

# **Apparel Printing Management System for Carlos Embellishers**

**Diploma in Computer System Design**

**Final Project Documentation**

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15/05/2024

## **Declaration**

“We clarity that this project does not incorporate without acknowledgement, any material previously submitted for a Diploma in any institution and to the best of our knowledge and belief, it does not contain any material previously published or written by another person or ourselves except where due reference is made in the text. We also hereby give consent for our project report, if accepted, to be made available for photocopying and for interlibrary loans, and for the title and summary to be made available to outside organizations.”

Date: 05/2023

Signatures:

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A.P.G.D.C. WIJERATHNA

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N.B.U. SAMANSIRI

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S.M.D.D. WICKRAMASINGHE

Signature of the supervisor: .....

## **Preamble**

### **Abstract**

Carlos Embellishers, located in Veyangoda, Sri Lanka, specializes in the custom printing of apparel, catering to a diverse clientele seeking personalized clothing options. The company's services range from screen printing and embroidery to the latest direct-to-garment technologies, providing customized solutions for individual and corporate needs. The role of Carlos Embellishers is to design, print, and supply tailor-made garments, including promotional t-shirts, uniforms, and fashion items. With the increasing demand for personalized apparel and the necessity for businesses to stand out through branding, Carlos Embellishers has committed itself to leveraging innovative printing technologies and creative solutions to meet and exceed customer expectations. Amidst economic fluctuations and changing fashion trends, the adoption of advanced digital tools and eco-friendly printing practices has become essential for the sustainability and growth of the company. We selected this firm because our team was tasked with addressing a specific challenge within the organization, aiming to enhance its operational efficiency and market reach.

## **Acknowledgment**

We would like to extend our deepest gratitude to all those who have played a part in bringing this project to success. The effort of various expertise has been instrumental in navigating the complexities of this project.

We are especially thankful to our supervisor, Mr. Sujeewa Sampath, whose invaluable guidance and wisdom were pivotal throughout this journey. His readiness to share his profound knowledge and provide constant support allowed us to grasp the full scope of the project and effectively manage the tasks assigned to us.

Additionally, we are grateful for the encouragement and support from our colleagues. Their motivation and belief in our capabilities have been a source of strength and inspiration, enabling us to persevere through challenges and strive towards our objectives with determination.

This acknowledgment would be incomplete without expressing our appreciation to everyone involved, from peers to professionals, who contributed their insights and feedback, enriching our project experience. We are sincerely thankful for the collective contributions that made this project not only possible but also a success.

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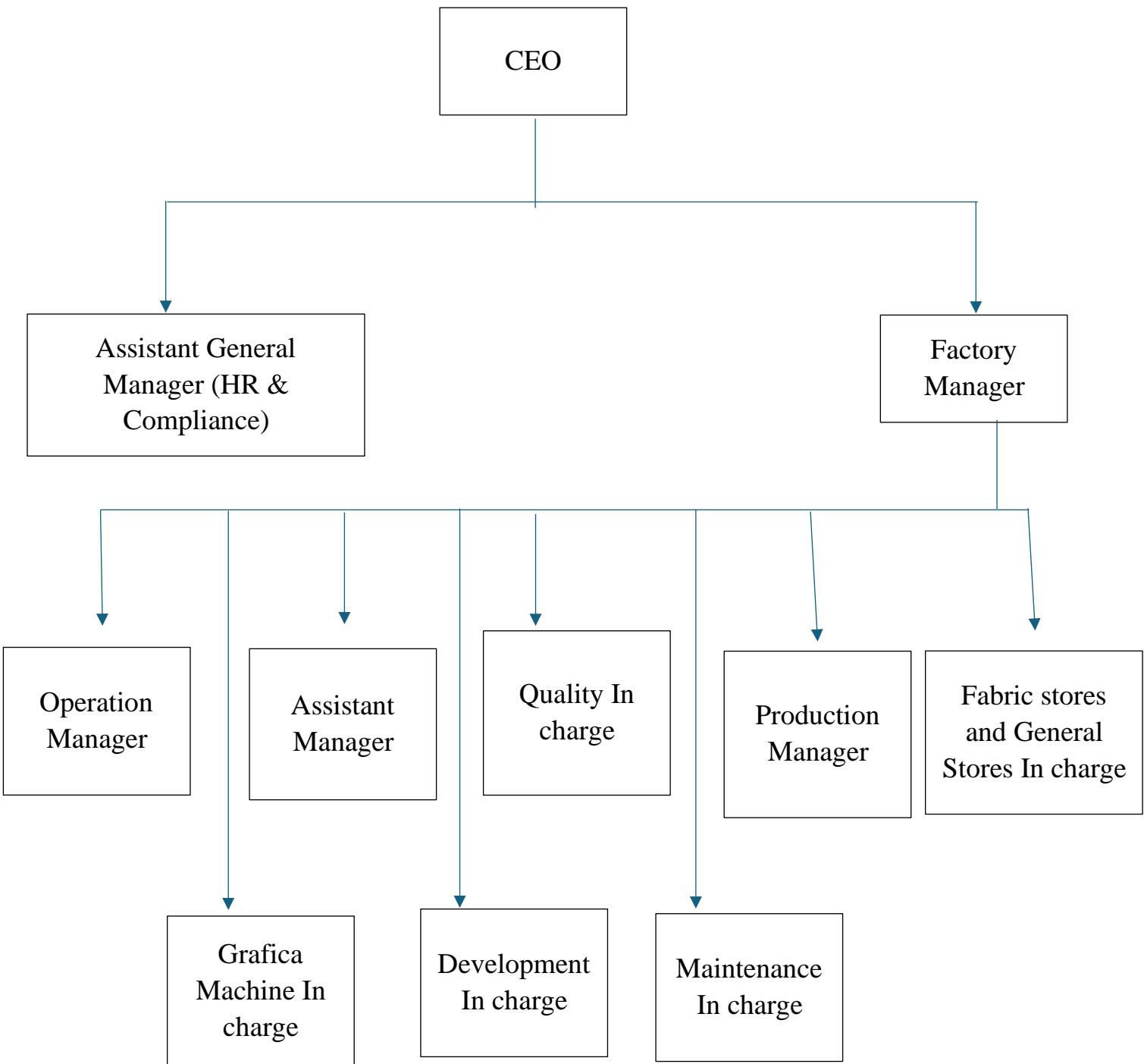
## **Chapter 01: Introduction**

### **1.1 Introduction of the Organization**

Carlos Embellishers is a leading clothing industry company in Sri Lanka which is delivering top notch services for their clients. They have a remarkable 25 years of textile industry experience. Their vision is to be globally recognized in the textile embellishment industry. They create, decorate, and print their clients' imaginations. Their aim is to create an unforgettable experience for their clients, from designing the product to the final product.



## 1.2 Organization Structure



### **1.3 Current Operations in Organization**

Carlos Embellishers PVT Ltd currently has branches in Veyangoda, Horana, Thamballagamuwa, Welioya, Trinco and Kakirawa with a total employee of around 150. The company has maintained their operations in a manual system from the initial stage of product design to the final production. They do all types of Heat Transfer Prints, Multi Color Flock Prints, Nail studs, All Types of Silicone Prints, No Hand Feel Pigment Prints, Super Soft Glitter, Puff Prints, Offset Hang Tag Prints, Sublimation Prints, High Quality Discharge Prints and Ultra Soft Rubber Prints.

### **1.4 Users and Responsibilities Organization**

#### **CEO**

- Responsible for taking long term decisions and giving guidance to the organization.
- Monitor and evaluate company's performance.
- Manage the financial health of the company.

#### **Assistant General Manager (HR & Compliance)**

- Develop and implement recruitment strategies to attract top talent.
- Oversee the interviewing, hiring, and onboarding processes.
- Implement employee satisfaction and retention programs.
- Handle disciplinary actions and terminations in accordance with company policy.
- Identify training needs and organize training programs to enhance employee skills.
- Develop and implement performance review processes.
- Work with department heads to set performance objectives.
- Provide constructive feedback and career development advice to employees.

## **Factory Manager**

- Implement and oversee strict quality control measures to ensure all products meet or exceed set standards and customer expectations.
- Strategically plan and manage production schedules to optimize output, ensure timely delivery of orders, and adjust to demand fluctuations efficiently.
- Continuously analyze and improve manufacturing processes to increase efficiency, reduce waste, and lower costs, while maintaining product quality.
- Lead, motivate, and develop a high-performing team through clear communication, setting performance expectations, and providing training and growth opportunities.
- Ensure a safe working environment by rigorously enforcing health and safety standards and staying compliant with all relevant regulations and laws.

## **Operation Manager**

- Develop business strategies, manage budgets, and monitor performance against KPIs to ensure financial health and alignment with company goals.
- Oversee process improvement, supply chain management, and implement quality control standards to enhance operational efficiency and product quality.
- Lead and motivate staff, manage recruitment and training, and resolve conflicts to foster a positive and productive work environment.
- Maintain strong client relations and analyze customer feedback to improve service and product offerings, ensuring high levels of customer satisfaction.
- Conduct market analysis, develop sales strategies, and oversee promotional activities to drive sales growth and increase market share.
- Ensure regulatory compliance and implement risk management strategies to protect the company's assets and reputation.
- Lead the adoption of new technologies and encourage innovation to improve operational efficiency and maintain a competitive edge in the market.

## **Assistant Manager**

- Lead the team effectively by organizing work schedules, assigning tasks, identifying training needs, and conducting performance evaluations to ensure a skilled, motivated, and efficient workforce.
- Prioritize customer satisfaction by delivering exceptional service, handling complaints gracefully, and maintaining proactive communication to build lasting relationships and trust.
- Oversee daily operations, implement process improvements, and ensure quality control in all aspects of the business, from service delivery to product excellence, to enhance operational efficiency and customer satisfaction.
- Assist in budget preparation, monitor financial performance, control costs, and contribute to setting and achieving sales targets through effective strategies and customer engagement.
- Participate in the development and execution of marketing campaigns and conduct market research to identify customer needs, market trends, and new opportunities for business growth.

## **Quality In Charge**

- Develop and implement quality assurance policies and procedures.
- Conduct regular quality assessments and audits.
- Identify quality issues and implement corrective actions.
- Ensure adherence to quality standards in the production process.
- Collaborate with the Quality Assurance team to address quality concerns.
- Participate in training on quality standards and improvements.
- Evaluate and select suppliers based on quality criteria.
- Monitor the quality of incoming materials and components.
- Work closely with suppliers to improve quality standards.

## **Production Manager**

- Develop detailed production schedules based on orders and forecasts to ensure timely delivery of products. Allocate resources efficiently and adjust schedules as needed.
- Implement quality control standards and procedures to ensure products meet customer expectations and industry standards. Monitor production processes and product quality, and take corrective actions when necessary.
- Coordinate with suppliers to ensure timely delivery of raw materials and components. Manage inventory levels to avoid shortages or excesses.
- Communicate effectively with other departments, senior management, and external stakeholders to ensure alignment with company goals and customer expectations.
- Stay updated with industry trends and advancements in production technology. Explore and implement new technologies and methods to enhance production efficiency and product innovation.
- Quickly address and resolve production issues and conflicts. Implement long-term solutions to prevent recurrence.

## **Fabric stores and General Stores In charge**

- Regularly check stock levels and reorder supplies as necessary.
- Keep an organized record of all fabrics, embellishments, and general store items.
- Coordinate with suppliers to ensure timely deliveries and resolve any issues with orders.
- Assist customers in finding the products they need.
- Offer suggestions for fabric and embellishments based on customer projects.
- Handle customer inquiries and complaints professionally and efficiently.
- Implement and manage sales promotions to attract more customers.
- Keep track of sales performance and generate reports for management.
- Ensure that all promotional materials are up-to-date and displayed prominently.
- Arrange displays to maximize visual appeal and promote sales.

### **Grafica Machine In charge**

- Operate the Grafica machines efficiently.
- Ensure the quality of the prints meets the required standards.
- Perform routine maintenance and troubleshooting of the machines.
- Report any machine malfunctions to the supervisor immediately.
- Conduct regular and preventive maintenance on Grafica machines.
- Respond to and resolve technical issues reported by machine operators.
- Keep a record of all maintenance activities performed on the machines.
- Ensure that all machine parts are in good working condition.

### **Development In charge**

- Lead the planning and execution of development projects, aligning them with the organization's goals. This includes setting strategic objectives, overseeing research and development efforts, and ensuring projects are delivered on time and within budget.
- Build and manage a skilled development team, fostering an environment of continuous learning and improvement. This involves recruiting talent, facilitating professional development, evaluating performance, and encouraging innovation.
- Ensure the selection of appropriate technology and tools, maintain high standards of quality assurance, and address technical challenges promptly. This responsibility is crucial for delivering superior products or services.
- Identify and mitigate potential risks in the development process while ensuring compliance with relevant regulations and industry standards. This also includes staying informed about market trends and competitor activities to adapt and innovate proactively.

### **Maintenance In charge**

- Conduct regular checks on all equipment and machinery to ensure they are in good working condition.
- Schedule and perform preventive maintenance to minimize downtime and extend equipment lifespan.
- Identify and troubleshoot issues with machinery and equipment promptly.
- Organize and oversee repairs, including sourcing parts and managing repair personnel, either in-house or external contractors.
- Ensure that all maintenance activities comply with safety standards and regulatory requirements.

## 1.5 Problem Identification

The reliance on manual systems introduces several operational and strategic challenges for businesses like Carlos Embellishers, primarily due to inefficiencies in data management and accessibility. Retrieving specific information from piles of physical files is not only a disadvantage but also highly inefficient, leading to significant delays in accessing crucial data that is essential for timely decision-making. This inefficiency is further compounded by the limited accessibility of manual records, which are typically stored in physical locations, hindering the ability to work remotely or collaborate effectively across departments. The process of generating reports and analyzing performance metrics is labor-intensive, and the lack of integration between different manual systems leads to further inefficiencies and complexities when attempting to synchronize information across various business functions. This disjointed approach significantly impacts the ability to provide timely and personalized customer service, as there is no centralized system for tracking orders and preferences. Moreover, manual records are vulnerable to loss, theft, or damage, posing significant security risks to sensitive business and customer information.

## 1.6 Project Objectives

These are the objectives for Carlos' management system in simpler terms.

- Real-time Accuracy: The system will be designed to not only gather accurate information but also update this information in real time. This feature is crucial for enabling quick and informed decision-making, as it ensures that the data reflecting the organization's current state is always up to date.
- Technology Adoption: By implementing this system, Carlos Embellishers aims to align with the latest technological advancements. This objective underscores the importance of leveraging new technologies to drive growth and improve operational efficiency.
- Automated Reporting: Automating the report generation process is a key objective. This approach not only saves time but also increases the accuracy of reports by reducing the potential for human error. Automated reports can provide timely insights into various aspects of the business, supporting strategic planning and operational adjustments.
- User-Friendly Design: It's essential that the new system is intuitive and easy for all employees to use, regardless of their technical expertise. A user-friendly design will ensure high adoption rates and minimize the need for extensive training, thereby facilitating a smoother transition to the new system.
- Robust Security: Protecting sensitive company information is a top priority. The system will incorporate advanced security measures to safeguard data against unauthorized access, breaches, and other cyber threats. This includes encryption, secure authentication methods, and regular security audits.
- Cost Efficiency: While aiming for advanced features and high functionality, the system must also be cost-effective. This means achieving the desired outcomes and benefits without excessive expenditure, ensuring a positive return on investment for the organization.
- Scalability: Finally, the system is to be built with future growth in mind. It should be capable of accommodating additional users, more data, and new functionalities as the company's needs evolve. Scalability ensures that the system remains useful and relevant over time, supporting the organization as it grows, and its operations become more complex.

## 1.7 Proposed Solution

The proposed solution is the development and implementation of the Apparel Printing Management System. This system is designed to encompass all facets of the business, from customer management to production and financial reporting, thus replacing the existing manual processes that currently hinder efficiency and accuracy. With this new system, the company will be able to centralize its data, allowing for real-time access and updates to crucial business information. This enables owners and managers to monitor daily production details remotely, enhancing oversight and flexibility.

The introduction of this computerized system will facilitate the seamless collection and storage of customer details, order specifications, and production updates. It will also streamline the reporting process, making it easier to track the details of the business. By digitizing these processes, Carlos Embellishers can quickly adapt to customer feedback, efficiently managing order rejections and understanding the underlying reasons to improve service quality.

Implementing this computerized system represents a significant step forward for Carlos Embellishers. It promises to revolutionize the way the company operates, bringing about enhanced efficiency, better data management, and improved decision-making capabilities. By leveraging technology, the company can ensure a more organized, secure, and scalable approach to its business operations, aligning with its mission to optimize performance and customer satisfaction.

## 1.7 Functional and Non – Functional Requirements

### Functional Requirements

#### Customer Management

- In a computerized system for textile companies, effective customer management revolves around maintaining a centralized database of customer details. This includes contact information, purchase history, preferences, and specific requirements. Integrated with sales and marketing efforts, this database facilitates personalized interactions, targeted campaigns, and continuous improvement based on feedback. Security measures ensure data protection, while analytics provide insights for informed decision-making and enhanced customer satisfaction.

#### Reports and Analysis

- In a computerized system, customizable reporting tools for performance analytics allow users to create and modify reports above production. These tools gather data from various aspects of operations, analyze performance, and present insights in an easy-to-understand format.

#### Department Management

- **Marketing Department**

The customer will log in to the website, customer will use customizations and request a sample print from the company.

The marketing department will send the sample to the sample room. The sample room will create 5 samples and send them back to the marketing department. The marketing department will inform the customers that the samples are ready.

After that the customer will approve the sample and the order at the same time through an email.

- **Finance Department**

After receiving the email, the customer will pay the amount using the online payment gateway.

Then the finance department will update the marketing department system.

- **Production Department**

The marketing department will update the production department then production department will implement the design.

- **Finishing Department**

This will automatically generate a report which will have all the details of marketing and production departments.

Finalized report will send to the stores.

- **Stores**

It will generate a report and the report will be sent to the marketing department.

## **Non-Functional Requirements**

- Performance

The system should exhibit high performance to handle real-time data capture and processing efficiently, ensuring minimal latency in displaying production status updates.

- Usability

This is a key focus for the company's website, aiming to provide a user-friendly experience. It clear navigation, simple interfaces, and responsive design enhance accessibility for customers. Streamlined workflows and natural features contribute to n overall positive user experience, promoting engagement and satisfaction.

- Real-Time Production Data Capture

The system should be able to capture and record important production information as it happens, such as the status of production, the number of products being produced, and any instances of downtime This real-time data capture allows for immediate monitoring and analysis of production processes, facilitating timely decision-making and proactive management of any issues that may arise.

- Enhancing System Security

In a computerized system, security is crucial to protect company data and operations. This includes setting up secure login mechanisms, where users must provide valid credentials to access the system. Additionally, access to sensitive data and specific operations is controlled based on the user's role within the company, ensuring that individuals only have access to the information and functionalities necessary for their job. This layered approach enhances security by preventing unauthorized access and potential data breaches.

## 1.9 Chapter Summery

This chapter identifies the current problem of the company's manual process. Such as inaccuracy, less security, taking lot of time for the process. Our team planned to develop a system to overcome these problems. This solution will make their operations simpler and easier than before. It's an efficient tool for the organization to grow their company and to keep track of every data.

## **Chapter 2: Methodology**

### **2.1 Introduction**

To create an automated system, we should pay attention to the existing manual system in our company. Its limitations, the information of the employees who are currently involved in the process should be collected and the opinion of the employees should be considered for this automated system. All this should be done by looking at the production cost, overhead cost, and cost analysis in the organization. We have planned to set up this system using agile development methods to create this fully automated system. Our aim is to create a solution that is suitable for this organization, more effective and easily adapted to the company.

### **2.2 Date collection method(s)**

We discussed with the CEO of the company for gathering information and went to the company gathered information through its employees. To gather that information, we approached it through meeting and questionnaires. This process helped us to identify critical issues and issues as management gaps, late updates etc.

### **2.3 Software process model**

Here we choose agile development for the software process model. The reason for this is its flexibility and adaptability. Its development process ensures that working software is released daily and we can adapt it to our needs over time. This process model allows the development team to be creative and motivative for a more efficient and successful outcome allows.

## 2.4 Software development tools

we hope to use these tools for the following tasks:

- Diagrams.net and Microsoft Viso: for creating UML diagrams, ER diagrams, Class diagrams, Sequence diagrams, and to design Database structure.



- Visual paradigm 17.0: to collect correct requirements and convert them into precise design.



- Adobe Xd, Figma, photoshop & illustrator: To create user interfaces and design wireframe for the web application.



- XAMPP & MySQL: To create database for the development.



- Visual Studio 2022; for Develop, the main web application with HTML, PHP, JavaScript, Java.



- GitHub: To control the version of our web application.



- Angular & React: to get enhanced JS features for the web application.



## 2.5 Testing Strategies

We used different types of planning methods to progress the organization. That progress strategy outlines a comprehensive approach to ensure the robustness and quality of our software unit testing to access the continuity of individual components, seamless integration testing between multiple components, and system testing to complete system installations that work to meet all requirements. Testing and security tests are included. We also planned to use white box testing and black box testing. There are times when we used both black box testing and white box testing at once to get an understanding of the performance of our system and possible problems.

## 2.6 Implementation Plan

We decided to use phase implementation for this. This means replacing the older manual system step by step. With step-by-step implementation, if a problem occurs in one process or in the middle, it will affect only one stage of the process. Then we can prevent the problem from affecting other systems. This helps to quickly identify problems and bottlenecks in use. It also minimizes future problems and minimizes the risk of errors.

## 2.7 Chapter Summary

The purpose of this chapter was to make the existing manual system in our Carlos Embellishers company a web base application through the meeting and questionnaires held with the CEO as well as company employees. Also, an understanding of the challenges and problems existing in the institutions was gained through this meeting and questionnaire. While we decided to use the agile development method for this, visual studio 2022, adobe Xd, Figma, adobe photoshop, adobe illustrator, diagram.net, XAMPP and MySQL were suggested as the software development tools. Also, the strategies here include unit testing, integration testing and system testing and conducting a safety inspection. And to make this process successful, it was launched in phases.

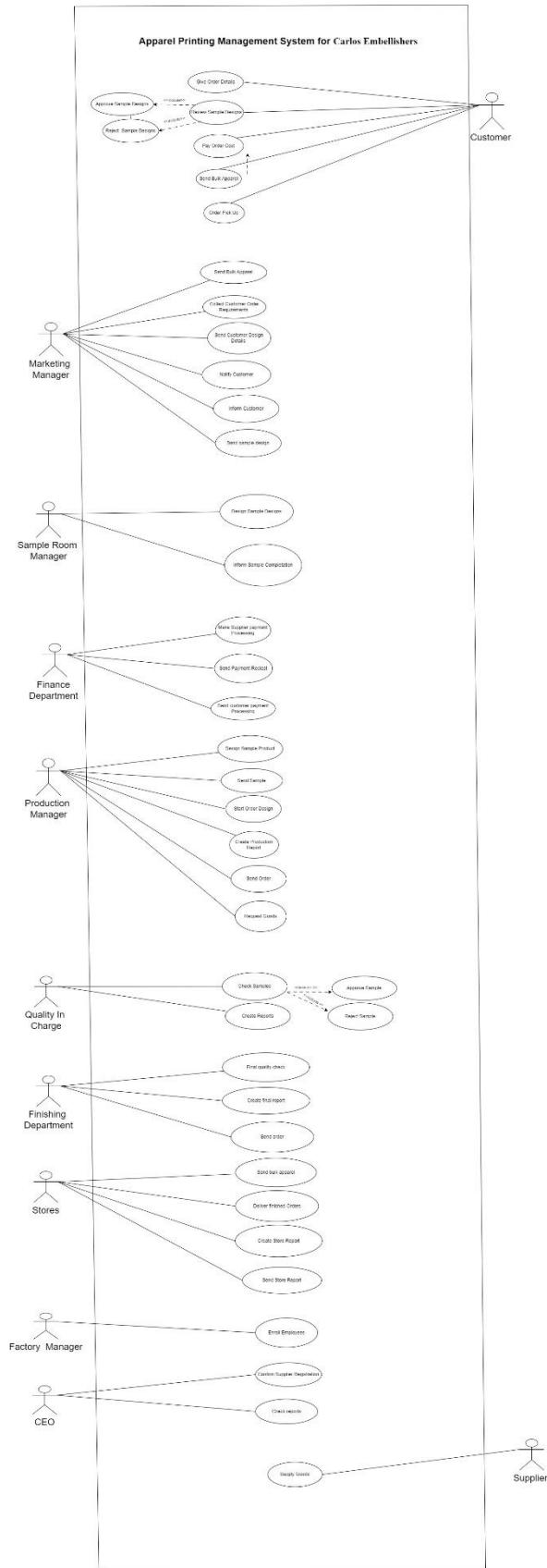
## **Chapter 3: Analysis**

### **3.1 Introduction**

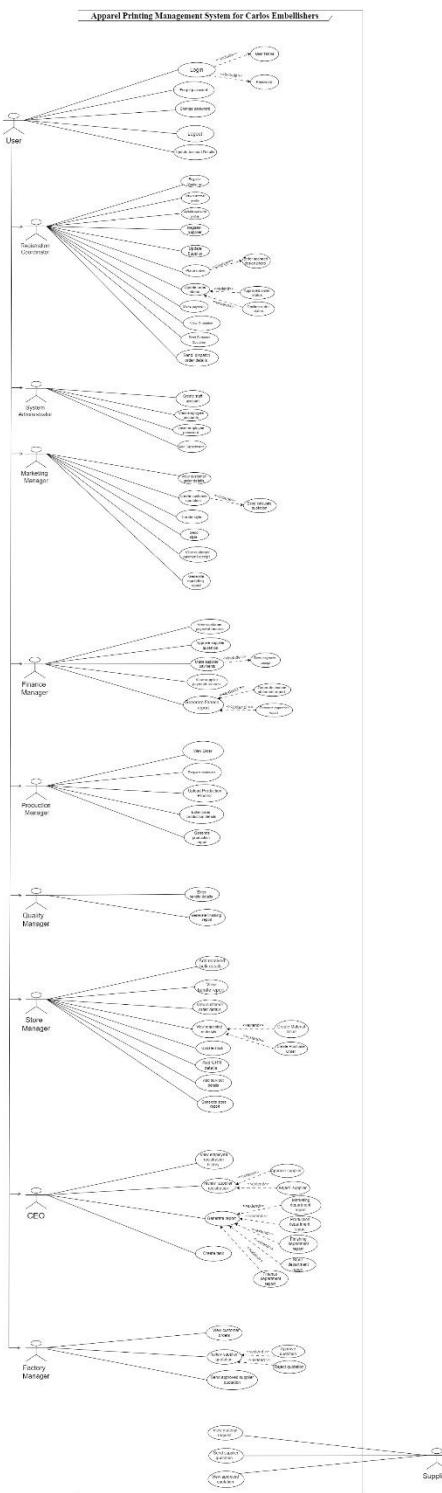
This chapter focuses on the analysis of the current system against the proposed software solution. This mainly elaborated the UML diagrams, Class diagram and the database Entity relationship diagram. These mentioned diagrams depict the nature of the solution and the accessibility of it. This also shows which entities and data would be saved after fully developing the software solution.

