and "Custom Sofa". Further down, there's a section titled "STEPS FOR DESIGN YOUR OWN SOFA" with three steps: 1 - CHOOSE YOUR STYLE (showing a grey sofa), 2 - CUSTOM SIZING (showing a person measuring a sofa), and 3 - SELECT FABRIC & MATERIALS (showing fabric swatches). A "Try Now" button is located at the bottom of this section. The footer contains the "CUSHION HOUSE" logo and links for Contact, Store, Follow us, Legal & Privacy, Cookies, Shopping, and About Us. A copyright notice for 2019-2022 is also present.

Interface 02: Product Page

Description:

This is the product Page where Users can Browse and view products.

The screenshot shows a product page for 'MODERN SOFAS' on the CUSHION House website. The top banner features a teal sofa and a pink armchair against a tropical leaf backdrop. Below the banner is a grid of 20 sofa thumbnails arranged in four rows of five. Each thumbnail includes a heart icon and the text 'Custom Modern Sofa' and its price (e.g., 'Rs 220,000/-'). Navigation arrows at the bottom indicate there are three more pages of products. The footer contains links for Contact, Store, Follow Us, Legal & Privacy, Cookies, Sitemap, and About Us, along with a copyright notice for 2019-2022.

CUSHION House

Home Design Your Own Sofa Sofas About Contact ❤️ 🛒 🔎

MODERN SOFAS

1 2 3

Custom Modern Sofa Rs 220,000/- Custom Modern Sofa Rs 220,000/-

Custom Modern Sofa Rs 220,000/- Custom Modern Sofa Rs 220,000/- Custom Modern Sofa Rs 220,000/- Custom Modern Sofa Rs 220,000/- Custom Modern Sofa Rs 220,000/-

Custom Modern Sofa Rs 220,000/- Custom Modern Sofa Rs 220,000/- Custom Modern Sofa Rs 220,000/- Custom Modern Sofa Rs 220,000/- Custom Modern Sofa Rs 220,000/-

Custom Modern Sofa Rs 220,000/- Custom Modern Sofa Rs 220,000/- Custom Modern Sofa Rs 220,000/-

1 2 3

CUSHION HOUSE

Contact Store Follow Us Legal & Privacy Cookies Sitemap About Us

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Interface 03: Product Details Page

Description:

This is the product detail page which loads after user selects an item from product page. The selected product details and available options to select and prices are shown here.

CUSHION House

Home Design Your Own Sofa **Sofas** About Contact ❤️ 🛒 🔎 ⚡



Blackly

Type: SOFA

Size: 80 inches (203cm)

Fabric: Black

Timber: Jack wood

Cash on Delivery Available
7 Days Returns

39 101 56
Sofa Neoclassic Modern

Rs 220,000

+ 1 -

BUY NOW **ADD TO CART** Heart



Description

The Milan sofa makes all the world its stage with luxurious velvet, combining glamour and comfort.

- Side tufting detail adds a touch of glamour, while the polished metal legs provide stability and style.
- Velour upholstery is not only stylish, but irresistibly soft to the touch.
- The large overstuffed cushions are filled with memory foam and supported with springs, for a comfort that matches its style.
- Frame constructed of corner-blocked, nailed and glued hardwood solids for rugged durability and strength.
- Sinuous wire S-springs prevent cushion sagging.
- High-density pocketed coil cushions wrapped in Dacron fiber, and memory foam to ensure comfortable seating.
- 100% Polyester
- Sofa includes 2 back pillows, 2 bolster side pillows, 4 velour throw pillows, and 2 fur throw pillows.

— Feedbacks —

Submit

Jucky Jessica

I fell in love with this sofa when I first saw it in the store, and the price was so low that I went with it. It looks so modern and beautiful and so comfortable so far! I love that it fits perfectly + some friends! It's brand new, so I can't speak for the supply, but I like him so far!

yesterday-2:30 PM

Jucky Jessica

I purchased the blue couch, and it is so vibrant. It adds a lot of character to your room. It is extremely comfortable to the point where I almost rather sleep on the couch than in the bed LOL. I would recommend this couch to anybody who is looking for a modern but sophisticated Option! I purchased the blue couch, and it is so vibrant. It adds a lot of character to your room. It is extremely comfortable to the point where I almost rather sleep on the couch than in the bed LOL. I would recommend this couch to anybody who is looking for a modern but sophisticated Option

yesterday-2:30 PM

CUSHION HOUSE

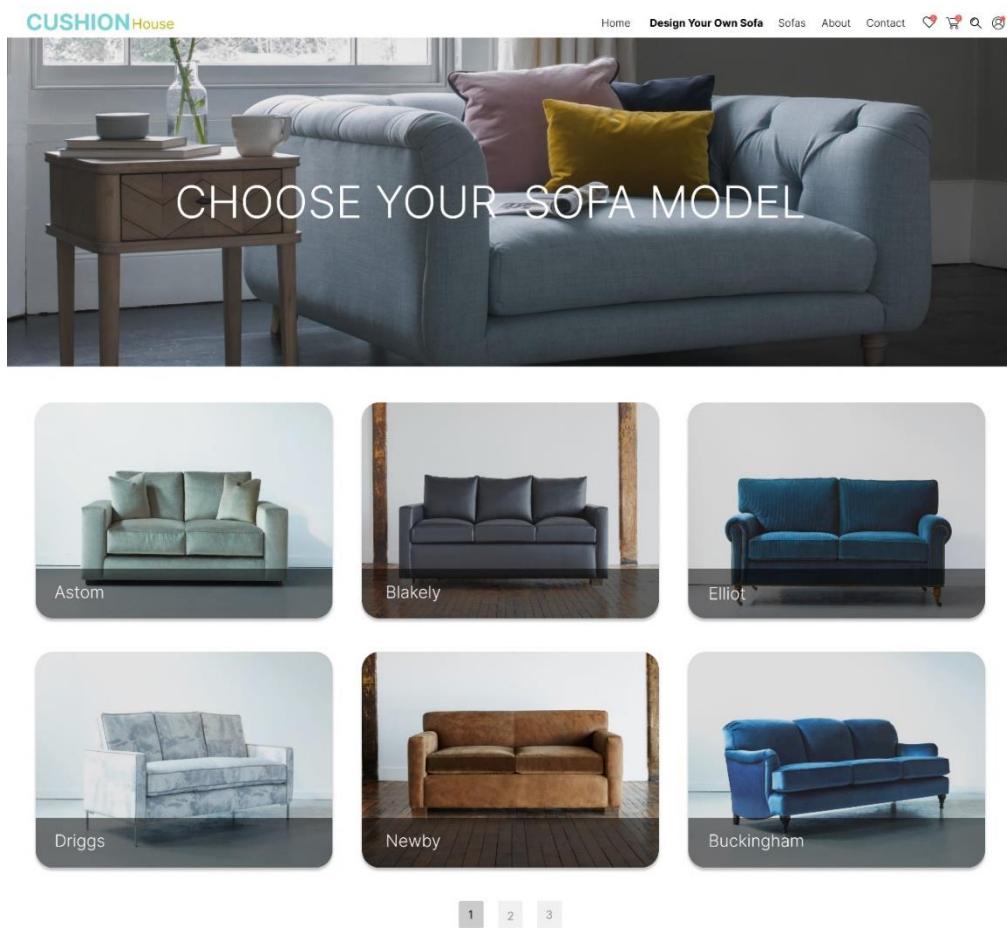
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Interface 04: Sofa Model Page