### 3.2 UML design

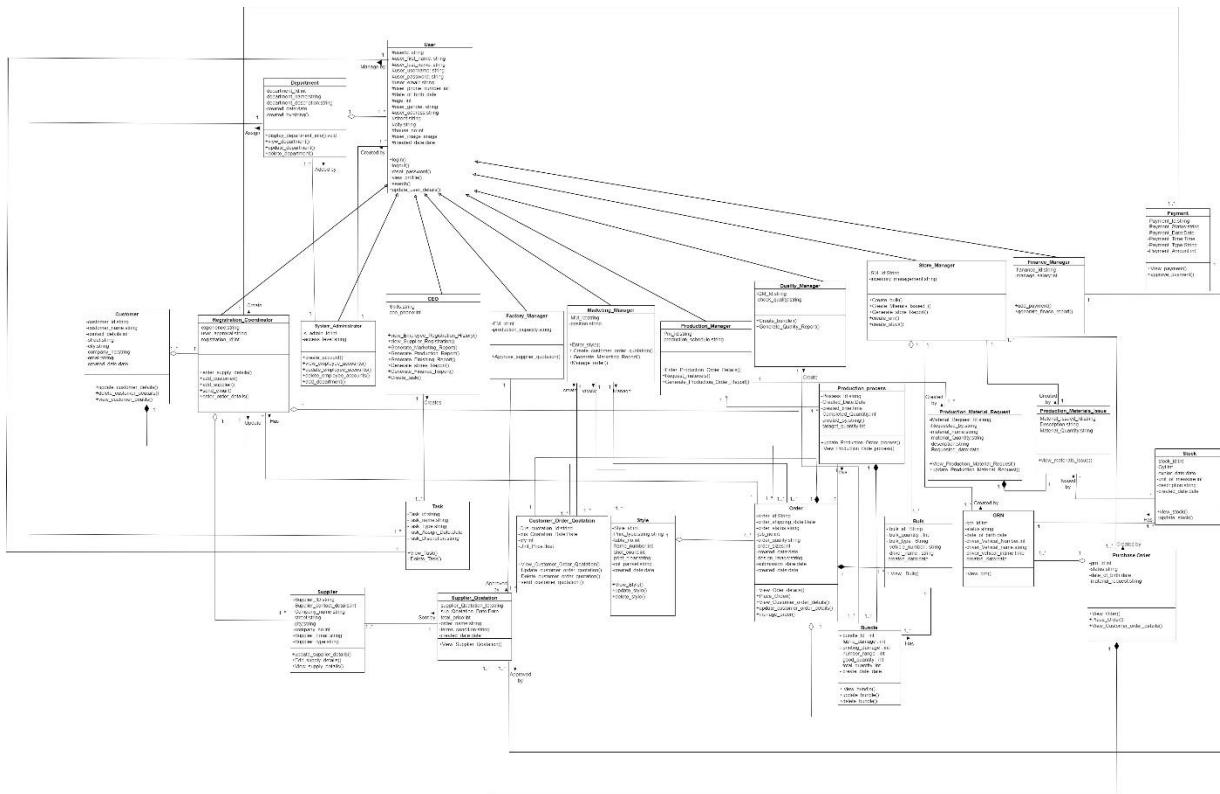
#### Use Case Diagram of Current System



### **Use case diagram of proposed system.**



## Class diagram of proposed system

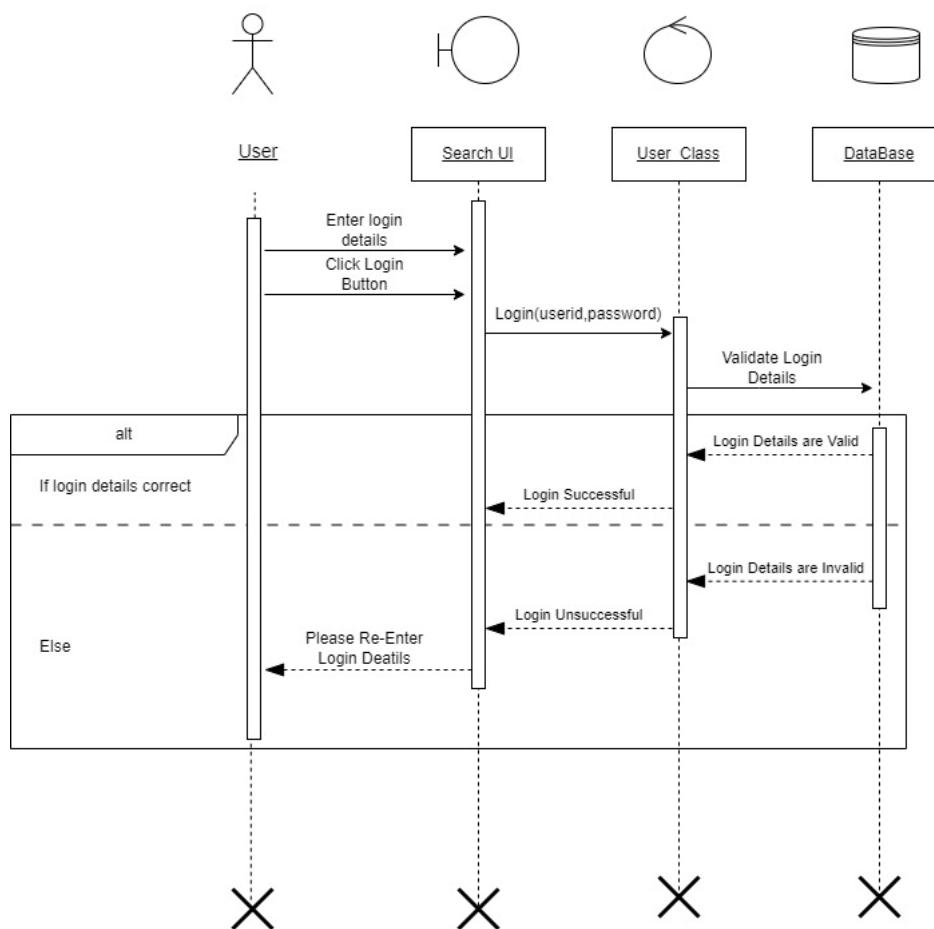


## Sequence diagrams (each use case) for proposed system.

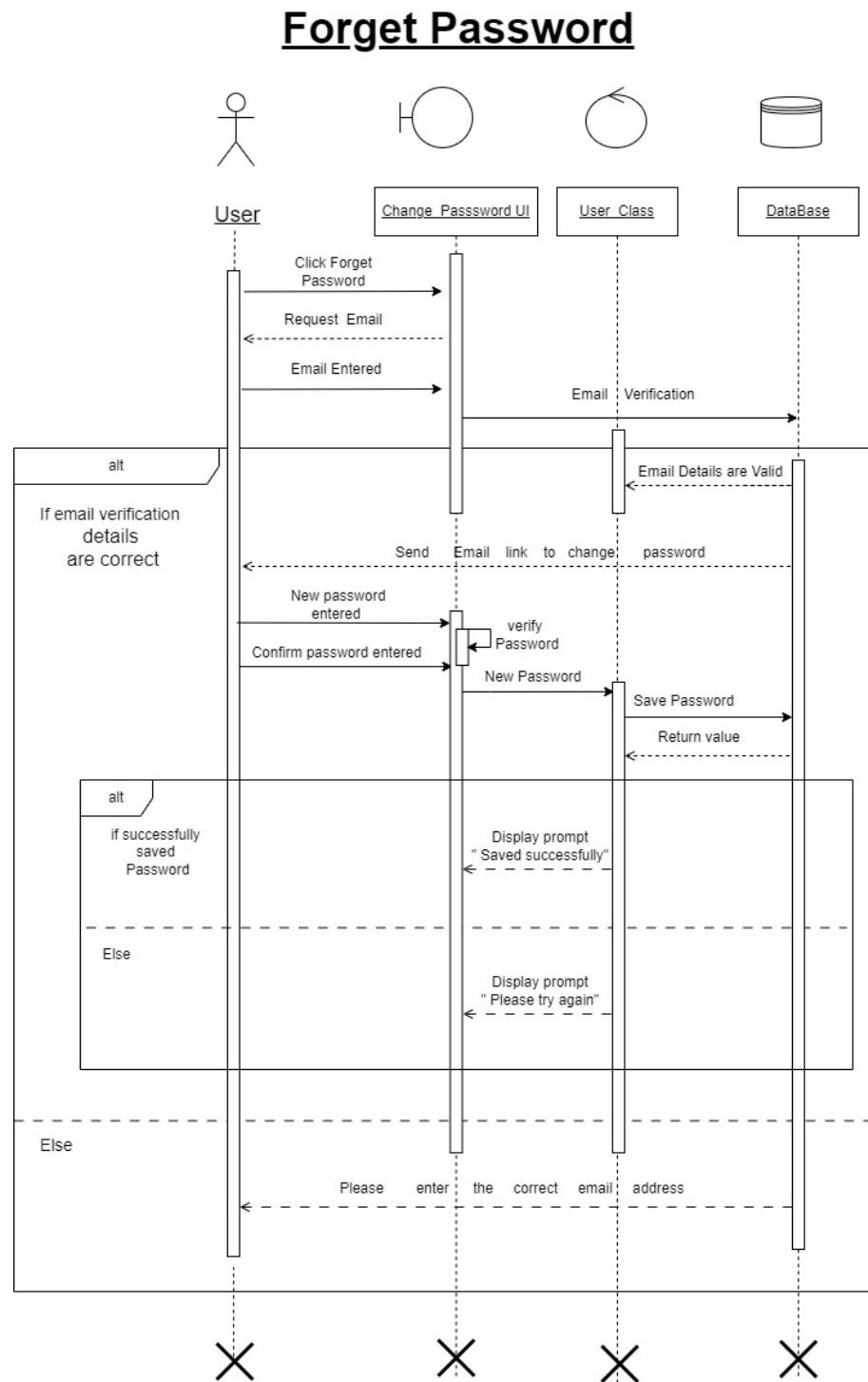
User

1. Login

### Login

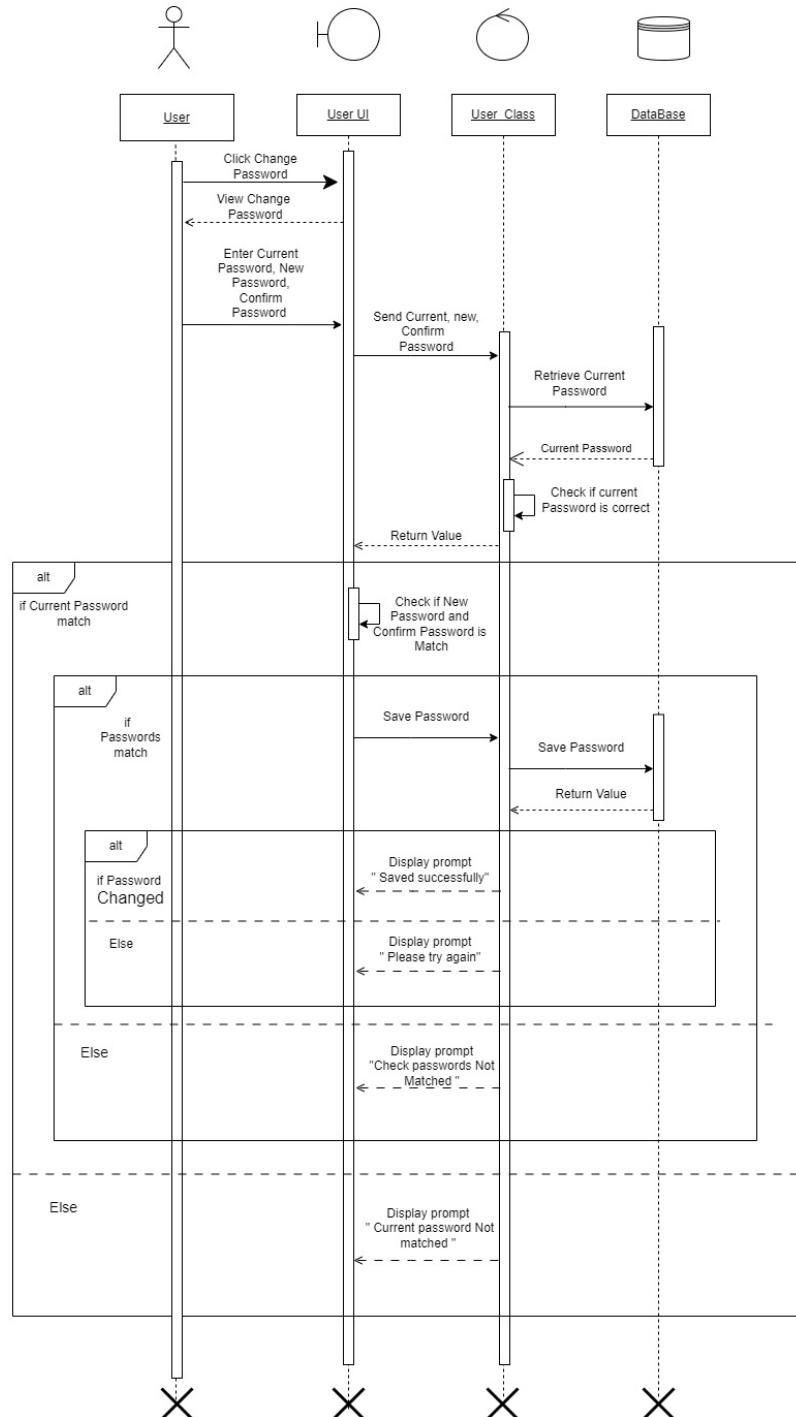


## 2. Forget Password



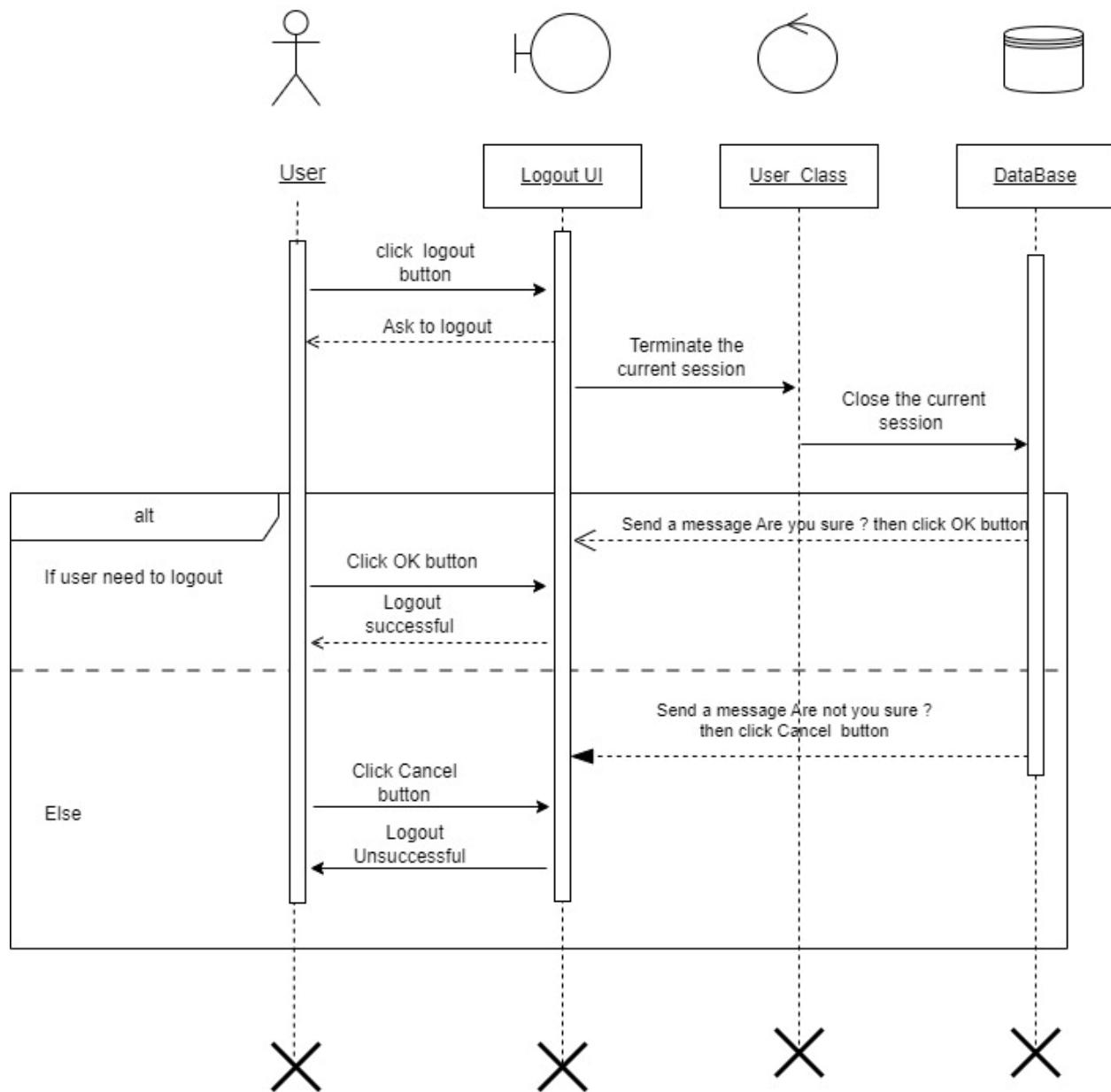
### 3. Change Password

#### Change Password



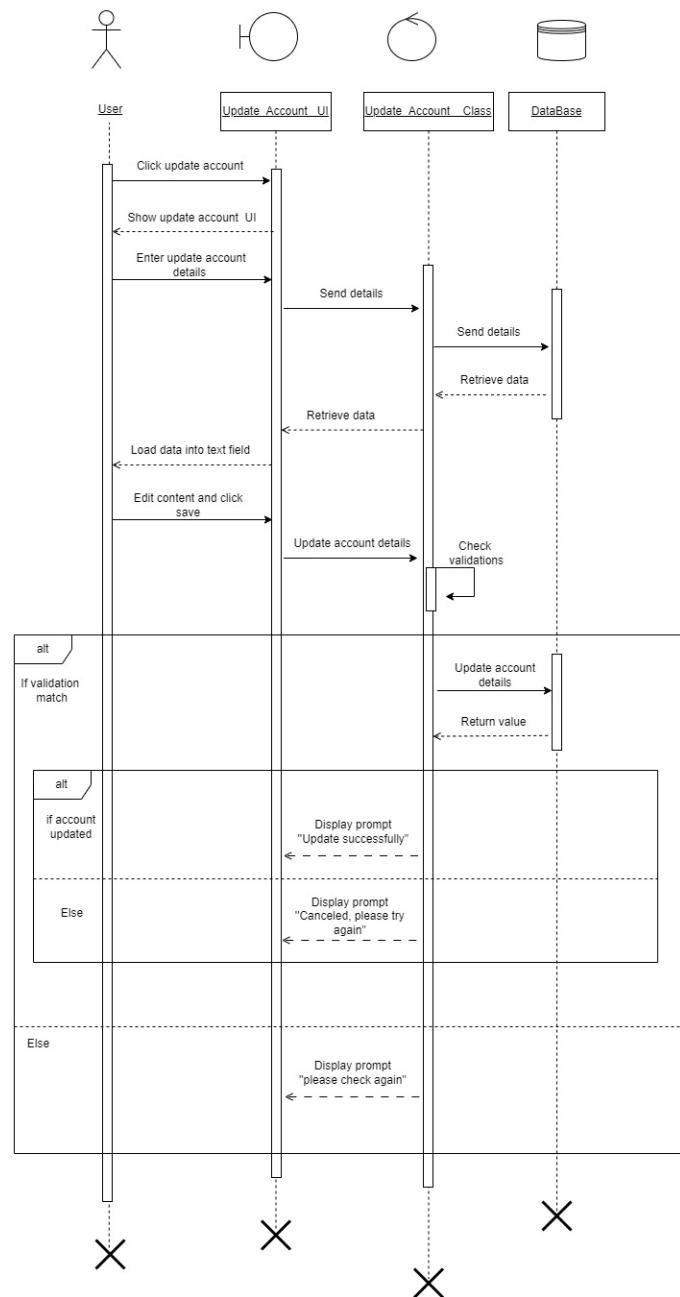
4. Logout

# LogOut



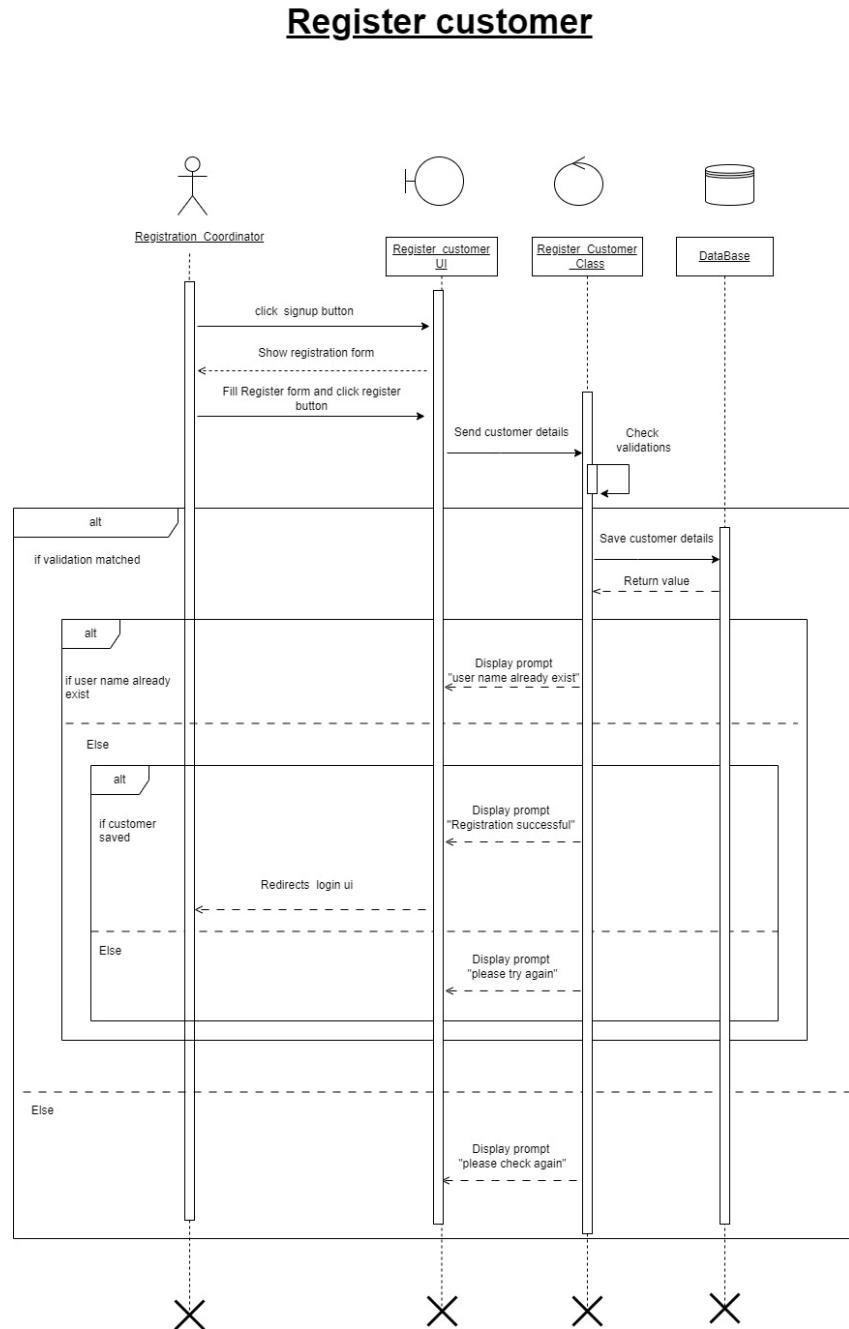
## 5. Update Account Details

### Update Account Details



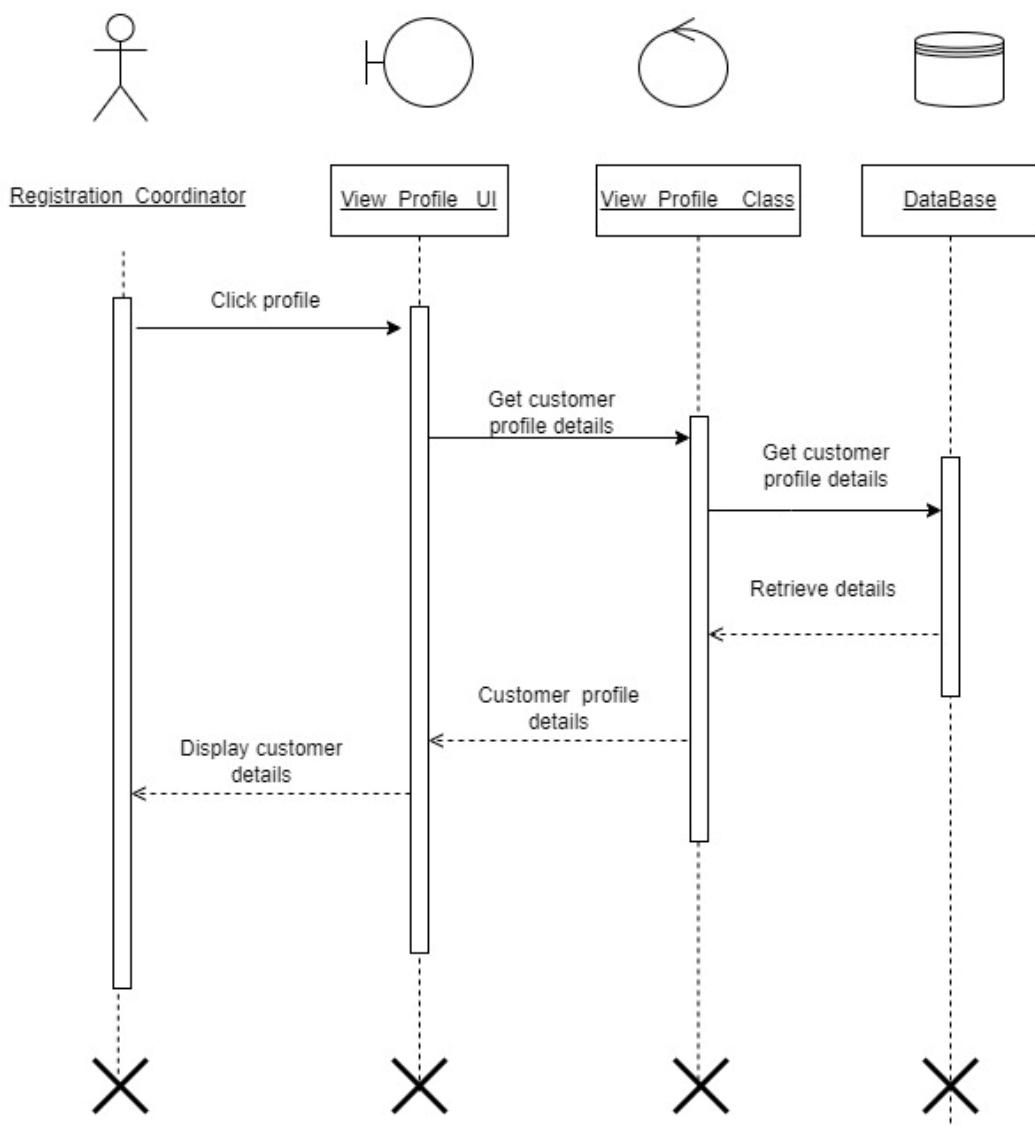
## Registration Coordinator

### 1. Register Customer



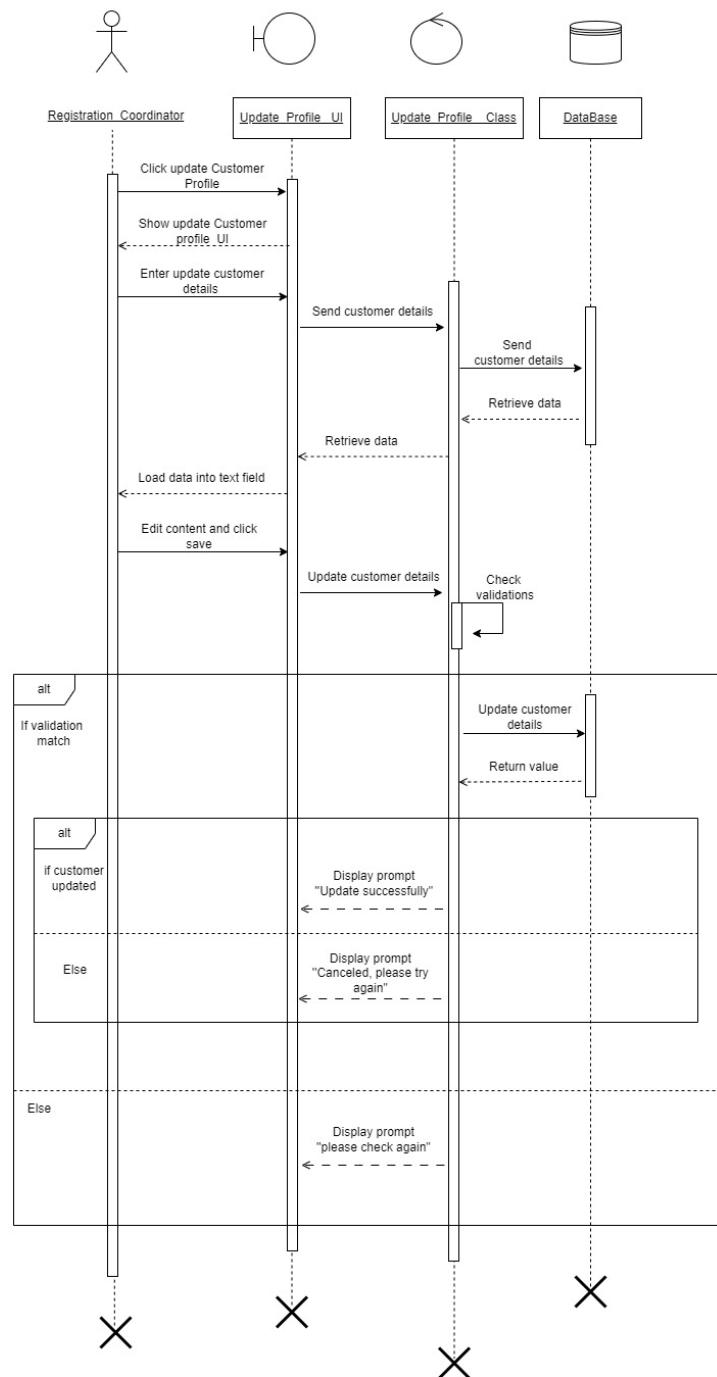
2. View Customer Profile

## View Customer Profile

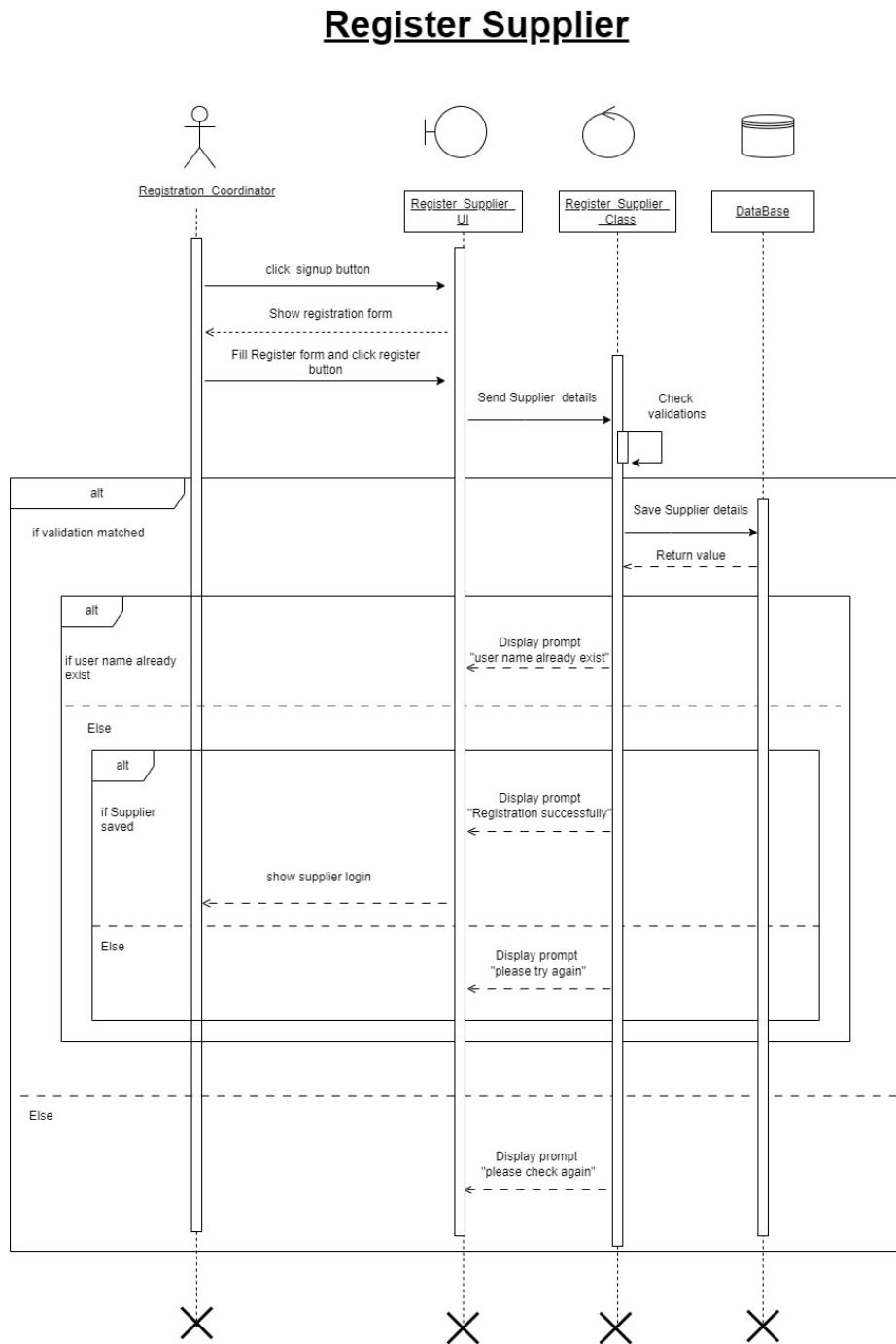


### 3. Update Customer Profile

#### Update Customer Profile

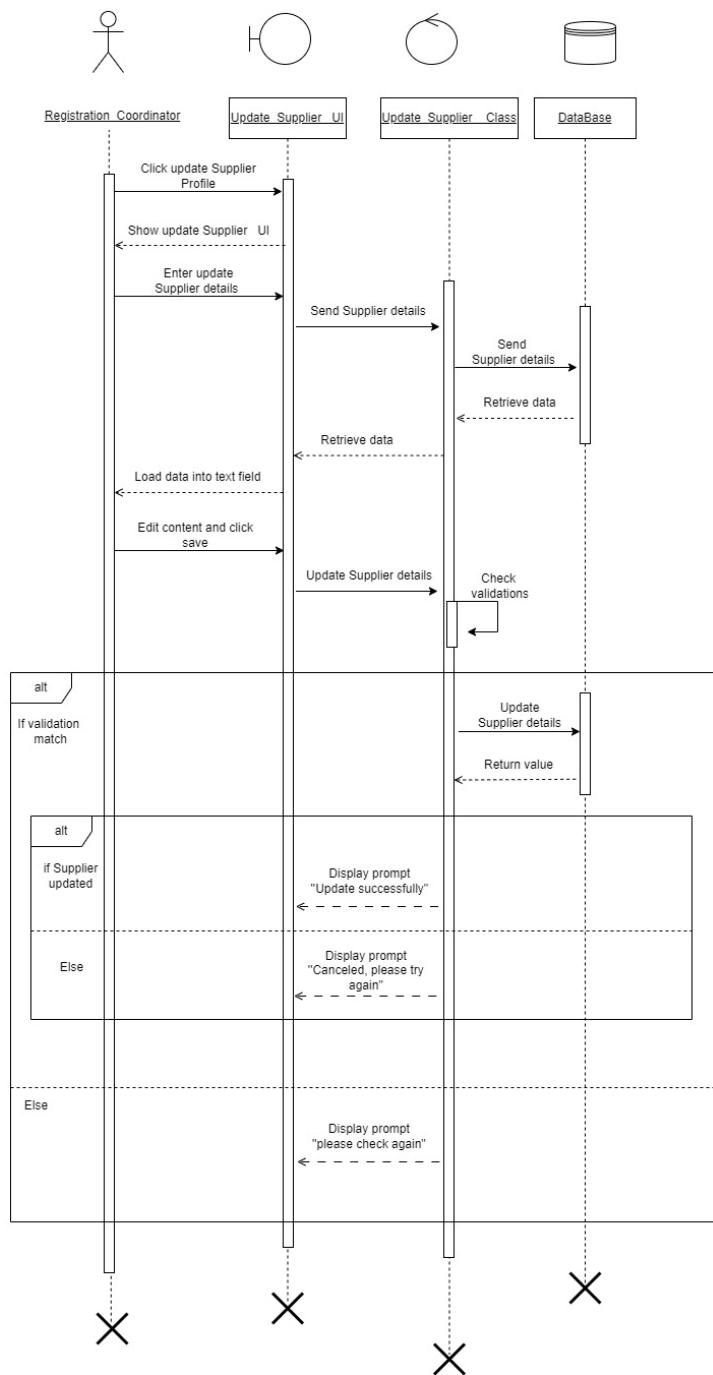


#### 4. Register Supplier

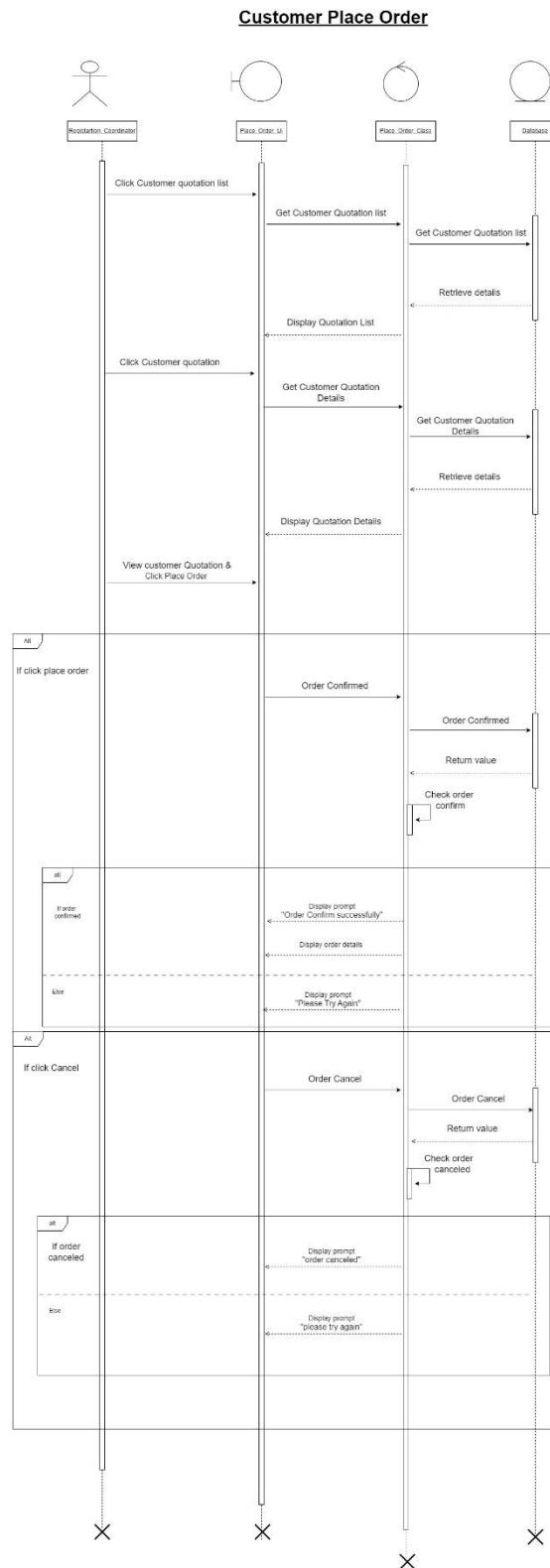


## 5. Update Supplier

### Update Supplier Details

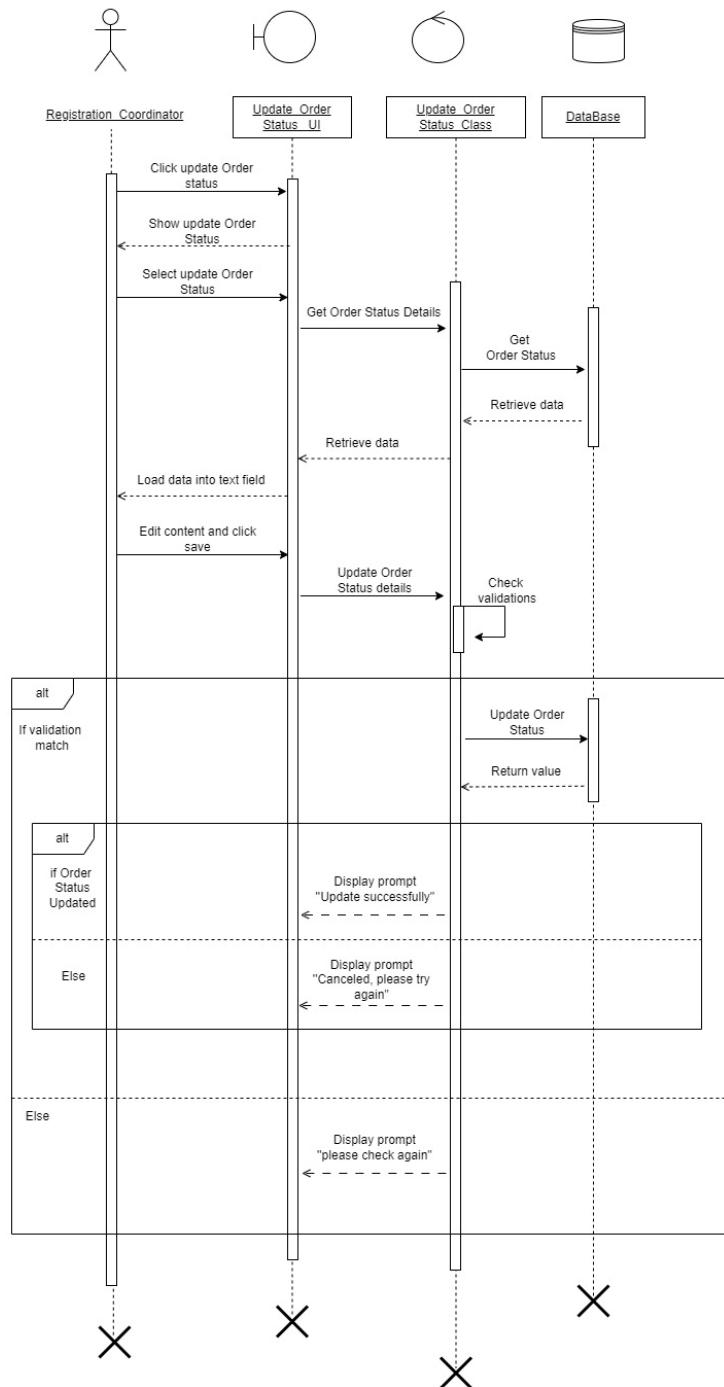


## 6. Place Order

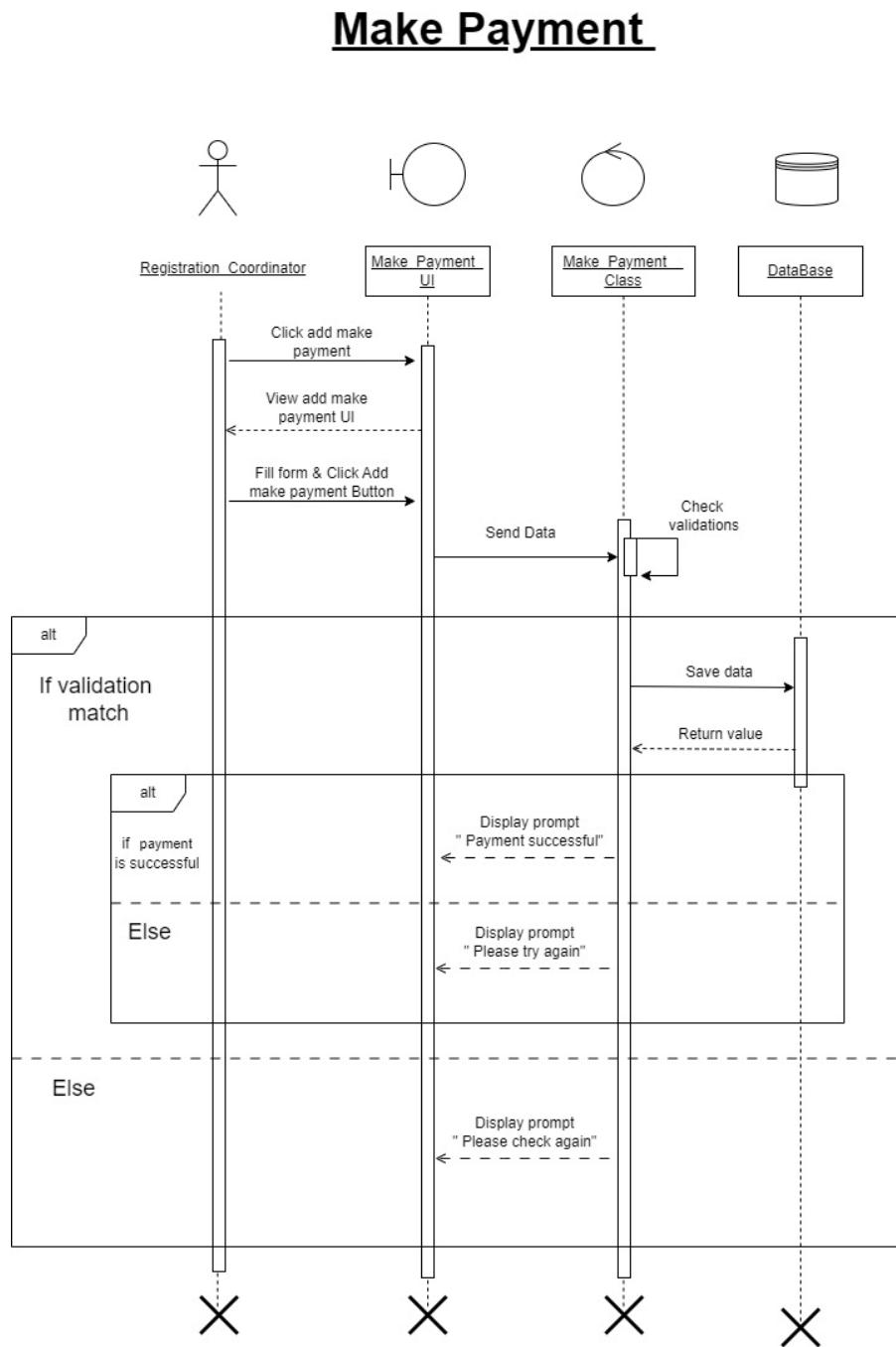


## 7. Update Order Status

### Update Customer Order Status

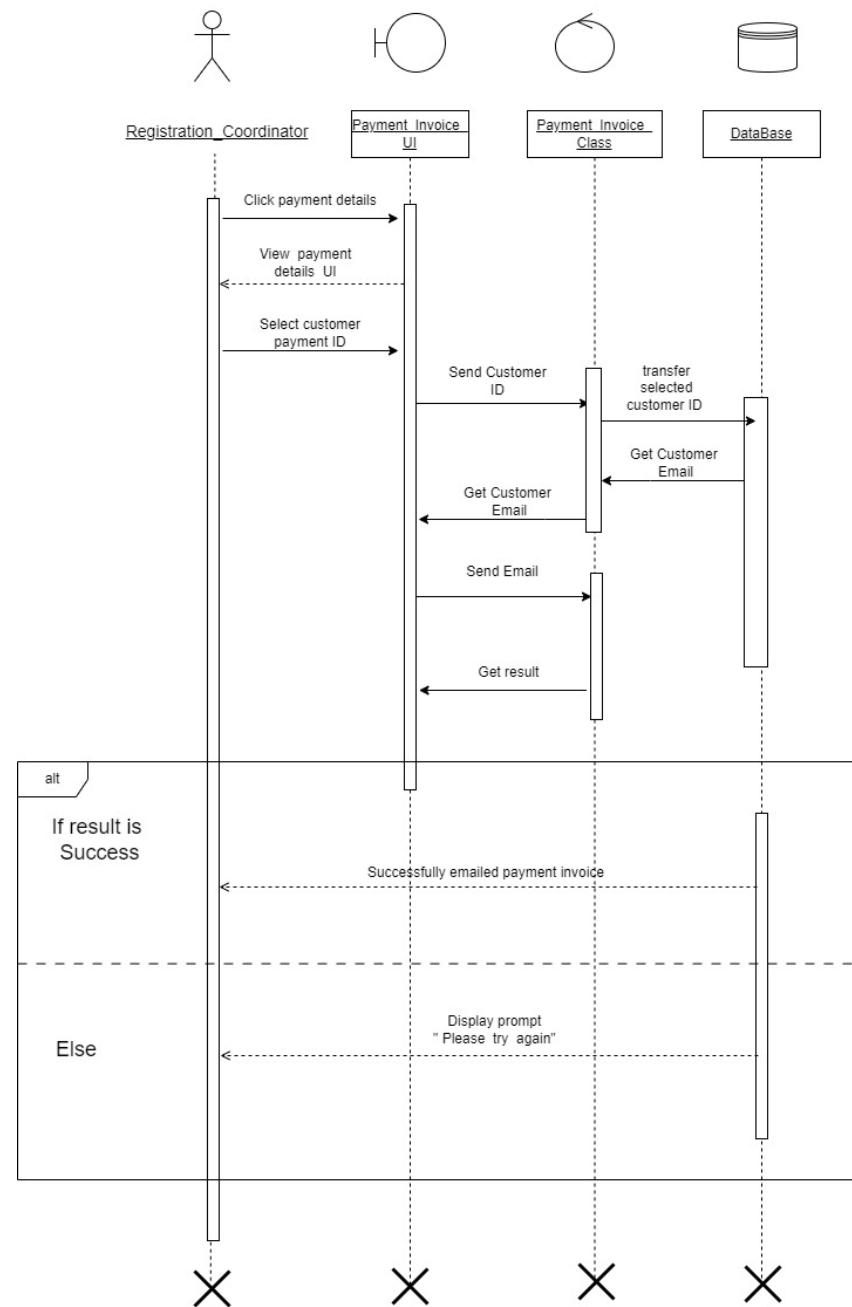


## 8. Make Payment



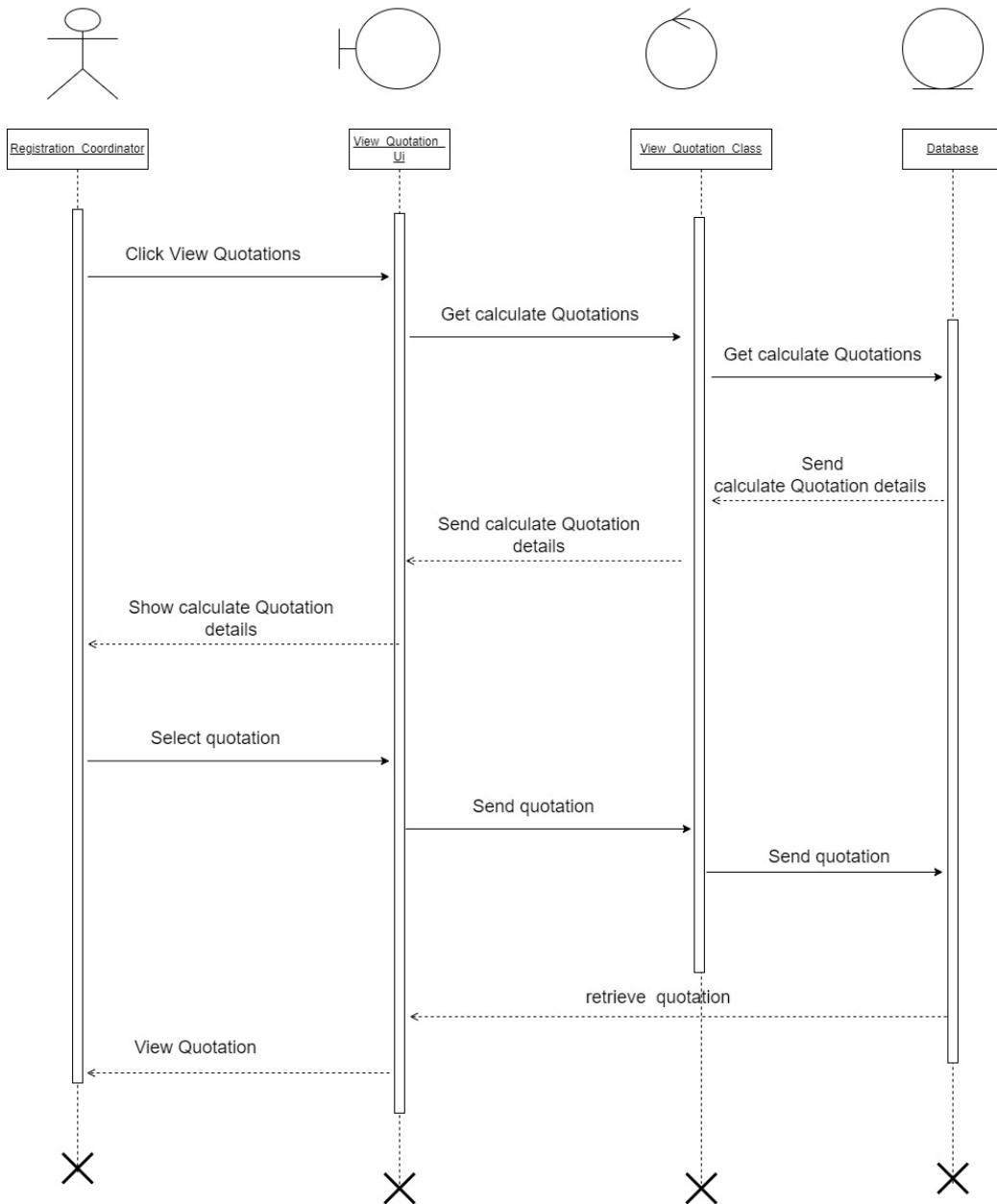
9. Send Payment Invoice by Mail