Description:

This is the sofa model page, the first step of customize your own sofa option where the user gets to select the modal or the type of the sofa they want to customize



Interface 05: Cart Page

Description:

This is the cart page of this website where customers can review and manage their selected items before proceeding to checkout. It provides clear and concise information about the products, their quantities, and their total cost, as well as options for modifying quantities, applying discounts, and estimating delivery charges. The cart page also includes a prominent call-to-action button that directs customers to the checkout process, as well as links to related pages.

The screenshot displays the CUSHION House cart page. At the top, the navigation menu includes Home, Design Your Own Sofa, Sofas, About, Contact, and a search bar. The main content area shows three items in the cart:

- Blackly Sofa**: The Milan sofa makes all the world its stage with luxurious velour, combining glamour and comfort. Side tufting...
Color: Teal
Size: 65 inches
Quantity: 1
Price: Rs 220,000/= Remove
- Astom Sofa**: The Milan sofa makes all the world its stage with luxurious velour, combining glamour and comfort. Side tufting...
Color: Gold
Size: 65 inches
Quantity: 2
Price: Rs 440,000/= Remove
- Blackly Sofa**: The Milan sofa makes all the world its stage with luxurious velour, combining glamour and comfort. Side tufting...
Color: Black
Size: 65 inches
Quantity: 1
Price: Rs 220,000/= Remove

Summary

Blackly Sofa (x1)	Rs 220,000
Astom Sofa (x2)	Rs 440,000
Blackly Sofa (x1)	Rs 220,000
Total	Rs 880,000

Checkout Now

CUSHION HOUSE

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Interface 06: Wishlist Page

Description:

This is the wish list page in Cushion House e-commerce website which allows customers to save and organize products they are interested in but not ready to purchase. It is easy to use, display relevant information about saved items, and provide options for managing the wish list. It can help customers make informed purchase decisions and e-commerce websites understand customer preferences.

The screenshot shows the Wishlist page for the Blackly Sofa on the Cushion House website. The page features a header with the logo 'CUSHION House' and navigation links for Home, Design Your Own Sofa, Sofas, About, Contact, and a search bar. Below the header, there are three items listed in a grid, each representing a different color variation of the Blackly Sofa. Each item card includes a thumbnail image, the product name 'Blackly Sofa', a brief description, color and size options, and price ('Rs 220,000/-'). To the right of each item are two buttons: 'Move to Cart' and 'Remove'. At the bottom of the page, there is a footer section with the company name 'CUSHION HOUSE' and links to Contact, Store, Follow Us, Legal & Privacy, Cookies, Sitemap, and About Us. A copyright notice at the bottom states 'Copyright © 2019-2022'.

Owner

Interface 07: Owner Dashboard

Description:

This is the dashboard of the Cushion House e-commerce platform. The dashboard provides an overview of the company's sales and performance. It includes a sales summary report, which gives an overview of the company's sales figures and trends over time. The dashboard also includes feeds, which provide updates on new products, promotions, and other important information. Additionally, the dashboard displays orders that are pending, allowing the company to track and manage their incoming orders efficiently. The data is presented in an attractive and clear manner, making it easy to understand and use. Overall, the dashboard is an essential tool for Cushion House to monitor and manage their e-commerce business.

The screenshot shows the Owner Dashboard for the Cushion House e-commerce platform. The dashboard features a header with the brand logo and navigation links for Home, Dashboard, Product, Customer, Order, Customize Inquiry, Payment Details, Delivery Person, Suppliers, Purchase, Raw Materials, Reports, and Feedback. The main content area is divided into several sections: a Sales Summary chart comparing 'Previous Month' (orange) and 'This Month' (blue) sales figures; a Feeds section listing notifications such as pending messages, received orders, user registration, generated reports, and customized order receipts; and an Orders Pending table showing five entries for 'Monster Admin' with details like customer name, telephone, address, payment status, amount, and order status (New, Pending, Declined). The overall design is clean and modern, using a light blue color scheme and large, legible fonts.

Interface 08: Manage Products

Description:

This is the product page of the Cushion House e-commerce platform. The product page displays all the data about the products available on the website. It is where the admin can create, edit, and delete products from the site. The page includes all the relevant details about each product, such as its name, price, description, and images. The page also allows the admin to manage the products' availability, categorization, and other features. Overall, the product page is an essential tool for Cushion House to manage their inventory and product offerings on the e-commerce platform.

The screenshot shows the 'Product' management page. On the left, there's a sidebar with a logo and various navigation links: Dashboard, Product (selected), Customer, Order, Customize Inquiry, Payment Details, Delivery Person, Suppliers, Purchase, Raw Materials, Reports, and Feedback. The main content area has a title 'Product' and a 'Create Product' button. Below is a table listing seven sofa products. Each row contains columns for Id, Name, Category, Model, Size, Color, Created Date, and Action (Edit and Remove buttons).

ID	Name	Category	Model	Size	Color	Created Date	Action
1	Blackly	Sofa	Sofa	80 inches	Black	2020-08-24	Edit Remove
2	Blackly	Sofa	Sofa	80 inches	Black	2020-08-24	Edit Remove
3	Blackly	Sofa	Sofa	80 inches	Black	2020-08-24	Edit Remove
4	Blackly	Sofa	Sofa	80 inches	Black	2020-08-24	Edit Remove
5	Blackly	Sofa	Sofa	80 inches	Black	2020-08-24	Edit Remove
6	Blackly	Sofa	Sofa	80 inches	Black	2020-08-24	Edit Remove
7	Blackly	Sofa	Sofa	80 inches	Black	2020-08-24	Edit Remove

Interface 09: Manage Walking Customer

Description:

This is the customer page of the Cushion House e-commerce platform. The customer page displays all the data about the customers of the website. It is where the admin can register, edit, and delete customer details from the site. The page includes all the relevant information about each customer, such as their name, contact details, and order history. The page also allows the admin to manage customer accounts, subscriptions, and other features. Overall, the customer page is an essential tool for Cushion House to manage their customer relationships and interactions on the e-commerce platform.

The screenshot shows the 'Customer' management page of the Cushion House e-commerce platform. The left sidebar contains navigation links for Dashboard, Product, Customer (selected), Order, Customize Inquiry, Payment Details, Delivery Person, Suppliers, Purchase, Row Materials, Reports, and Feedback. The main content area has a header 'Customer' with a 'Home > Product' breadcrumb. Below the header is a 'Register New Customer' button. A table lists five customer entries, each with an 'Edit' and 'Remove' button. The table columns are Id, Name, Address, Telephone, Email, Created Date, and Action.

ID	Name	Address	Telephone	Email	Created Date	Action
1	Rashan Nilaksha	23/3 Rahula Rd, Mathugama	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>
2	Rashan Nilaksha	23/3 Rahula Rd, Mathugama	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>
3	Rashan Nilaksha	23/3 Rahula Rd, Mathugama	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>
4	Rashan Nilaksha	23/3 Rahula Rd, Mathugama	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>
5	Rashan Nilaksha	23/3 Rahula Rd, Mathugama	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>

Interface 10: Manage Orders Page

Description:

This is where you can view and manage all of your orders as an administrator. On this page, you will find a list of all orders placed through the Cushion House website. Order number: A unique identifier for the order. You can use this number to reference the order with customer service or for your own records. Customer: The name of the person who placed the order. Total: The total cost of the order, including any taxes or shipping fees. Payment: The payment method used to complete the order. Date: The date that the order was placed. Order status: The current status of the order, such as "New," "Delivered," "processing," or "Declined". As an administrator, you also have the ability to place new orders on the system through this page. Simply click the "Place New Order" button and follow the prompts to enter the customer's information and select the products for the order.

The screenshot shows the 'Orders' page of the Cushion House administration interface. The left sidebar contains navigation links for Dashboard, Product, Customer, Order, Customize Inquiry, Payment Details, Delivery Person, Suppliers, Purchase, Row Materials, Reports, and Feedback. The main content area has a header 'Orders' and a sub-header 'Home > Product'. It features a 'Place New Order' button and a table listing five orders. The table columns are Id, Customer, Total, Payment, Created Date, and Status. The orders are:

Id	Customer	Total	Payment	Created Date	Status
1	Rashan Nilaksha	440,000	Paid	2020-08-24	New
2	Rashan Nilaksha	440,000	Paid	2020-08-24	Delivered
3	Rashan Nilaksha	440,000	Paid	2020-08-24	Processing
4	Rashan Nilaksha	440,000	Paid	2020-08-24	Declined
5	Rashan Nilaksha	440,000	Paid	2020-08-24	Processing

Interface 11: Order Details Page

Description:

When a user selects an order from the order details page, they will be taken to a page that displays all the information related to that specific order. This page will include the order number, the date the order was placed, the name and contact information of the customer who placed the order, the items that were included in the order, the total cost of the order, and the status of the order. When a user clicks the "generate invoice" button on the order details page.

The screenshot shows the 'Order' details page for Order ID 1. The page has a sidebar with navigation links and a main content area displaying order information and a product table.

Order Information:

Order Id	1	Payment Method	Full Paid
Order Date	2022-08-24	Total Bill	400,000
Order Status	Completed	Delivery Person id	23
Customer Name	Rashan Nilaksha	Invoice Id	0223
Customer Email	rashan@gmail.com		
Customer Telephone	0783432342		
Customer Address	23/3 De Alwis rd, katubedda,Moratuwa		

Product Table:

Product Id	Product Name	Quantity	Product Price(Rs)
1	Blackly	1	200000
1	Astom	1	200000
Total		2	400000

Buttons:

- Generate Invoice (blue button)

Interface 12: Invoice

Description:

The system will gather all the necessary information for the invoice, including the order number, the date the order was placed, the name and contact information of the customer who placed the order, the items that were included in the order, the total cost of the order, and any relevant payment information and taxes or fees. The system will use this information to create a PDF invoice document. The PDF invoice will either be displayed on the screen for the user to view, or it will be downloaded to the user's computer, depending on the system's settings and the user's browser preferences. The user can then save or print the invoice as needed.

		Cushion House 280/19 Dampe, Madapatha,Piliyandala 0704287618																	
Date	2022-11-20	Customer Name	Rashan Nilaksha																
Invoice Id	0223	Customer Email	rashan@gmail.com																
Order Id	1	Customer Telephone	0783432342																
Order Date	2022-08-24	Customer Address	23/3 De Alwis rd, katubedda,Moratuwa																
<table border="1"><thead><tr><th>Product Id</th><th>Product Name</th><th>Quantity</th><th>Product Price(Rs)</th></tr></thead><tbody><tr><td>1</td><td>Blackly</td><td>1</td><td>200000</td></tr><tr><td>1</td><td>Astom</td><td>1</td><td>200000</td></tr><tr><td colspan="2">Total</td><td>2</td><td>400000</td></tr></tbody></table>				Product Id	Product Name	Quantity	Product Price(Rs)	1	Blackly	1	200000	1	Astom	1	200000	Total		2	400000
Product Id	Product Name	Quantity	Product Price(Rs)																
1	Blackly	1	200000																
1	Astom	1	200000																
Total		2	400000																

Interface 13: Choose Model for Design Sofa Page

Description:

When a user selects the "customize inquiry" option on the Cushion House ecommerce website, they are given the opportunity to design and customize their own sofa to meet their specific needs and preferences. This feature is designed to allow customers to create a unique and personalized piece of furniture that is tailored to their specific tastes and requirements. The process begins by selecting a model design from a list of options, such as Astom, Blakely, Elliot, Driggs, Newby, and Buckingham. Each of these options represents a different style of sofa, with its own set of features and design elements.

The screenshot shows a user interface for selecting a sofa model. On the left is a sidebar with the 'CUSHION house' logo and a navigation menu. The main area is titled 'Choose Model to Design' and displays six sofa models in a grid: Astom (light blue), Blakely (dark grey/black), Elliot (dark teal), Driggs (white/light blue), Newby (brown), and Buckingham (blue).