## Send invoice by mail



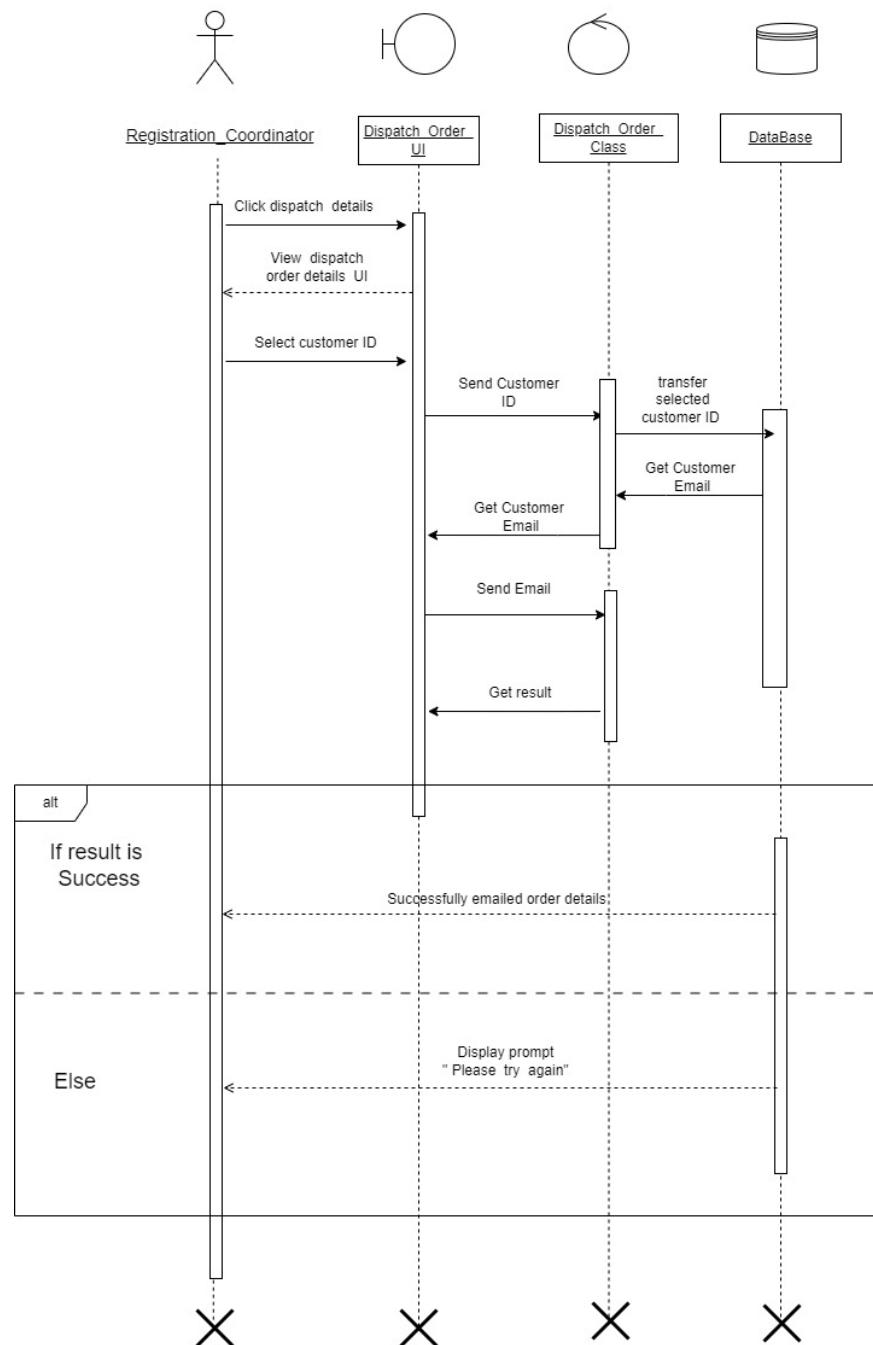
## 10. View Quotations

### View Quotation



11. Send Dispatch Order Details to Customer

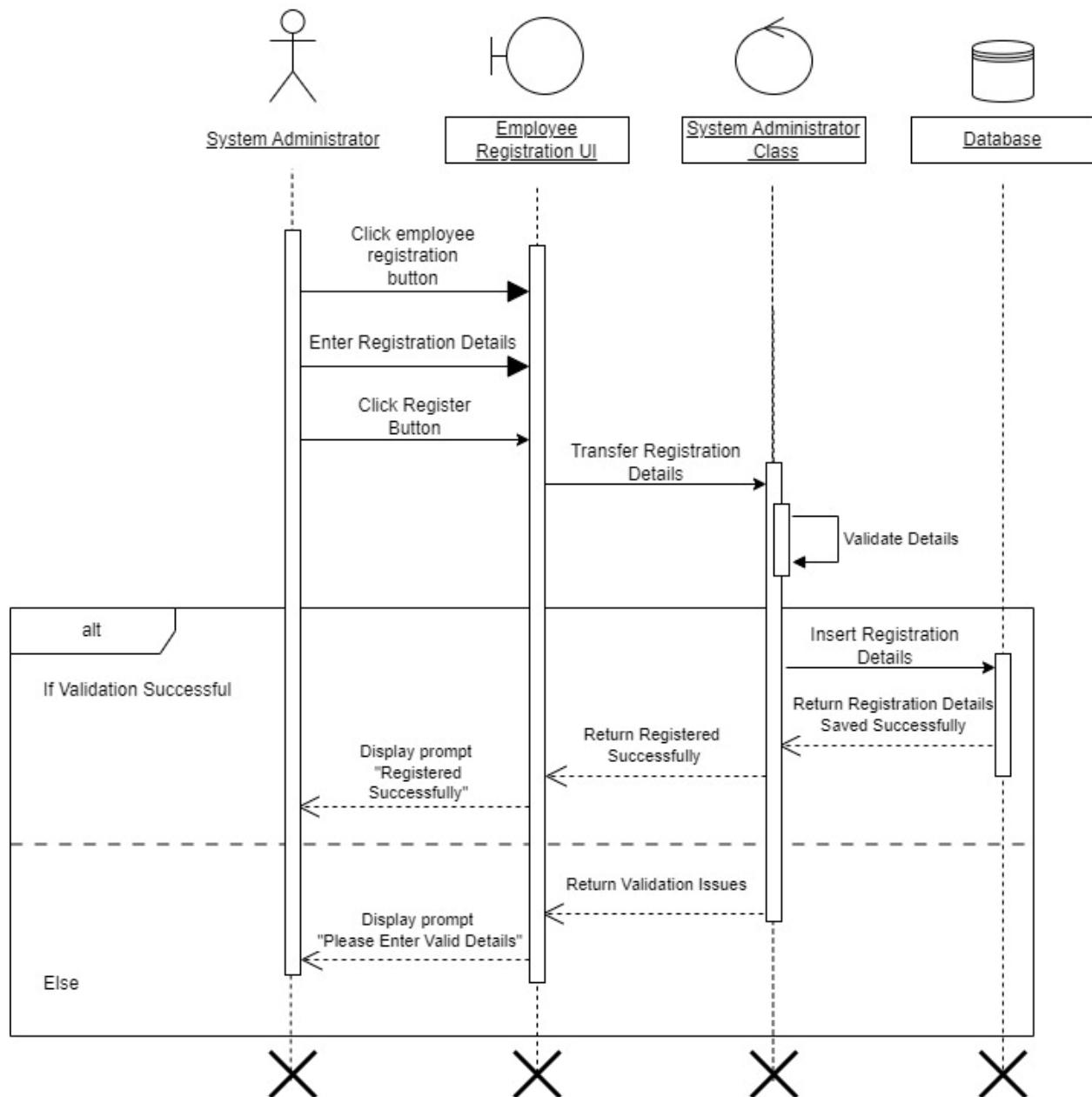
## Send dispatch order details



## System Administrator

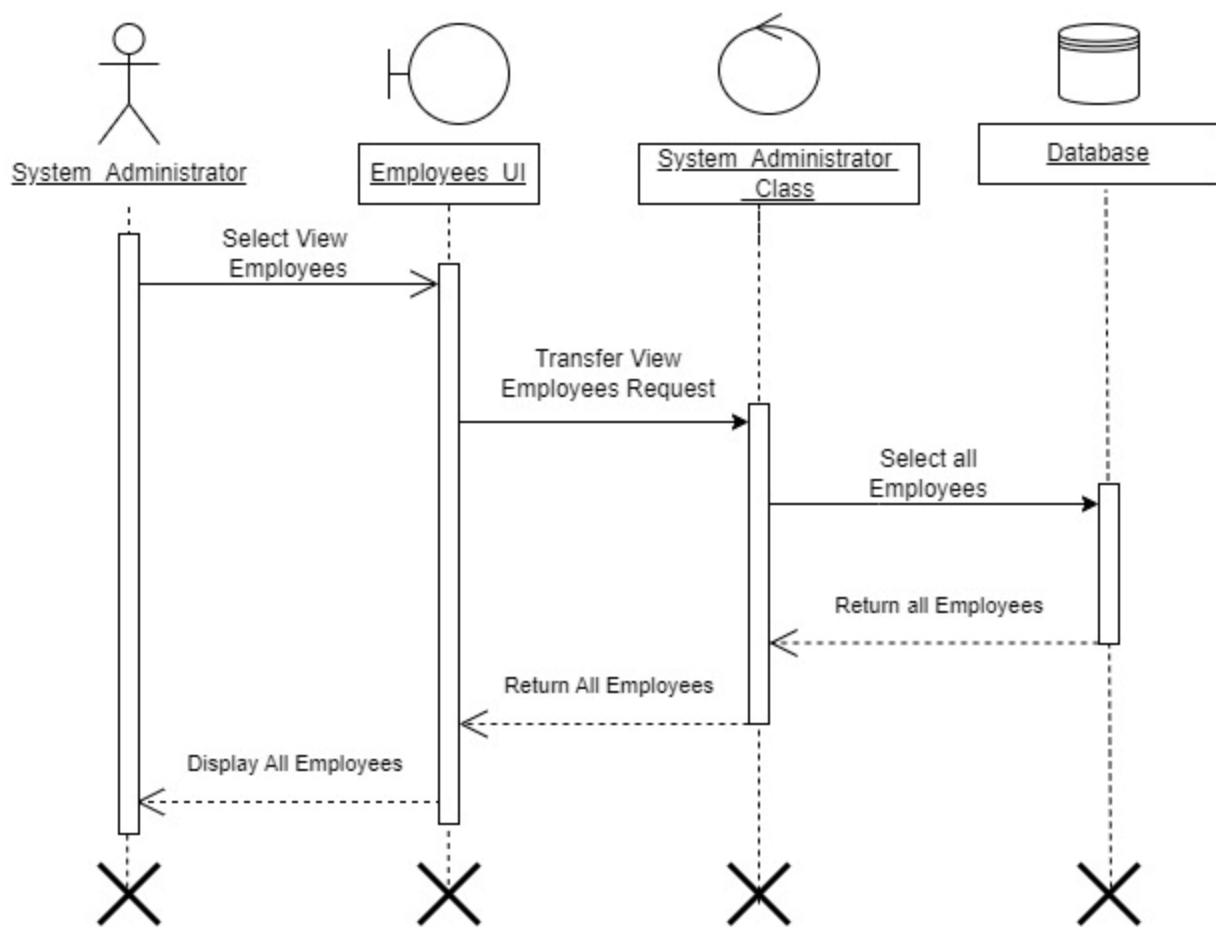
1. Create Accounts for Staff Members

# Create account for staff members



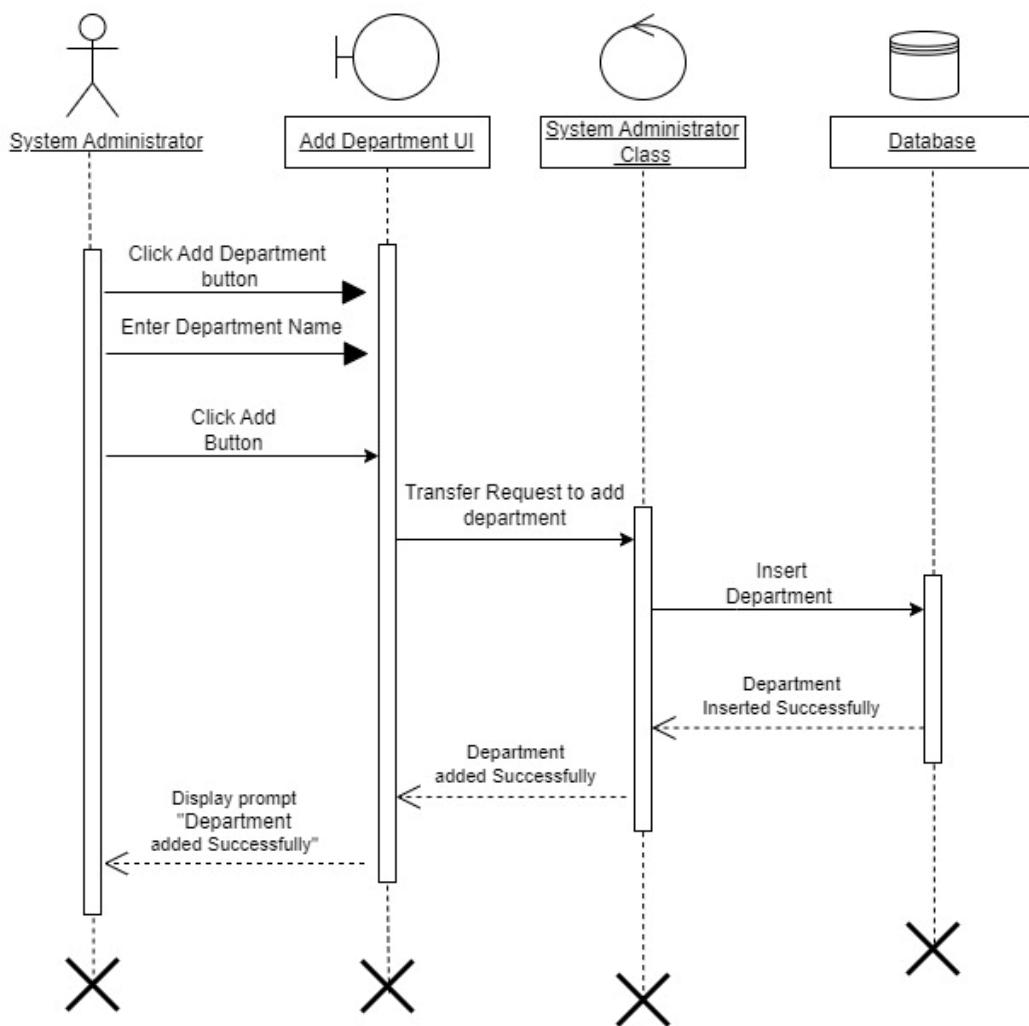
## 2. View Employee Accounts

### View Employee

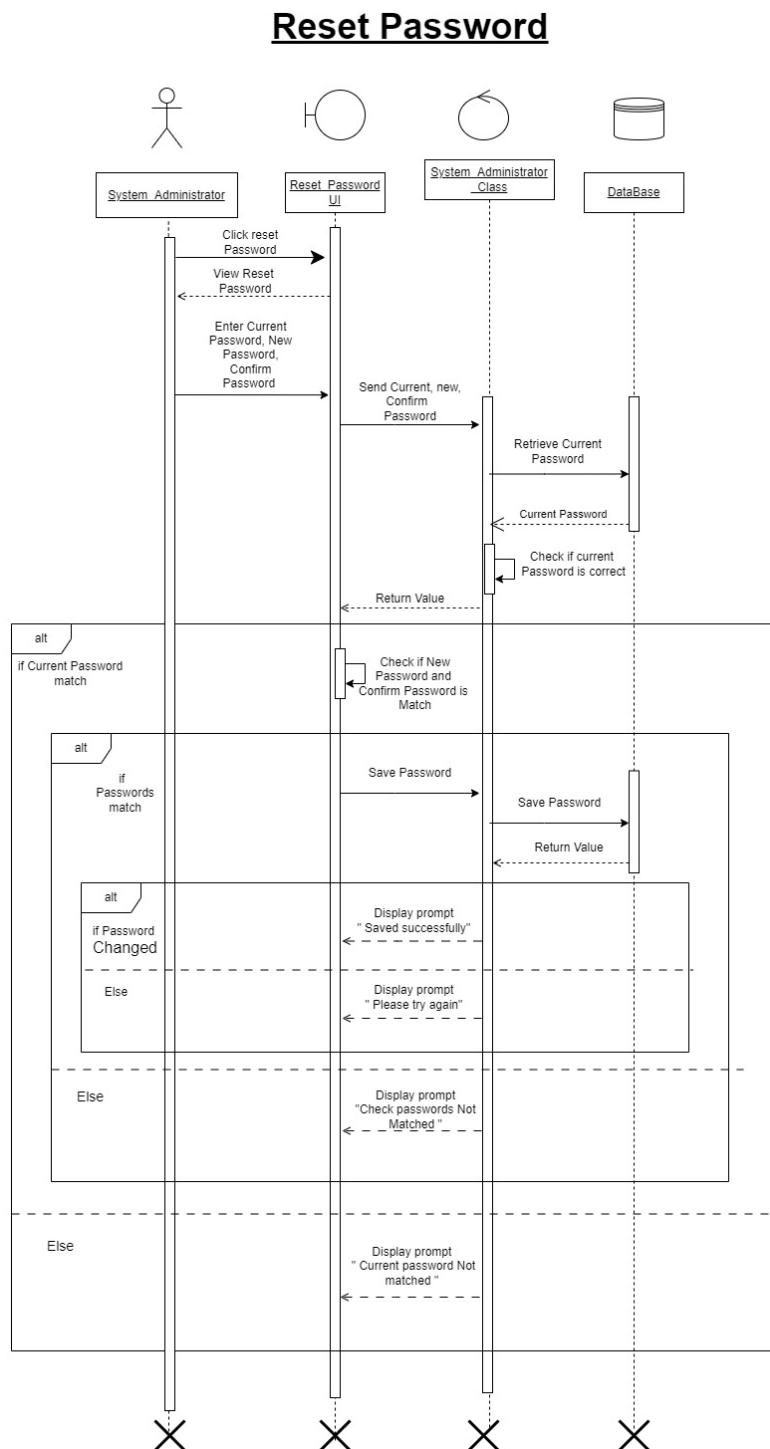


3. Add Department

## Add Department



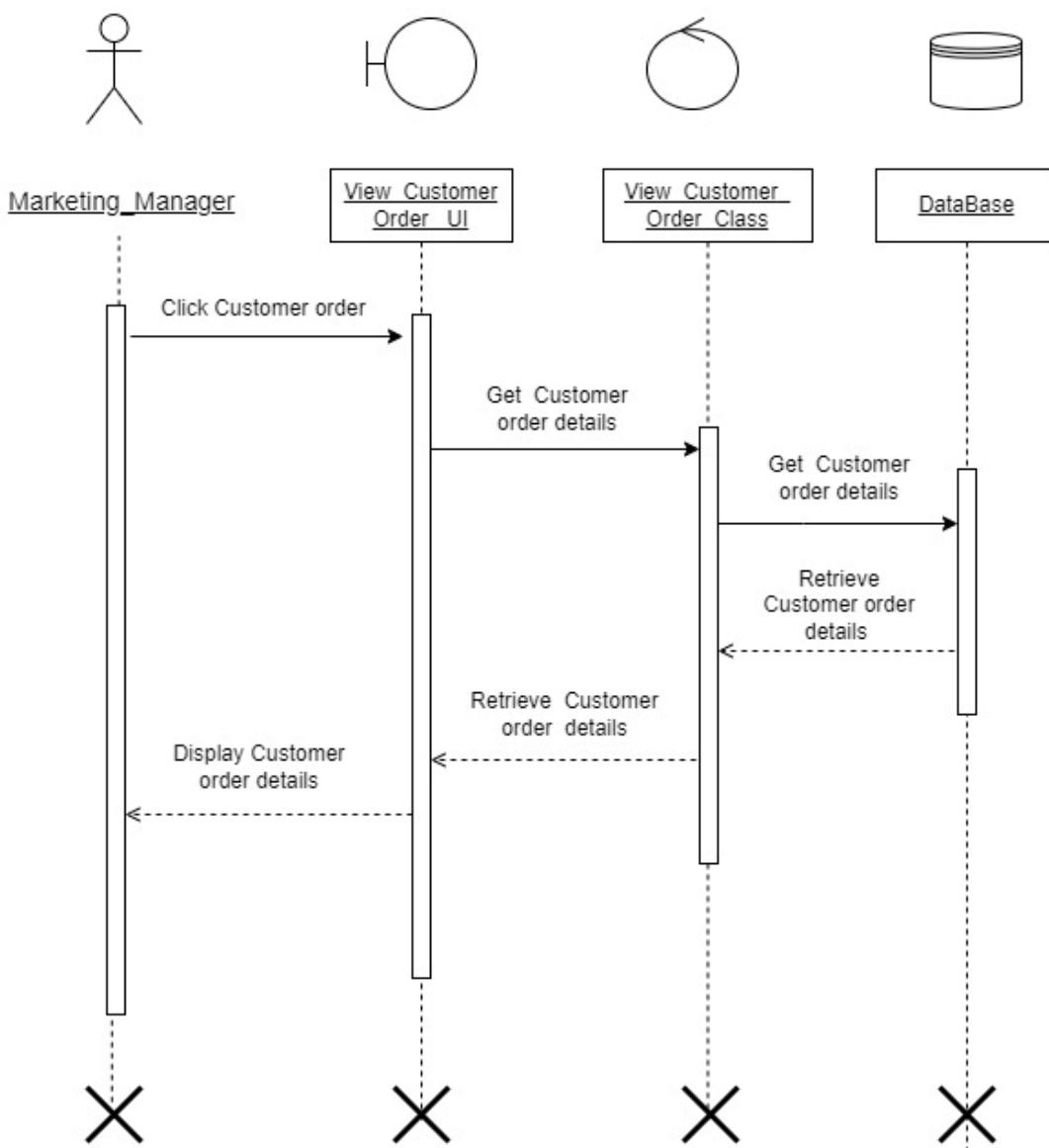
#### 4. Reset Employee Password



## Marketing Manager

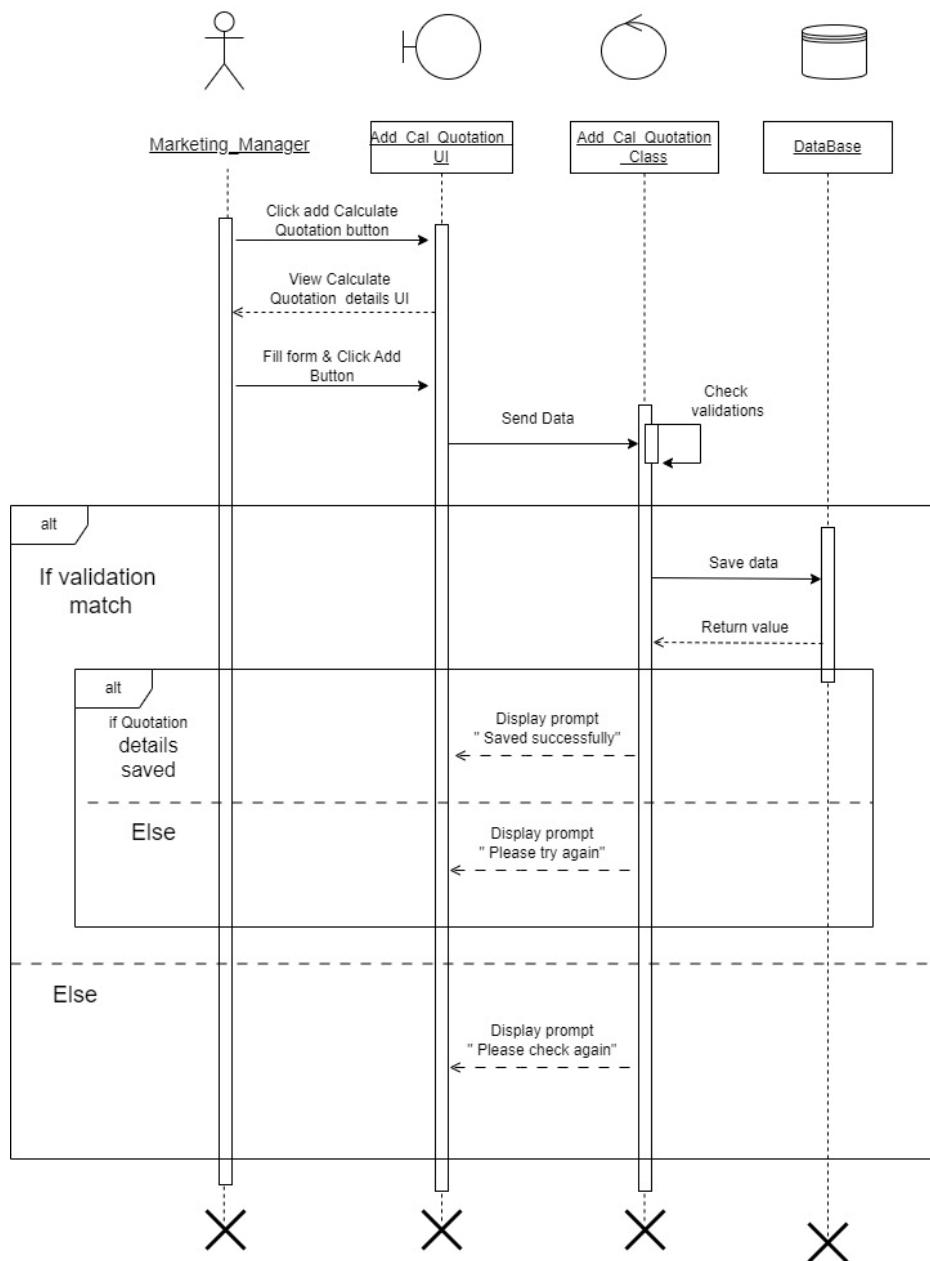
1. View Customer Order Details

# View Customer Order Details

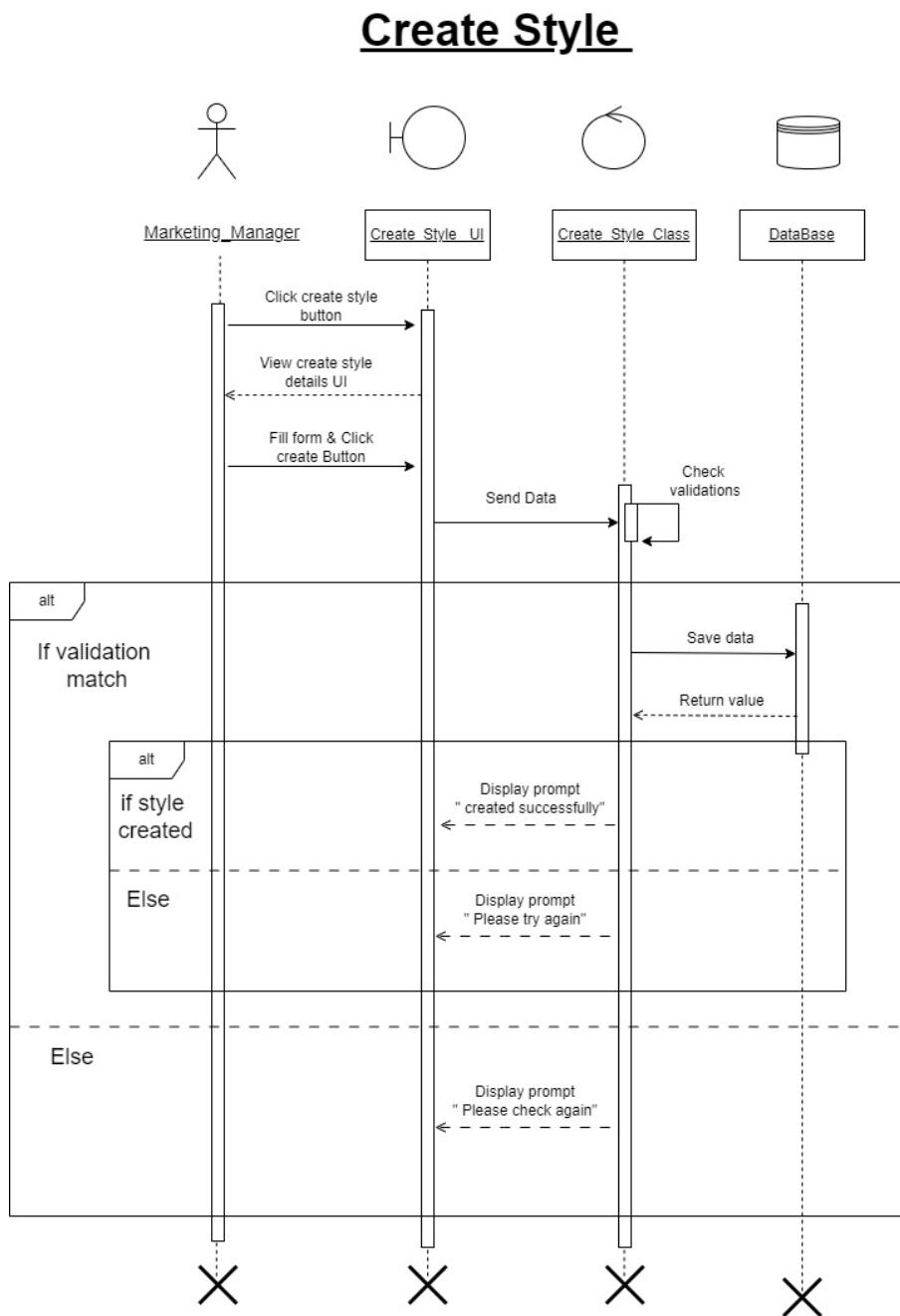


2. Create Customer Quotation

## Add Calculate Quotation

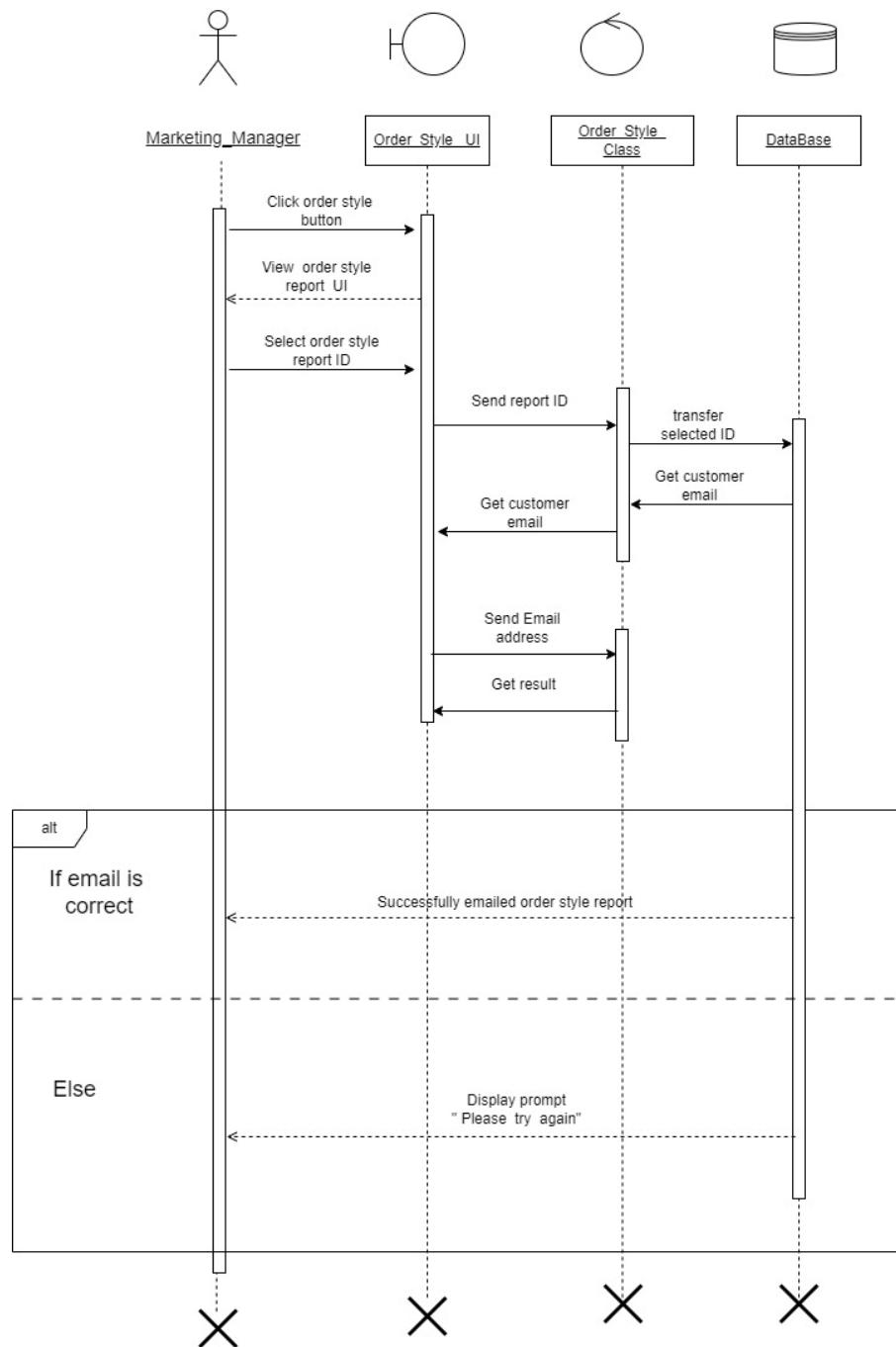


### 3. Create Style



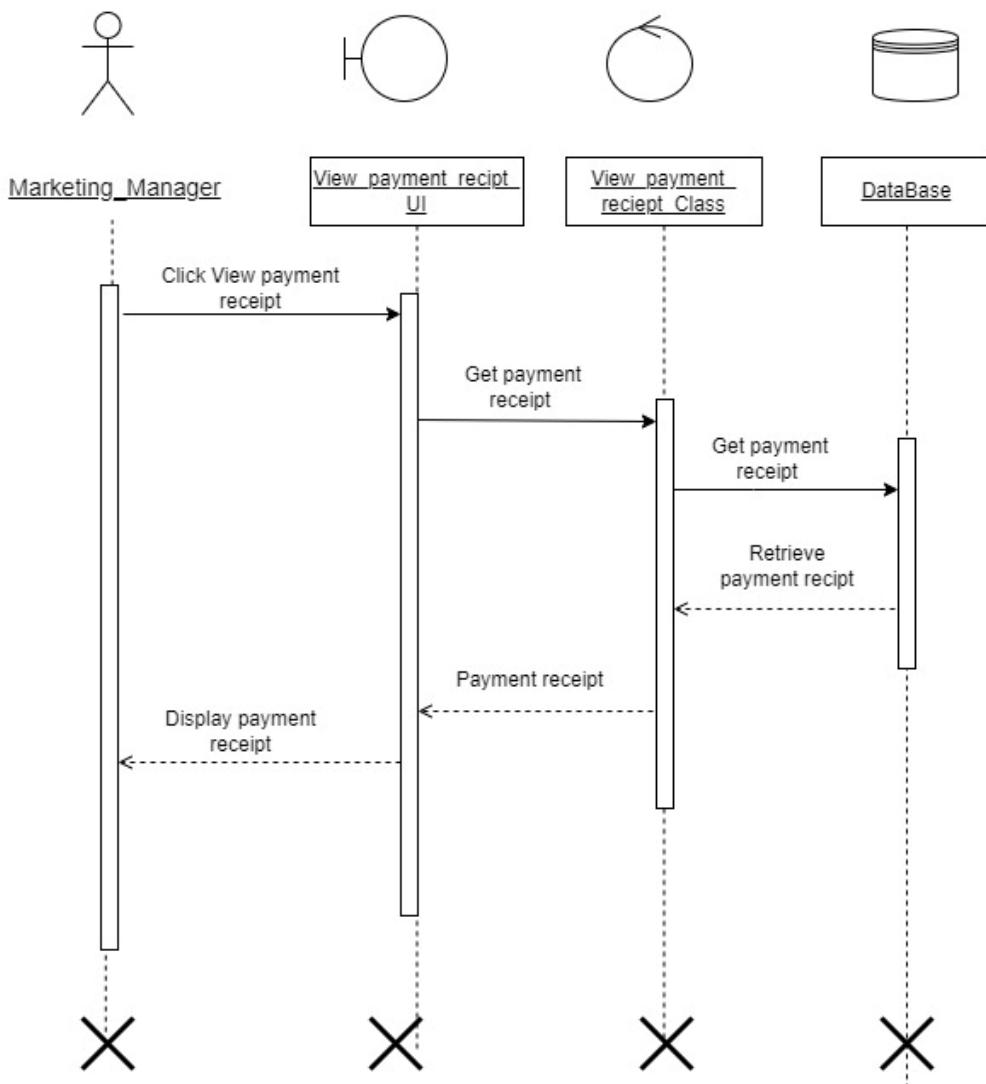
4. Send Style

## Send order style report



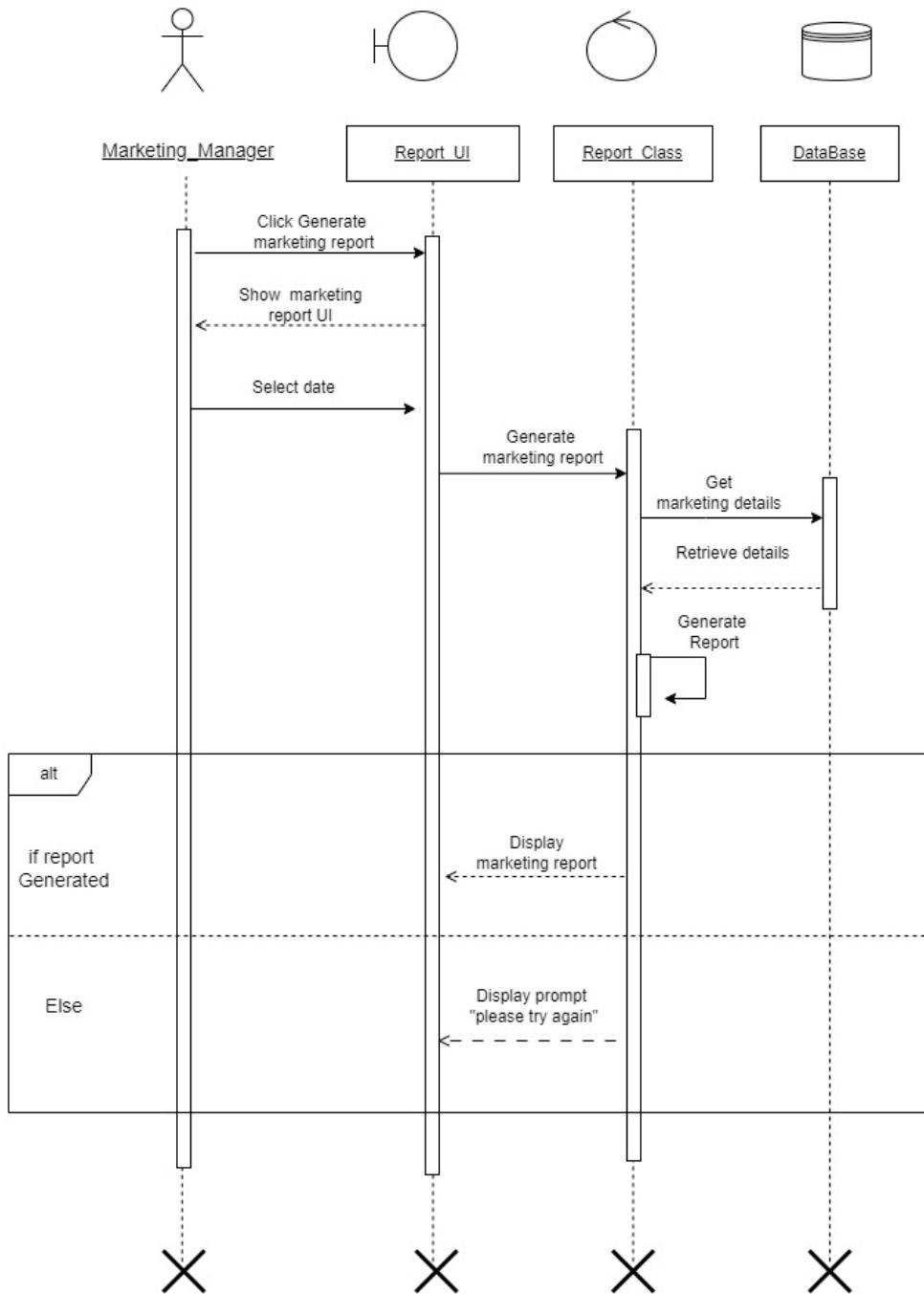
5. View Customer Payment Receipt

## View Customer Payment Receipt



6. Generate Marketing Report

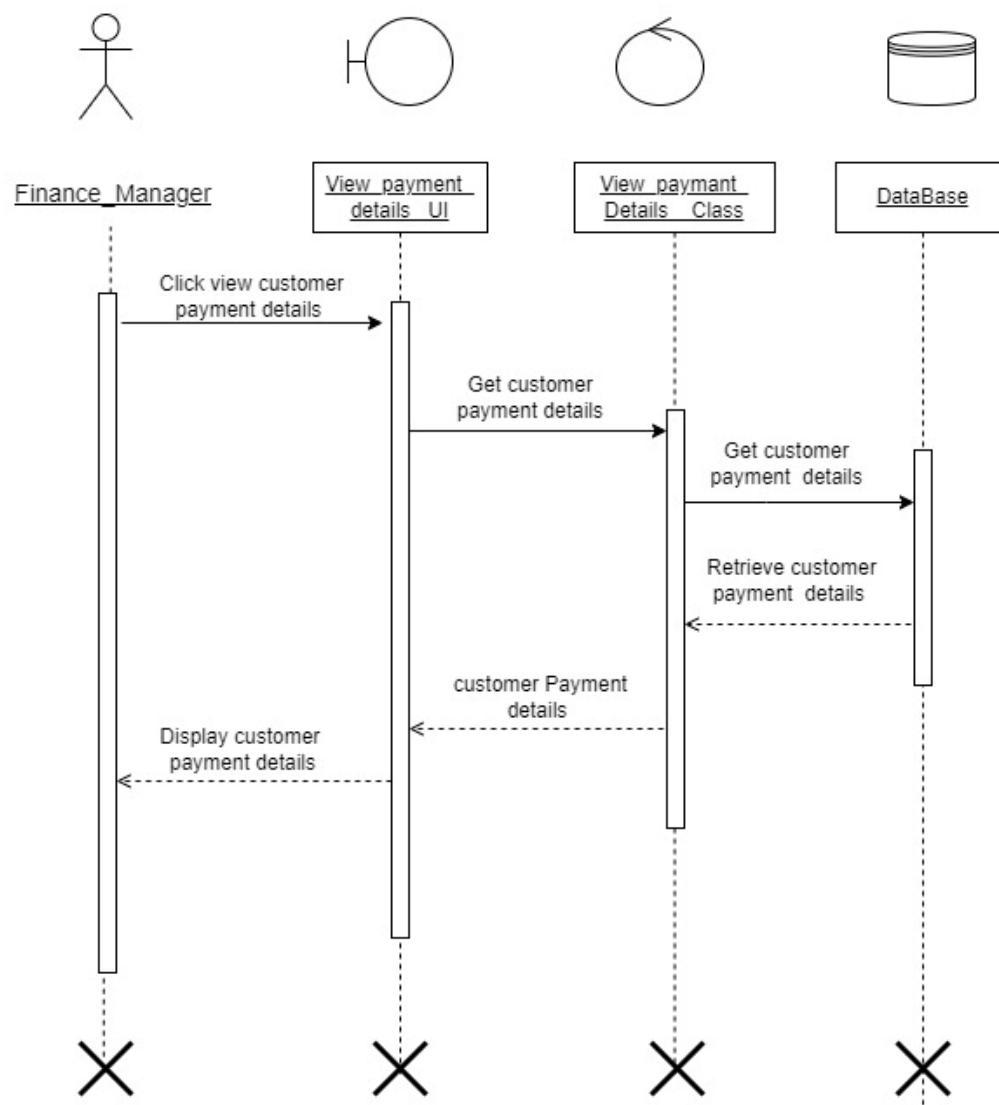
## Generate Marketing Report



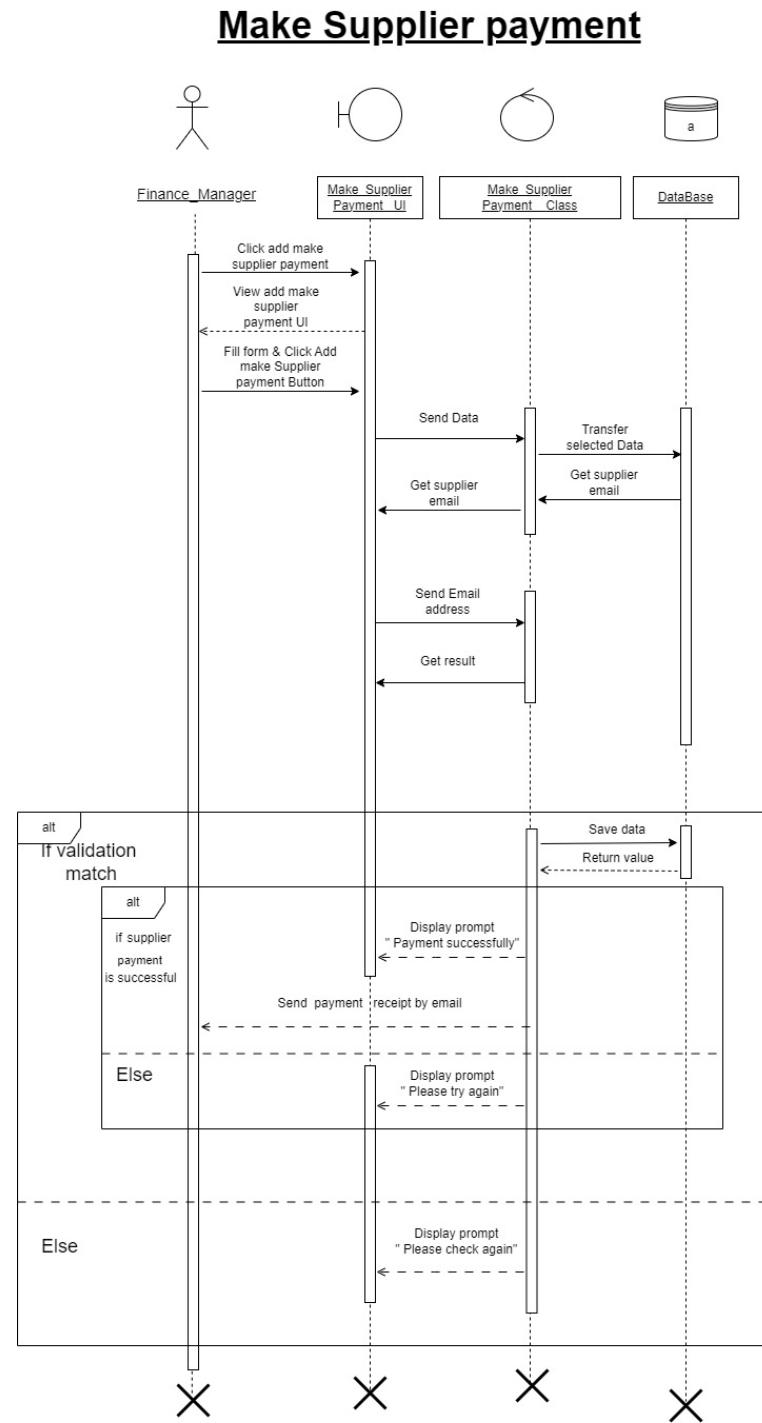
## Finance Manager

1. View Customer Payment records

# View Customer Payment Details

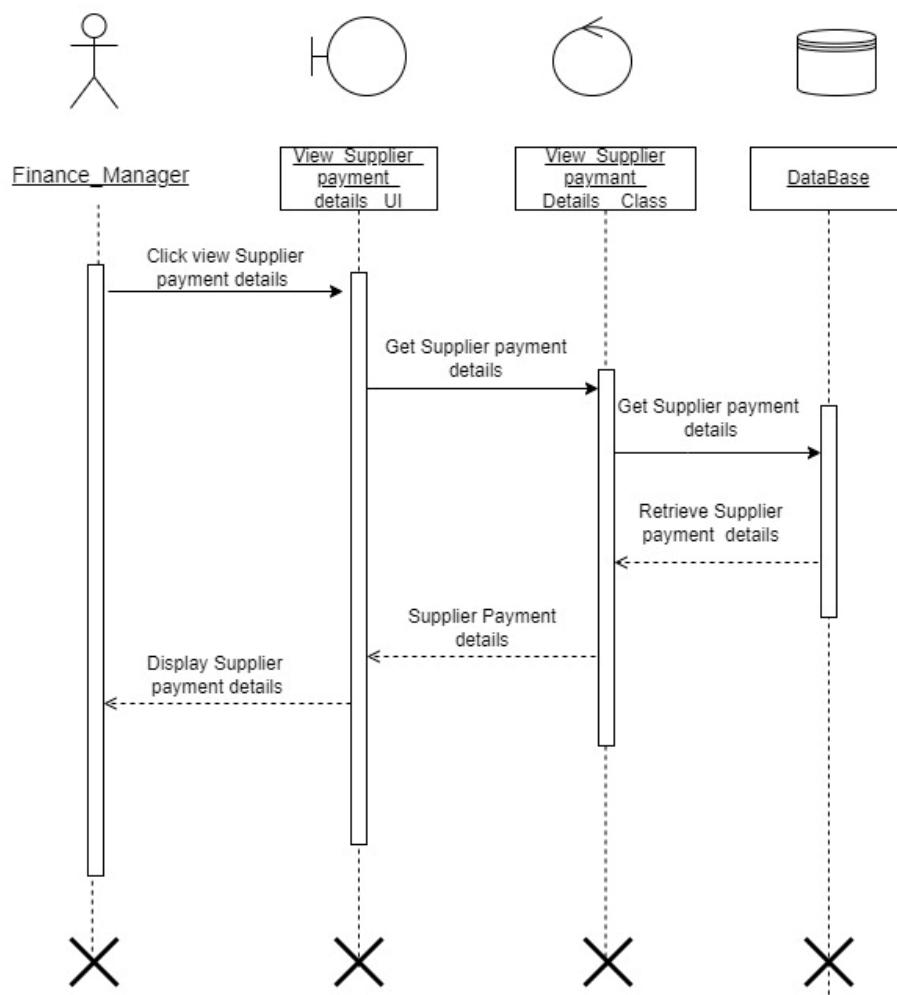


## 2. Make Supplier Payment



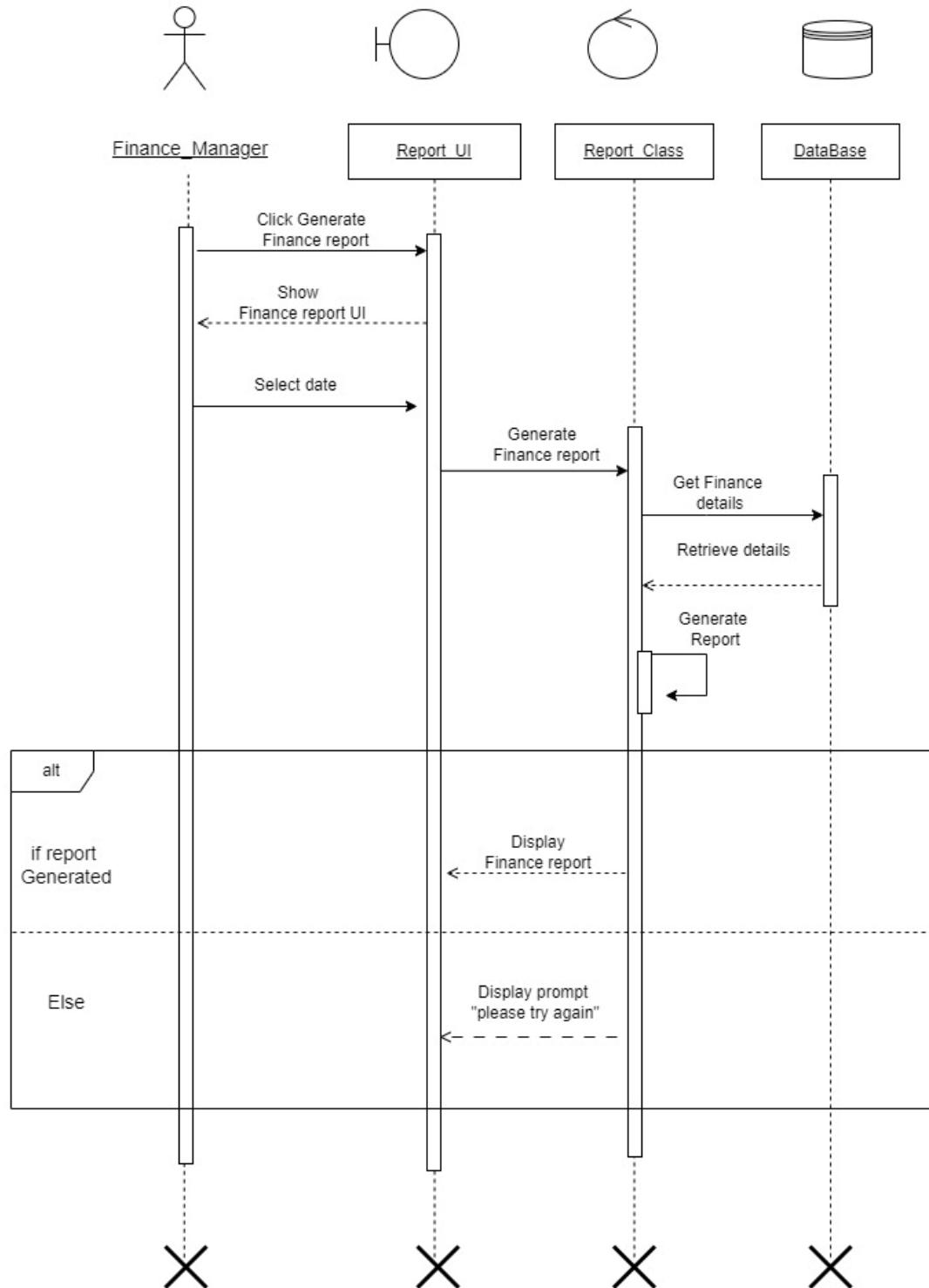