- Dashboard
- Product
- Customer
- Order
- Customize Inquiry**
- Payment Details
- Delivery Person
- Suppliers
- Purchase
- Raw Materials
- Reports
- Feedback

Choose Model to Design

Home > Product

Astom	Blakely	Elliot
Driggs	Newby	Buckingham

Interface 14: Manage Delivery Person Page

Description:

The delivery person page on Cushion House e-commerce website allows the administrator to manage and view all details of registered delivery persons. It includes contact information, schedules and order status for efficient tracking and management of deliveries. Administrator can also register new delivery persons on this page for smooth order delivery experience for customers

Register New Delivery Person						
Id	Name	Address	Telephone	Email	Created Date	Action
1	Rashan Nilaksha	23/3 Rahula Rd, Mathugama	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>
2	Rashan Nilaksha	23/3 Rahula Rd, Mathugama	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>
3	Rashan Nilaksha	23/3 Rahula Rd, Mathugama	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>
4	Rashan Nilaksha	23/3 Rahula Rd, Mathugama	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>
5	Rashan Nilaksha	23/3 Rahula Rd, Mathugama	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>

Interface 15: Manage Supplier Details Page

Description:

The Supplier page on Cushion House e-commerce website allows the administrator to manage and view details of registered suppliers, including contact information and delivery schedules. The page also allows tracking of order status with the suppliers, ensuring timely fulfillment and availability of goods to meet customer demands. It also has a feature to register new suppliers making it a useful tool for the administrator to manage the inventory and relationship with suppliers for smooth ecommerce operations.

The screenshot shows the 'Supplier' section of the Cushion House website. The left sidebar includes links for Dashboard, Product, Customer, Order, Customize Inquiry, Payment Details, Delivery Person, Suppliers (highlighted), Purchase, Row Materials, Reports, and Feedback. The main content area has a header 'Supplier' and a sub-header 'Home > Delivery Person'. A 'Register New Supplier' button is visible. Below is a table with the following data:

Id	Name	Row Material	Telephone	Email	Created Date	Action
1	Rashan Nilaksha	Timber	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>
2	Rashan Nilaksha	Fabric	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>
3	Rashan Nilaksha	Timber	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>
4	Rashan Nilaksha	Fabric	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>
5	Rashan Nilaksha	Fabric	0785634342 0112845345	Rashan@gmail.com	2020-08-24	<button>Edit</button> <button>Remove</button>

Interface 16: Manage Purchase Order Page

Description:

The Purchase Order page on Cushion House e-commerce website allows the administrator to view and manage purchase orders placed with suppliers. The page provides a central location to view purchase orders details, including date, supplier, items and total cost, and status of each order. The administrator can also update order status, add notes and make changes, ensuring timely and efficient processing and delivery.

The screenshot shows the 'Purchase Order' section of the Cushion House website. On the left, there is a sidebar with various navigation options: Dashboard, Product, Customer, Order, Customize Inquiry, Payment Details, Delivery Person, Suppliers, Purchase, Row Materials, Reports, and Feedback. The main content area is titled 'Purchase Order' and shows a table of existing purchase orders. The table has columns for Id, Supplier, Total, Payment, Created Date, and Status. There are four rows in the table, all of which have 'Rashan Nilaksha' as the supplier and '440,000' as the total. The first row has a green button labeled 'Received'. The second row has a blue button labeled 'Delivered'. The third and fourth rows have orange buttons labeled 'Not yet'.

Id	Supplier	Total	Payment	Created Date	Status
1	Rashan Nilaksha	440,000	Paid	2020-08-24	Received
2	Rashan Nilaksha	440,000	Paid	2020-08-24	Delivered
3	Rashan Nilaksha	440,000	Paid	2020-08-24	Not yet
5	Rashan Nilaksha	440,000	Paid	2020-08-24	Not yet

Interface 17: Purchase Order details Page

 CUSHION
house

- Dashboard
- Product
- Customer
- Order
- Customize Inquiry
- Payment Details
- Delivery Person
- Suppliers
- Purchase
- Row Materials
- Reports
- Feedback

Purchase Order

Home > Order

Purchase Order	1
Purchase Order Date	2022-08-24
Total Bill	400,000
Purchase Order Status	not yet
Supplier Name	Rashan Nilaksha
Supplier Email	rashan@gmail.com
Supplier Telephone	0783432342
Supplier Address	23/3 De Alwis rd, katubedda,Moratuwa

Row Material id	Row Material	Quantity	Price(Rs)
1	Black Fabric	1	200000
1	Blue Fabric	1	200000
Total		2	400000

Good Received

Interface 18: Manage Row Materials Page

Description:

The Raw Materials page of the Cushion House e-commerce website is an exclusive page designed for the use of the website's admin. This page is not visible or accessible to customers, and is used by the admin to manage the website's inventory of raw materials.

This page provides the admin with a centralized location to view, add, and edit information about the various materials used in the cushions sold on the website. The page has a clean and organized design, making it easy for the admin to manage the materials.

The screenshot shows the 'Row Materials' section of the Cushion House admin interface. On the left, there is a sidebar with various navigation options: Dashboard, Product, Customer, Order, Customize Inquiry, Payment Details, Delivery Person, Suppliers, Purchase, Row Materials (which is the active tab), Reports, and Feedback. The main content area is titled 'Row Materials' and shows five blue buttons with white text: 'Manage Model', 'Manage Size', 'Manage Type', 'Manage Timber', and 'Manage Fabric'. The 'Row Materials' tab in the sidebar is highlighted with a blue background.

Interface 19: Manage Model Page

Description:

The Modal page within the Raw Materials page is an admin-only page where they can manage and update the different types of Modal fibers used in the products sold on the website. It is a centralized, clean and organized page to manage the inventory and ensure products are made of high-quality Modal fibers.

Models

Add New Model

id	Model	cost	created date	Action
1	normal	-	2022-10-23	<button>Edit</button> <button>Remove</button>
2	Blackly	120,000	2022-10-23	<button>Edit</button> <button>Remove</button>
3	Astom	120,000	2022-10-23	<button>Edit</button> <button>Remove</button>
2	snow	120,000	2022-10-23	<button>Edit</button> <button>Remove</button>

Interface 20: Manage Size Page

Description:

The Sizes page within the Raw Materials page is an admin-only page where they can manage and update the different sizes of materials used in the products sold on the website. It is a centralized, clean and organized page to manage the inventory and ensure cushions in desired sizes and measurements are available for customers.

The screenshot shows the 'Sizes' management page for the 'CUSHION house' application. The left sidebar contains a navigation menu with various options: Dashboard, Product, Customer, Order, Customize Inquiry, Payment Details, Delivery Person, Suppliers, Purchase, Row Materials (which is currently selected and highlighted in blue), Reports, and Feedback. The main content area has a title 'Sizes' and a breadcrumb 'Home > Row Materials'. Below the title is a button 'Add New Size'. A table lists four entries with columns: Id, Size, cost, created date, and Action (with 'Edit' and 'Remove' buttons). The data is as follows:

Id	Size	cost	created date	Action
1	60 inches	30000	2022-10-23	Edit Remove
2	65 inches	40000	2022-10-23	Edit Remove
3	70 inches	50000	2022-10-23	Edit Remove
4	75 inches	60000	2022-10-23	Edit Remove

Interface 21: Manage Type Page

Description:

The Type page within the Raw Materials page is an admin-only page where they can manage and update the different types of materials used in the products sold on the website. It is a centralized, clean and organized page that allows them to manage the inventory and ensure high-quality materials are used in the cushions sold on the website.

The screenshot shows a web application interface for managing material types. On the left is a sidebar with the 'CUSHION house' logo and a navigation menu. The main content area is titled 'Type' and shows a table of material types with columns for ID, Type, cost, created date, and Action (Edit and Remove buttons).

Sidebar Navigation:

- Dashboard
- Product
- Customer
- Order
- Customize Inquiry
- Payment Details
- Delivery Person
- Suppliers
- Row Materials**
 - Reports
 - Feedback

Main Content Area:

Type

Home > Row Materials

Add New Type				
ID	Type	Cost	Created Date	Action
1	Left Sectional	40000	2022-10-23	<button>Edit</button> <button>Remove</button>
2	Right Sectional	40000	2022-10-23	<button>Edit</button> <button>Remove</button>
3	Sofa	30000	2022-10-23	<button>Edit</button> <button>Remove</button>
4	No Type	-	2022-10-23	<button>Edit</button> <button>Remove</button>

Interface 22: Manage Timber Page

Description:

The Timber page within the Raw Materials page is an admin-only page where they can manage and update the different types of timber used in the wooden cushions or wooden based products sold on the website. It is a centralized, clean and organized page to manage the inventory and ensure wooden products are made of high-quality timber materials.

The screenshot shows the 'Timber' management page. At the top, there is a navigation bar with the 'CUSHION house' logo, a search bar, and links for 'Dashboard', 'Row Materials', 'Reports', and 'Feedback'. Below the navigation, the main content area has a title 'Timber' and a breadcrumb 'Home > Row Materials'. A button 'Add New Timber' is at the top left of the data table. The table lists four entries of timber with columns: 'id', 'Timber', 'cost', 'created date', and 'Action'. Each entry includes an 'Edit' button (green) and a 'Remove' button (red). The data is as follows:

id	Timber	cost	created date	Action
1	Jack wood	40000	2022-10-23	<button>Edit</button> <button>Remove</button>
2	Pine wood	40000	2022-10-23	<button>Edit</button> <button>Remove</button>
3	mango	30000	2022-10-23	<button>Edit</button> <button>Remove</button>
4	No Timber	-	2022-10-23	<button>Edit</button> <button>Remove</button>

Interface 23: Manage Fabric Page

Description:

The Fabric page within the Raw Materials page is an admin-only page where they can manage and update the different types of fabrics used in the products sold on the website. It is a centralized, clean and organized page to manage the inventory and ensure cushions are made of high-quality fabrics.

The screenshot shows the 'Fabric' management page. At the top left is a 'Add New Fabric' button. Below it is a table with the following data:

ID	Color	Cost	Created Date	Action
1	Red	10000	2022-10-23	<button>Edit</button> <button>Remove</button>
2	Blue	10000	2022-10-23	<button>Edit</button> <button>Remove</button>
3	Yellow	10000	2022-10-23	<button>Edit</button> <button>Remove</button>
4	Black	10000	2022-10-23	<button>Edit</button> <button>Remove</button>
5	No Color	-	2022-10-23	<button>Edit</button> <button>Remove</button>

Interface 24: Generate Report Page

Description:

The Raw Materials page is an admin-only page on the Cushion House e-commerce website where they can manage the website's inventory of materials and update material properties, benefits, and care instructions. It also includes a section for eco-friendly materials, and the admin can manage inventory levels and place orders for new materials. It is a centralized, clean and organized page to help the admin ensure the website sells high-quality cushions.

The screenshot shows the Admin Dashboard of the Cushion House website. On the left, there is a sidebar with various menu items: Dashboard, Product, Customer, Order, Customize Inquiry, Payment Details, Delivery Person, Suppliers, Purchase, Row Materials, Reports (which is currently selected and highlighted in blue), and Feedback. The main content area has a header "Reports" and a sub-header "Home > Raw Materials". Below this, there is a form with fields for "Report" (with a dropdown placeholder "Select Report"), "From Date" (with a date input field), "To" (with a date input field), and a large blue "Generate Report" button.

Interface 25: Customer Feedback Page

Description:

The Feedback page within the Raw Materials page is an admin-only page where they can view and reply to feedbacks related to the materials used in the products sold on the website. It is a centralized, clean and organized page to manage customer feedback, ensuring prompt resolution of any issues and improve customer satisfaction.

The screenshot shows the 'Feedback' section of the 'Row Materials' page. On the left, there's a sidebar with various navigation options: Dashboard, Product, Customer, Order, Customize Inquiry, Payment Details, Delivery Person, Suppliers, Purchase, Row Materials, Reports, and Feedback. The 'Feedback' option is highlighted with a green border. The main content area has a header 'Feedback' and a breadcrumb 'Home > Row Materials'. Below the header is a table with the following data:

Customer Name	Comment	created date	Action
Rashan Nilaksha	I purchased the blue couch, and it is so vibrant. It adds a lot of character to your room. It is extremely comfortable to the point where I almost rather sleep on the couch than in the bed LOL. I would recommend this couch to anybody who is looking for a modern but sophisticated Option I purchased the blue couch, and it is so vibrant. It adds a lot of character to your room. It is extremely comfortable to the point where I almost rather sleep on the couch than in the bed LOL. I would recommend this couch to anybody who is looking for a modern but sophisticated Option	2022-10-23	<button>Reply</button> <button>View</button>

4.3 File Designs

Table 01: customer

Primary Key: customer_id

Field Names	Data Type	Data Size	Description
customer_id	Number	05	Customer ID
fname	Text	15	First Name
lname	Text	15	Last Name
address_no	Text	05	Address Number
city	Text	20	Address City Name
street	Text	20	Address Street Name
email	Text	30	Customer Email Address
password	Text	15	Customer Password
date	Date		Created Date
Record Size		125	

Table 02: customer_phone

Primary Key: customer_id, phone

Foreign Key: customer_id

Field Names	Data Type	Data Size	Description
customer_id	Number	05	Customer ID
phone	Number	10	Customer Phone Number
Record Size		15	