### 3. View Supplier Payment

## View Supplier payment



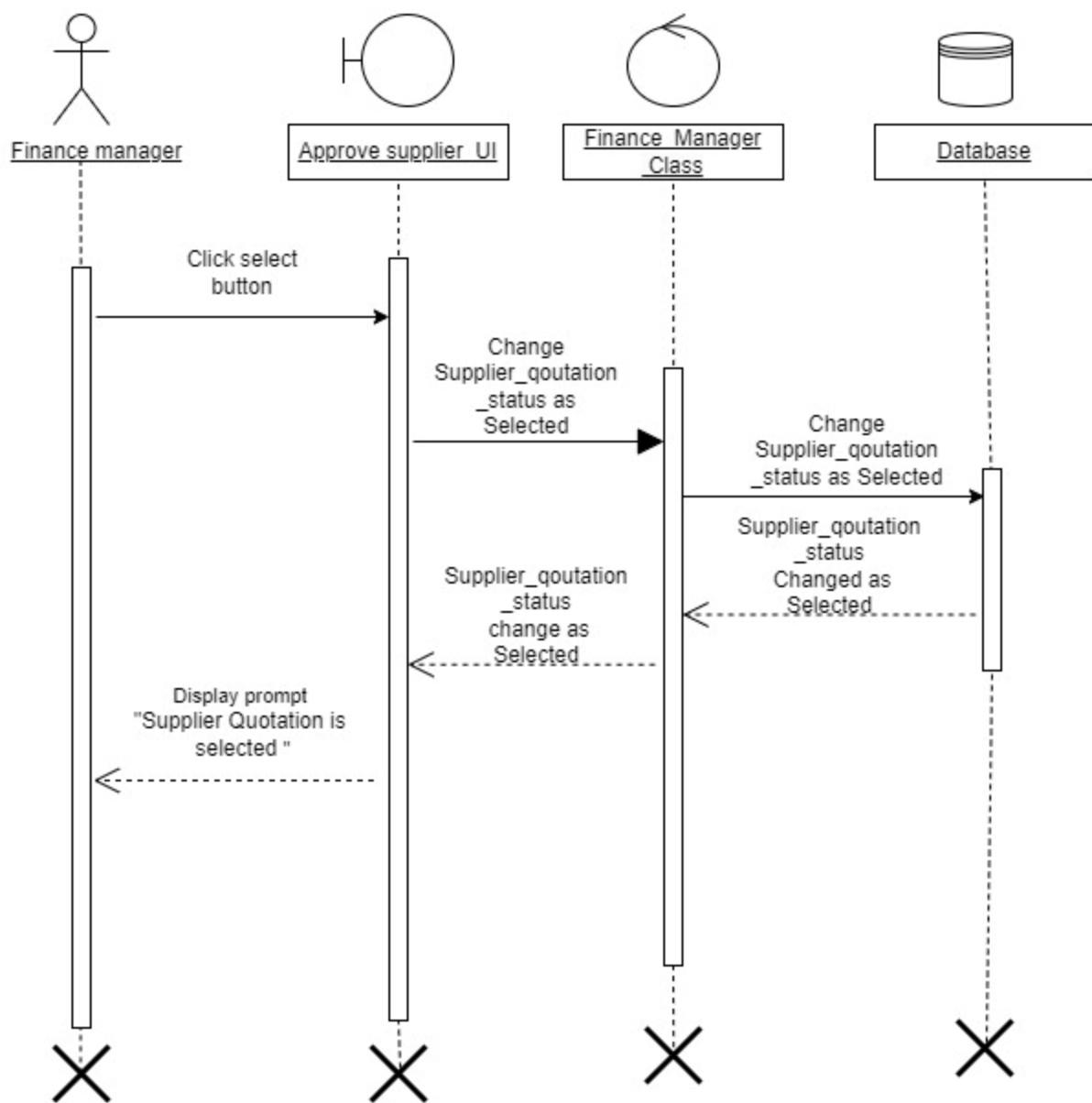
4. Generate Finance Report

## Generate Finance Report



5. Approve supplier quotation.

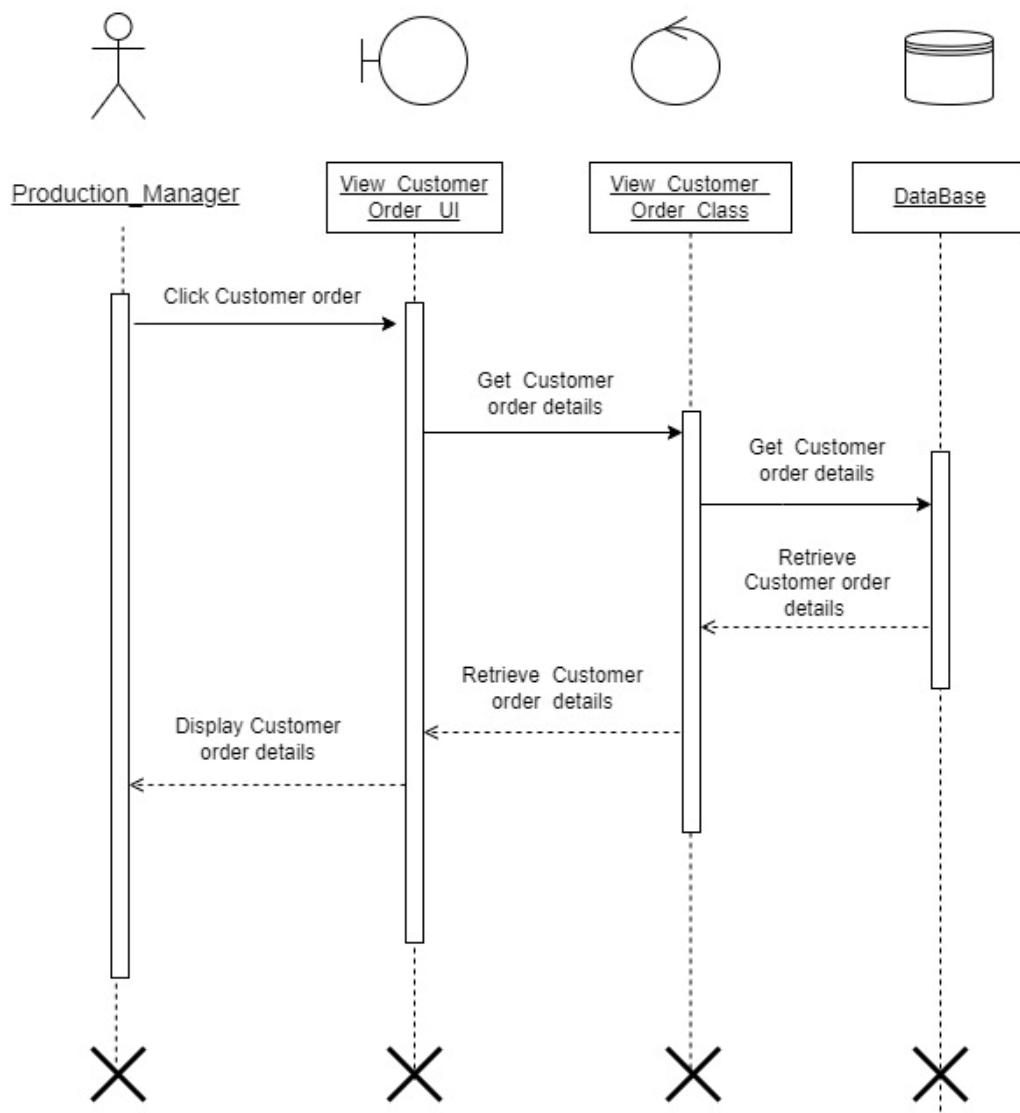
## Approve supplier quotation



## Production Manager

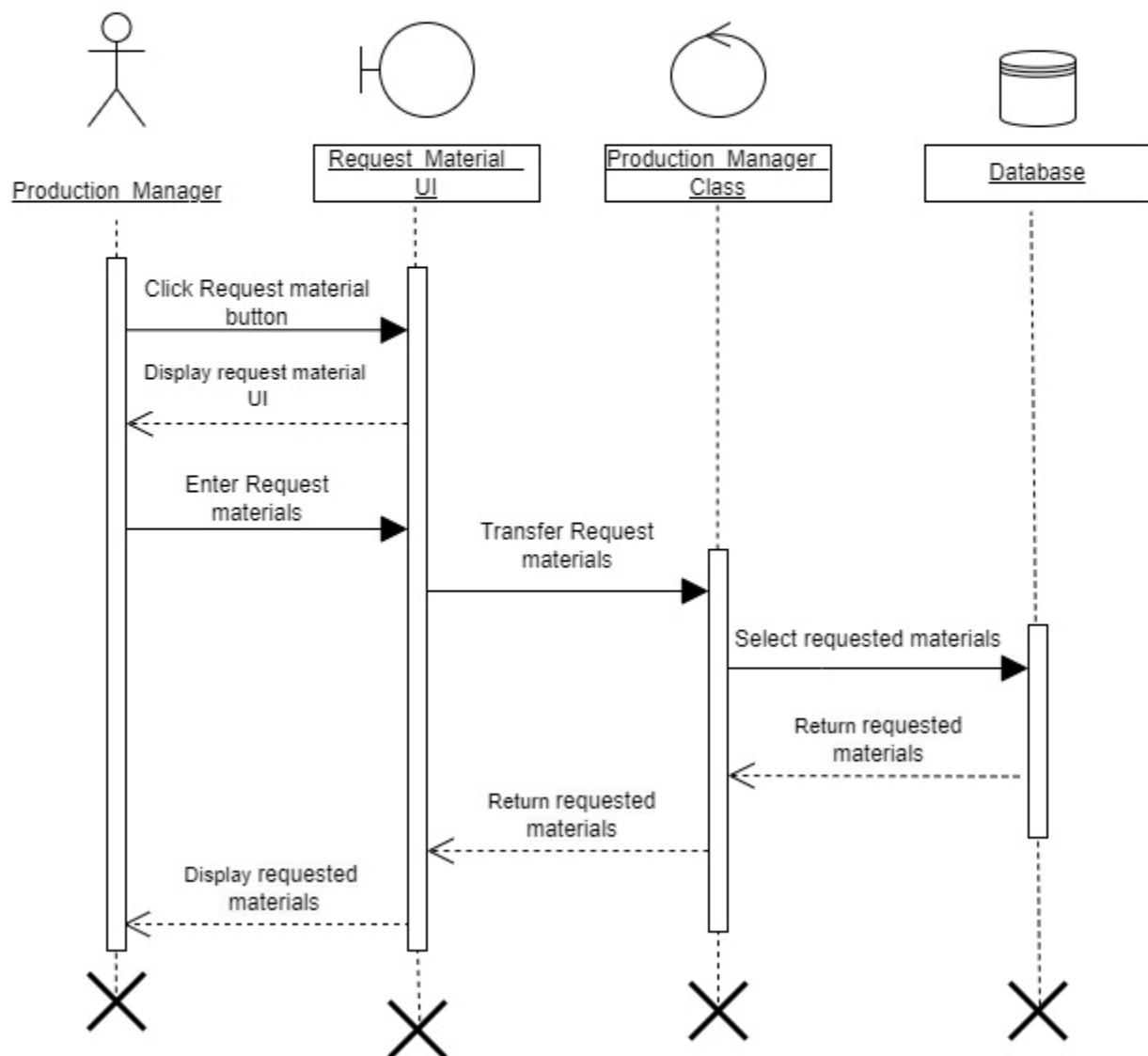
1. View Order

# View Customer Order Details



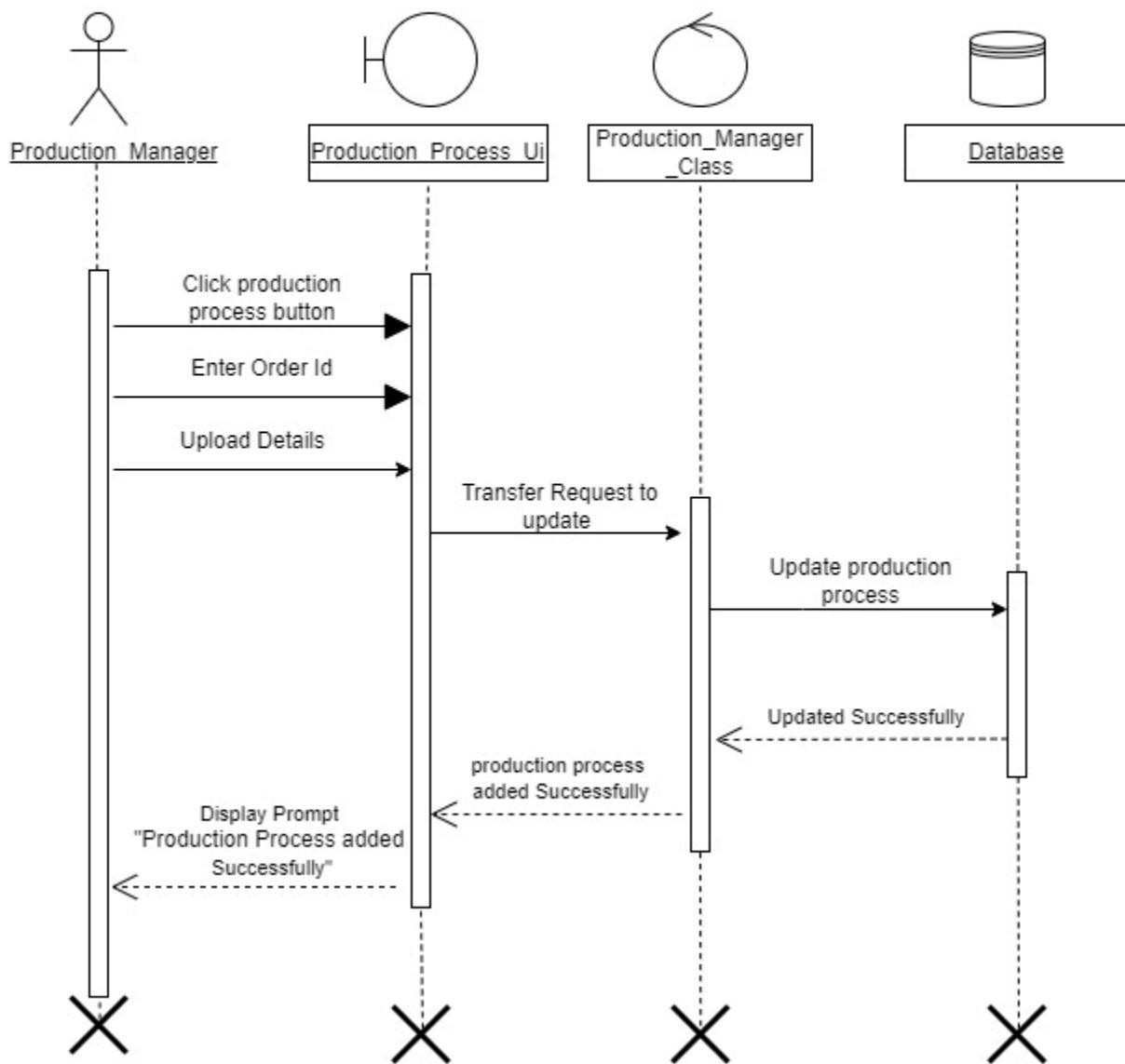
2. Request materials from stores.

## Request Materials From Stores



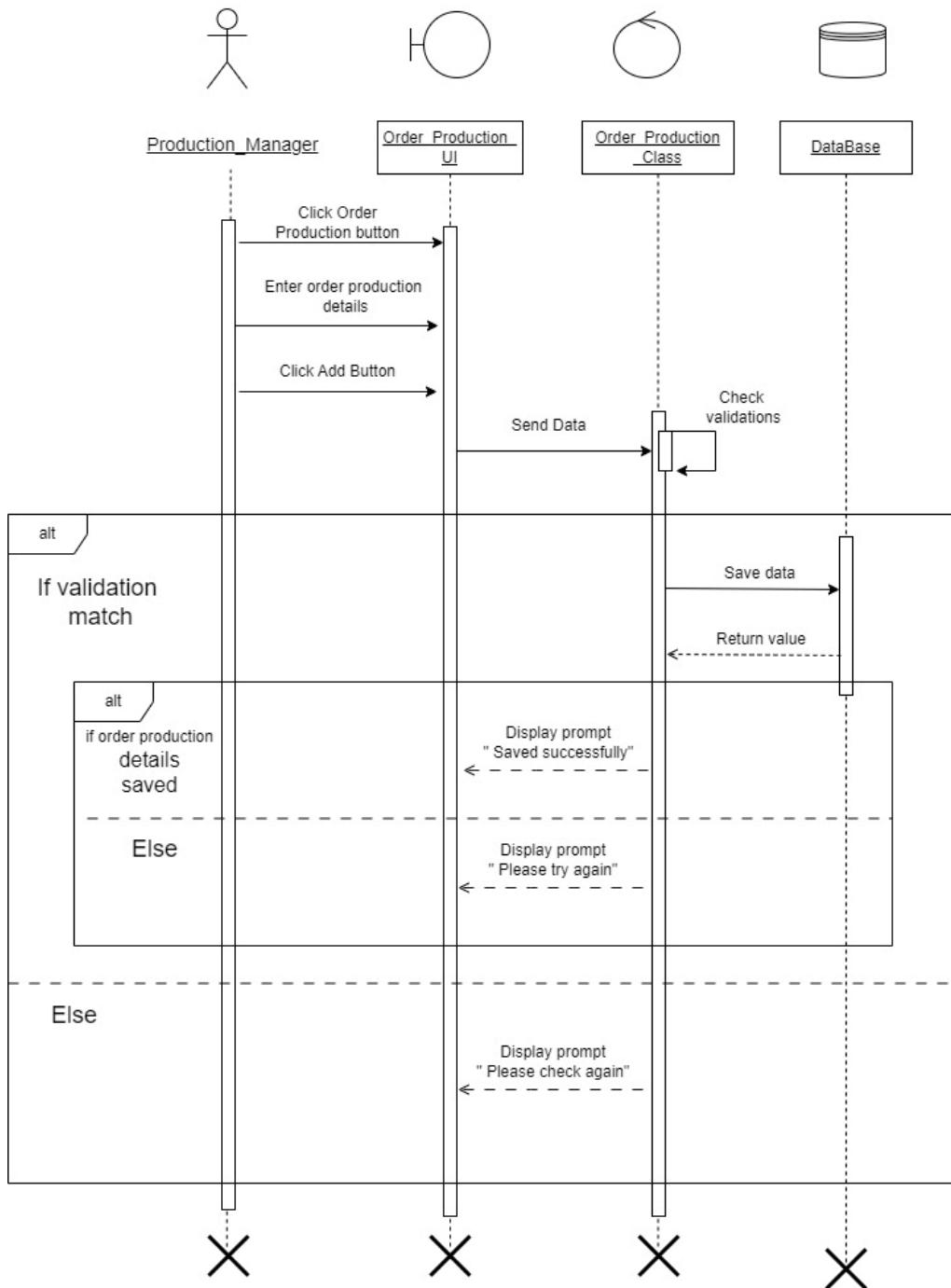
### 3. Upload Production Process

## Upload Production Process



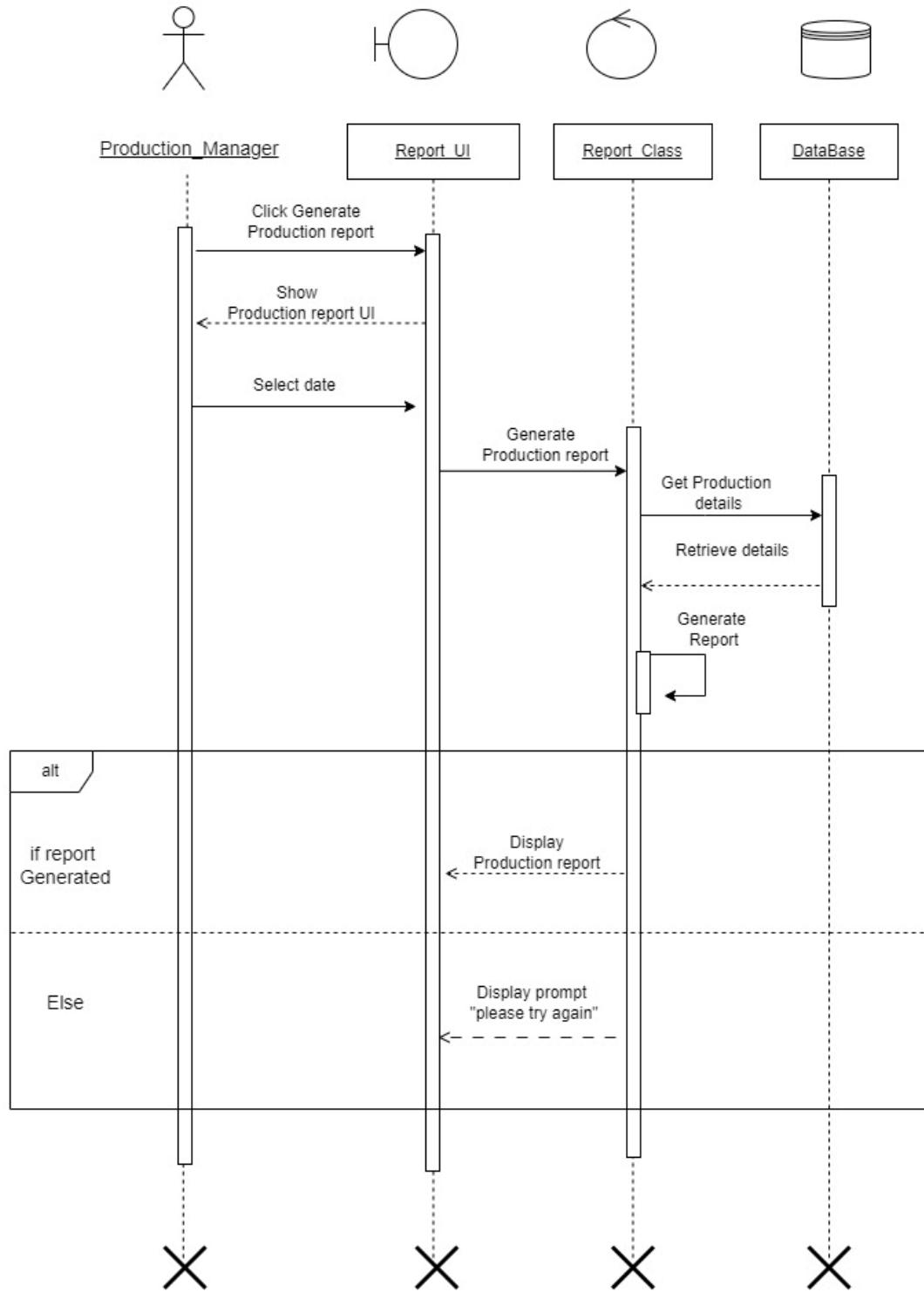
4. Enter Order Production Details

## Enter Order Production Details



5. Generate Production Report

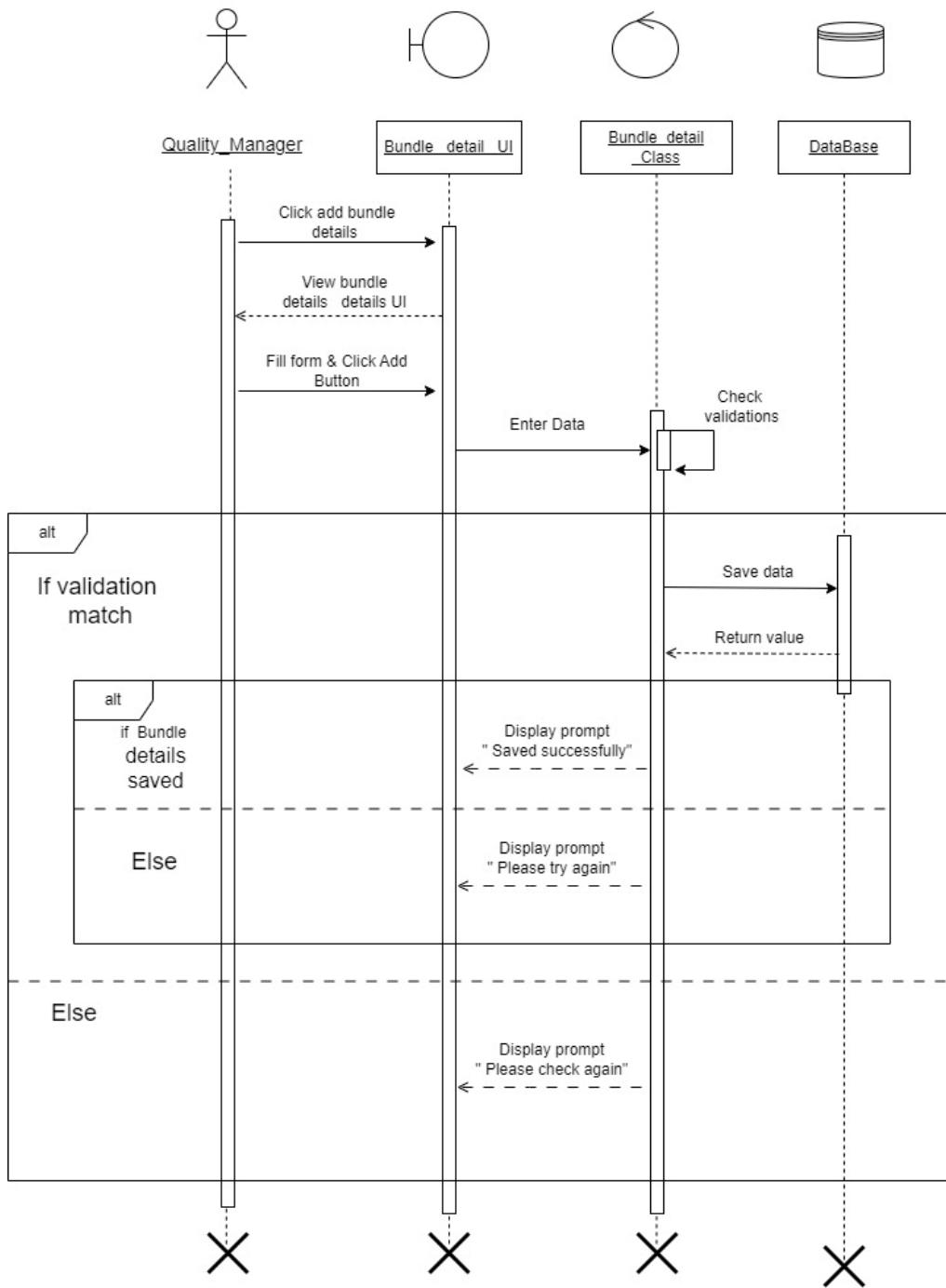
## Generate Production Report



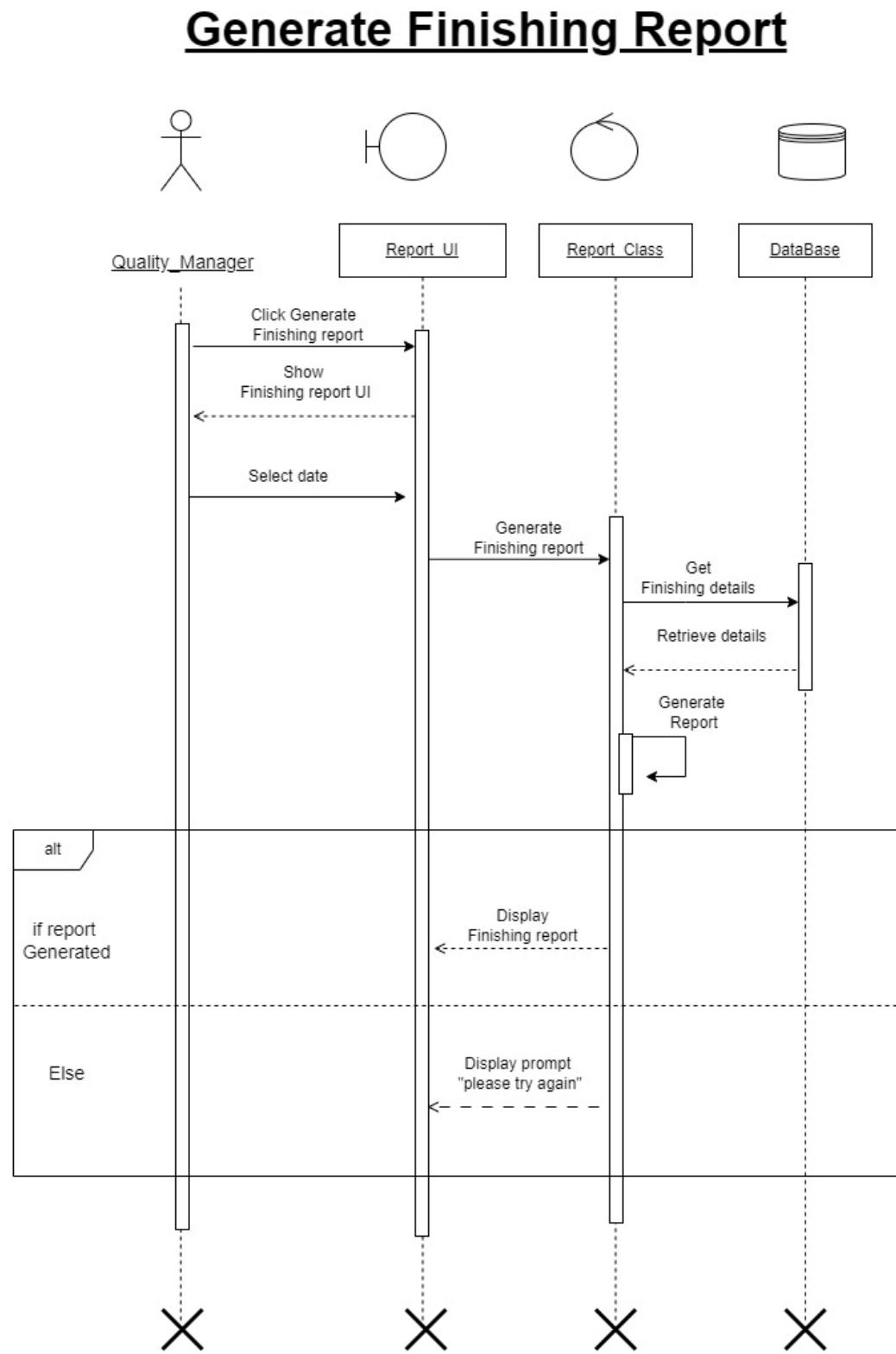
## Quality Manager

1. Enter bundle details.

### Add Bundle Details



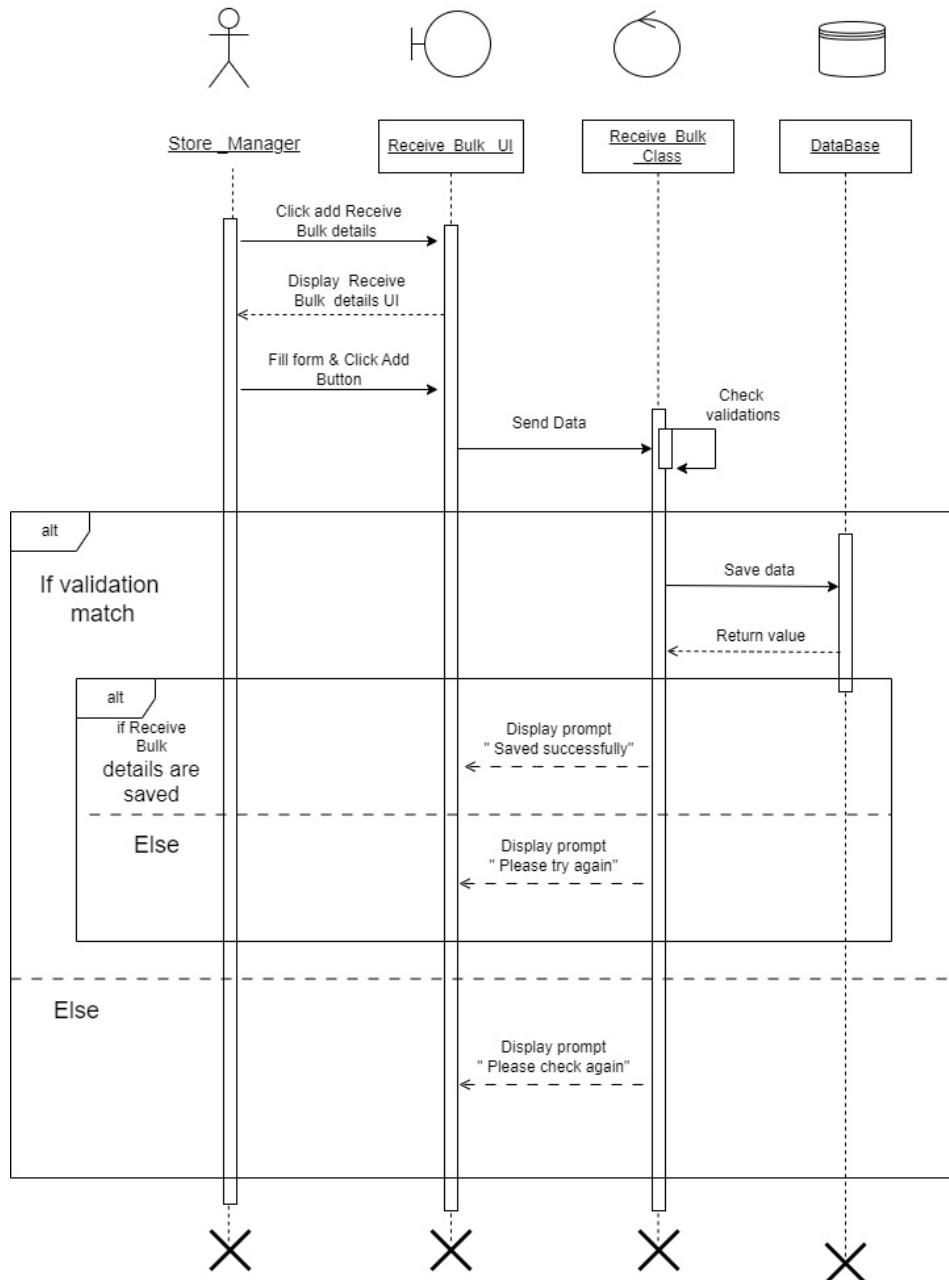
2. Generate Finishing Report



## Store Manager

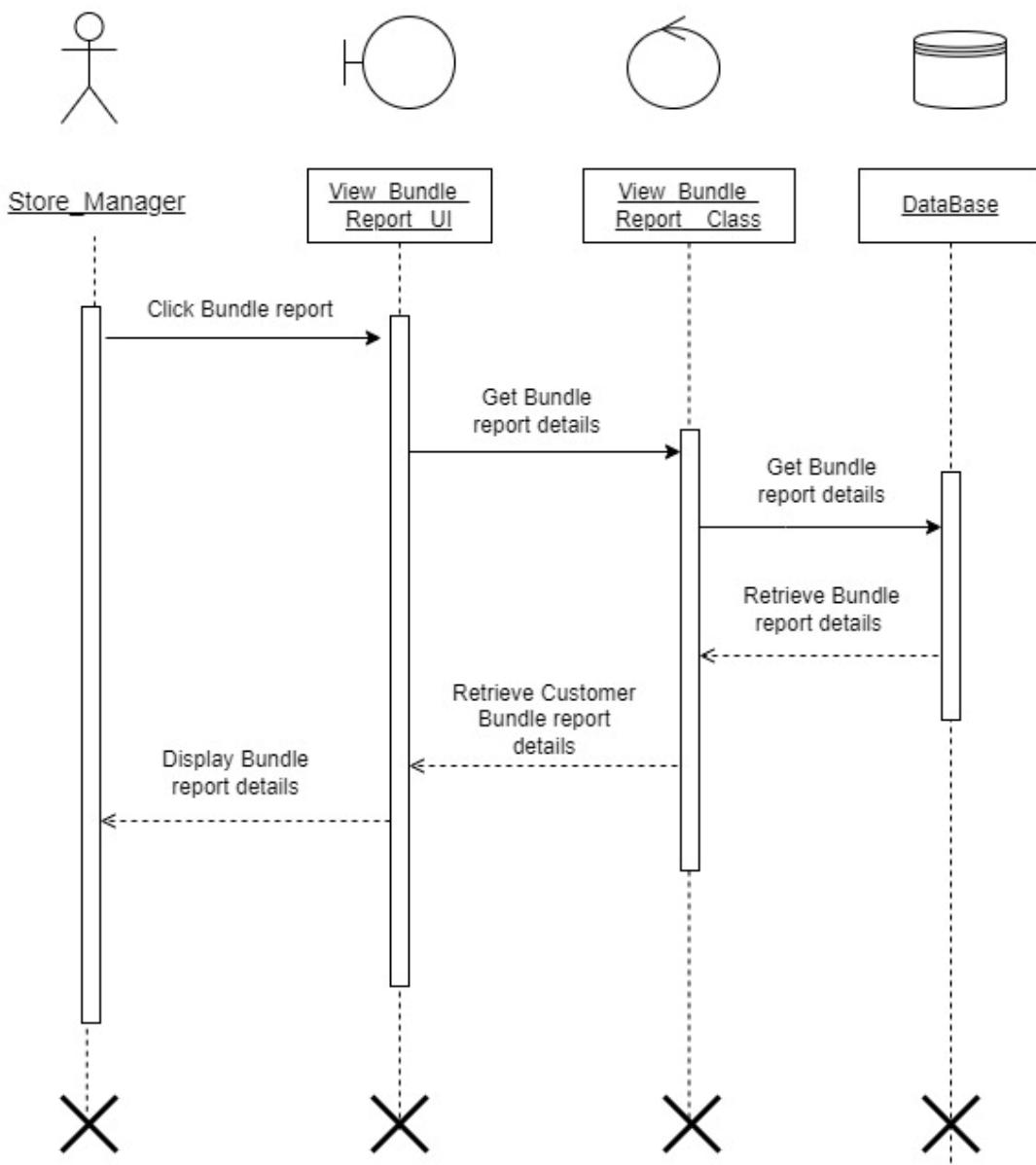
1. Add received bulk details.

### Add Receive Bulk Details



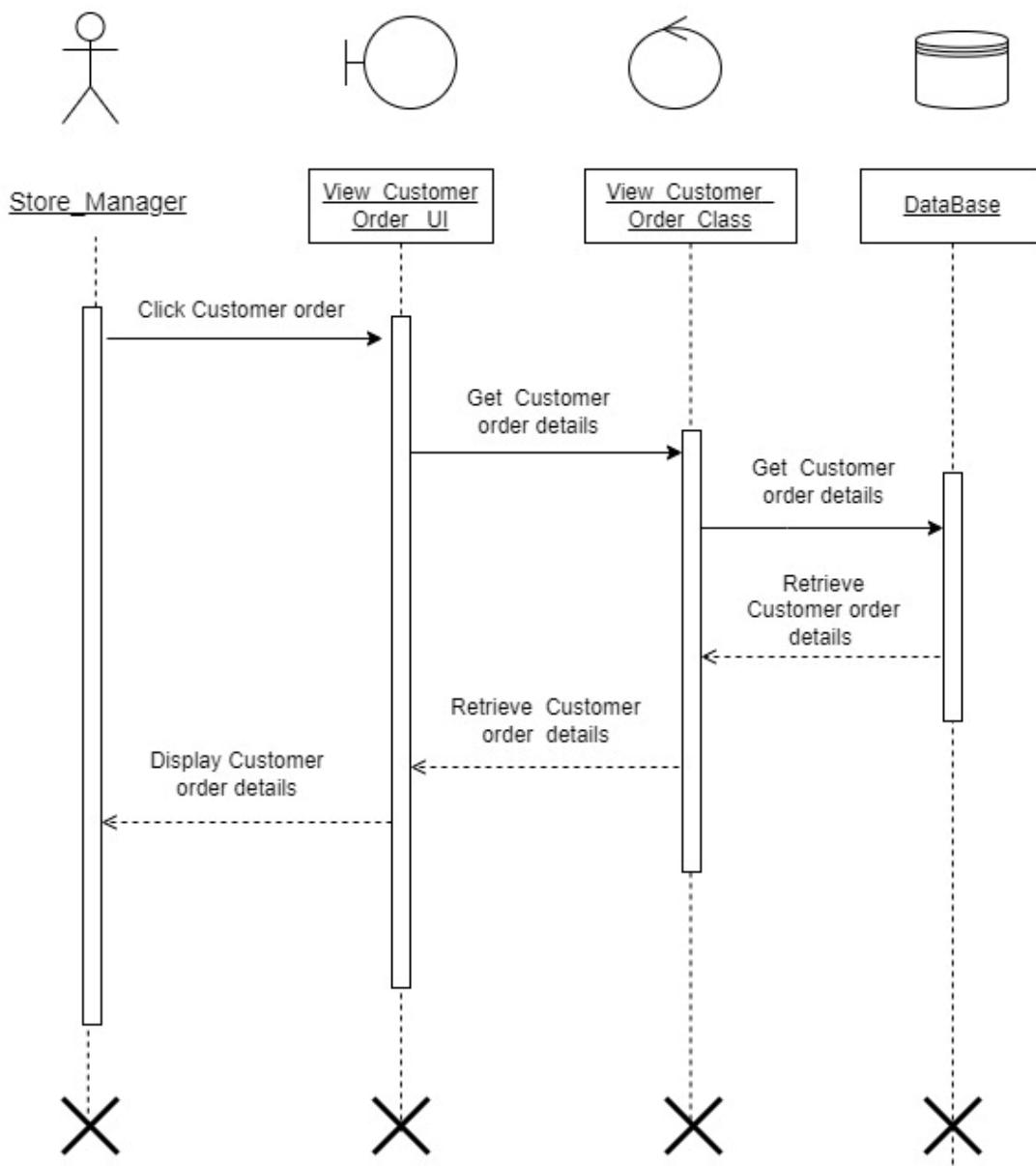
2. View bundle report

## View Bundle Report



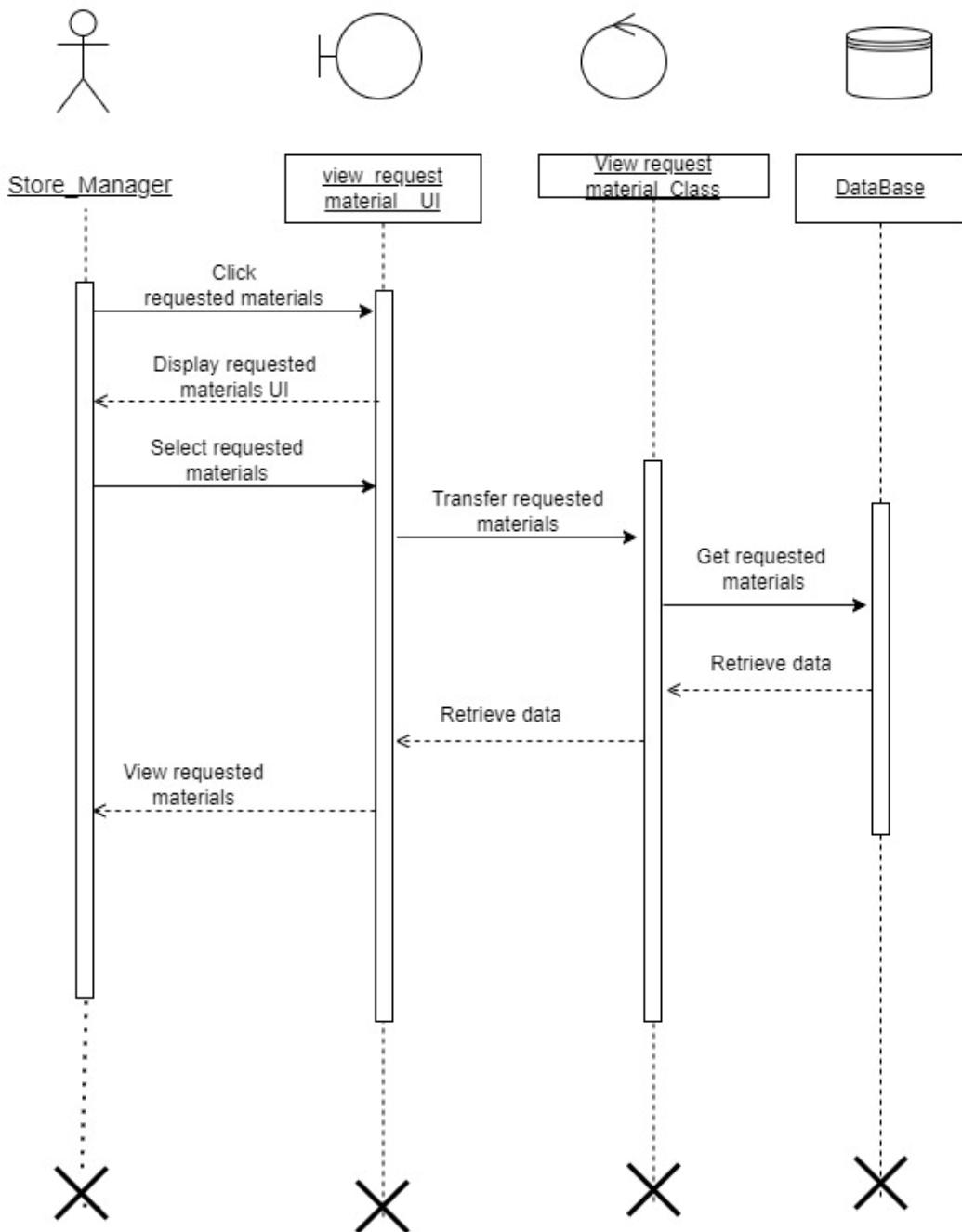
3. View Customer order Details

## View Customer Order Details



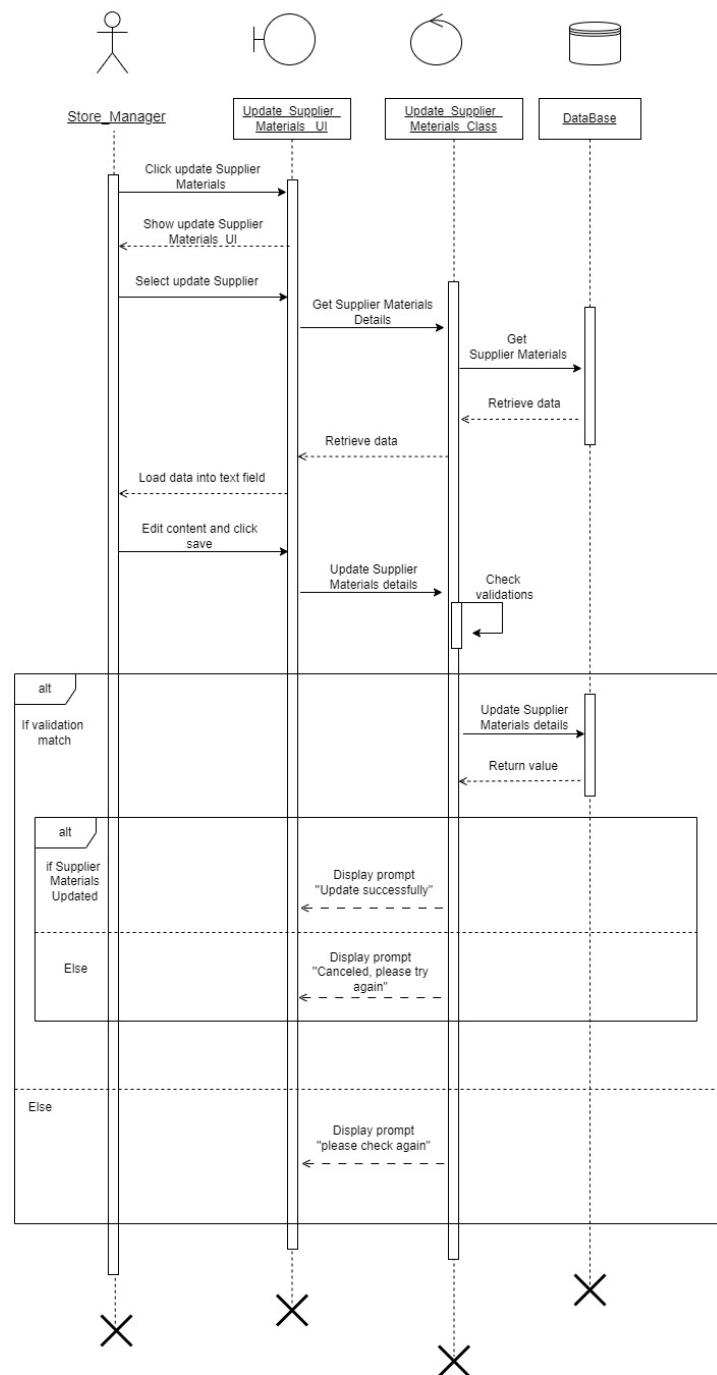
4. View requested materials from PM

## View Requested Material



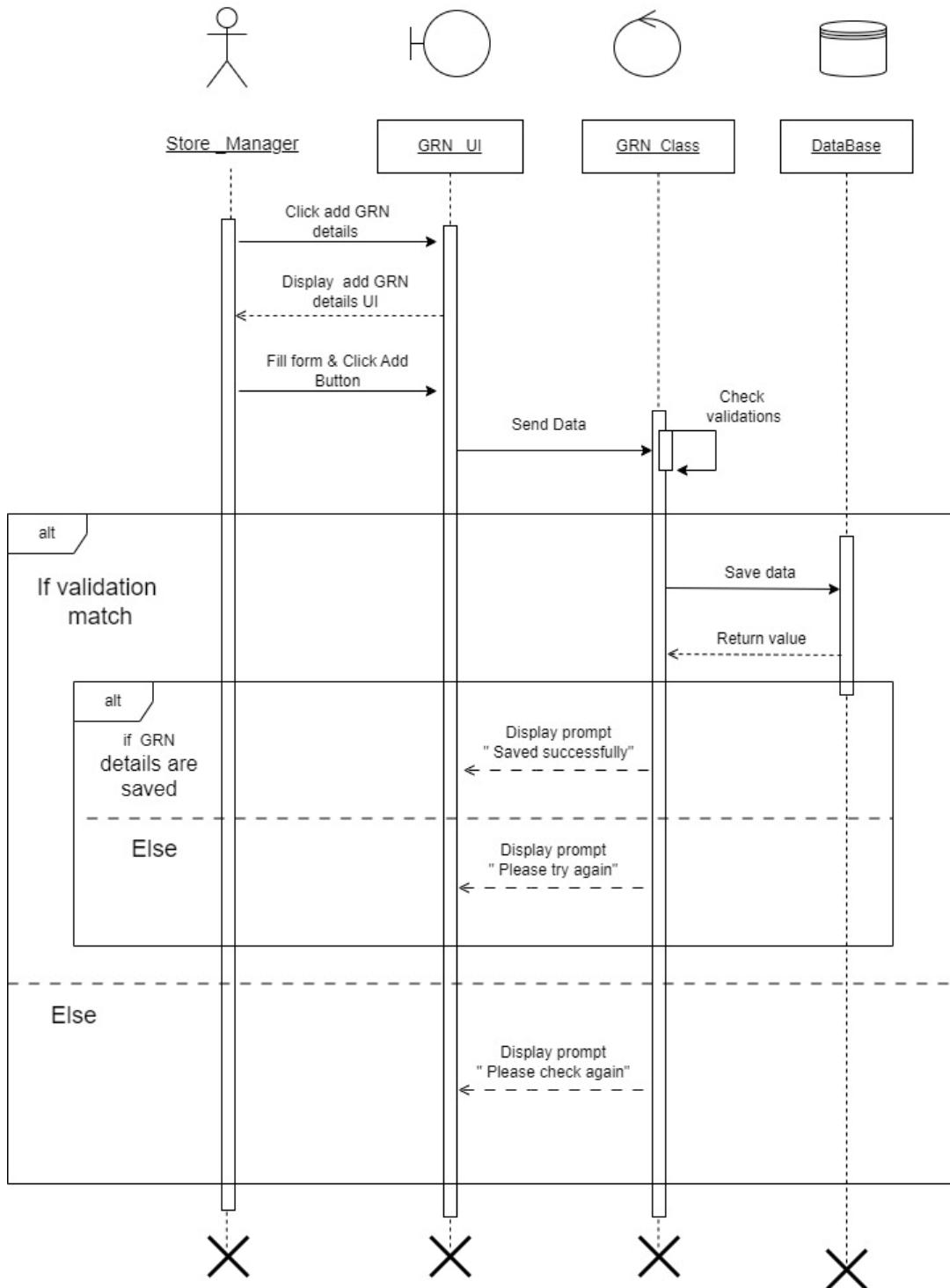
5. Update Supplier materials.