Table 03: customer_invoice

Primary Key: invoice_id

Foreign Key: order_id

Field Names	Data Type	Data Size	Description
invoice_id	Number	05	Invoice ID
total_bill	Number	10	Total Bill
discount_amount	Number	10	Discount Amount
paid_amount	Number	10	Paid Amount
date	Date		Created Date
payment_status	Text	10	Payment Status
order_id	Number	05	Order ID
Record Size		50	

Table 04: customer_payment

Primary Key: payment_id

Foreign Key: customer_id, invoice_id

Field Names	Data Type	Data Size	Description
payment_id	Number	05	Payment ID
payment_type	Text	10	Payment Type
date	Date		Payment Date
customer_id	Number	05	Customer ID
invoice_id	Number	05	Invoice ID
Record Size		25	

Table 05: customer_product_return

Primary Key: return_id

Foreign Key: order_id

Field Names	Data Type	Data Size	Description
return_id	Number	05	Return ID
date	Date		Product Returned Date
reason	Number	100	Product Return Reason
order_id	Text	05	Order ID
Record Size		110	

Table 06: product_return

Primary Key: return_id, product_id

Foreign Key: return_id, product_id

Field Names	Data Type	Data Size	Description
return_id	Number	05	Return ID
product_id	Number	05	Product ID
quantity	Number	05	Quantity Returned
Record Size		15	

Table 07: customer_order

Primary Key: order_id

Foreign Key: customer_id

Field Names	Data Type	Data Size	Description
order_id	Number	05	Customer Order ID
date	Date		Order Placed Date
customer_id	Number	05	Customer ID
order_status	Text	10	Order Status
Record Size		20	

Table 08: order_product

Primary Key: order_id, product_id

Foreign Key: order_id, product_id

Field Names	Data Type	Data Size	Description
order_id	Number	05	Order ID
product_id	Number	05	Product ID
price	Number	05	Product Price
quantity	Number	05	Product Quantity
Record Size		20	

Table 09: delivery

Primary Key: delivery_id

Foreign Key: order_id, delivery_person_id

Field Names	Data Type	Data Size	Description
delivery_id	Number	05	Delivery ID
delivery_status	Text	10	Delivery Status
date	Date		Created Date
order_id	Number	05	Customer Order ID
delivery_person_id	Number	05	Delivery Person ID
Record Size		25	

Table 10: delivery_person

Primary Key: delivery_person_id

Field Names	Data Type	Data Size	Description
delivery_person_id	Number	05	Delivery Person ID
fname	Text	15	Delivery Person First Name
lname	Text	15	Delivery Person Last Name
address_no	Text	10	Address Number
street	Text	20	Address street
city	Text	20	Address City
email	Text	30	Delivery Person Email
password	Text	15	Delivery Person Password
delivery_person_status	Text	15	Delivery Person Status
date	Date		Created Date
Record Size		145	

Table 11: delivery_person_phone

Primary Key: delivery_person_id, phone

Foreign Key: delivery_person_id

Field Names	Data Type	Data Size	Description
delivery_person_id	Number	05	Delivery Person ID
phone	Number	10	Phone Number
Record Size		15	

Table 12: product

Primary Key: product_id

Foreign Key: fabric_id, size_id, timber_id, type_id

Field Names	Data Type	Data Size	Description
product_id	Number	05	Product ID
category	Text	10	Product Category
unit_price	Text	05	Unit Price
description	Text	100	Description
quantity	Number	05	Quantity
date	Date		Created date
model	Text	20	Model ID
type_id	Number	05	Type ID
fabric_id	Number	05	Fabric ID
size_id	Number	05	Size ID
timber_id	Number	05	Timber ID
is_remove	bool		Is this product removed?
Record Size		185	

Table 13: product_image

Primary Key: product_id, image_path

Foreign Key: product_id

Field Names	Data Type	Data Size	Description
product_id	Number	05	Product ID
image_path	Text	100	Image Path
Record Size		105	

Table 14: product_size

Primary Key: size_id

Field Names	Data Type	Data Size	Description
size_id	Number	05	Size ID
cost	Number	05	Size Cost
size	Text	10	Size
date	Date		Created Date
Record Size		20	

Table 15: product_type

Primary Key: type_id

Field Names	Data Type	Data Size	Description
type_id	Number	05	Type ID
cost	Number	05	Type Cost
type	Text	10	Type
image_path	Text	100	Type Image Path
date	Date		Created Date
Record Size		120	

Table 16: product_timber

Primary Key: timber_id

Foreign Key: supplier_id

Field Names	Data Type	Data Size	Description
timber_id	Number	05	Timber ID
cost	Number	05	Timber Cost
name	Text	10	Timber Name
date	Date		Created Date
supplier_id	Number	05	Supplier ID
Record Size		25	

Table 17: product_fabric

Primary Key: fabric_id

Foreign Key: supplier_id

Field Names	Data Type	Data Size	Description
fabric_id	Number	05	Fabric ID
cost	Number	05	Fabric Cost
fabric	Text	10	Fabric Name
date	Date		Created Date
Image_path	Text	100	Fabric Image Path
supplier_id	Number	05	Supplier ID
Record Size		125	

Table 18: supplier

Primary Key: supplier_id

Field Names	Data Type	Data Size	Description
supplier_id	Number	05	Supplier ID
fname	Text	15	First Name
lname	Text	15	Last Name
email	Text	30	Email
location	Text	40	location
date	Date		Created Date
Record Size		105	

Table 19: supplier_phone

Primary Key: supplier_id, phone

Foreign Key: supplier_id

Field Names	Data Type	Data Size	Description
supplier_id	Number	05	Supplier ID
phone	Number	10	Supplier Phone Number
Record Size	15		

Table 20: purchase_order

Primary Key: po_id

Foreign Key: supplier_id

Field Names	Data Type	Data Size	Description
po_id	Number	05	Purchase Order ID
date	Date		Date
supplier_id	Number	05	Supplier ID
Record Size	15		

Table 21: timber_purchase_order

Primary Key: po_id, timber_id

Foreign Key: po_id, timber_id

Field Names	Data Type	Data Size	Description
po_id	Number	05	Purchase Order ID
timber_id	Number	05	Timber ID
price	Number	07	Timber Price
quantity	Number	05	Timber Quantity
Record Size	22		

Table 22: fabric_purchase_order

Primary Key: po_id, fabric_id

Foreign Key: po_id, fabric_id

Field Names	Data Type	Data Size	Description
po_id	Number	05	Purchase Order ID
fabric_id	Number	05	Fabric ID
price	Number	07	Fabric Price
quantity	Number	05	Fabric Quantity
Record Size		22	

Table 23: purchase_invoice

Primary Key: invoice_id

Foreign Key: po_id,

Field Names	Data Type	Data Size	Description
invoice_id	Number	05	Purchase Invoice ID
po_id	Number	05	Purchase Order ID
payment_status	Text	15	Payment Status
total_bill	Number	7	Total Bill Amount
paid_amount	Number	7	Balance Amount
date	date		Created Date
Record Size		39	

Table 24: good_receive_note

Primary Key: grn_id

Foreign Key: po_id

Field Names	Data Type	Data Size	Description
grn_id	Number	05	Good Receive Note ID
status	Text	15	Good Receive Status
date	Date		Received Date
po_id	Number	05	Purchase Order ID
Record Size		25	

Table 25: customer_wishlist

Primary Key: wish_id

Foreign Key: customer_id

Field Names	Data Type	Data Size	Description
wish_id	Number	05	Customer Wish ID
date	Date		Created Date
customer_id	Number	05	Customer ID
Record Size		10	

Table 26: wishlist_product

Primary Key: wish_id, product_id

Foreign Key: wish_id, product_id

Field Names	Data Type	Data Size	Description
wish_id	Number	05	Customer Wish ID
product_id	Number	05	Product ID
Record Size		10	

Table 27: customer_feedback

Primary Key: feedback_id

Foreign Key: customer_id, product_id

Field Names	Data Type	Data Size	Description
feedback_id	Number	05	Customer Feedback ID
date	Date		Created Date
customer_id	Number	05	Customer ID
product_id	Number	05	Product ID
comment	Text	100	Comment
Record Size		110	

Table 28: invoice_product

Primary Key: invoice_id, product_id

Foreign Key: invoice_id, product_id

Field Names	Data Type	Data Size	Description
invoice_id	Number	05	Invoice ID
product_id	Number	05	Product ID
price	Number	05	Product Price
quantity	Number	05	Product Quantity
Record Size		20	

4.4 Report Layout Design

Report No: 01

Report Name: Monthly Sales Report

Description:

- The Monthly Sales Report is a crucial component in monitoring the success and progress of a business. This report provides a detailed analysis of the sales performance each month, giving valuable insights into the financial health of the company.

- The report showcases important information such as the number of products sold, the total revenue generated, and the profit margins. This information allows the business to track trends and patterns in sales, identify areas of growth, and make informed decisions to optimize performance.

- The report also provides an overview of the sales performance in comparison to previous months, enabling the business to see the impact of its efforts and adjust its strategies accordingly. The report is a vital tool for understanding the current state of the business, as well as its future potential.

- In conclusion, the Monthly Sales Report is a powerful tool for tracking the progress of a business and making data-driven decisions. By regularly analyzing this report, the business can identify areas of strength and opportunity, and take action to improve its performance and achieve its goals. write this point wise

Report Layout:

Product id	Product Name	Model	Available stock	Unit Price	No.of Item sold	Total
1	blackly	sofa	5	220000	3	660000
2	astom	sofa	6	300000	2	600000
Total					5	1260000

.....
Signature

.....
Date

Cushion House
Monthly Sales Report

Date: Monday 19th of December 2022
Time: 11.45 PM

From: 2022/05/06 To: 2022/06/06



Report No: 02

Report Name: Supplier Analysis Report

Description:

- The Supplier Analysis Report is a crucial tool in evaluating the effectiveness and reliability of suppliers. This report provides a comprehensive assessment of suppliers based on various key performance indicators, including previous transactions, best offers, and delivery punctuality.
- The report offers valuable insights into the performance of suppliers, enabling the company to make informed purchasing decisions. By analyzing the report, the company can determine which suppliers offer the best value for money, and can negotiate better prices and terms with suppliers based on their performance history.
- The report also helps the company ensure that suppliers are meeting their obligations in terms of delivery times, which is crucial for maintaining smooth operations and satisfying customer needs. By regularly monitoring the performance of suppliers, the company can identify any potential issues and take action to resolve them, thereby improving supplier relationships and strengthening the supply chain.
- In conclusion, the Supplier Analysis Report is an essential tool in optimizing the performance and efficiency of a company's supply chain. By leveraging this report, the company can make informed decisions, reduce costs, and improve overall supplier relationships, thereby contributing to the success of the business.

Report Layout:

Supplier Name	Tele	Location	Row Material id	Row Material Name	Time taken to receive (days)	Price	Updated date
chathura	0764699848	kandy	2	Jack wood	14	70000	2022-10-22
sanpath	0764699848	matara	1	Jack wood	9	81000	2022-10-22
nihal	0764699848	rajagiriya	3	Pine wood	3	90000	2022-10-22

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Signature

.....
Date

Report No: 03

Report Name: Accounts Receivable Summary Report

Description:

- The Accounts Receivable Summary Report is a vital tool for managing your cash flow and keeping track of the payments owed to you for your sales orders. The report offers a clear and detailed overview of the amount still owed to you, the status of the payments, and the date by which they are due. This information helps you to stay on top of your accounts receivable, ensuring that you are able to collect the money owed to you in a timely manner.
- By having a complete and up-to-date understanding of your accounts receivable, you can make informed decisions about your financial position, prioritize collections, and take steps to ensure that you receive payment for your sales in a timely manner. Additionally, you can use this report to identify any trends or patterns in payment behavior, and to proactively address any issues that may arise.
- In summary, the Accounts Receivable Summary Report is a valuable tool for any business looking to effectively manage its cash flow and stay on top of outstanding payments owed for sales orders.

Report Layout:

Cushion House Accounts Receivable Summary Report							
Date: Monday 19th of December 2022 Time: 11.45 PM							
Customer Name	Address	Tele	Order id	Invoice id	Total Amount	Order Date	Amount to be paid
Rashan	Mathugama	0742580892	2	2	360000	2022-10-22	120000
Vineth	kadawatha	0778713790	5	5	480000	2022-10-22	150000
Uvindu	Dehiwala	0764699848	1	1	230000	2022-10-22	70000
Total							340000
.....						
Signature				Date			

Report No: 04

Report Name: Customer Order return Report

Description:

- The Accounts Receivable Summary Report is a vital tool for managing your cash flow and keeping track of the payments owed to you for your sales orders. The report offers a clear and detailed overview of the amount still owed to you, the status of the payments, and the date by which they are due. This information helps you to stay on top of your accounts receivable, ensuring that you are able to collect the money owed to you in a timely manner.
- By having a complete and up-to-date understanding of your accounts receivable, you can make informed decisions about your financial position, prioritize collections, and take steps to ensure that you receive payment for your sales in a timely manner. Additionally, you can use this report to identify any trends or patterns in payment behavior, and to proactively address any issues that may arise.
- In summary, the Accounts Receivable Summary Report is a valuable tool for any business looking to effectively manage its cash flow and stay on top of outstanding payments owed for sales orders.