## Update Supplier Materials



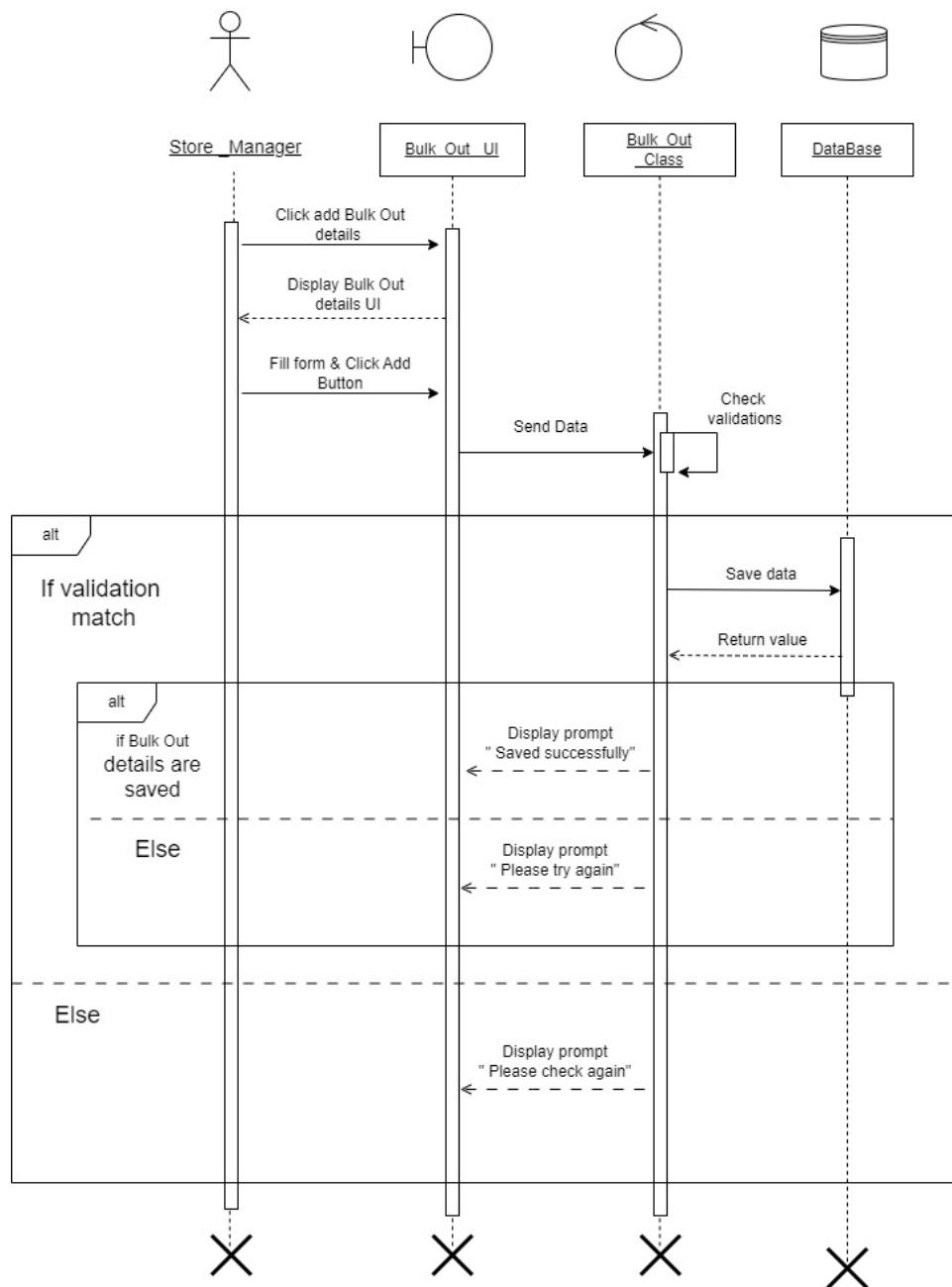
6. Add GRN details.

## Add GRN Details



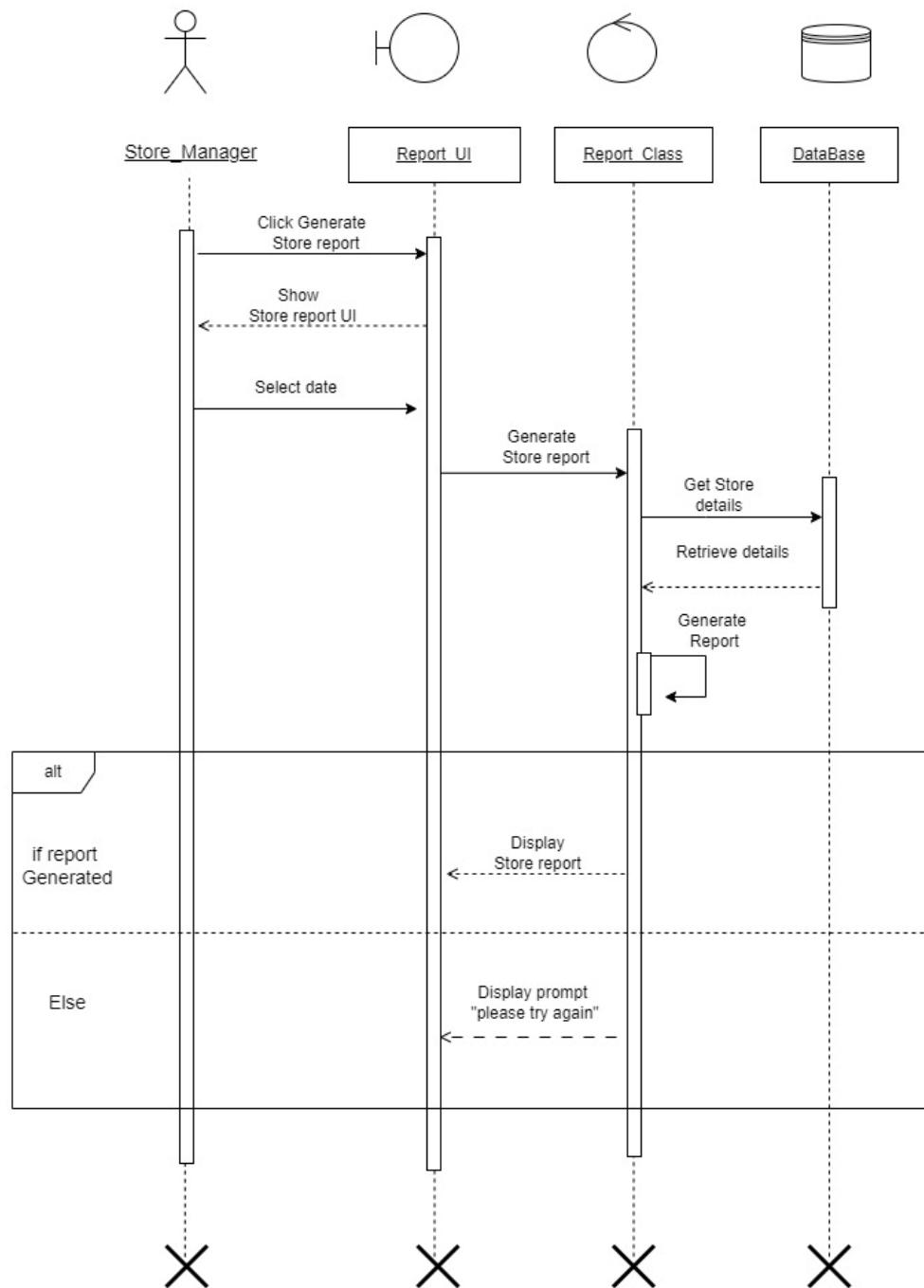
7. Add bulk out details.

## Add Bulk Out Details



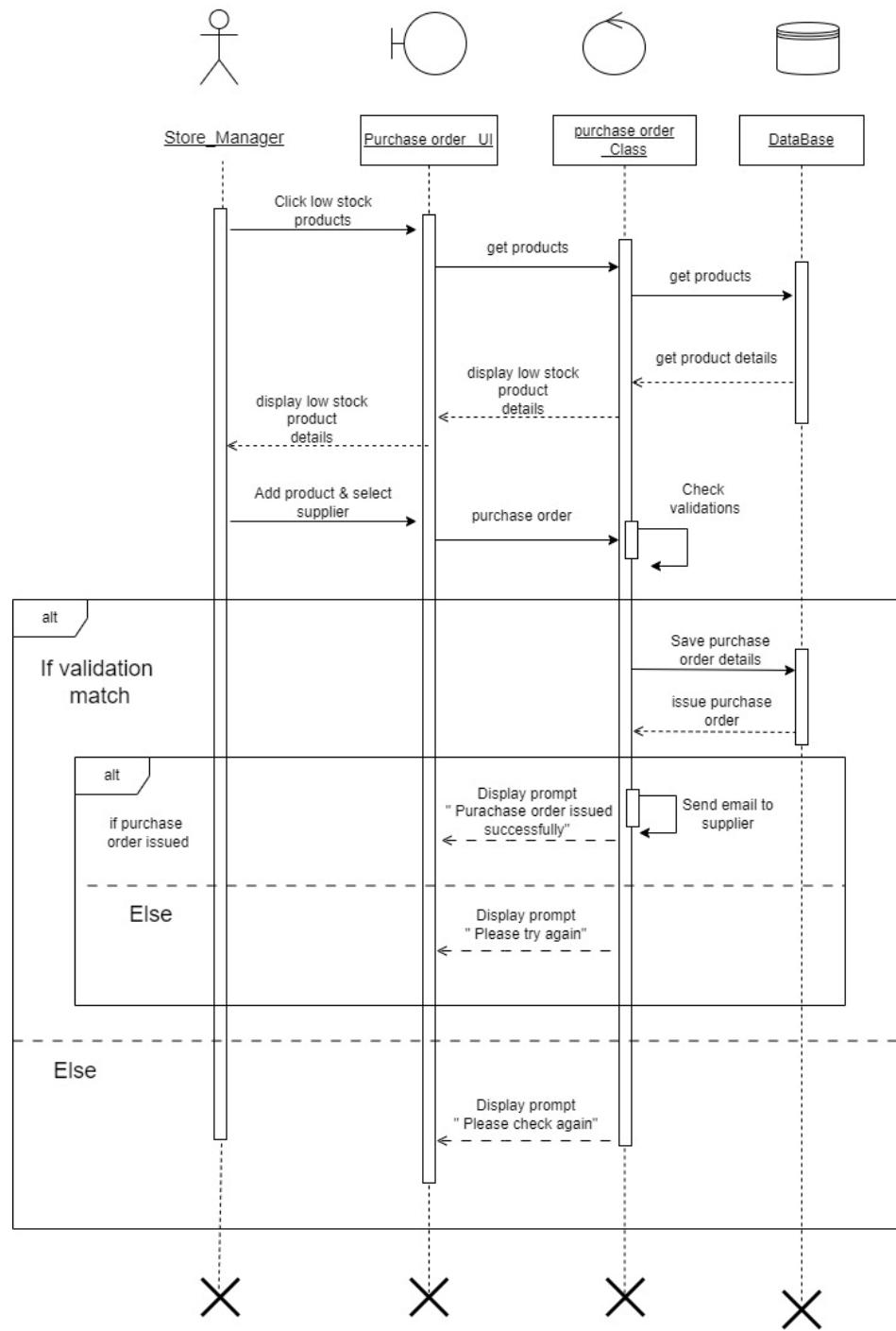
8. Generate Store Report

## Generate Store Report



## 9. Purchase Order

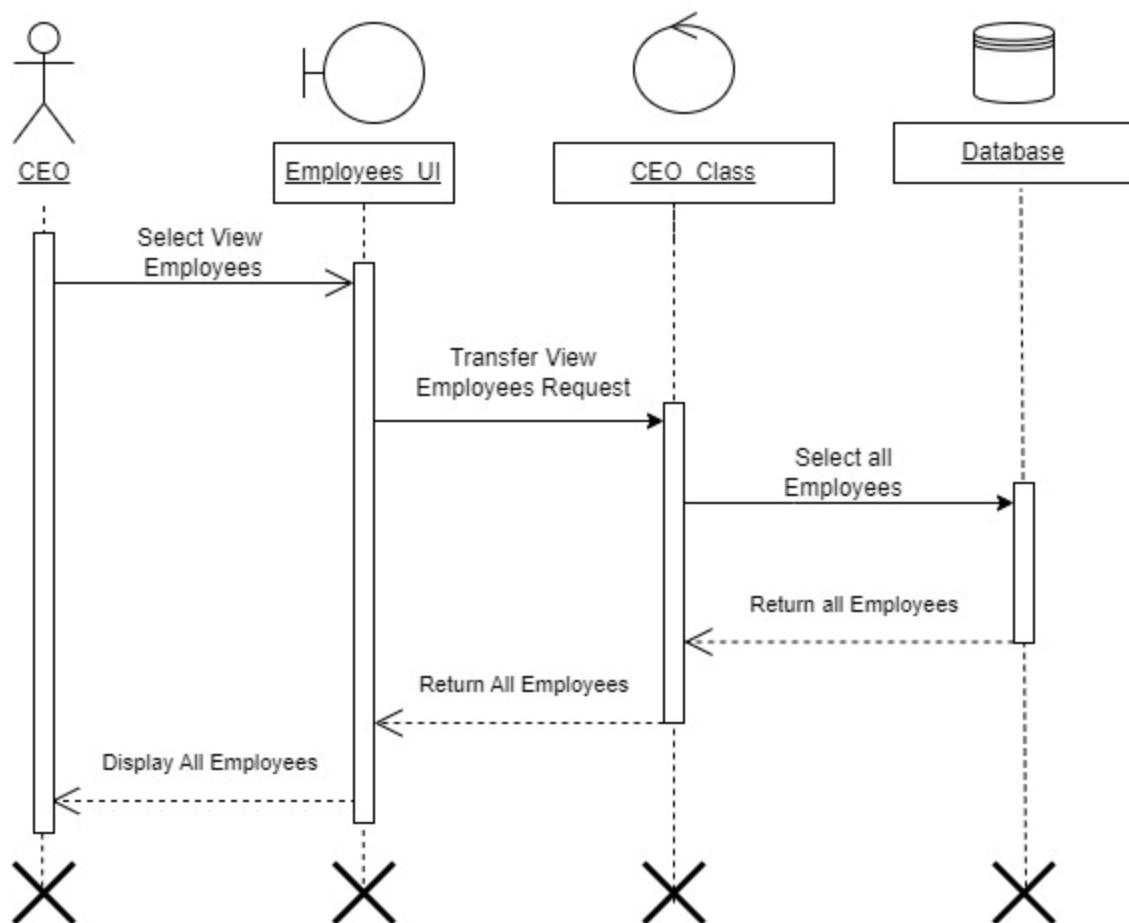
### Purchase order



## CEO

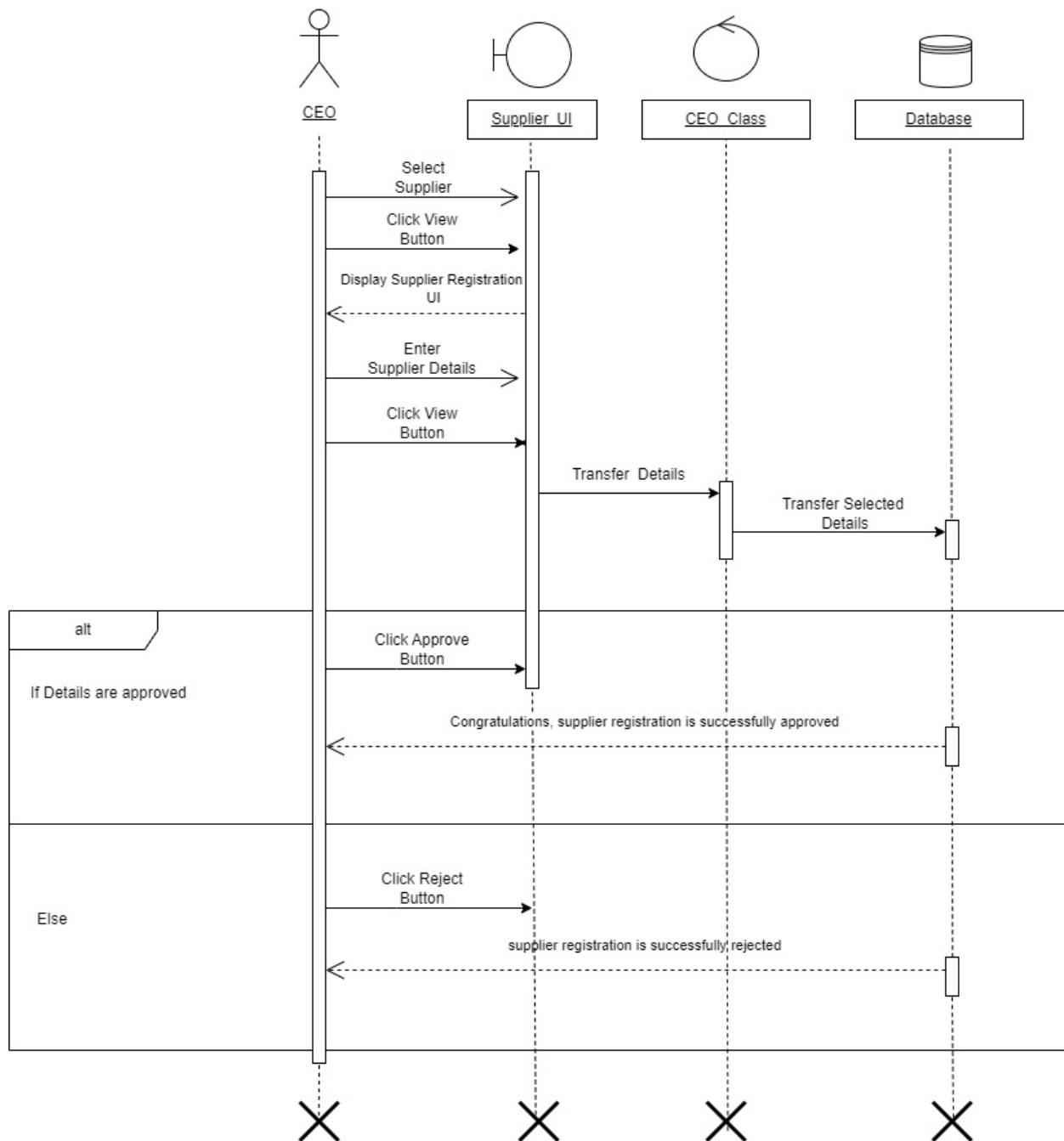
1. View Employee Registration history

### View Employee History

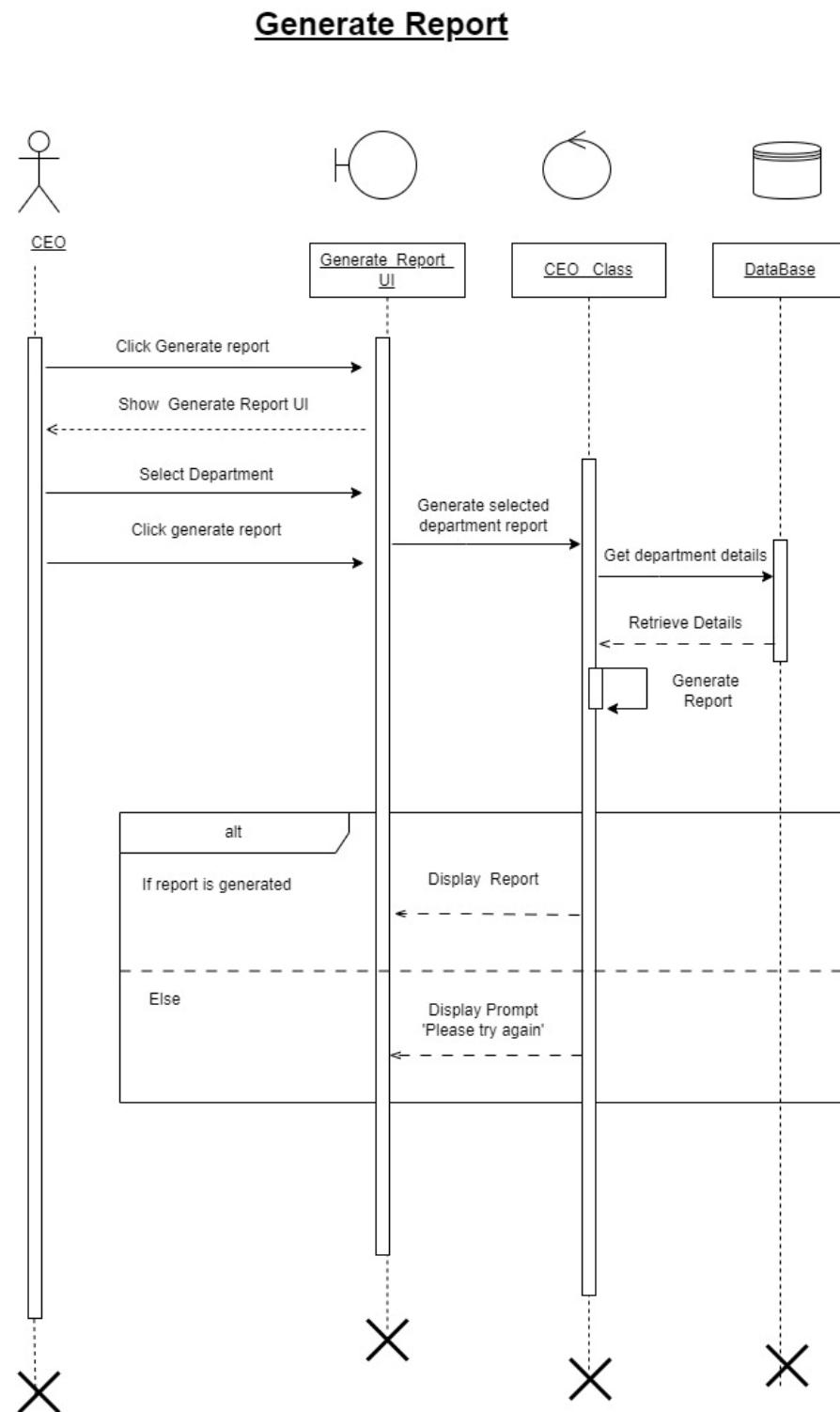


## 2. Review Supplier Registration

### Review Supplier Registration

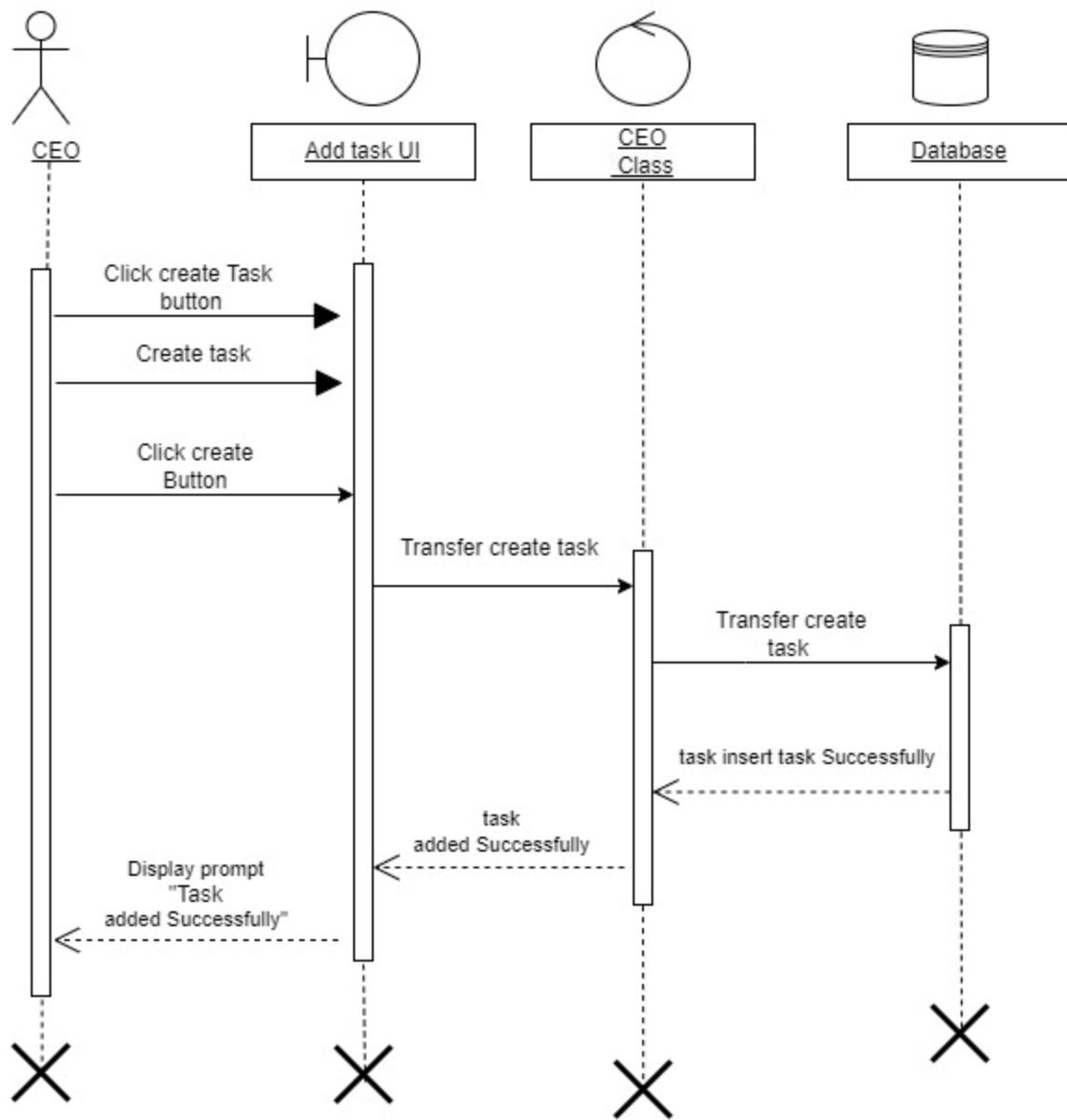


### 3. Generate Report



4. Create task.

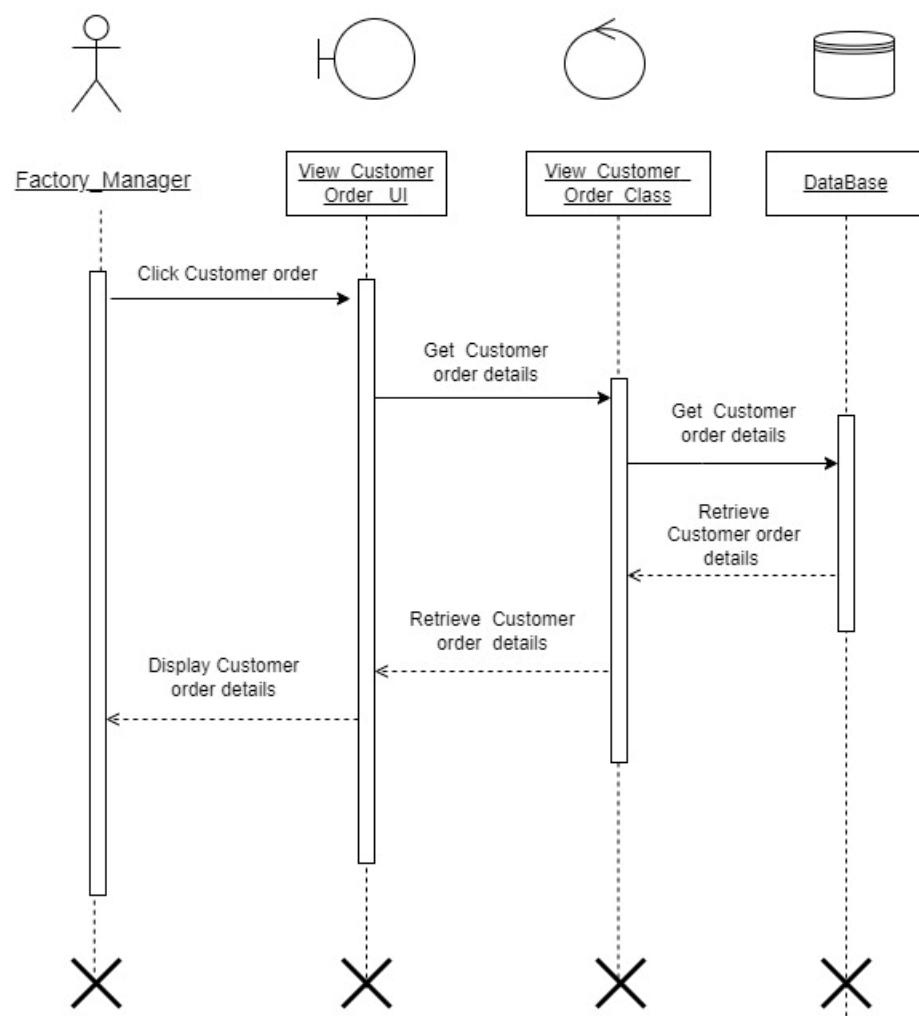
## CEO create task



## Factory Manager

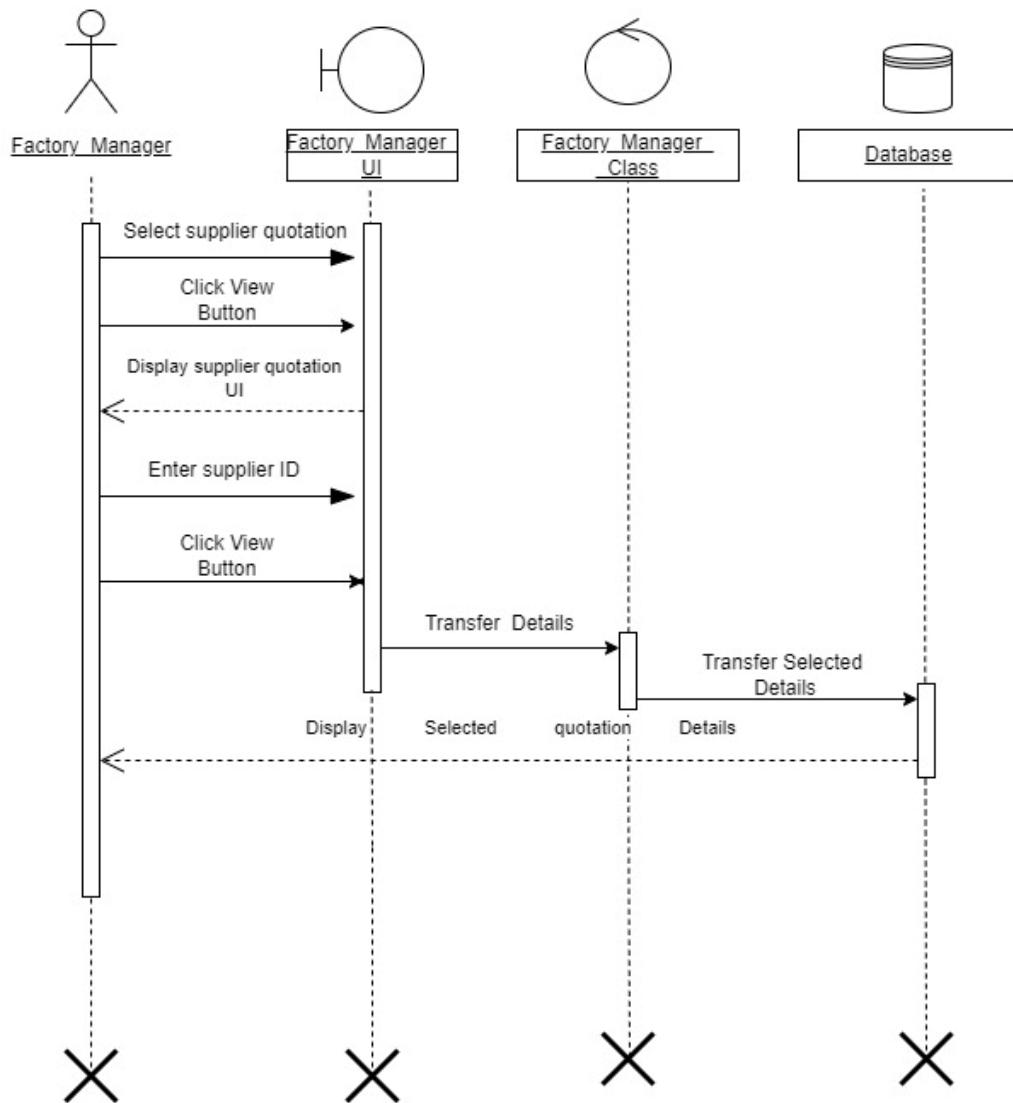
1. View customer orders

# View Customer Order Details



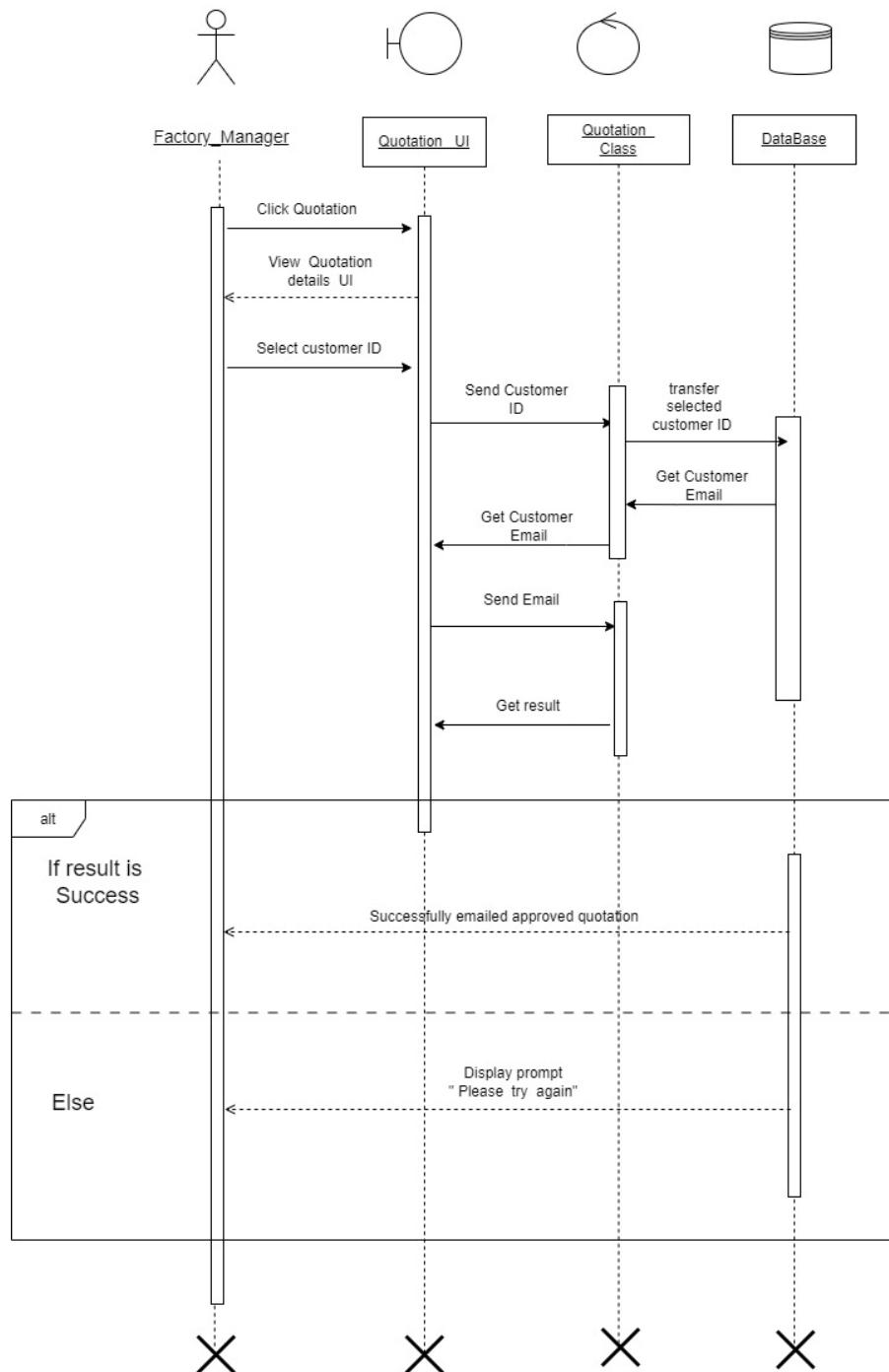
2. Review supplier quotation.

## Review supplier quotation



3. Send approved quotation.

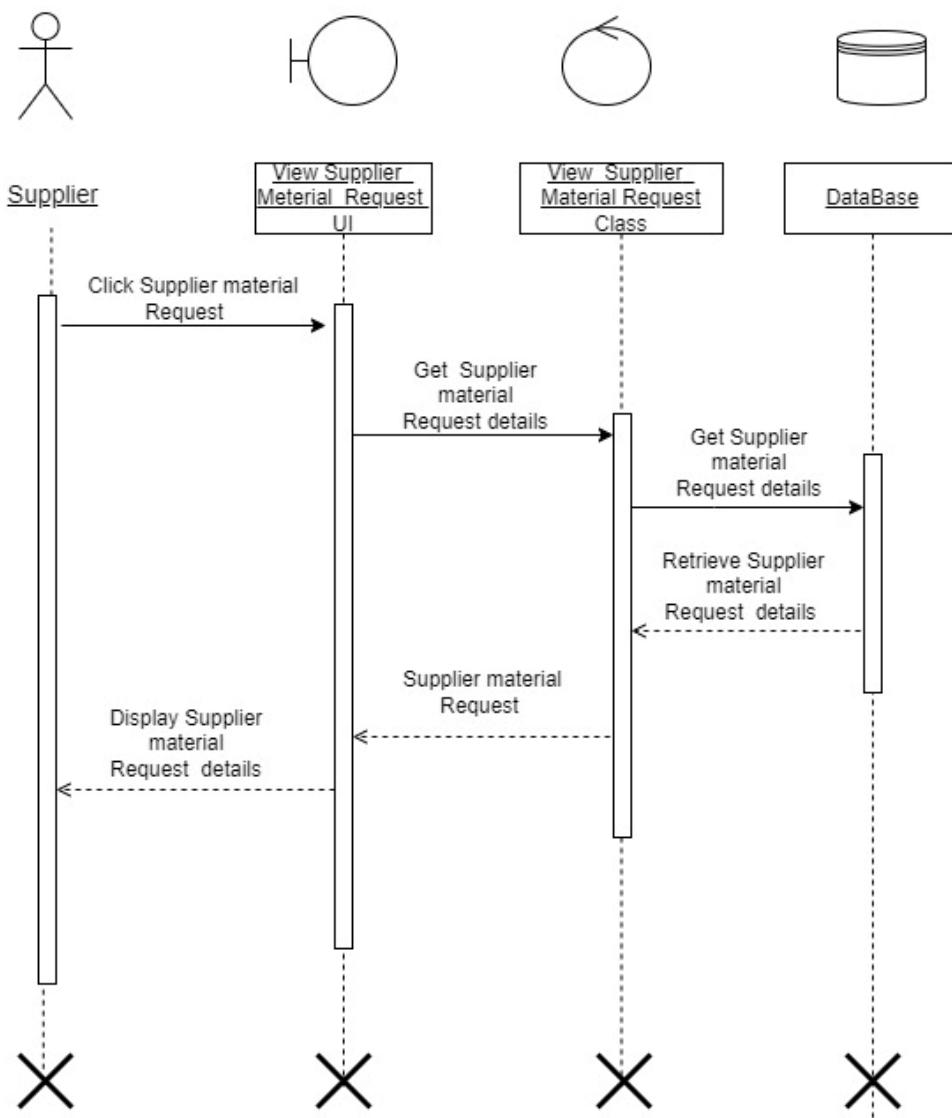
## Send approved quotation



## Supplier

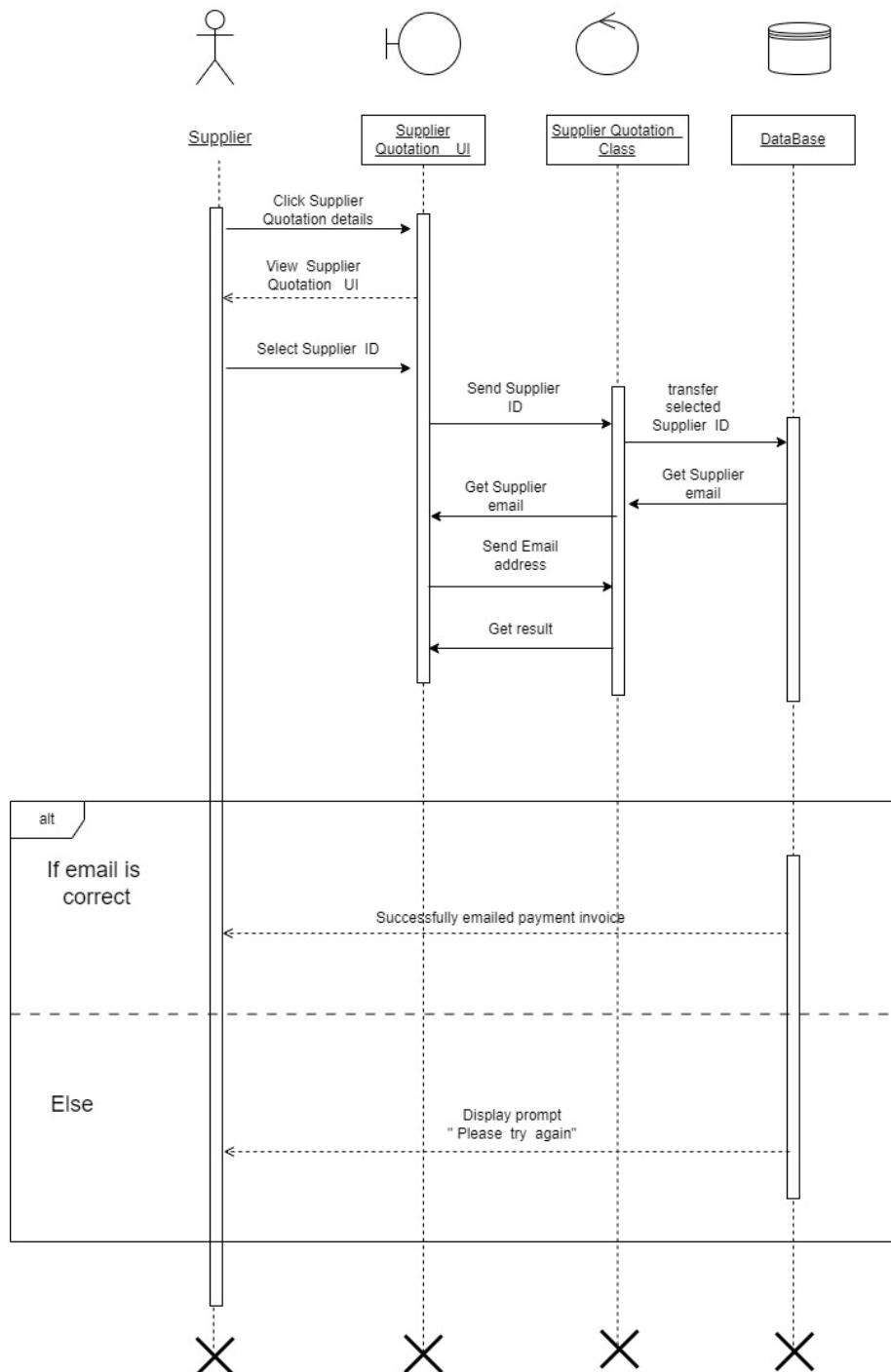
1. View material request report

# View material Request



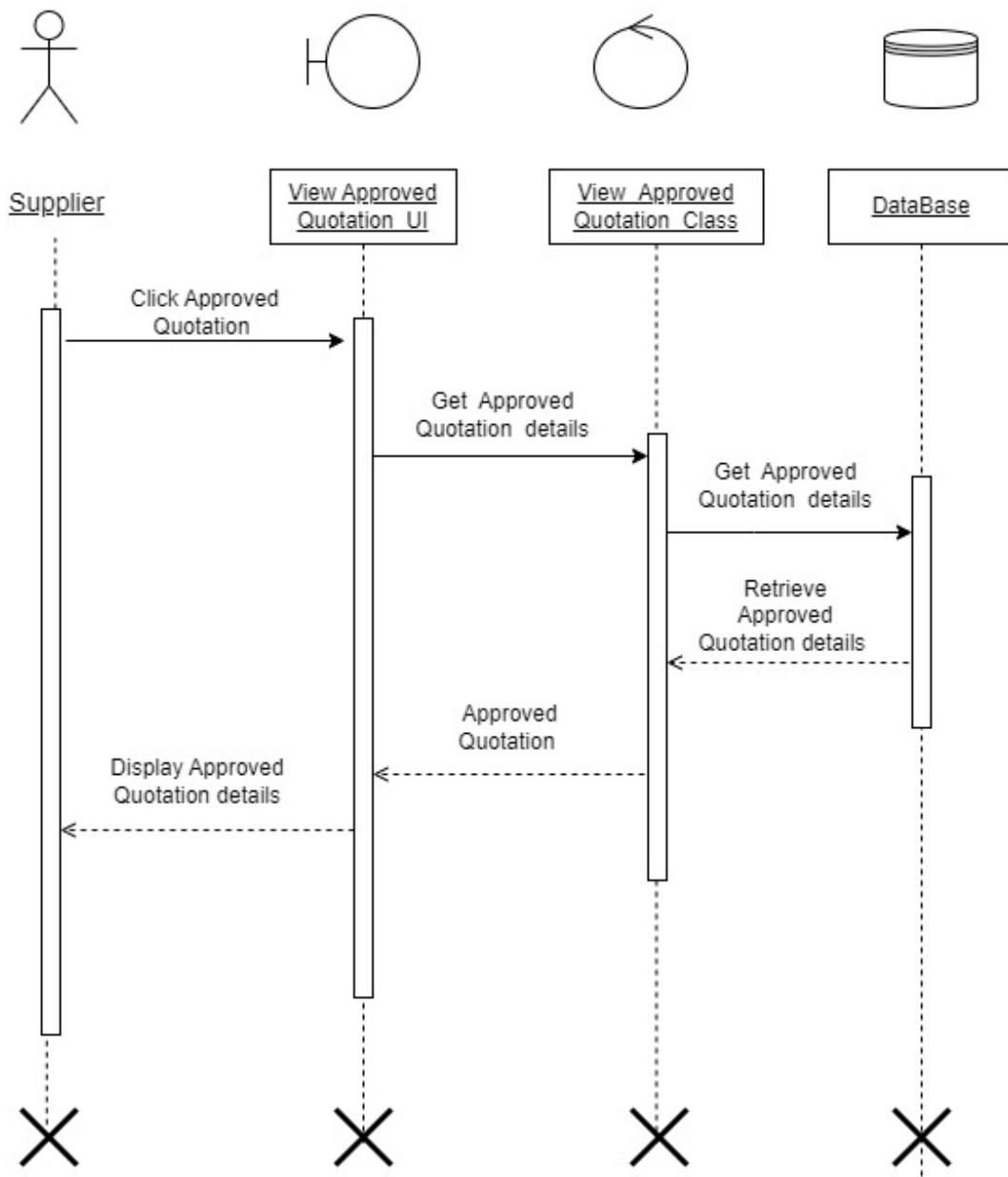
2. Send supplier quotation.