Report Layout:

Cushion House							
Order Return Report							
Date: Monday 19th of December 2022							
Time: 11.45 PM							
Customer Name	Address	Tele	Return Product	Order id	Reason	Order Return Date	Quantity
Rashan	Mathugama	0742580892	blackly	2	Damage	2022-10-22	1
Vineth	kadawatha	0778713790	astom	4	Damage	2022-10-22	1
Uvindu	Dehiwala	0764699848	snow	6	Damage	2022-10-22	1
Total							3

.....
Signature

.....
Date

Report No: 05

Report Name: Monthly Stock Report

Description:

- The Monthly Stock Report is an essential tool for effectively managing your inventory and ensuring that you always have the finished products that your customers want. This report provides a comprehensive overview of the stock levels for all the products in your inventory, including details such as product name, quantity, and location.
- In addition to the stock levels, the report also includes information on the expected demand for each product. This information helps you to understand which products are likely to be in high demand, and take steps to ensure that you have enough stock on hand to meet customer needs.
- By having access to this information, you can make informed decisions about your inventory management, including ordering new stock, re-ordering popular items, and reducing stock levels for products that are not selling as well as expected. This helps you to avoid stock shortages, reduce the risk of stock obsolescence, and improve your overall efficiency and profitability.
- In conclusion, the Monthly Stock Report is an essential tool for any business looking to effectively manage its inventory and ensure that it always has the products its customers want in stock. By providing detailed and up-to-date information on stock levels and expected demand, this report helps businesses to make informed decisions about inventory management, reducing the risk of stock shortages and improving overall efficiency.

Report Layout:

Cushion House						
Monthly Stock Report						
Date: Monday 19th of December 2022 Time: 11.45 PM						
From: 2022/05/06 To: 2022/06/06						
Product id	Product Name	Model	Unit Price	Category	Added Date	Available stock
1	blackly	sofa	220000	sofa	2022-10-03	6
2	astom	sofa	200000	sofa	2022-10-22	4
Total						10

.....
Signature

.....
Date

Conclusion

In conclusion, the suite of five reports offered by the Cushion House e-commerce platform provides businesses with comprehensive and insightful data to help them effectively manage their operations. These reports provide valuable information and analysis on a wide range of business-critical areas, from tracking sales performance and analyzing supplier relationships, to managing accounts receivable, monitoring returns, and effectively managing inventory.

With these reports, businesses have access to the information they need to make informed decisions and drive their operations forward. They can track sales performance, identify trends, improve processes, manage their finances, and ensure that they always have the products that their customers want in stock.

In short, these reports offer a comprehensive solution for businesses looking to streamline their operations, improve efficiency, and achieve their goals. Whether you are just starting out, or are looking to take your business to the next level, these reports provide the data and insights you need to succeed.

4.5 Chapter Summary

- The interface design of the Cushion House e-commerce website has been created to provide a seamless and enjoyable shopping experience for customers.
- The design includes a responsive navigation menu, detailed product pages, and a secure checkout process.
- It has been implemented using HTML, CSS, and JavaScript to ensure it is fast, responsive, and accessible.
- The design follows principles of minimalism, consistency, and ease of use, and has been tested with users to ensure it meets their needs and preferences.
- The interface includes a range of pages, including the home page, product page, product detail page, sofa model page, sofa customize page, cart page, and wishlist page.
- Each page serves a specific purpose, such as allowing users to browse and view products, customize their own sofa, or manage items in their cart.

- The interface design is intended to help customers make informed purchase decisions and help the Cushion House website understand customer preferences.

CHAPTER 5: Conclusion

- In conclusion, Cushion House's goal was to expand their business by promoting it on social media platforms. However, they encountered problems and errors while managing their business on social media. To address these issues, Cushion House decided to develop an e-commerce website as a new platform for their business.
- To gather the necessary information and requirements, we conducted research and worked closely with Cushion House. Based on their needs, we designed an e-commerce website using Figma software and developed it using HTML, CSS, Bootstrap, jQuery, JavaScript, and the Laravel framework.
- The e-commerce website will help Cushion House streamline their operations and make it easier for both the client and the admin to manage the business. It is expected to be a valuable tool for Cushion House to grow their business and reach a wider customer base.

5.1 References

- **Bootstrap** - [Introduction · Bootstrap v5.0 \(getbootstrap.com\)](https://getbootstrap.com/)
- **jQuery** - [Free jQuery Plugins and Tutorials - jQuery Script](https://jqueryscript.net/free-jquery-plugins-and-tutorials.html)
- **Laravel** - [Laravel - The PHP Framework For Web Artisans](https://laravel.com/)

Appendices

5.3 Letter Issued by the organization



CUSHION HOUSE
280/19 Dampe, Madapatha,
Piliyandala
+94 704287618
dananjayamadusanka9@gmail.com

December 18th, 2022

Dear Mr. Dinod Athukorala and team,

Launching an e-commerce website for Cushion House

As the founder of Cushion House, I am writing to confirm that we are ready to move forward with the launch of an e-commerce website for our company. As a leading provider of luxury furniture solutions in Sri Lanka, we believe that this will be a great opportunity to expand the reach of our business and make it even easier for our customers to purchase our high-quality products.

As we discussed, our team at Cushion House has a wealth of experience in the modern furniture and sofa manufacturing field, and we are confident that we can deliver a website that meets all of your expectations and more. We look forward to working closely with you and your team to bring this project to fruition and help our business thrive in the digital age.

If you have any questions or concerns, please don't hesitate to contact us. We are excited to move forward with this partnership and build a successful online presence for Cushion House.

Thank you
Your Sincerely

A handwritten signature in black ink, appearing to read "Jgn" followed by a dotted line.

W.A.A Jananjaya Madushanka
Founder

5.4 Log Sheet

Date	Supervisor comment	Indexes of Students	Supervisor Signature
21/10/2022	Use case and Class diagram need to change. Better to add more use cases	CODCSD212F-020 CODCSD212F-024 CODCSD212F-001 CODCSD212F-034	
04/11/2022	Use case diagram okay. Class diagram okay	CODCSD212F-020 CODCSD212F-024 CODCSD212F-001 CODCSD212F-034	
18/11/2022	ER diagram need small change	CODCSD212F-020 CODCSD212F-024 CODCSD212F-001 CODCSD212F-034	
18/11/2022	ER diagram and File Design need to show again.	CODCSD212F-020 CODCSD212F-024 CODCSD212F-001 CODCSD212F-034	
		CODCSD212F-020 CODCSD212F-024 CODCSD212F-001 CODCSD212F-034	

Thank you