## Send Supplier Quotation

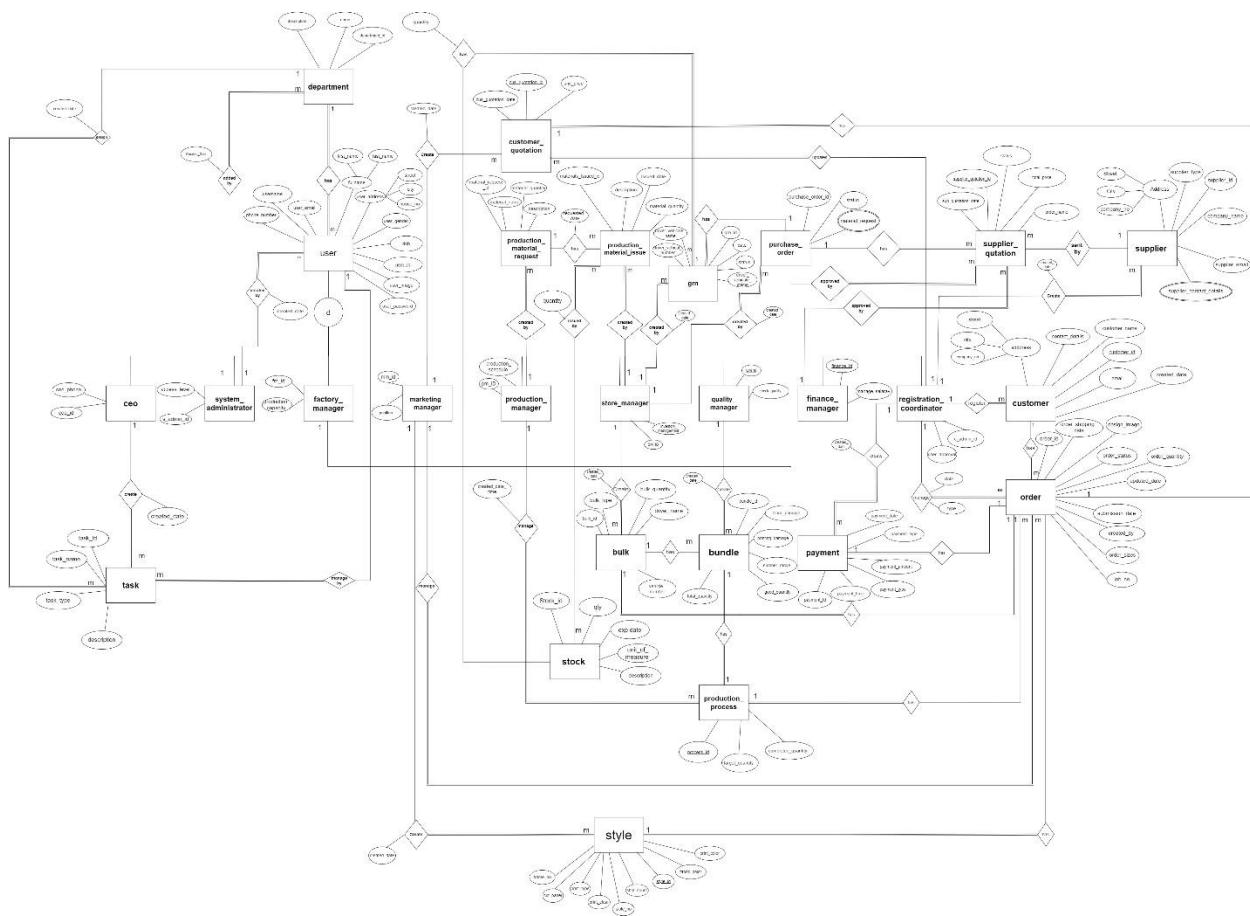


3. View approved quotation.

## View Approved Quotation



## ER Diagram for the proposed system.



## Assumptions

- One Department can be assigned to many tasks.
  - One task cannot be assigned to many departments.
  - All the department doesn't have task and all the tasks must be assigned to a department.
- 
- One system administrator can add many departments.
  - One department was added by one system administrator.
  - All departments are added by one system administrator and many system administrators can't add one department.
- 
- 
- One department has many users.
  - One user cannot have many departments.
  - All departments must have users and All users must have department.
- 
- 
- One system administrator created by many users.
  - One user cannot be created by many system administrators.
  - All users must be created by a system administrator, but All system administrators can't create users.
- 
- 
- One user can manage many tasks.
  - One task cannot have many users.
  - All users cannot manage task, but all tasks must be managed by a user.
- 
- 
- One CEO creates many tasks.
  - One task cannot create many CEO.
  - All tasks must create by a CEO, but all CEO cannot create task.

- One factory manager approves many supplier quotations.
  - One supplier quotation cannot approve by many factory managers.
  - All supplier quotations must approve by a factory manager and all factory manager doesn't need to approve supplier quotations.
- 
- One marketing manager creates many customer quotations.
  - One customer quotation cannot be created by many marketing managers,
  - All customer quotations must be created by a marketing manager and all marketing managers cannot create customer quotations.
  - One marketing manager creates many styles.
  - One style cannot be created by many marketing managers.
  - All styles should be created by marketing manager and All marketing managers doesn't create style.
  - One marketing manager manages many orders.
  - One order cannot be managed by many marketing managers.
  - All orders must manage by marketing manager, and All marketing manager cannot manage all orders.
- 
- One production manager creates many production material request.
  - One production material request cannot be created by many production manager.
  - All production material requests must be created by the production manager and all production manager doesn't create many production material requests.
  - One production manager manages many production process.
  - One production process manages by one production manager.
  - All production processes must manage by production manager and all production managers cannot manage production processes.
- 
- One store manager creates many production material issues.
  - One production material issue cannot be created by many store managers.
  - All production material issues must be created by the store manager and all store managers cannot create production material.
  - One store manager creates many GRN.
  - One GRN cannot be created by many store managers.
  - All GRN should be created by the store manager and all store managers cannot create GRN.
  - One store manager creates many bulks.

- One bulk cannot be created by many store managers.
- All bulk was created by store manager and All store manager cannot create bulk.
- One store manager creates many purchases order.
- One purchase order cannot be created by many store managers.
- All purchase orders must be created by the store manager and all store managers cannot create purchases order.
  
- One quality manager creates many bundles.
- One bundle cannot be created by many quality managers.
- All bundles must create by quality manager and All quality manager cannot create bundle.
  
- Many stocks are issued by many productions material issue.
- All the production material issues are not issuing stocks and all the stocks are not issued by production material issue.
- One GRN has many stocks.
- One stock cannot have many GRN.
- All the GRN has many stocks, and All stocks cannot have many GRN.
  
- One order has many bulks.
- All orders have many bulks, and all bulks have orders.
- One bulk has many bundles.
- One bundle cannot have many bulks.
- All bulk must have many bundles and all bundles cannot have many bulks.
  
- One production process has many bundles.
- One bundle cannot have many productions process.
- All production processes must have one bundle and all bundles cannot have many productions process.
  
- One registration coordinator creates many payments.
- One payment cannot be created by many registration coordinators.
- All payments are created by one registration coordinator and many registration coordinators cannot create payment.
- One payment has one order.
- One order cannot have many payments.

- One order has one production process.
- One production process doesn't have many orders.
- All orders have one production process, and All production process doesn't have many orders.
  
- One registration coordinator manages many orders.
- One order cannot be managed by many registration coordinators.
- All orders must be managed by a registration coordinator, and all registration coordinators cannot manage orders.
- One customer has many orders.
- One order cannot have many customers.
- All orders have one customer, and all customers cannot have one order.
- One marketing manager manages many orders.
- One order cannot be managed by many marketing managers.
- All orders must be managed by one marketing manager and all marketing managers cannot manage order.
- One style has many orders.
- One order cannot have many styles.
- All orders should have one style and all styles cannot have one order.
- One order has one customer quotation.
- One customer quotation cannot have many orders.
- All orders must have one customer quotation and all customer quotation cannot have one order.
  
- One registration coordinator registers many customers.
- One customer cannot be registered by many registration coordinators.
- All the customers must be registered by the registration coordinator and all registration coordinators cannot be registered customer.
- One registration coordinator updates many customer quotations.
- One customer quotation cannot be updated by many registration coordinators.
- All customer quotations should be updated by the registration coordinator and all registration coordinators cannot update customer quotation.
- One registration coordinator creates many suppliers.
- One supplier cannot be created by many registration coordinators.
- All suppliers must be created by a registration coordinator and all registration coordinators cannot create supplier.

- One finance manager approves many supplier quotations.
  - Many supplier quotations cannot be approved by many finance managers.
  - All supplier quotations must be approved by the finance manager, and all finance managers cannot approve supplier quotations.
- 
- One production material request has many production material issue.
  - Many production material issues cannot have many production material request.
- 
- One purchase order has many supplier quotations.
  - One supplier quotation cannot have many purchases order.
  - One purchase order has one GRN.
  - One GRN cannot have many purchase orders.
  - All GRN must have one purchase order and all purchase order cannot have many GRNs.
- 
- One supplier sends many supplier quotations.
  - One supplier quotation cannot have many suppliers.
  - All supplier quotations must have one supplier and all supplier quotations must have a supplier.

### 3.5 Chapter summary

This chapter focuses on the analysis design of the proposed solution. This chapter includes the nature of the software that should need to be developed. Not only that this chapter depicts the advantages of the solution and provides designed diagrams of how these advantages are planned to be work. By evaluating these diagrams, we were able to achieve greater understanding of the scenarios and confirm the process as per our clients' earliest requirements.

## **Chapter 4: Solution Designs**

### **4.1 Introduction**

This chapter explains every single user interface that the users could have, which is user friendly, easy to use and the eye-catching UI. The important of this we have designed these UI clearly visibly the unnecessary information and unwanted irritable features.

## 4.2 Interface Design

Interface number: 1

Interface name: Login

Description: Login page for all the users of the company.



Carlos 

Welcome Back

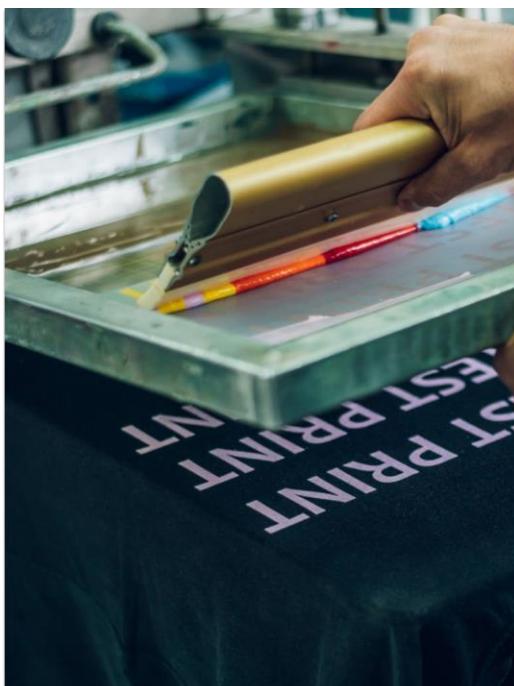
[Login here](#)

Username

Password

[LOGIN](#)

Forgot password? [Click Here](#)



Carlos 

Welcome Back

[Login here](#)

Username

  
\*Required

Password

  
\*Required

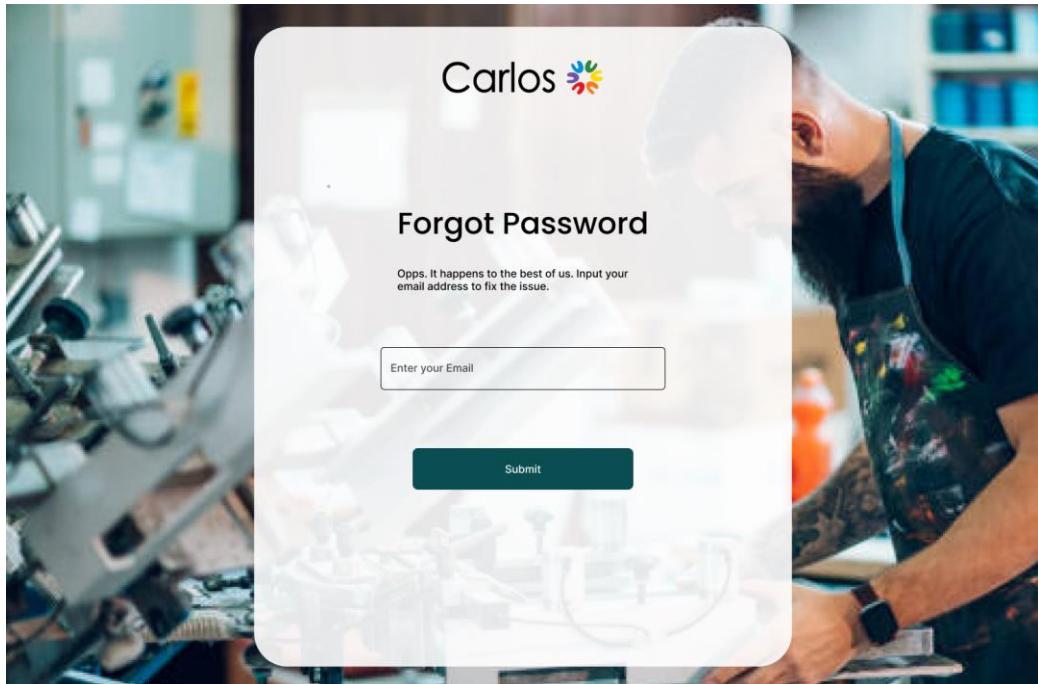
[LOGIN](#)

Forgot password? [Click Here](#)

Interface number: 2

Interface name: Forget Password

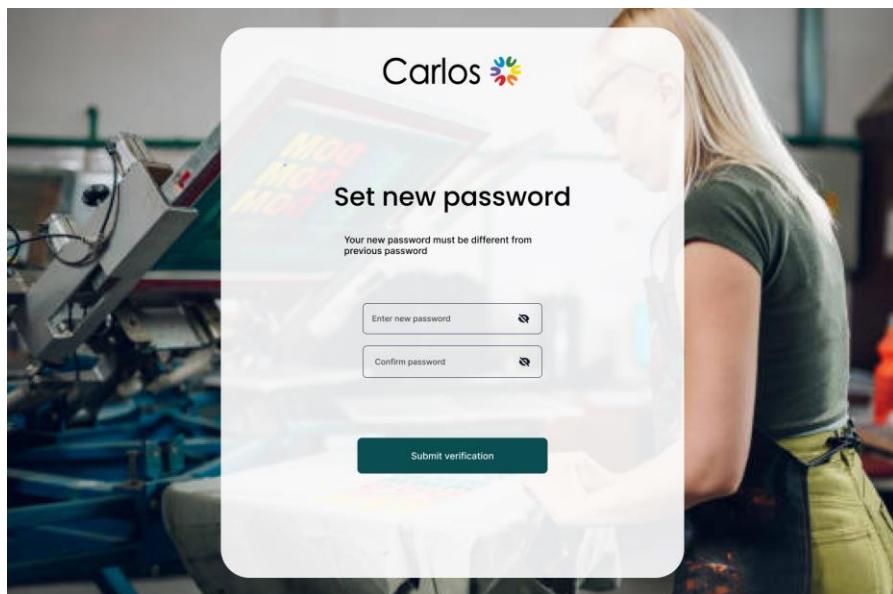
Description: If a user forgot their password they can request to change their password.



Interface number: 3

Interface name: Set new password.

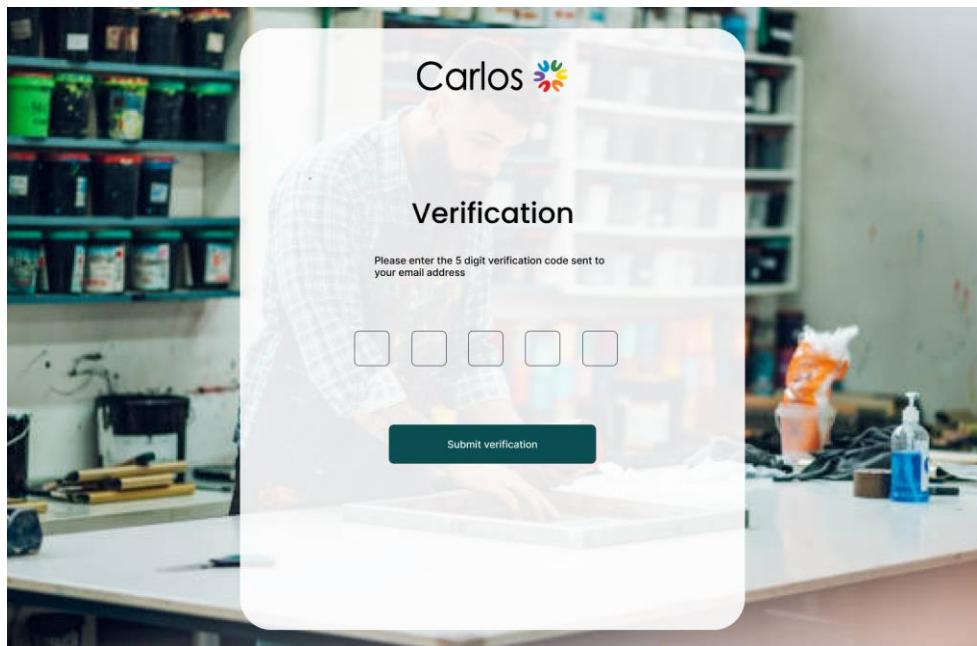
Description: Users can set new password.



Interface number: 4

Interface name: Verification

Description: When users are going to set a new password, they have to verify that its them.



Interface number: 5

Interface name: System Administrator dashboard.

Description: System Administrator dashboard details.

The screenshot shows the System Administrator dashboard. At the top left is the logo 'Carlos' with a colorful gear icon. On the right, it says 'Hello, Kasun' with a profile picture. A vertical sidebar on the left has buttons for 'Dashboard' (selected), 'Users', 'Departments', and 'Payment Methods'. At the bottom of the sidebar is a 'Log Out' button. The main area has three summary cards: 'Total Users' (55), 'Total Departments' (05), and 'Active Users' (40). Below these is a section titled 'Active Users' listing six employees: Nishadi Gamage (Marketing Department), Gayan Silva (Production Department), Dunindu Perera (Stores Department), Nadun Andrew (Finishing Department), Senori Fernando (Finishing Department), and Danuka Jayakodi (Marketing Department). At the bottom are two buttons: 'Add User' and 'Add Department', each with a plus sign icon.

Interface number: 6

Interface name: System Administrator profile.

Description: System Administrator profile details.

The screenshot shows a user interface for managing a system administrator profile. At the top left is the brand logo 'Carlos' with a colorful leaf icon. On the right, there's a greeting 'Hello, Kasun' next to a small circular profile picture of a man. A vertical sidebar on the left contains four buttons: 'Dashboard' (selected), 'Users', 'Departments', and 'Payment Methods'. The main content area displays a circular profile picture of 'Kasun Wijerathna'. Below it, the user's details are listed in two columns:

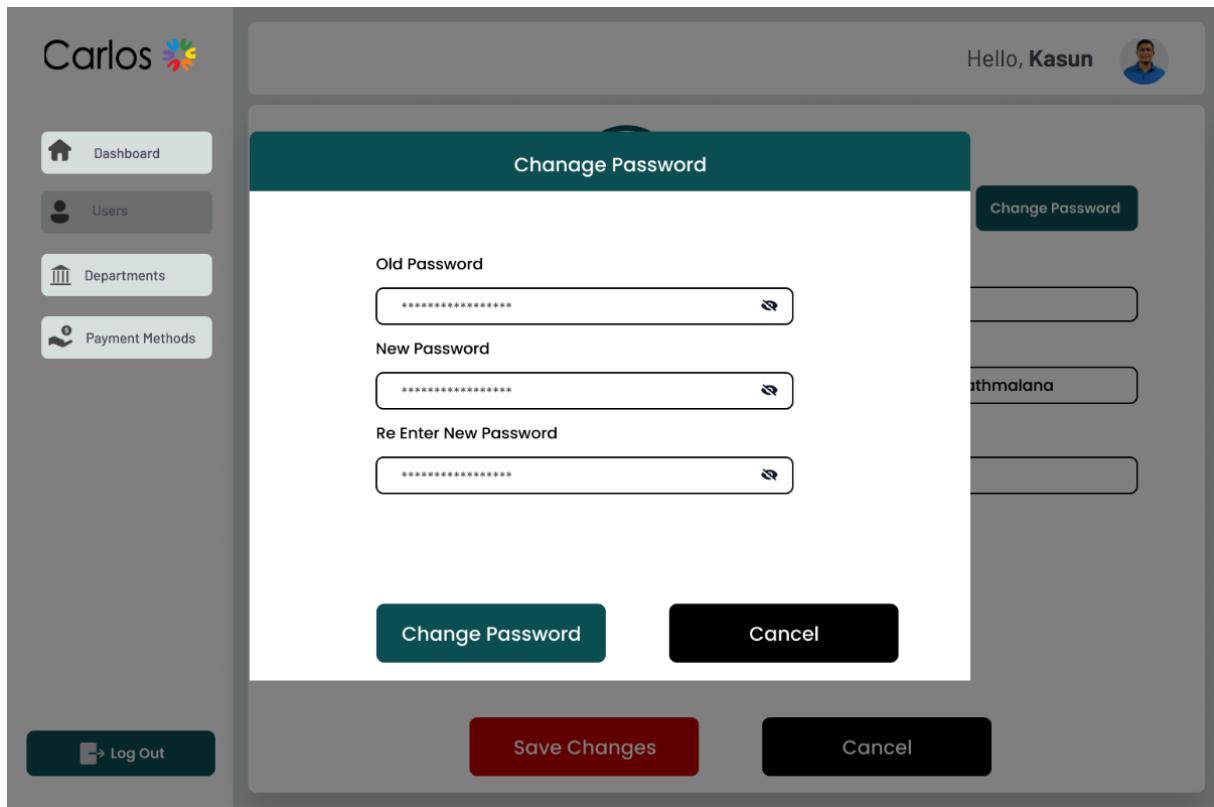
First Name	Last Name
Kasun	Wijerathna
User Name	Address
Kasun1982	3rd Lane, Borupana Rd, Rathmalana
Email Address	Date Of Birth
kasun@gmail.com	20/09/1972

At the bottom of the page are two buttons: 'Save Changes' (red) and 'Cancel' (black).

Interface number: 7

Interface name: System Administrator profile

Description: System Administrator can change password.



Interface number: 8

Interface name: System Administrator add department.

Description: System Administrator can add departments.

The screenshot shows a user interface for managing departments. On the left, there is a vertical sidebar with the brand name "Carlos" at the top, followed by four menu items: "Dashboard", "Users", "Departments" (which is highlighted with a blue vertical bar), and "Payment Methods". At the bottom of the sidebar is a "Log Out" button. The main content area has a header "Hello, Kasun" with a profile picture. Below the header is a dark teal bar with the title "Add Department". The form itself contains two input fields: "Department Name" and "Department Description", each with a text input box. At the bottom right of the form are two buttons: a red "Add" button and a black "Cancel" button.

Interface number: 9

Interface name: View Department

Description: System Administrator can view all the departments which are in the system

The screenshot shows a user interface for viewing departments. At the top left is a logo for 'Carlos' with a colorful flower icon. On the right, there is a greeting 'Hello, Kasun' next to a small profile picture. A navigation bar on the left includes links for 'Dashboard', 'Users', 'Department' (which is highlighted with a blue underline), and 'Payment Methods'. The main content area has two large cards: one on the left showing a building icon and the number '05 Total Departments', and one on the right with a plus sign icon labeled 'Add Department'. Below these is a table titled 'Department' with columns for Department ID, S\_Admin ID, Department Name, Created Date, and Description. The table contains five rows of data. At the bottom left is a 'Log Out' button.

Department ID	S_Admin ID	Department Name	Created Date	Description
D001	SA001	Marketing	01/01/2018	
D002	SA001	Finance	01/01/2018	
D003	SA001	Finishing	01/01/2018	
D004	SA001	Production	01/01/2018	
D005	SA001	Stores	01/01/2018	

Interface number: 10

Interface name: Create user.

Description: System Administrator creating user accounts.

The screenshot shows the Carlos application interface. On the left, there is a vertical sidebar with the following menu items:

- Dashboard (selected)
- Users
- Departments
- Payment Methods

On the right, the main content area has a header "Hello, Kasun" with a profile picture. Below the header is a dark green bar with the title "Create User Accounts". The form fields are arranged in two columns:

First Name	Last Name
Enter user first name	Enter user last name

Address
House No

Street	City

Date Of Birth
Enter user date of birth

Gender
<input type="radio"/> Female <input type="radio"/> Male

Below the address fields is a section for "Upload User Image" with a dashed box for dragging and dropping images or a "Select file" button.

At the bottom of the form are two buttons: "Next" (red) and "Cancel" (black).

On the far left, below the sidebar, is a "Log Out" button.

Interface number: 11

Interface name: Create user.

Description: When creating user accounts should needs to choose the job role of the user.

The screenshot shows a user interface titled "Create User Accounts". On the left, there is a sidebar with icons for Dashboard, Users (selected), Departments, and Payment Methods. The main area has a title "Create User Accounts" and a "Job Role" section containing a dropdown menu with the following options: CEO, Customer Administrator, Factory Manager, Production Manager, Marketing Manager, Quality Manager, and Store Manager. Below the dropdown are sections for "Skills" (with placeholder "Enter user Skills") and "Experience" (with placeholder "Enter user Experience"). At the bottom are "Save" and "Cancel" buttons, and a "Log Out" button on the far left.

Dashboard

Hello, Kasun

Carlos

Users

Departments

Payment Methods

Job Role

Role

- CEO
- Customer Administrator
- Factory Manager
- Production Manager
- Marketing Manager
- Quality Manager
- Store Manager

Skills

Enter user Skills

Experience

Enter user Experience

Save

Cancel

Log Out

Interface number: 12

Interface name: Update User Account

Description: System administrator updating user accounts.

The screenshot shows the 'Update User Accounts' form. The left sidebar has 'Users' selected. The main form contains the following fields:

- First Name: Dunidu
- Last Name: Perera
- Address: 4th Lane , Sithavaka,Jafna
- User Name: DuniduPere
- Date Of Birth: 20/12/1992
- Join Date: 20/08/2023
- Email Address: Dunidu@gmail.com
- Gender: Male (radio button selected)
- Upload design Image: A dashed box with 'Drag and Drop Design here or Select file' text.

At the bottom are 'Update' and 'Cancel' buttons.

The screenshot shows the 'Update User Accounts' form with a success message overlay: 'User details have been updated successfully'. The message has an 'OK' button. The rest of the form and sidebar are identical to the first screenshot.

Interface number: 13

Interface name: View user details

Description: System administrator can view all the users.

The screenshot shows a user interface titled "User Details". On the left, there is a vertical sidebar with icons for Dashboard, Users (selected), Departments, and Payment Methods. At the bottom of the sidebar is a "Log Out" button. The main area has a header with "Hello, Kasun" and a profile picture. Below the header are two buttons: "Total Users" (55) and "Add User". The main content is a table titled "User Details" with columns: User ID, Dep ID, FName, LName, Password, Gender, Join Date, UName, Email, User Img, Address, and DOB. The table contains six rows of user data:

User ID	Dep ID	FName	LName	Password	Gender	Join Date	UName	Email	User Img	Address	DOB
U120	D001	Nishadi	Gamage	123456	Female	05/02/2023	nisuGamage	nishandi@gmail.com		9/18,seetha Rd,Matara.	01/12/99
U119	D002	Seetha	Silva	147258	Female	20/03/2023	seethaSilva	seetha@gmail.com		20 <sup>th</sup> lane, Gampaha.	08/01/97
U118	D003	Sithumini	Silva	123789	Female	15/02/2023	sithuSilva	sithu@gmail.com		20/2 Samagi Rd, Moratuwa	06/05/95
U117	D003	Senori	Fernando	456789	Female	09/04/2023	SenoriFer	senori@gmail.com		3 <sup>rd</sup> lane, Anuradhapura	15/06/98
U116	D004	Dunindu	Perera	963852	Male	20/08/2023	duninduPer e	duninduPer e@gmail.com		4 <sup>th</sup> lane, Seethawaka Rd, Jaffna.	20/12/92
U115	D006	Danuka	Jayakody	258963	Male	12/08/2023	danukajaye	danuka@gmail.com		6/B1, Gamage Rd, Kotte, 100/1,	17/05/93

Search Account:  Sort by Name:

Interface number: 14

Interface name: Registration Coordinator Profile

Description: Registration Coordinator Profile details.

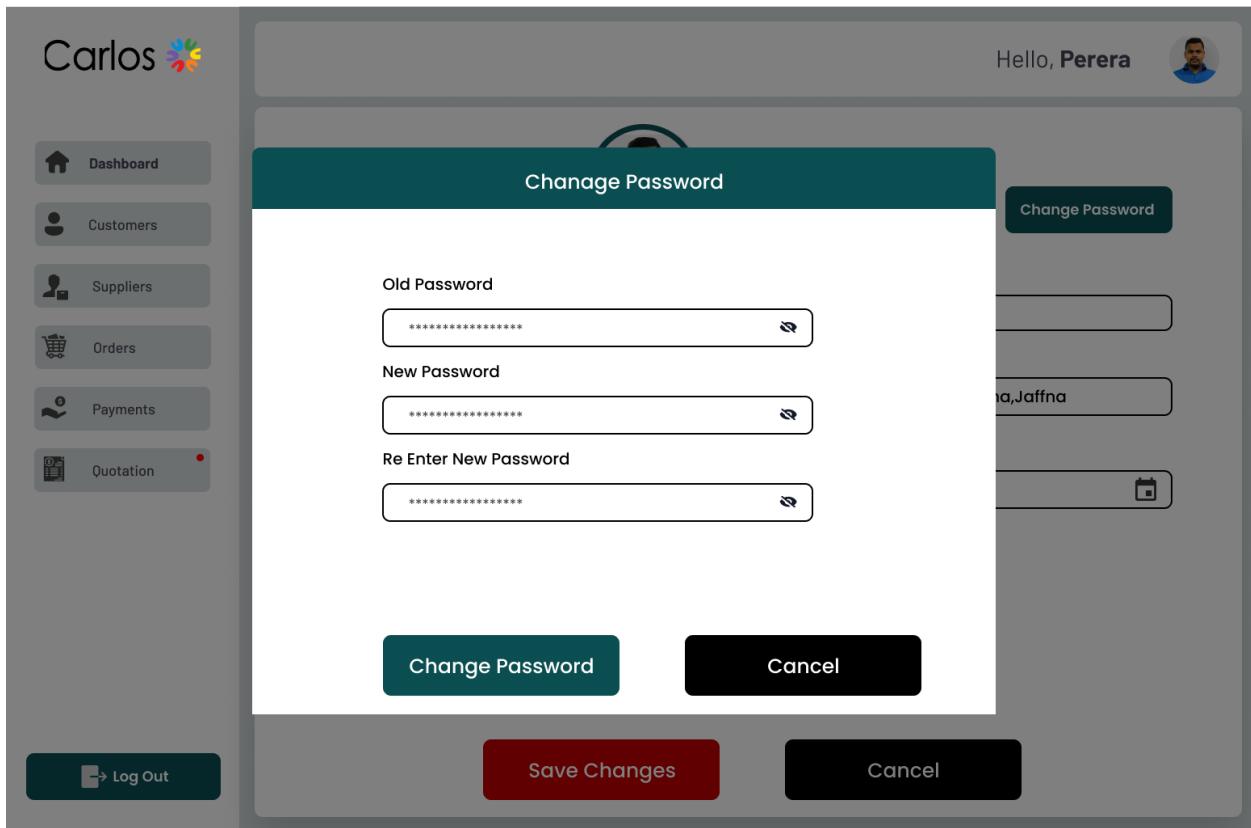
The screenshot shows the 'Registration Coordinator Profile' page. At the top right, it says 'Hello, Perera' with a profile picture. On the left is a sidebar with icons for Dashboard, Customers, Suppliers, Orders, Payments, and Quotation. The main area displays a circular profile picture of a man, Perera Jayakody. Below the picture, the name 'Perera Jayakody' is shown. To the right of the name is a 'Change Password' button. The form contains fields for First Name ('Perera'), Last Name ('Jayakody'), User Name ('Perera1987'), Address ('4th Lane, Jayamal Uyana, Jaffna'), Email Address ('Perera@gmail.com'), and Date Of Birth ('20/12/1987'). At the bottom are 'Save Changes' and 'Cancel' buttons.

This screenshot shows the same profile page after changes have been saved. A modal dialog box is centered on the screen with the message 'Your changes have been saved successfully'. There is an 'OK' button at the bottom of the dialog. The rest of the interface is identical to the first screenshot, including the sidebar and the main profile area.

Interface number: 15

Interface name: Registration Coordinator change password.

Description: Registration Coordinator can change their password.



Interface number: 16

Interface name: Registration Coordinator dashboard

Description: Registration Coordinator can see the precise details of the customers and orders.

The screenshot displays the Registration Coordinator dashboard. At the top left is the user's name, Carlos, accompanied by a colorful flower icon. On the top right, it says "Hello, Perera" next to a profile picture of a man. A vertical sidebar on the left contains navigation links: Dashboard (selected), Customers, Suppliers, Orders, Payments, and Quotation (with a red notification dot). At the bottom left is a "Log Out" button. The main content area features three summary cards: "Total Orders" (75, 4% (30 days)), "Total Delivered" (357, 4% (30 days)), and "Total Pending" (65, 4% (30 days)). Below these is a chart titled "Orders Overview" showing monthly order volume from January to July. At the bottom are two large buttons with plus signs: "Register a New Customer" and "Register a New Supplier".

Interface number: 17

Interface name: Add Customer

Description: Registration Coordinator registering the customers.

The screenshot shows the Carlos application interface. On the left, there is a vertical sidebar with the Carlos logo at the top. Below the logo are six menu items: Dashboard, Customers (which is currently selected), Suppliers, Orders, Payments, and Quotation. At the bottom of the sidebar is a Log Out button. The main content area has a header bar with "Hello, Perera" and a user profile icon. Below the header is a dark teal header bar with the text "Add a New Customer". The main form area contains several input fields and labels. The "Customer Name" section has a label and an input field with placeholder text "Enter Customer Name". The "Address" section has a label and two input fields: "Customer No" and "Street/City" (combined into one field). The "Contact Details" section has a label and an input field with placeholder text "Enter Customer Contact Details". The "Email Address" section has a label and an input field with placeholder text "Enter Customer Email Address". At the bottom of the form are two buttons: a red "Register" button and a black "Cancel" button.

Interface number: 18

Interface name: View Customer Details

Description: Registration Coordinator can view customer details.

The screenshot shows the Carlos application interface. On the left is a vertical navigation bar with icons for Dashboard, Customers, Suppliers, Orders, Payments, and Quotation. The 'Quotation' icon has a red dot. At the bottom of the bar is a 'Log Out' button. The main area has a header with the Carlos logo and a user profile for 'Hello, Perera'. Below the header are two cards: one showing a person icon and '126 Total Customer', and another with a plus sign and 'Register a New Customer'. The central part of the screen displays a table titled 'Customer Details' with columns for Customer ID, Customer Name, Customer Registered Date, Contact, Company NO, Street, City, Email, and Actions. The table contains five rows of customer data, each with a set of edit and delete icons in the Actions column. The data in the table is as follows:

Customer ID	Customer Name	Customer Registered Date	Contact	Company NO	Street	City	Email	Actions
C105	Jay Jay Mills	25/04/2024	+9411 2222001	JayJayMills, Katunayake 032	6th Lane	Katunayake	hr.cme@jayjaymills.com	
C104	Hela Naula	18/04/2024	+9411 2222001	Hela Naula Colombo 032	8th Lane	Colombo	hr.cme@HelaNaula.com	
C103	Mas Active	04/04/2024	+9411 2222001	Mas active, Katunayake 032	7th Lane	Katunayake	hr.cme@Masactive.com	
C102	Emjay Penguin	27/03/2024	+9411 2222001	Emjay penguin, Nittambuwa 032	8th Lane	Nittambuwa	hr.cme@Emjaypenguin.com	
C101	Calvin Klein	18/03/2024	+9411 2222001	Calvin Klein, Gampaha 032	20th Lane	Gampaha	hr.cme@CalvinKlein.com	

The screenshot shows the Carlos application interface, similar to the previous one but with a different focus. The left navigation bar is identical. The main area has a header with the Carlos logo and a user profile for 'Hello, Perera'. Below the header is a card showing a person icon and '126'. A large modal window is open in the center, titled 'Order Details'. Inside the modal, it shows 'Customer Name : Calvin Klein' and 'Customer ID : C101'. At the top right of the modal is a 'Cancel' button. Below this, there is a table with columns for Order ID, Print Colour, Fabric Colour, Design Image, QTY, and Created Date. The table contains three rows of order data, each with a set of edit and delete icons in the Actions column. The data in the table is as follows:

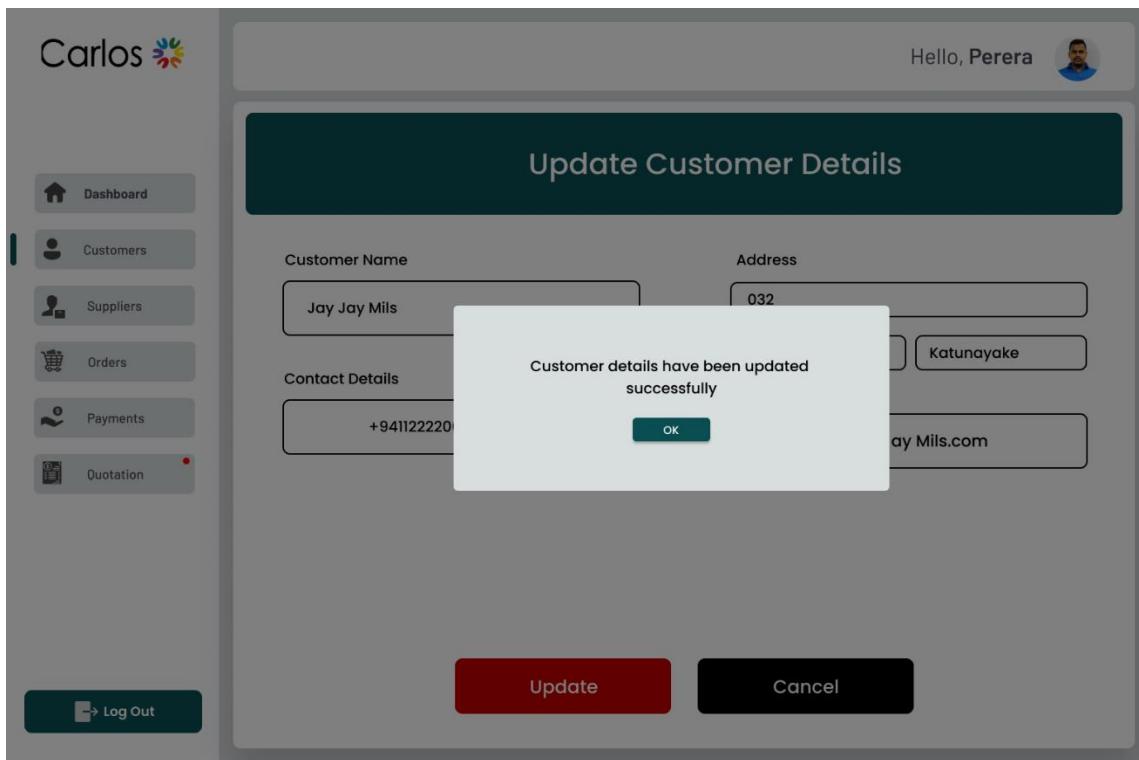
Order ID	Print Colour	Fabric Colour	Design Image	QTY	Created Date
O085	White	Black		2000	30/02/2024
O100	Black	White		1500	15/03/2024
O106	Black	White		3000	20/03/2024

Interface number: 19

Interface name: Update Customer Details

Description: Registration Coordinator updating the customer details.

The screenshot shows the 'Update Customer Details' form. On the left is a sidebar with navigation links: Dashboard, Customers (selected), Suppliers, Orders, Payments, and Quotation. The main area has a title 'Update Customer Details'. It contains four input fields: 'Customer Name' (Jay Jay Mils), 'Address' (032), 'Contact Details' (+94112222001), and 'Email Address' (hr.cme@sl.Jay Jay Mils.com). At the bottom are 'Update' and 'Cancel' buttons.



Interface number: 20

Interface name: Add new supplier.

Description: Registration Coordinator registering suppliers.

The screenshot shows the Carlos application interface. On the left is a vertical sidebar with navigation options: Dashboard, Customers, Suppliers (selected), Orders, Payments, Quotation (with a red dot), and Log Out. The main area has a header with 'Hello, Perera' and a user profile picture. A dark teal banner at the top says 'Add a New Supplier'. Below it are several input fields: 'Company Name' (placeholder 'Enter Supplier Company Name'), 'Address' (Customer No, Street, City), 'Supplier Type' (placeholder 'Enter Supplier Type'), 'Contact Details' (placeholder 'Enter Supplier Contact Details'), 'Email Address' (placeholder 'Enter Supplier Email Address'). At the bottom are 'Register' and 'Cancel' buttons. A green plus sign icon is located between the Contact Details and Email Address fields.

Interface number: 21

Interface name: View Supplier Details

Description: Registration Coordinator can view all the supplier details.

Carlos 

Hello, Perera 

 Dashboard

 Customers

 Suppliers

 Orders

 Payments

 Quotation •

 Log Out

 15 Total Suppliers

 Register a New Supplier

### Supplier Details

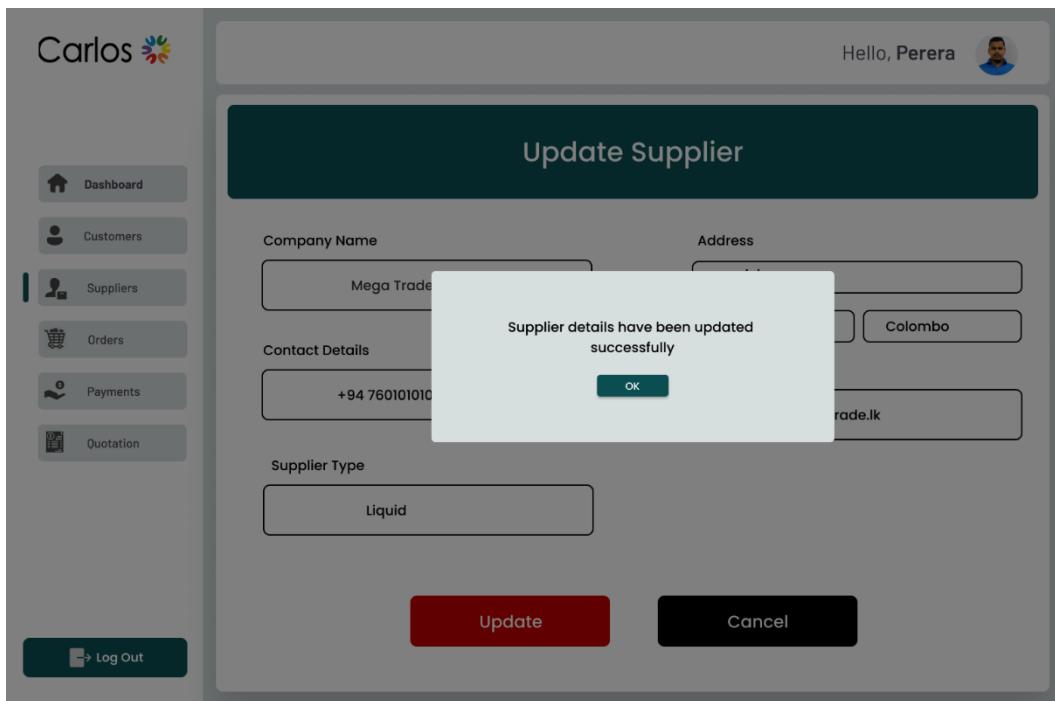
Supplier ID	Supplier Name	Registered Date	Contact	Company NO	Street	City	Email	Supplier Type	Actions
S015	Mega Traders	10/05/2024	+94112222100	No.225/1/1	Castle Street	Colombo	info@megatra.de.lk	Liquid	 
S014	Elite Distributors	05/04/2024	+94112324500	No.71	Messenger St	Colombo	info@Elite.Distributors.lk	Maintenance	 
S013	Global ink	11/03/2024	+94112333101	No.104/11	Grand pass	Colombo	info@Global.ink.lk	Ink	 
S012	Global ink	10/03/2024	+94114567100	No.201/20	Temple Road	Gampaha	info@Global.ink.lk	Liquid	 
S011	Global ink	02/02/2024	+94112267543	No.232/14	kiridi Road	Matara	info@Global.ink.lk	Ink	 

Interface number: 22

Interface name: Update supplier details

Description: Updating the supplier details.

The screenshot shows a mobile application interface for updating supplier details. At the top right is a user profile with the name "Hello, Perera". On the left is a vertical navigation bar with icons for Dashboard, Customers, Suppliers (selected), Orders, Payments, and Quotation. The main content area has a dark header bar with the title "Update Supplier". Below it are several input fields: "Company Name" (Mega Trade), "Address" (225/1/1, Castle street, Colombo), "Contact Details" (+94 760101010), "Email Address" (info@Megatrade.lk), and "Supplier Type" (Liquid). At the bottom are two buttons: a red "Update" button and a black "Cancel" button.



Interface number: 23

Interface name: Place order

Description: Registration Coordinator places customer's order.

The screenshot shows a user interface for placing an order. At the top left is the brand logo 'Carlos'. On the right is a greeting 'Hello, Perera' next to a circular profile picture of a man. A vertical sidebar on the left contains navigation links: Dashboard, Customers, Suppliers, Orders (which is highlighted with a blue vertical bar), Payments, and Quotation. At the bottom left of the sidebar is a 'Log Out' button. The main content area has a dark teal header bar with the text 'Place An Order Details'. Below this are four input fields arranged in a 2x2 grid: 'Fabric Colour' (placeholder 'Enter Fabric Colour'), 'Order Shipping Date' (placeholder 'Enter Order shipping Date'), 'Order Quantity' (placeholder 'Enter Order Quantity'), and 'Order Size' (placeholder 'Enter Order Size'). Below these is a 'Job No' field with placeholder 'Enter Job Number'. At the bottom is a dashed rectangular area for uploading files, containing the text 'Drag and Drop Design here Or Select file'. At the very bottom are two buttons: a red 'Place Order' button and a black 'Cancel' button.

Interface number: 24

Interface name: View order

Description: After placing the order registration coordinator can view that order.

The screenshot shows the Carlos application interface. At the top, there is a header with the logo 'Carlos' and a search bar labeled 'Search here'. On the right, it says 'Hello, Perera' with a profile picture. Below the header, there are two main buttons: 'Total Orders' (130) and 'Place Order'. On the left, a sidebar menu lists 'Dashboard', 'Customers', 'Suppliers', 'Orders' (selected), 'Payments', and 'Quotation'. At the bottom of the sidebar is a 'Log Out' button. The main content area is titled 'Order Details' and contains a table with the following data:

Order ID	Customer ID	Style ID	Order Shipping Date	Fabric Colour	Print Colour	Size	Job No	Order Quantity	Order Status	Design Image	Created Date	Action
O1104	C105	-	04/10/2024	Black	White	M	002	5000	Pending		25/04/2024	
O1103	C104	ST1103	04/08/2024	White	Black	L	003	9000	Approved		18/04/2024	
O1102	C103	ST1102	14/05/2024	Navy Blue	White	XL	004	4000	Approved		04/04/2024	
O1101	C102	-	12/04/2024	Bright White	Black	S	005	3000	Pending		27/03/2024	
O1100	C101	ST1100	15/03/2024	Cherry Red	White	XL	008	6000	Approved		18/03/2024	

Interface number: 25

Interface name: Purchase Order

Description: Registration Coordinator can view purchase order information in detail.

The screenshot shows the Carlos software interface. At the top left is the Carlos logo. At the top right is a greeting "Hello, Perera" next to a user profile icon. On the left is a vertical sidebar with navigation links: Dashboard, Customers, Suppliers, Orders, Payments, and Quotation (which is highlighted with a red dot). At the bottom of the sidebar is a "Log Out" button. The main content area has a dark teal header with the text "Purchase Order". Below the header is a table titled "Purchase Order Details". The table has columns for Purchase Order ID, Requested Materials, Purchase Order Status, Created Date, and Actions. There are five rows of data, each representing a purchase order from PO101 to PO105. The "Actions" column for each row contains two icons: a magnifying glass and a document. A search bar at the top of the table header says "Search Purchase Order Details" and a "Sort by Name" button is also present.

Purchase Order Details				
Purchase Order ID	Requested Materials	Purchase Order Status	Created Date	Actions
PO101	Solvent Ink, Water Base Ink , Packaging Materials	Active	16/04/2024	
PO102	Solvent Ink, Water Base Ink , Packaging Materials	Active	14/04/2024	
PO103	Solvent Ink, Water Base Ink , Packaging Materials	Active	10/04/2024	
PO104	Solvent Ink, Water Base Ink , Packaging Materials	Active	04/04/2024	
PO105	Solvent Ink, Water Base Ink , Packaging Materials	Active	29/03/2024	

Interface number: 26

Interface name: Update Order Details.

Description: Can update all the registered orders.

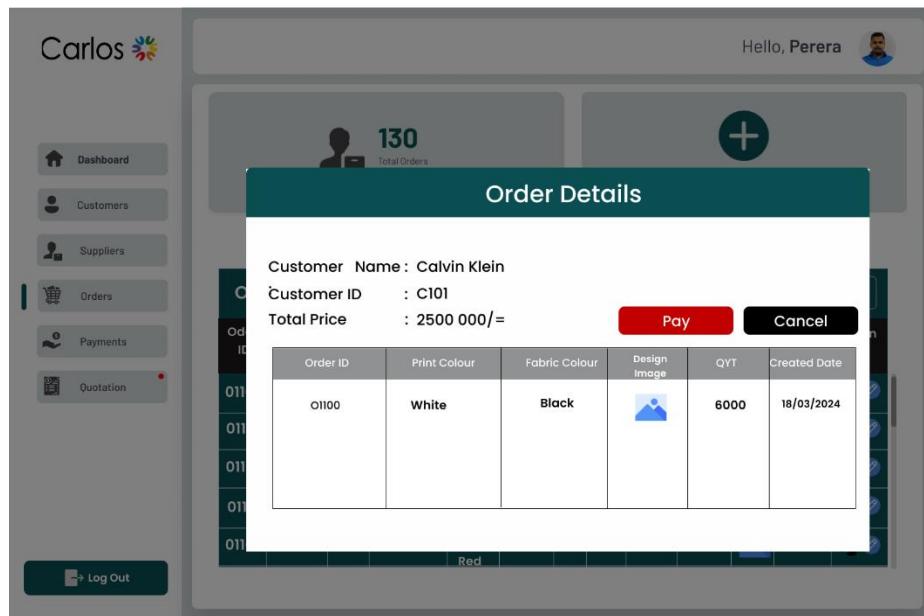
The screenshot shows the 'Update Order Details' interface. On the left is a sidebar with icons for Dashboard, Customers, Suppliers, Orders (selected), Payments, and Quotation. The main area has a title 'Update Order Details'. It contains several input fields: 'Fabric Colour' (Black), 'Order Shipping Date' (04/06/2023), 'Order Quantity' (5000), 'Order Size' (M), 'Print Colour' (White), 'Job No' (002), and an 'Order Status' dropdown menu with options 'Approved' (selected), 'Declined', and 'Pending'. At the bottom are 'Update' and 'Cancel' buttons.

The screenshot shows the 'Update Order Details' interface with a success message overlay: 'Order details have been updated successfully'. The background fields show the updated values: Customer Id (C001), Order Shipping Date (04/06/2023), Order Quantity (5000), Print Colour (White), and Order Status (Pending). The 'Update' and 'Cancel' buttons are at the bottom.

Interface number: 27

Interface name: Payment

Description: Registration Coordinator can do customer payments.



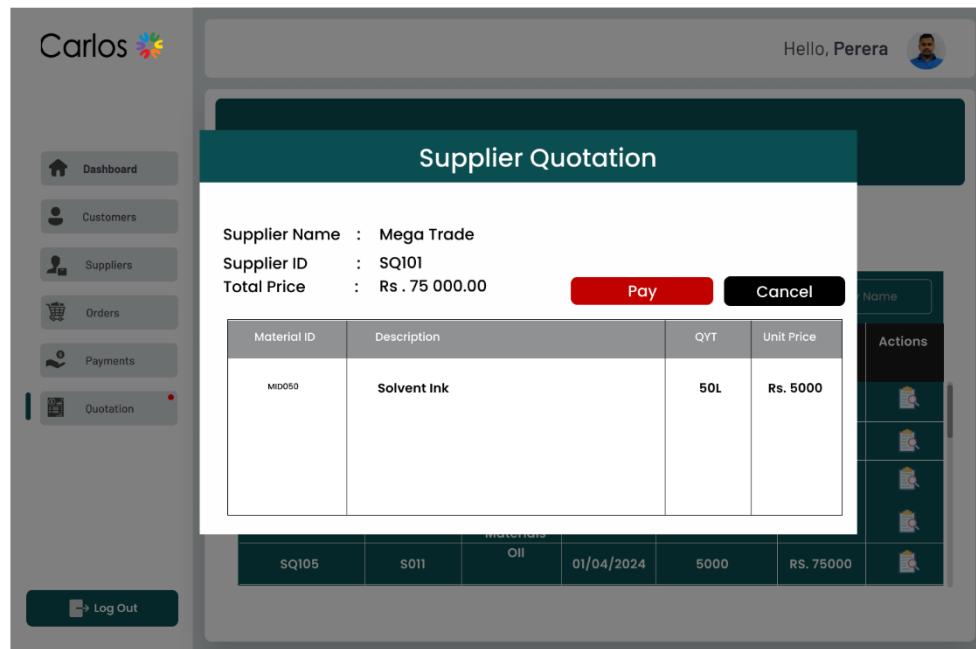
This screenshot shows the 'Payment' screen. It features several input fields:

- A section for selecting payment method: 'Card' (selected) and 'Cash'.
- 'Name on Card' field with placeholder 'Card Holder Name'.
- 'Card Number' field containing 'XXXX XXXX XXXX XXXX' with a small credit card icon at the end.
- 'Expiry' field (MM/YY) and 'CVV' field.
- At the bottom are 'Confirm' (red) and 'Cancel' (black) buttons.

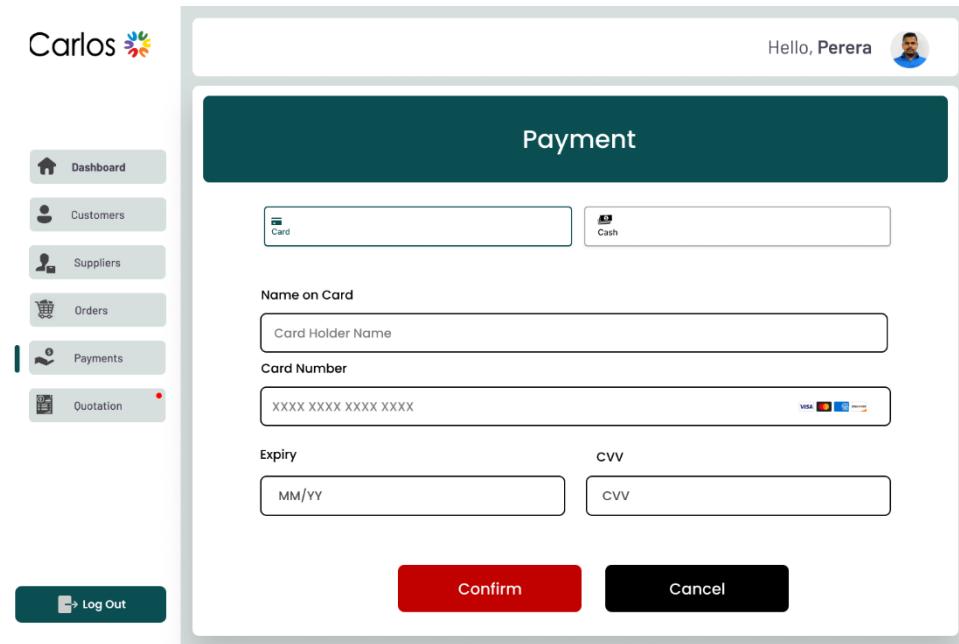
Interface number: 28

Interface name: Supplier quotation payment

Description: Registration Coordinator can do supplier payments.



The screenshot shows the 'Supplier Quotation' interface. At the top, it displays the supplier details: Supplier Name : Mega Trade, Supplier ID : SQ101, and Total Price : Rs . 75 000.00. Below this, there is a table showing a single item: Material ID MID050, Description Solvent Ink, QYT 50L, and Unit Price Rs. 5000. At the bottom, there is a summary row with columns: SQ105, S011, OII, 01/04/2024, 5000, and RS. 75000. A sidebar on the left lists navigation options: Dashboard, Customers, Suppliers, Orders, Payments, and Quotation (which is currently selected). A sidebar on the right lists actions: Name, Actions, and several icons for search and edit.



The screenshot shows the 'Payment' interface. It features two input fields for payment method: 'Card' and 'Cash'. Below these are fields for 'Name on Card' (Card Holder Name) and 'Card Number' (showing placeholder text XXXX XXXX XXXX XXXX). Further down are fields for 'Expiry' (MM/YY) and 'CVV'. At the bottom, there are 'Confirm' and 'Cancel' buttons. The sidebar on the left includes the 'Quotation' option, which is also highlighted. The sidebar on the right contains standard navigation icons.

Interface number: 29

Interface name: View Supplier Quotation

Description: Registration Coordinator can view supplier quotation.

The screenshot shows a user interface for managing supplier quotations. At the top left is a logo for 'Carlos' with a colorful flower icon. On the right, there is a greeting 'Hello, Perera' and a profile picture. A sidebar on the left contains links for Dashboard, Customers, Suppliers, Orders, Payments, and Quotation, with the Quotation link being the active one. The main content area has a dark teal header with the title 'Supplier Quotations'. Below it is a table with the following data:

Quotation ID	Supplier ID	Order Name	Status	Quotation Date	Total Price	Actions
SQ101	S015	Solvent Ink	● Selected	18/04/2024	RS. 75000	
SQ102	S014	Solvent Ink	● Approved	16/04/2024	RS. 69000	
SQ103	S013	Solvent Ink	● Selected	12/04/2024	RS. 71000	
SQ104	S012	Solvent Ink (Premium)	● Selected	05/04/2024	RS. 78000	
SQ105	S011	Solvent Ink	● Selected	01/04/2024	RS. 68000	

At the bottom left of the main area is a 'Log Out' button.

Interface number: 30

Interface name: View Customer Quotation

Description: Registration Coordinator can view customer quotation.

The screenshot shows the Carlos application interface. On the left is a vertical sidebar with the Carlos logo at the top. Below the logo are seven menu items: Dashboard, Customers, Suppliers, Orders, Payments, and Quotation. The Quotation item is highlighted with a dark blue background. At the bottom of the sidebar is a 'Log Out' button. The main content area has a header bar with 'Hello, Perera' and a user profile icon. Below the header is a dark teal banner with the word 'Quotations'. The main content is a table titled 'Customer Quotations Details'. The table has columns for Quotation ID, Customer ID, Order ID, Quotation Date, QTY, Unit Price, Total Price, and Actions. There are six rows of data, each with a 'PDF' and 'Excel' icon in the Actions column. The table includes a search bar and a 'Sort by Name' button. The entire interface has a light gray background.

Quotation ID	Customer ID	Order ID	Quotation Date	QTY	Unit Price	Total Price	Actions
CQ1212	C105	O1104	28/04/2024	5000	RS. 500	RS. 2500 000	
CQ1213	C104	O1103	22/04/2024	9000	RS. 600	RS. 5400 000	
CQ1214	C103	O1102	07/04/2024	4000	RS. 550	RS. 4 950 000	
CQ1215	C102	O1101	01/04/2024	3000	RS. 400	RS. 2 200 000	
CQ1216	C101	O1100	20/03/2024	6000	RS. 500	RS. 3 000 000	

Interface number: 31

Interface name: Sending customer quotation.

Description: Registration Coordinator can send customer quotations.

The screenshot shows the 'Customer Quotation' interface. At the top, it displays the customer name 'Calvin Klein', order ID '01104', and email 'hr.cme@Calvin Klein.com'. Below this is a table with one row containing the following data:

Quotation ID	Order ID	Quotation Date	Unit Price	QTY	Total
CQ1212	01104	28/04/2024	RS.500	5000	Rs 2 500 000

At the bottom of the interface, there are buttons for 'Send' and 'Cancel'. A sidebar on the right shows a list of actions: 'View Details', 'Edit', 'Delete', 'Print', 'Email', and 'Share'.

The screenshot shows the 'Quotations' interface. It displays a table of customer details and a modal window in the center stating 'Quotation Sent Successfully' with an 'OK' button. The table below shows the following data:

Customer Details	Search Customer	Sort by Name					
Cus quotation ID							
CQ1212	01104	4					
CQ1213	01105	4					
CQ1214	01106	5					
CQ1215	C113	01215	07/03/2024	Bright White	10000	400	Rs.4,000,000
CQ1216	C114	01216	12/03/2024	Cherry Red	1500	500	Rs.750,000

A sidebar on the right shows icons for 'View Details', 'Edit', 'Delete', 'Print', 'Email', and 'Share'.

Interface number: 32

Interface name: Marketing manager dashboard

Description: Marketing manager dashboard details.

The screenshot shows a user interface for a marketing manager. At the top left is a logo for 'Carlos' with a colorful flower icon. At the top right is a greeting 'Hello, Nimai' next to a small profile picture. On the far left is a vertical sidebar with the following menu items:

- Dashboard
- Style
- Quotation
- Orders (highlighted with a red dot)
- Report
- Payments
- Task

At the bottom left of the sidebar is a 'Log Out' button. The main content area has a light gray background. At the top, there are three cards with statistics:

- Total Customers: 126 (8% increase over 30 days)
- Total Orders: 130 (4% increase over 30 days)
- Pending Orders: 40

- View Orders (with a shopping cart icon)
- Add Quotation (with a document icon)
- Generate Reports (with a bar chart and gear icon)

Interface number: 33

Interface name: Marketing manager profile.

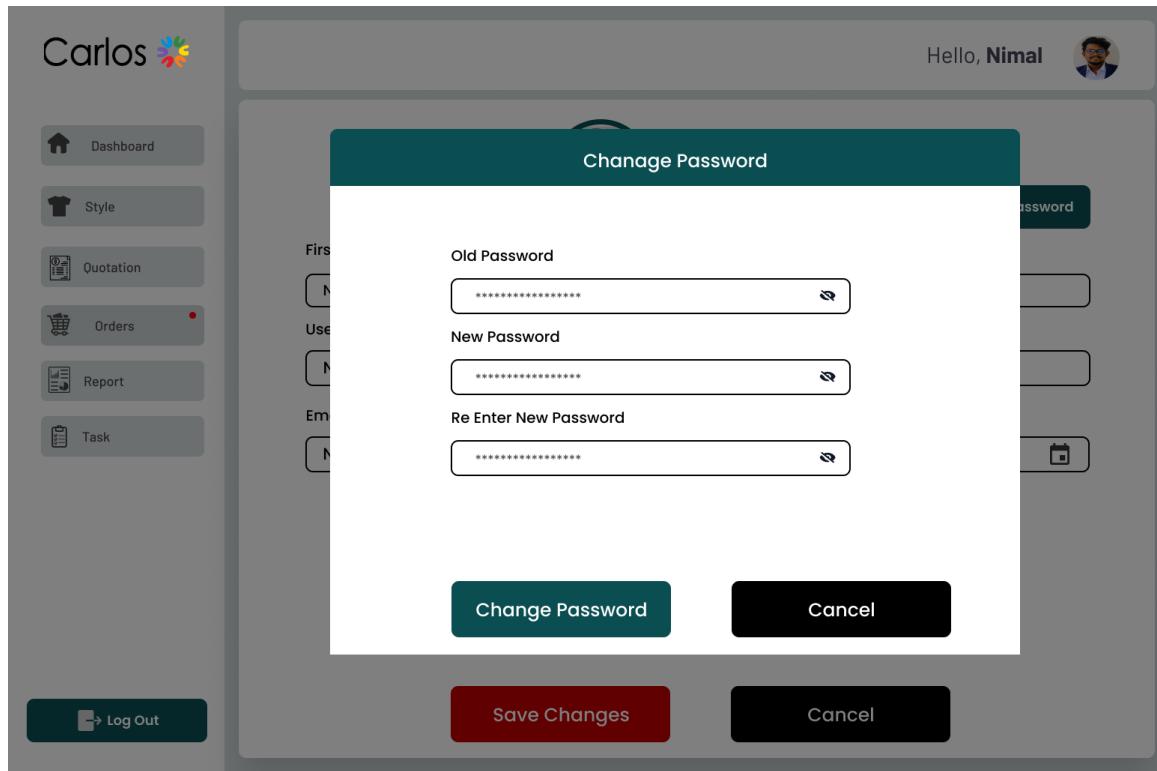
Description: Marketing manager profile details.

The screenshot shows a user interface for managing a marketing manager's profile. On the left, there is a vertical sidebar with the brand name 'Carlos' at the top, followed by several menu items: Dashboard, Style, Quotation, Orders (with a red notification dot), Report, Payments, and Task. At the bottom of the sidebar is a 'Log Out' button. The main content area has a header bar with 'Hello, Nimai' and a user profile picture. Below the header, there is a circular profile picture of a man with glasses and a blue shirt. To the right of the profile picture, the name 'Nimal Perera' is displayed. A 'Change Password' button is located in the top right corner of this section. The main form area contains six input fields arranged in two columns. The left column includes 'First Name' (Nimal) and 'User Name' (Nimal8523). The right column includes 'Last Name' (Perera) and 'Address' (789/Malwana Rd,Akuregoda.). Below these are 'Email Address' (NimalPerera@gmail.com) and 'Date Of Birth' (29/01/1976). At the bottom of the form are two buttons: a red 'Save Changes' button and a black 'Cancel' button.

Interface number: 34

Interface name: Change password

Description: Marketing managers can change their password.



Interface number: 35

Interface name: Create Style

Description: Marketing managers can create style.

Carlos 

Hello, Nimal 

**Create Style**

Frame No Enter Frame No	Table No Enter Table No
Print Clear Enter Print Clear	Shot Count Enter Shot Count
Cut Panel Enter Cut Panel	Print Type Enter Print Type
Fabric Color Enter Fabric Color	

**Create** **Cancel**

 Log Out

Interface number: 36

Interface name: View order

Description: Marketing managers can view order.

The screenshot shows the Carlos application interface. On the left is a sidebar with a logo and several menu items: Dashboard, Style, Quotation, Orders (selected), Report, Payments, Task, and Log Out. The main area has a header with 'Hello, Nimai' and a user profile picture. Below the header is a summary section with a user icon, a box containing '130 Total Orders', and a search bar labeled 'Search Order Details'. A 'Sort by Name' button is also present. The main content is a table titled 'Order Details' with the following data:

Order ID	Customer ID	Style ID	Order Shipping Date	Fabric Colour	Print Colour	Size	Job No	Order Quantity	Order Status	Design Image	Created Date	Action
01104	C105	-	04/10/2024	Black	White	M	002	5000	Pending		25/04/2024	
01103	C104	ST1103	04/08/2024	White	Black	L	003	9000	Approved		18/04/2024	
01102	C103	ST1102	14/05/2024	Navy Blue	White	XL	004	4000	Approved		04/04/2024	
01101	C102	-	12/04/2024	Bright White	Black	S	005	3000	Pending		27/03/2024	
01100	C101	ST1100	15/03/2024	Cherry Red	White	XL	008	6000	Approved		18/03/2024	

Interface number: 37

Interface name: View task

Description: Marketing managers can view tasks.

The screenshot shows the Carlos application interface. At the top left is the Carlos logo. At the top right is a user profile with the name "Hello, Nimal" and a small profile picture. On the left is a vertical sidebar with navigation options: Dashboard, Style, Quotation, Orders, Report, Payments, and Task (which is currently selected). At the bottom left is a "Log Out" button. The main content area has a dark header bar with the word "Task". Below it is a table titled "Task Details" with columns: Task ID, Task Name, Department, Task Assign Date, and Actions. The table contains four rows of data:

Task ID	Task Name	Department	Task Assign Date	Actions
T125	Production Target	Production Department	08/05/2024	
T124	Decreasing the damage	Finishing Department	14/04/2024	
T123	Efficiency	Stores	03/04/2024	
T122	Increasing Sales	Marketing	02/03/2024	

The screenshot shows the Carlos application interface with a modal window open. The modal has a dark header bar with the word "Task" and a teal header bar with the title "Task Description". Inside the modal, there is a list of task details with colon separators:

- Task Name : Increasing Sales
- Task ID : T122
- Department : Marketing Department
- Description : Boosting the overall sales performance of the company through targeted marketing strategies, sales force effectiveness, and customer

At the bottom right of the modal is a "Cancel" button.

Interface number: 38

Interface name: Create Quotation

Description: Marketing managers can create quotations.

Carlos

Hello, Nimai

Dashboard

Style

Quotation

Orders

Report

Payments

Task

Log Out

## Create Quotation

Unit Price  
Enter Unit Price

QTY  
Enter Quantity

Create

Cancel

Interface number: 39

Interface name: View Quotations.

Description: Marketing managers can view quotations.

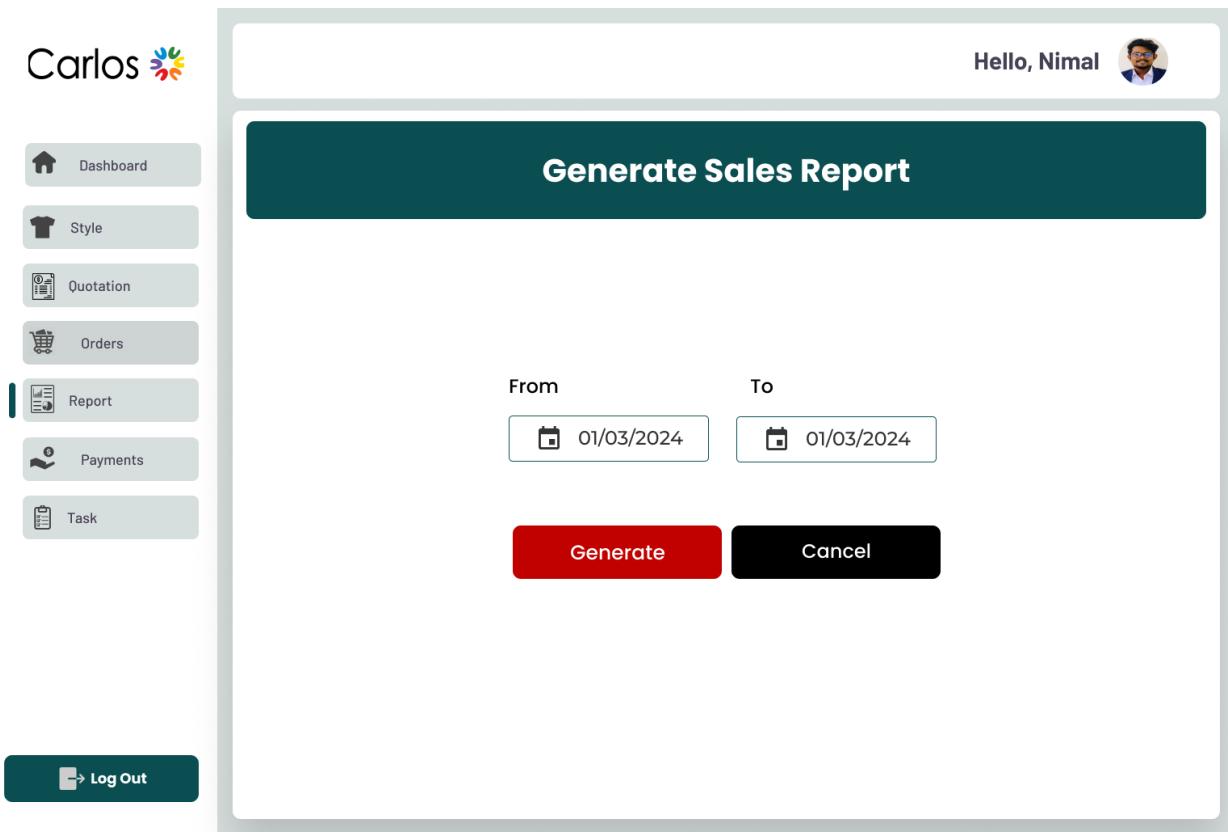
The screenshot shows the Carlos application interface. On the left is a sidebar with navigation options: Dashboard, Style, Quotation, Orders, Report, Payments, Task, and Log Out. The main area displays a dashboard summary with a user icon and the text "Hello, Nimai". Below this is a card showing a group icon and the number "147 Total Quotations". The main content area is titled "Customer Quotations Details" and contains a table with the following data:

Quotation ID	Customer ID	Order ID	Quotation Date	QTY	Unit Price	Total Price
CQI212	C105	O1104	28/04/2024	5000	RS. 500	RS. 2500 000
CQI213	C104	O1103	22/04/2024	9000	RS. 600	RS. 5400 000
CQI214	C103	O1102	07/04/2024	4000	RS. 550	RS. 4 950 000
CQI215	C102	O1101	01/04/2024	3000	RS. 400	RS. 2 200 000
CQI216	C101	O1100	20/03/2024	6000	RS. 500	RS. 3 000 000

Interface number: 40

Interface name: Generate Marketing report.

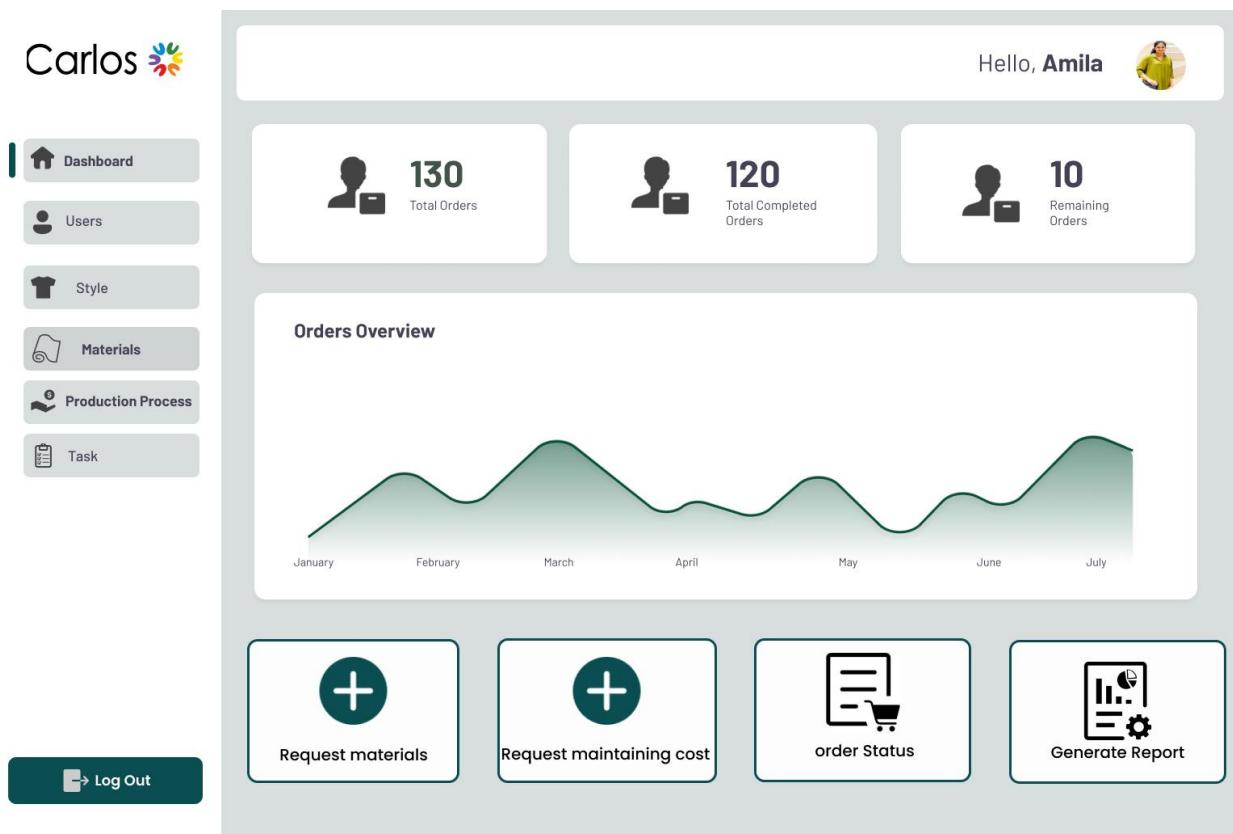
Description: Marketing managers can generate marketing reports.



Interface number: 41

Interface name: production Manager Dashboard

Description: production manager dashboard details.



Interface number: 42

Interface name: Product Manager profile

Description: Production manager profile details.

The screenshot shows a user profile page titled "Product Manager profile". At the top right, it says "Hello, Amila" with a small profile picture of a woman. On the left, there's a sidebar with navigation links: Dashboard, User (selected), Style, Materials, Production Process, and Task. At the bottom left is a "Log Out" button. The main content area displays a circular profile picture of a woman named Amila Silva. Below the picture, there are two columns of input fields:

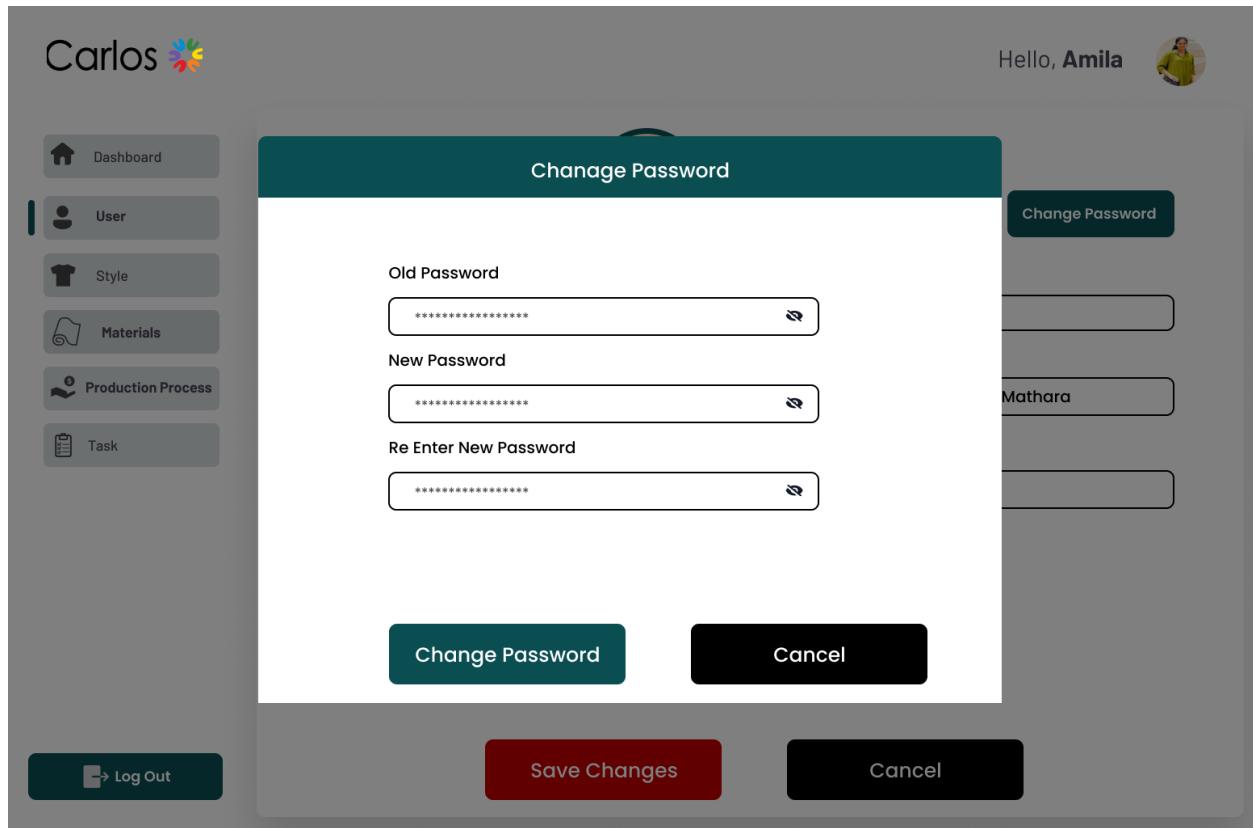
First Name: Amila	Last Name: Silva
User Name: Amila2000	Address: 19/B,Katugasthota,Mathara
Email Address: amila@gmail.com	Date Of Birth: 10/03/2000

At the bottom are "Save Changes" and "Cancel" buttons.

Interface number: 43

Interface name: Change password

Description: Production manager can change password.



Interface number: 44

Interface name: View task

Description: Production manager can view task.

The screenshot shows the Carlos application interface. At the top left is the Carlos logo. At the top right is a greeting "Hello, Amila" next to a user profile icon. On the far left is a vertical sidebar with navigation icons: Dashboard, Users, Orders, Materials, Production Process, and Task (which is selected and highlighted). At the bottom left is a "Log Out" button. The main content area has a dark header bar with the word "Task". Below it is a table titled "Task Details" with columns: Task ID, Task Name, Department, Task Assign Date, and Actions. The table contains four rows of data:

Task ID	Task Name	Department	Task Assign Date	Actions
TI25	Production Target	Production Department	08/05/2024	
TI24	Decreasing the damage	Finishing Department	14/04/2024	
TI23	Efficiency	Stores	03/04/2024	
TI22	Increasing Sales	Marketing	02/03/2024	

The screenshot shows the Carlos application interface with a modal window open over the main content. The modal has a dark header bar with the word "Task". Below it is a dark header bar with the title "Task Description". The main body of the modal contains the following information:

Task Name	:	Production Target
Task ID	:	TI25
Department	:	Production Department
Description	:	Production capacities, resource allocation, efficiency optimization, and schedule management to meet or exceed the defined targets.

At the bottom right of the modal is a "Cancel" button. The background of the main content area is dimmed, indicating it is inactive while the modal is open.

Interface number: 45

Interface name: View order style

Description: Production manager can view order style.

Carlos

Hello, Amila

Dashboard

Users

Orders

Materials

Production Process

Task

Log Out

Order Details												
Order ID	Customer ID	Style ID	Order Shipping Date	Fabric Colour	Print Colour	Size	Job No	Order Quantity	Order Status	Design Image	Created Date	Action
01104	C105	-	04/10/2024	Black	White	M	002	5000	Pending		25/04/2024	
01103	C104	ST1103	04/08/2024	White	Black	L	003	9000	Approved		18/04/2024	
01102	C103	ST1102	14/05/2024	Navy Blue	White	XL	004	4000	Approved		04/04/2024	
01101	C102	-	12/04/2024	Bright White	Black	S	005	3000	Pending		27/03/2024	
01100	C101	ST1100	15/03/2024	Cherry Red	White	XL	008	6000	Approved		18/03/2024	

Interface number: 46

Interface name: View Supplier

Description: Production manager can view supplier.

The screenshot shows the Carlos application interface. At the top left is the logo 'Carlos'. At the top right, it says 'Hello, Amila' with a profile picture of a woman. On the far left is a vertical sidebar with navigation links: Dashboard, Users, Style, Materials (selected), Production Process, and Task. The main content area has three summary cards: 'Total Request' (130), 'Conform Request' (120), and 'Reject Request' (10). Below these is a table titled 'Request Materials' with the following data:

Production Material ID	Requested by	Material name	Material Quantity	Requested date
PMID001	Amara	Water-based Ink	2l	15/08/2023
PMID002	Nayanali	Screen Printing Materials	200	12/05/2023
PMID003	Praneepa	Solvent Ink	3l	16/09/2023
PMID004	Senori	Packaging Materials	90	03/02/2023

At the bottom left of the main content area is a 'Log Out' button.

Interface number: 47

Interface name: Request material

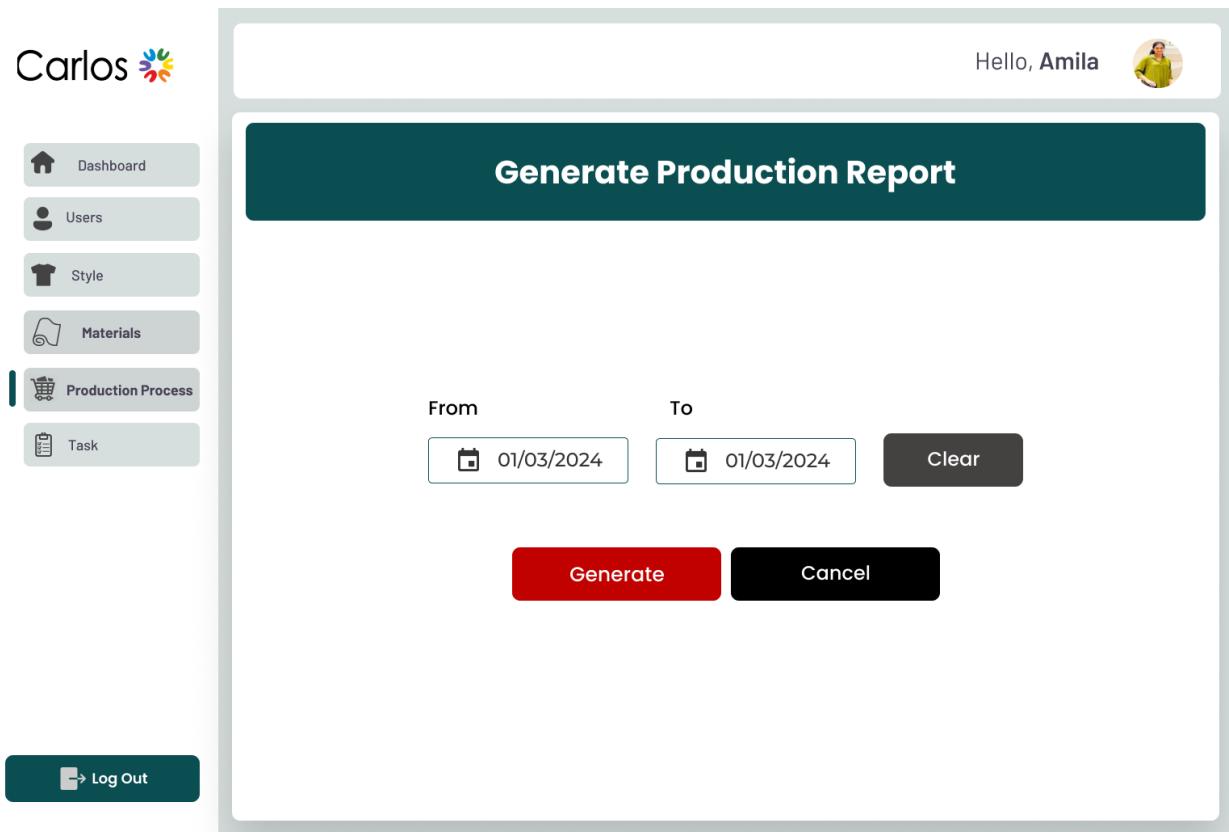
Description: Production manager can request material.

The screenshot shows a software interface for requesting materials. At the top left is a logo for 'Carlos' with a colorful flower icon. On the right, it says 'Hello, Amila' next to a profile picture of a woman. A vertical sidebar on the left contains navigation links: Dashboard, Users, Style, Materials (which is highlighted with a blue bar), Production Process, and Task. At the bottom left is a 'Log Out' button. The main area has a dark teal header with the title 'Request materials'. Below the header are two input fields: 'Material Name' and 'Material Quantity', each with an empty text input box. Underneath these is a 'Request By' section with another empty text input box. At the bottom are two buttons: a red 'Request' button and a black 'Cancel' button.

Interface number: 48

Interface name: Report Production

Description: Production manager can generate production report.



Interface number: 49

Interface name: Create Production Process

Description: Production manager can create production processes.

The dashboard displays various metrics: Total Orders (130), Complete Orders (120), New Orders (05), and Uncompleted Orders (10). A table lists four existing production processes (PR001 to PR004) with their details: Process ID, Style ID, Order ID, Created Date, Created Time, Rest Of Quantity, Target Quantity, and Completed Quantity.

Process ID	Style ID	Order ID	Created Date	Created Time	Rest Of Quantity	Target Quantity	Completed Quantity
PR001	S001	O1788	12/08/2023	03.00 a.m.	200	1000	800
PR002	S002	O1735	15/09/2023	05.00 p.m.	300	3000	2700
PR003	S003	O8550	18/12/2023	09.00 a.m.	100	2800	2700
PR004	S004	O8689	20/11/2023	06.00 p.m.	500	5000	4500

The form allows the user to input 'Completed Quantity' and 'Target Quantity'. It features two buttons at the bottom: 'Request' (red) and 'Cancel' (black).

Interface number:50

Interface name: Quality Manager Dashboard

Description: Quality Manager Dashboard details.

The screenshot shows a user interface for a Quality Manager Dashboard. At the top left is a profile picture of a person named Carlos, followed by the name "Carlos". On the top right, it says "Hello, Noyel" and shows a small profile picture. The main content area has a light gray background. On the left side, there is a vertical sidebar with rounded corners containing several buttons: "Dashboard" (selected), "Users", "Orders", "Bundle", "Report", and "Task". At the bottom of this sidebar is a "Log Out" button. The main content area features three large cards at the top with icons and counts: a user icon with "55 Total Users", a building icon with "05 Total Departments", and a globe icon with "40 Active Users". Below these is a section titled "Orders Overview" containing a line chart showing order volume from January to July. At the bottom are three buttons with icons and labels: "Approved Orders" (with a plus sign icon), "Bundle Details" (with a plus sign icon), and "Generate Final Details" (with a gear and document icon).

Interface number: 51

Interface name: Quality Manager profile.

Description: Quality Manager Profile details.

The screenshot shows a user interface for editing a Quality Manager profile. On the left, there's a vertical sidebar with a logo 'Carlos' and several navigation options: Dashboard, Users, Orders, Bundle, Report, and Task. The 'Dashboard' option is currently selected. At the top right, it says 'Hello, Noyel' and shows a small profile picture. The main content area displays a circular profile picture of a man and the name 'Noyel Fernando'. Below this, there are two columns of form fields:

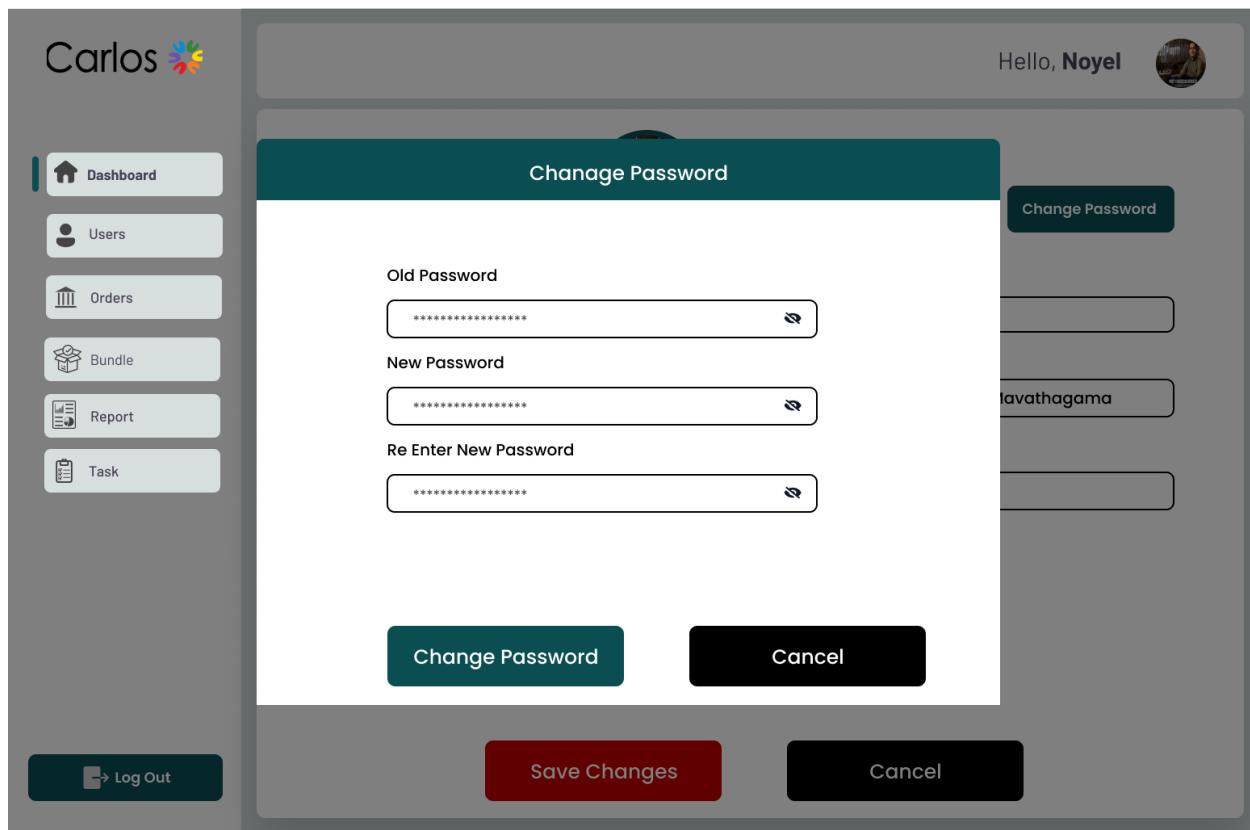
First Name	Last Name
Noyel	Fernando
User Name	Address
Noyel1999	3rd lane,Borupana Rd, Mavathagama
Email Address	Date Of Birth
noyel@gmail.com	10/12/1999

At the bottom of the form are two buttons: 'Save Changes' (in red) and 'Cancel' (in black). To the left of the form, there's a 'Log Out' button.

Interface number: 52

Interface name: Quality Manager Profile.

Description: Quality Manager can change password.



Interface number: 53

Interface name: View task

Description: Quality Manager can view task.

The screenshot shows the Carlos application interface. At the top left is the Carlos logo. At the top right, it says "Hello, Noyel" next to a user profile picture. On the far left is a vertical sidebar with buttons for Dashboard, Users, Orders, Bundle, Report, and Task, with the Task button being highlighted. Below the sidebar is a "Log Out" button. The main content area has a dark header bar with the word "Task". Underneath is a table titled "Task Details". The table has columns for Task ID, Task Name, Department, Task Assign Date, and Actions. There are five rows of data:

Task ID	Task Name	Department	Task Assign Date	Actions
T125	Production Target	Production Department	08/05/2024	
T124	Decreasing the damage	Finishing Department	14/04/2024	
T123	Efficiency	Stores	03/04/2024	
T122	Increasing Sales	Marketing	02/03/2024	

This screenshot shows the same Carlos application interface as above, but with a modal window open over the main content. The modal has a dark header bar with the word "Task". Below it is a section titled "Task Description". Inside, there are four entries: Task Name (Decreasing the damage), Task ID (T124), Department (Finishing Department), and Description (Focuses on reducing the incidence and severity of damage to products during manufacturing, storage, and transportation processes). At the bottom right of the modal is a "Cancel" button.

Interface number: 54

Interface name: View order style

Description: Quality Manager can view order style report.

The screenshot shows the Carlos application interface. On the left is a sidebar with navigation links: Dashboard, Users, Orders, Bundle, Report, and Task. The main area has a header with the logo 'Carlos' and a user profile 'Hello, Noyel'. Below the header are four summary cards: 'Total Orders' (130), 'Complete Orders' (120), 'New Orders' (05), and 'Uncompleted Orders' (10). The central part of the screen displays a table titled 'Order Details' with the following data:

Oder ID	Customer ID	Style ID	Order Shipping Date	Fabric Colour	Print Colour	Size	Job No	Order Quantity	Order Status	Design Image	Created Date	Action
01104	C105	-	04/10/2024	Black	White	M	002	5000	Pending		25/04/2024	<a href="#">+</a>
01103	C104	ST1103	04/08/2024	White	Black	L	003	9000	Approved		18/04/2024	<a href="#">+</a>
01102	C103	ST1102	14/05/2024	Navy Blue	White	XL	004	4000	Approved		04/04/2024	<a href="#">+</a>
01101	C102	-	12/04/2024	Bright White	Black	S	005	3000	Pending		27/03/2024	<a href="#">+</a>
01100	C101	ST1100	15/03/2024	Cherry Red	White	XL	008	6000	Approved		18/03/2024	<a href="#">+</a>

At the bottom left is a 'Log Out' button.

Interface number: 55

Interface name: Enter bundle details.

Description: Quality Manager can enter bundle details.

The screenshot shows a user interface titled "Bundle Details". On the left, there is a sidebar with navigation links: Dashboard, Users, Orders, Bundle, Report, and Task. The "Bundle" link is highlighted. At the top right, it says "Hello, Noyel" and shows a profile picture. The main form has five input fields arranged in two columns. The first column contains "Printing Damage" and "Good Quantity" fields. The second column contains "Number Range" and "Fabric Damage" fields. Below these is a "Total Quantity" field. At the bottom are "Add" and "Cancel" buttons.

Carlos

Hello, Noyel

Bundle Details

Printing Damage

Number Range

Good Quantity

Fabric Damage

Total Quantity

Add

Cancel

Log Out

Interface number: 56

Interface name: View bundle details

Description: Quality Manager can view bundle details.

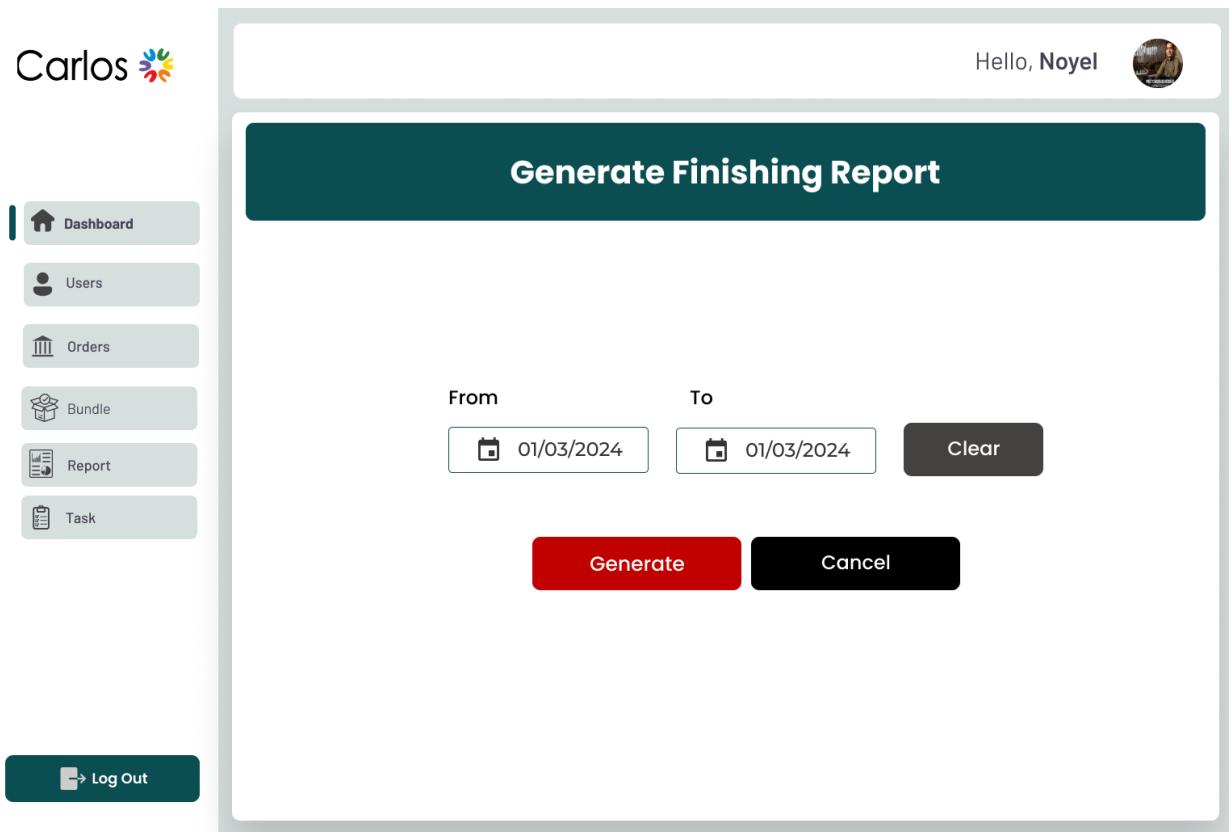
The screenshot shows a user interface for managing bundles. On the left, there's a sidebar with a logo 'Carlos' and several navigation options: Dashboard, Users, Orders, Bundle, Report, and Task. A 'Log Out' button is at the bottom of the sidebar. The main area has a header with 'Hello, Noyel' and a profile picture. Below the header is a dashboard section with four cards: 'Total Orders' (130), 'Complete Orders' (120), 'New Orders' (05), and 'Uncompleted Orders' (10). The main content area is titled 'View Bundle Details' and contains a table with the following data:

Bundle ID	Style ID	Created Date	Number Range	Printing Damage	Fabric Damage	Good Quantity	Total Quantity
B001	ST1713	2023/12/20	001-100	3	2	95	100
B002	ST1713	2023/12/20	100-200	0	1	99	100
B003	ST1713	2023/12/20	150-249	5	0	95	100
B004	ST1713	2023/12/20	100-200	10	0	90	100
B005	ST1713	2023/12/20	1000-2000	0	0	100	100
B006	ST1713	2023/12/20	1100-1200	3	2	95	100

Interface number: 57

Interface name: Generate finishing report.

Description: Quality Manager can generate report.



Interface number: 58

Interface name: Store Manager Dashboard

Description: Store Manager Dashboard Details.

The dashboard features a top navigation bar with the brand logo 'Carlos' and a greeting 'Hello, Tharaka' with a profile picture. On the left is a vertical sidebar with navigation links: Dashboard, Style, Bulk, Orders (selected), Materials, Supplier, Report, Task, and Log Out. The main content area includes three summary cards: 'Total Users' (55), 'Total Departments' (05), and 'Active Users' (40). Below these is a chart titled 'Orders Overview' showing monthly trends from January to July. At the bottom are three buttons: 'Approved Orders' (with a plus icon), 'Bundle Details' (with a plus icon), and 'Generate Final Details' (with a gear and document icon).

Interface number: 59

Interface name: Store Manager Profile

Description: Store Manager Profile Details.

The screenshot shows a user profile page titled "Store Manager Profile". At the top right, it says "Hello, Tharaka" with a small profile picture. On the left is a sidebar with navigation icons for Dashboard, Style, Bulk, Orders, Materials, Supplier, Report, and Task. A "Log Out" button is at the bottom left. The main content area displays a circular profile picture of a woman, identified as Tharaka Silva. Below the profile picture are several input fields for profile information:

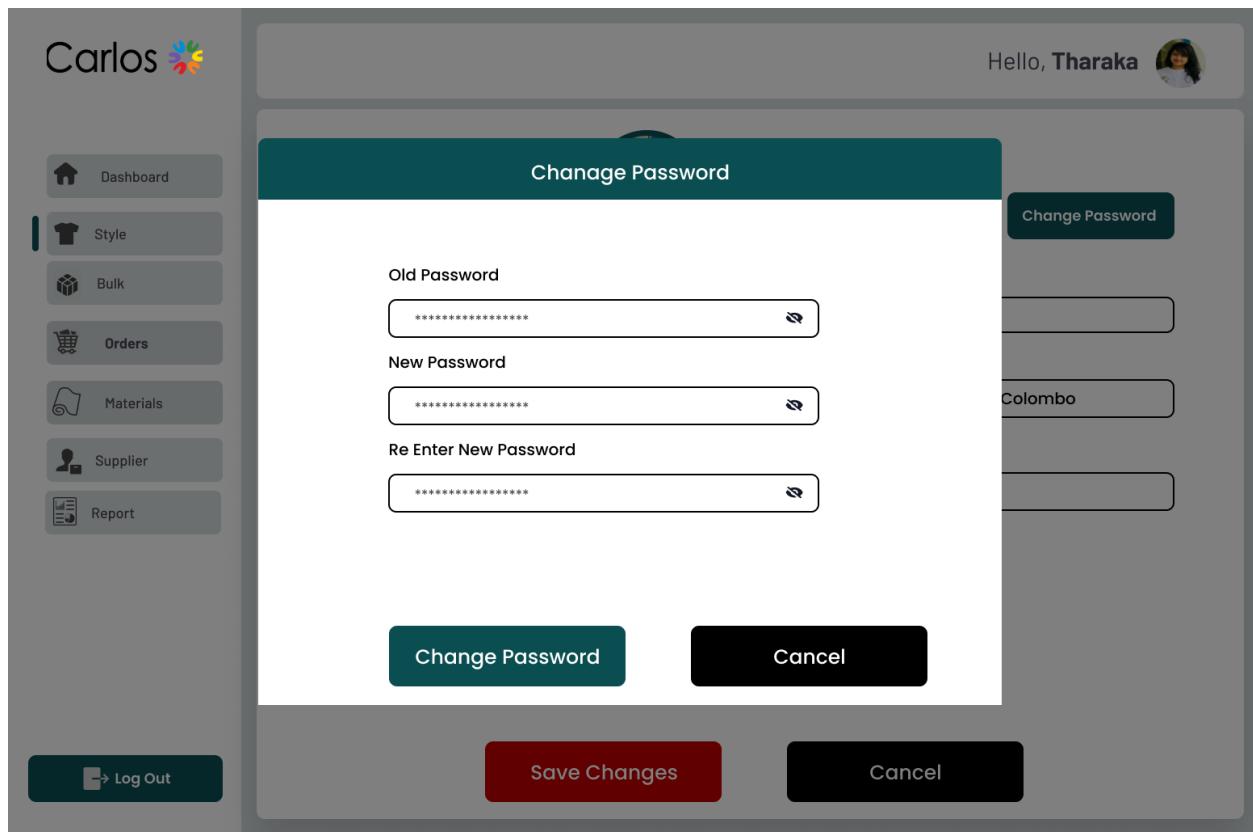
First Name	Tharaka
Last Name	Silva
User Name	Tharaka1972
Address	92/2,gamage road,Colombo
Email Address	tharaka@gmail.com
Date Of Birth	10/12/1972

At the bottom are two buttons: "Save Changes" (red) and "Cancel".

Interface number: 60

Interface name: Change Password

Description: Store Manager can change password.



Interface number: 61

Interface name: View task

Description: Store Manager can view task.

The screenshot shows the Carlos application interface. On the left is a sidebar with a logo and navigation links: Dashboard, Style, Bulk, Orders, Materials (selected), Supplier, Report, and Task. A 'Log Out' button is at the bottom. On the right, the main area has a header 'Hello, Tharaka' with a profile picture. Below it is a dark teal bar with the word 'Tasks'. Underneath is a table titled 'Task Details' with columns: Task ID, Task Name, Department, Task Assign Date, and Actions. The table contains four rows of data:

Task ID	Task Name	Department	Task Assign Date	Actions
T125	Production Target	Production Department	08/05/2024	
T124	Decreasing the damage	Finishing Department	14/04/2024	
T123	Efficiency	Stores	03/04/2024	
T122	Increasing Sales	Marketing	02/03/2024	

The screenshot shows the Carlos application interface with a modal window over the main content. The modal has a dark teal header with the word 'Task Description'. Inside, there is a list of task details with colons separating the key from the value:

- Task Name : Efficiency
- Task ID : T123
- Department : Stores Department
- Description : Enhancing operational efficiency within the organization.

A 'Cancel' button is located at the bottom right of the modal.

Interface number: 62

Interface name: View Customer Order Details.

Description: Store Manager can view customer order details.

The screenshot shows a user interface for a store management system. At the top left is the brand logo 'Carlos'. At the top right, it says 'Hello, Tharaka' with a small profile picture. On the far left is a vertical sidebar with several menu items: Dashboard, Style, Bulk, Orders (which is highlighted in blue), Materials, Supplier, Report, and Task. At the bottom of the sidebar is a 'Log Out' button. The main content area has two large summary boxes: one showing '130 Total Orders' with a person icon and another showing '102 Total Dispatched Orders' with a person pushing a cart icon. Below these is a table titled 'Order Details' with columns for Order ID, Customer ID, Order Shipping Date, Fabric Colour, Print Colour, Size, Job No, Order Quantity, Order Status, Design Image, and Created Date. The table contains five rows of order data.

Order ID	Customer ID	Order Shipping Date	Fabric Colour	Print Colour	Size	Job No	Order Quantity	Order Status	Design Image	Created Date
01104	C105	04/10/2024	Black	White	M	002	5000	Approved		17/07/2023
01103	C104	04/08/2023	White	Black	L	002	5000	Pending		18/05/2023
01104	C103	14/05/2023	Blue	White	XL	002	5000	Approved		16/04/2023
01104	C102	12/04/2023	Red	Black	S	002	5000	Declined		08/03/2023
01104	C101	15/03/2023	White	White	XL	002	5000	Approved		18/02/2023

Interface number: 63

Interface name: View material request.

Description: Store Manager can view material request.

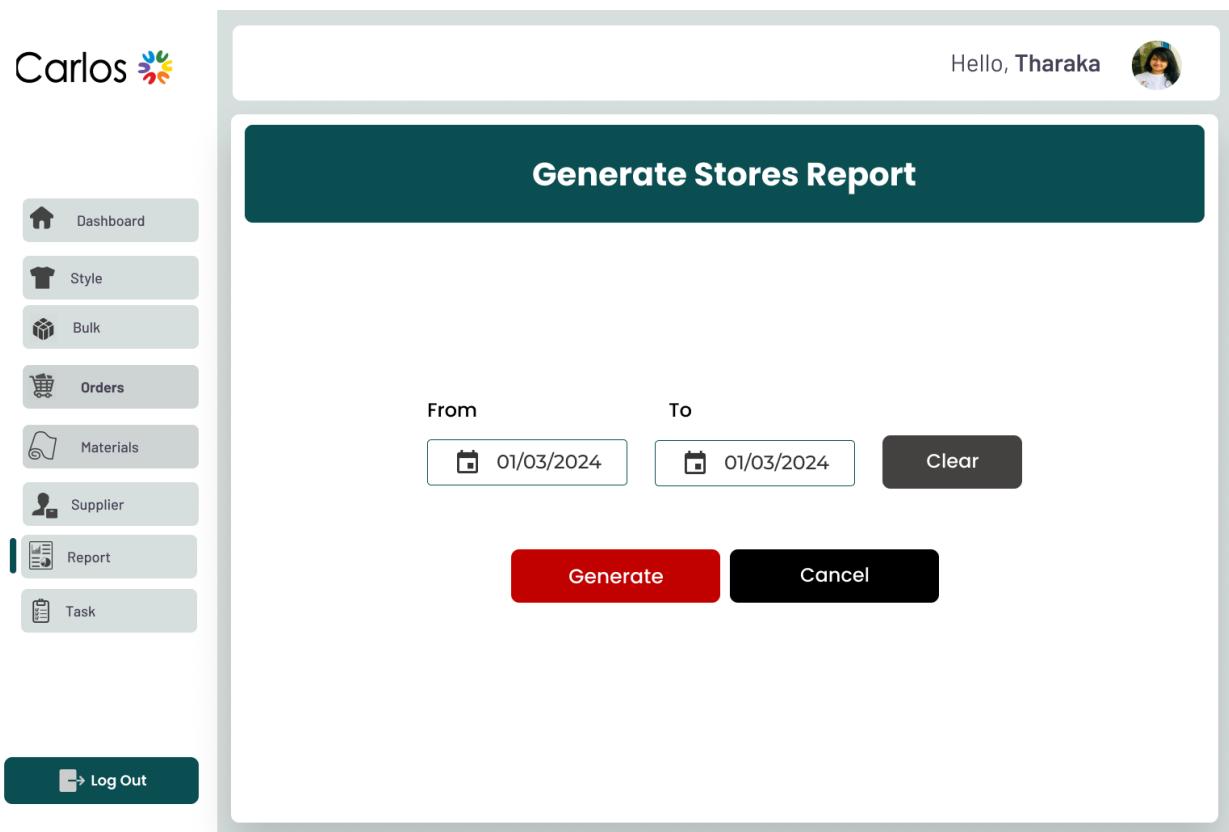
The screenshot shows the Carlos application interface. On the left is a vertical sidebar with icons and labels: Dashboard, Style, Bulk, Orders, Materials, Supplier, Report, and Task. Below these is a 'Log Out' button. The main area has a header 'Hello, Tharaka' with a profile picture. Below the header are three summary cards: 'Total Request' (130), 'Complete Request' (120), and 'Reject Request' (05). The main content area is titled 'Material Request' and contains a table with the following data:

Material ID	Requested By	Requested Date	Material Name	Material Quantity	Description
MR001	Mr. Kamal	12/08/2023	Solvent INK	20L	
MR001	Mr. Kamal	12/08/2023	Solvent INK	20L	
MR001	Mr. Kamal	12/08/2023	Solvent INK	20L	
MR001	Mr. Kamal	12/08/2023	Solvent INK	20L	
MR001	Mr. Kamal	12/08/2023	Solvent INK	20L	

Interface number: 64

Interface name: Generate store report.

Description: Store Manager can generate report.



Interface number: 65

Interface name: Supplier material request

Description: Store manager can request materials.

The screenshot shows a mobile application interface. At the top left is a user profile icon labeled "Carlos" with a colorful logo. At the top right is a greeting "Hello, Tharaka" next to a small profile picture of a woman. Below the header is a dark teal bar with the title "Purchase Order". The main content area has two columns. The left column contains fields for "Materials" (with an empty input box) and "Description" (with an empty input box). The right column contains fields for "Request By" (with an empty input box) and "Material Quantity" (with an empty input box). At the bottom are two large buttons: a red "Request" button on the left and a black "Cancel" button on the right. On the far left, there is a vertical sidebar with a list of navigation items: Dashboard, Style, Bulk, Orders, Materials, Supplier, Report, and Task. A "Log Out" button is located at the bottom of this sidebar.

Interface number: 66

Interface name: View material request

Description: Store manager can view materials that are requested.

The screenshot shows the Carlos application interface. On the left is a vertical sidebar with icons and labels: Dashboard, Style, Bulk, Orders, Materials (highlighted in blue), Supplier, Report, Task, and Log Out. At the top right, it says "Hello, Tharaka" with a profile picture. In the center, there are three summary boxes: "Total Request" (130), "Complete Request" (120), and "Reject Request" (05). Below these is a table titled "Material Request" with columns: Material ID, Requested By, Requested Date, Material Name, Material Quantity, and Description. The table contains five rows of data, all identical, showing MR001 requested by Mr. Kamal on 12/08/2023 for Solvent INK in 20L quantities.

Material ID	Requested By	Requested Date	Material Name	Material Quantity	Description
MR001	Mr. Kamal	12/08/2023	Solvent INK	20L	
MR001	Mr. Kamal	12/08/2023	Solvent INK	20L	
MR001	Mr. Kamal	12/08/2023	Solvent INK	20L	
MR001	Mr. Kamal	12/08/2023	Solvent INK	20L	
MR001	Mr. Kamal	12/08/2023	Solvent INK	20L	

Interface number: 67

Interface name: Add materials.

Description: Store manager can add materials.

The screenshot shows a user interface for managing materials. On the left, there is a vertical sidebar with a logo 'Carlos' at the top, followed by a list of navigation items: Dashboard, Style, Bulk, Orders, Materials (which is highlighted with a teal bar), Supplier, Report, and Task. At the bottom of the sidebar is a 'Log Out' button. The main content area has a header 'Hello, Tharaka' with a profile picture. Below the header is a dark teal bar with the title 'Add Materials'. The form itself contains two input fields: 'Material Name' and 'Material Quantity', each with an associated text input box. At the bottom right of the form are two buttons: a red 'Add' button and a black 'Cancel' button.

Interface number: 68

Interface name: View Added materials.

Description: Store manager can view added materials.

The screenshot shows a user interface for managing materials. On the left is a vertical sidebar with a logo 'Carlos' at the top, followed by a list of navigation items: Dashboard, Style, Bulk, Orders, Materials (which is selected and highlighted in blue), Supplier, Report, Task, and Log Out at the bottom. The main content area has a header with 'Hello, Tharaka' and a profile picture. Below the header are three summary boxes: 'Total Materials' (130), 'Low Materials' (120), and a button to 'Add New Materials'. The main table, titled 'Materials', lists five entries:

Material ID	Material Name	Material Quantity
MID001	Water-based Ink	10l
MID001	Solvent Ink	20l
MID001	Screen Printing Materials	7000
MID001	Packaging Materials	6000
MID001	Screen printing machine	10

Interface number: 69

Interface name: View bundle

Description: Store manager can view bundle.

The screenshot shows a user interface for a store management system. On the left, there is a vertical sidebar with a logo 'Carlos' at the top, followed by a list of navigation items: Dashboard, Style, Bulk, Orders, Materials, Supplier, Report, and Task. Below these is a 'Log Out' button. The main content area has a header 'Hello, Tharaka' with a profile picture. Below the header are four summary cards: 'Total Orders' (130), 'Complete Orders' (120), 'New Orders' (05), and 'Uncompleted Orders' (10). The main section is titled 'Bulk Details' and contains a table with the following data:

Bundle ID	Order ID	Created Date	Number Range	Printing Damage	Fabric Damage	Good Quantity	Total Quantity
B001	ST1713	20/12/2023	001-100	3	2	95	100
B001	ST1713	20/12/2023	001-100	3	2	95	100
B001	ST1713	20/12/2023	001-100	3	2	95	100
B001	ST1713	20/12/2023	001-100	3	2	95	100
B001	ST1713	20/12/2023	001-100	3	2	95	100

Interface number: 70

Interface name: Materials Issued

Description: Store manager can issue materials.

The screenshot shows a user interface for managing materials. On the left, there is a vertical sidebar with a logo 'Carlos' at the top, followed by a list of navigation items: Dashboard, Style, Bulk, Orders, Materials (which is highlighted with a blue bar), Supplier, Report, and Task. At the bottom of the sidebar is a 'Log Out' button. The main content area has a header 'Hello, Tharaka' with a profile picture. Below the header is a dark teal bar with the title 'Material Issued'. The main form contains three input fields: 'Material Name' with a dropdown arrow, 'On Hand Quantity' with a text input field, and 'Material Quantity' with another text input field. At the bottom are two buttons: a red 'Confirm' button and a black 'Cancel' button.

Interface number: 71

Interface name: View material issued.

Description: Store manager can view issued materials.

The screenshot shows a user interface for managing issued materials. At the top left is a logo for 'Carlos' with a colorful leaf icon. On the right, a greeting 'Hello, Tharaka' is displayed next to a small profile picture. A vertical sidebar on the left contains navigation links: Dashboard, Style, Bulk, Orders, Materials, Supplier, Report, and Task. Below the sidebar is a 'Log Out' button. The main content area features three summary cards: 'Total Material issued' (60), 'Pending Material Issued' (05), and 'Rejected Material issued' (05). Below these is a table titled 'Material Issued' with columns for ID, Receiver name, Sender name, Material name, Material quantity, and Issued date. The table lists four entries:

Material Issued ID	Receiver name	Sender name	Material name	Material quantity	Issued date
MI001	Nilupul	Senithu	Water-based Ink	2l	18/08/2023
MI002	Sangeeth	Senura	Screen Printing Materials	200	20/05/2023
MI003	Numeth	Akila	Solvent Ink	3l	20/09/2023
MI004	Gayan	Sajith	Packaging Materials	90	15/02/2023

Interface number: 72

Interface name: Goods received.

Description: Store manager can add goods receive details.

The screenshot shows a mobile application interface. At the top left is a logo for 'Carlos' with a colorful leaf icon. On the top right, it says 'Hello, Tharaka' and shows a small profile picture of a woman. The main title 'Goods Received' is centered at the top in a dark teal bar. Below the title are four input fields: 'Material Name' (empty), 'Driver Name' (empty), 'Material Quantity' (empty), and 'Vehicle In Time' (empty). At the bottom are two large buttons: a red 'Confirm' button and a black 'Cancel' button. To the left of the main screen is a vertical navigation menu with the following items: Dashboard, Style, Bulk, Orders, Materials (which is highlighted with a blue vertical bar), Supplier, Report, and Task. At the bottom left is a 'Log Out' button.

Interface number: 73

Interface name: View goods received.

Description: Store manager can view added goods received details.

The screenshot shows a user interface for managing goods received. At the top left is the logo 'Carlos' with a colorful leaf icon. At the top right is a greeting 'Hello, Tharaka' next to a small profile picture. On the far left is a vertical sidebar with ten menu items: Dashboard, Style, Bulk, Orders, Materials, Supplier, Report, Task, and Log Out. The 'Log Out' button is highlighted with a dark blue background. The main content area has two large callout boxes: one on the left showing a user icon and the number '130' with the text 'Total Good Received', and one on the right showing a plus sign icon with the text 'Add New Good Received'. Below these is a table titled 'Good Received' with columns: Good Received ID, Supplier ID, Material Name, Material Quantity, Driver Name, Driver Vehicle Number, Vehicle Intime, and Received Date. The table contains four rows of data:

Good Received ID	Supplier ID	Material Name	Material Quantity	Driver Name	Driver Vehicle Number	Vehicle Intime	Received Date
GR001	S015	Screen printing machine	500	Tharusha	WP 0090	7.00 a.m.	15/08/2023
GR002	S014	Water-based Ink	30l	Amantha	SO 5080	5.00 a.m.	23/01/2023
GR003	S013	Packaging Materials	1000	Ishan	LO 6090	9.00 a.m.	10/07/2023
GR004	S012	Screen Printing Materials	3	Ushan	WQ 5070	12.00 p.m.	07/06/2023

Interface number: 74

Interface name: Add bulk details.

Description: Store manager can add bulk details.

The screenshot shows the Carlos application interface. On the left is a sidebar with a logo and a list of navigation items: Dashboard, Style, Bulk (which is selected and highlighted in blue), Orders, Materials, Supplier, Report, Task, and Log Out. The main area has a header "Hello, Tharaka" with a profile picture. Below the header is a dark teal bar with the title "Bulk In/Out". The form consists of several input fields and a dropdown menu. The fields are labeled: "Bundle ID", "Order ID", "Store Keeper Name", "Driver Name", "Vehicle Number", "Bulk Type", and "Bulk Quantity". The "Bulk Type" field is a dropdown menu with three options: "Type", "In" (which is currently selected and highlighted in dark teal), and "Out". At the bottom are two buttons: a red "Add" button and a black "Cancel" button.

Interface number: 75

Interface name: View Bulk in and out.

Description: Store manager can view bulk in and out.

The screenshot shows a user interface for managing bulk in and out operations. At the top left is a logo for 'Carlos' with a colorful flower icon. At the top right, it says 'Hello, Tharaka' with a profile picture. On the far left is a vertical sidebar with icons and labels: Dashboard, Style, Bulk (highlighted with a blue border), Orders, Materials, Supplier, Report, and Task. Below the sidebar is a teal button labeled 'Log Out' with a right-pointing arrow. The main content area has two large boxes: one for 'Bulk In' (130 entries) and one for 'Bulk Out' (102 entries). Below these is a table titled 'Bulk In/Out' with columns for Bulk ID, Order ID, Bundle ID, Bulk Type, Storekeeper name, Driver name, Vehicle number, Bulk quantity, and Created date. The table contains four rows of data.

Bulk ID	Order ID	Bundle ID	Bulk Type	Storekeeper name	Driver name	Vehicle number	Bulk quantity	Created date
BU001	O1104	B001	Bulk in	Kamal	Siril	WP 1234	1000	09/04/2023
BU002	O1103	B002	Bulk out	Nimal	Kumara	SP 3090	2000	08/05/2023
BU003	O1102	B003	Bulk in	Sunil	Gamage	JA 8070	5000	19/03/2023
BU004	O1101	B004	Bulk out	Amal	Nadil	NM 2080	8000	15/02/2023

Interface number: 76

Interface name: CEO Dashboard

Description: CEO Dashboard Details.

Carlos 

Hello, Rayan 

[Dashboard](#)

[Users](#)

[Task](#)

[Orders](#)

[Suppliers](#)

[Marketing](#)

[Finance](#)

[Production](#)

[Finishing](#)

[Stores](#)

[Log Out](#)

**55**  
Total Users

**05**  
Total Departments

**40**  
Active Users

### Income Overview



January February March April May June July

**Add Task**

**126**  
Total Customers  
+ 8% (30 days)

**130**  
Total Orders  
+ 4% (30 days)

Interface number: 77

Interface name: CEO Profile

Description: CEO Profile Details.

Carlos 

Hello, Rayan 

[Dashboard](#)

[Users](#)

[Task](#)

[Orders](#)

[Suppliers](#)

[Marketing](#)

[Finance](#)

[Production](#)

[Finishing](#)

[Stores](#)

[Log Out](#)



Rayan Fernando

[Change Password](#)

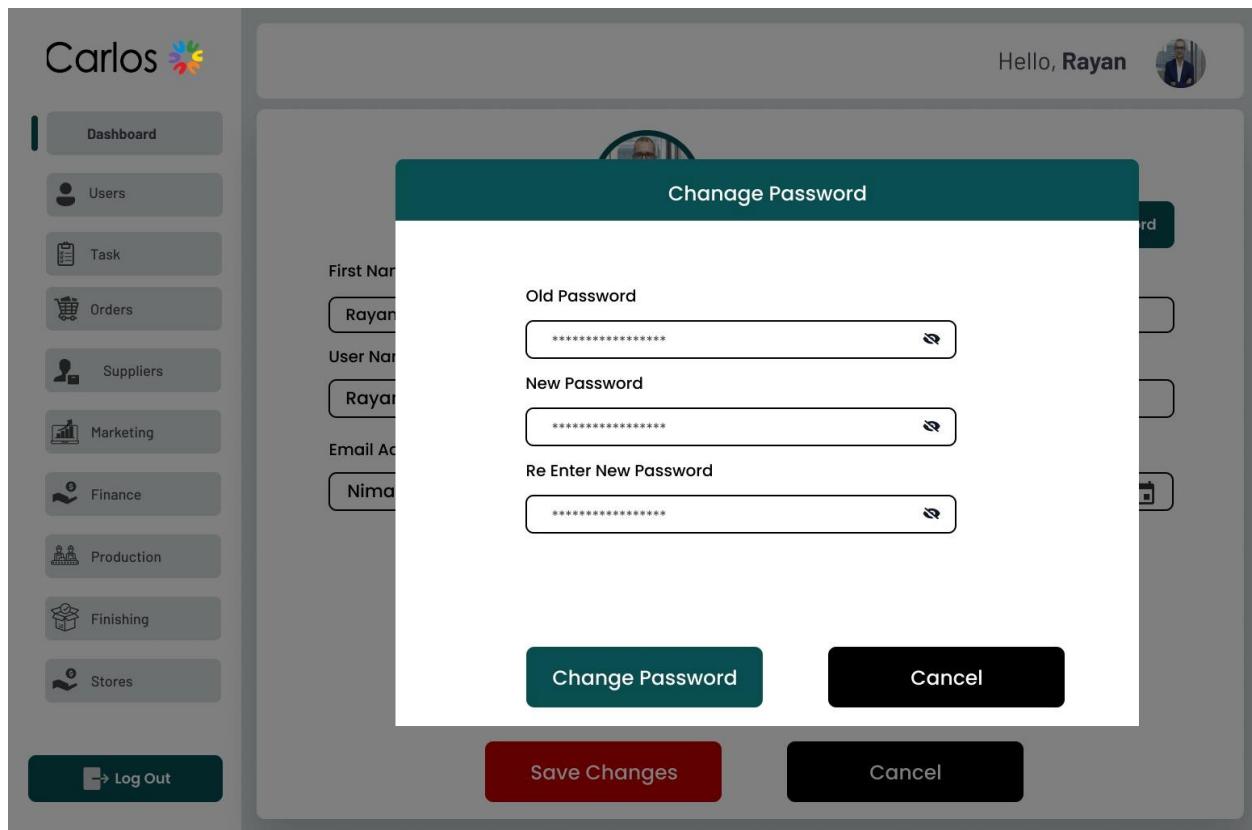
First Name	Rayan
Last Name	Fernando
User Name	Rayan8523
Address	789/Malwana Rd,moratuwa
Email Address	rayanfernando@gmail.com
Date Of Birth	30/01/1976 

[Save Changes](#) [Cancel](#)

Interface number: 78

Interface name: Change Password

Description: CEO can change password.



Interface number: 79

Interface name: Add task.

Description: CEO can add task.

The screenshot shows a user interface for adding a task. At the top left is a logo for 'Carlos' with a colorful flower icon. On the right, there is a greeting 'Hello, Rayan' and a profile picture. A vertical sidebar on the left contains ten menu items with icons: Dashboard, Users, Task (selected), Orders, Suppliers, Marketing, Finance, Production, Finishing, and Stores. At the bottom of the sidebar is a 'Log Out' button. The main content area has a dark header bar with the text 'Add Task Details'. Below it are two input fields: 'Task Name' and 'Department', each with a dropdown arrow. There is also a larger input field for 'Task Description'. At the bottom are two buttons: a red 'Add' button and a black 'Cancel' button.

Interface number: 80

Interface name: View task

Description: CEO can view task.

The screenshot shows the Carlos application interface. On the left is a vertical sidebar with navigation links: Dashboard, Users, Task (selected), Orders, Suppliers, Marketing, Finance, Production, Finishing, and Stores. At the bottom of the sidebar is a 'Log Out' button. The main content area has a header 'Hello, Rayan' with a profile picture. Below the header is a large button with a '+' icon labeled 'Create new task'. The main area is titled 'Task Details' and contains a table with the following data:

Tack ID	Task Name	Department	Task Assign Date	Actions
T125	Production Target	Production Department	08/05/2024	
T124	Decreasing the damage	Finishing Department	14/04/2024	
T123	Efficiency	Stores	03/04/2024	
T122	Increasing Sales	Marketing	02/03/2024	

The screenshot shows the Carlos application interface with a modal window titled 'Task Description' overlaid on the main content. The modal displays the following details for Task ID T125:

**Task Name :** Production Target  
**Task ID :** T125  
**Department :** Production Department  
**Description :** Production capacities, resource allocation, efficiency optimization, and schedule management to meet or exceed the defined targets.

At the bottom of the modal is a 'Cancel' button. The background of the main content area shows the same 'Task Details' table as the previous screenshot, with the first row (T125) being highlighted.

Interface number: 81

Interface name: Update Task

Description: CEO can update task.

The screenshot shows the Carlos application interface. On the left is a sidebar with various menu items: Dashboard, Users, Task (selected), Orders, Suppliers, Marketing, Finance, Production, Finishing, Stores, and Log Out. The main area is titled "Update Task Details". It contains fields for "Task Name" (Production Target) and "Department" (Production Department). A "Task Description" section includes a box with the text: "Production capacities, resource allocation, efficiency optimization, and schedule management to meet or exceed the defined targets." At the bottom are "Save Changes" and "Cancel" buttons.

Carlos

Hello, Rayan

Dashboard

Users

Task

Orders

Suppliers

Marketing

Finance

Production

Finishing

Stores

Log Out

### Update Task Details

Task Name

Production Target

Department

Production Department ▾

Task Description

Production capacities, resource allocation, efficiency optimization, and schedule management to meet or exceed the defined targets.

Save Changes

Cancel

Interface number: 82

Interface name: View Order Details

Description: CEO can view order details.

**Carlos** 

Hello, Rayan 

[Dashboard](#)

[Users](#)

[Task](#)

**Orders**

[Suppliers](#)

[Marketing](#)

[Finance](#)

[Production](#)

[Finishing](#)

[Stores](#)

[Log Out](#)

**130**  
Total Orders

Order Details										<input type="text" value="Search Order Details"/>	<a href="#">Sort by Name</a>
Order ID	Customer ID	Order Shipping Date	Fabric Colour	Print Color	Order Size	Job No	Order Quantity	Order Status	Design Image	Created Date	Action
O1104	C105	04/09/2023	Black	White	M	002	5000	Approved		12/07/2023	<a href="#">Edit</a>
O1103	C104	04/08/2023	White	Black	L	003	9000	Pending		18/05/2023	<a href="#">Edit</a>
O1102	C103	14/05/2023	Navy Blue	White	XL	004	4000	Approved		16/04/2023	<a href="#">Edit</a>
O1101	C102	12/04/2023	Bright White	Black	S	005	3000	Declined		08/03/2023	<a href="#">Edit</a>
O1100	C101	15/03/2023	Cherry Red	White	XL	008	6000	Quotation Approved		18/02/2023	<a href="#">Edit</a>

Interface number: 83

Interface name: View supplier details.

Description: CEO can view supplier details.

The screenshot shows the Carlos application interface. On the left is a vertical sidebar with various menu items: Dashboard, Users, Task, Orders, Suppliers (selected), Marketing, Finance, Production, Finishing, Stores, and Log Out. The main content area has a header with 'Hello, Rayan' and a profile picture. Below the header is a summary card with a user icon, '130 Total Orders', and a search bar labeled 'Search Order Details'. A 'Sort by Name' button is also present. The main table is titled 'Supplier Details' and lists five suppliers with columns for Supplier ID, Supplier Name, Registered Date, Contact Details, Company No, Street, City, Email, and Supplier Type. The data is as follows:

Supplier ID	Supplier Name	Registered Date	Contact Details	Company No	Street	City	Email	Supplier Type
S015	Mega Trade	10/05/2024	+94 760101010	No.225/1/1	Castle St	COLOMBO	<a href="mailto:info@Megatrade.lk">info@Megatrade.lk</a>	Liquid
S014	Elite Distributors	05/04/2024	+94 773659342	No.71	Messenger Street	COLOMBO	<a href="mailto:info@elitedistributors.lk">info@elitedistributors.lk</a>	Maintenance
S013	Global Ink	11/03/2024	+94 773457689	No.104/11	Grandpass Road	COLOMBO	<a href="mailto:info@globalink.lk">info@globalink.lk</a>	Link
S012	Global Ink	10/03/2024	+94 760457689	No.201/20	Temple Road	GAMPAH A	<a href="mailto:info@globalink.lk">info@globalink.lk</a>	Liquid
S011	Global Ink	02/02/2024	+94 772237689	No.232/14	Kirinda Road	MATARA	<a href="mailto:info@globalink.lk">info@globalink.lk</a>	Ink

Interface number: 84

Interface name: View users.

Description: CEO can view users.

Carlos 

Hello, Rayan 

[Dashboard](#)

[Users](#)

[Task](#)

[Orders](#)

[Suppliers](#)

[Marketing](#)

[Finance](#)

[Production](#)

[Finishing](#)

[Stores](#)

[Log Out](#)

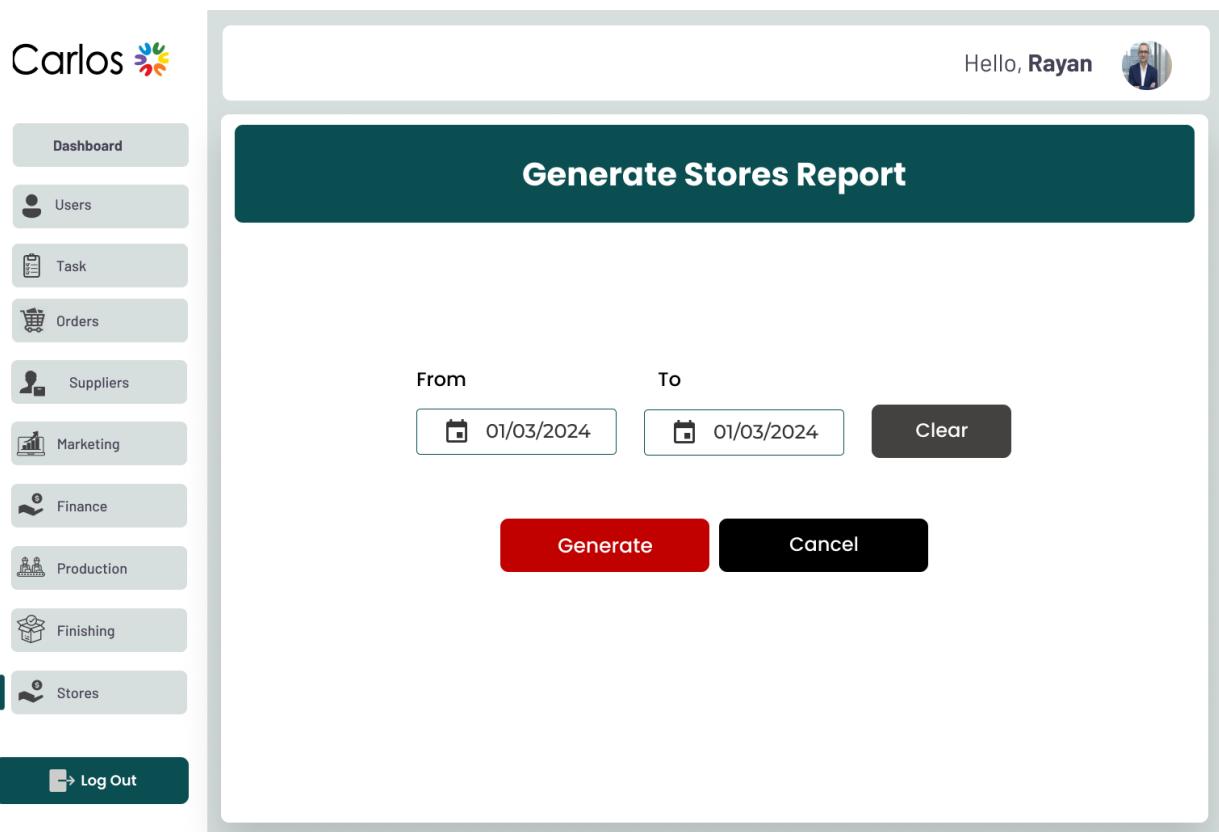
 55  
Total Users

User Details											
User ID	Dep ID	FName	LName	Password	Gender	Join Date	UName	Email	User Img	Address	DOB
U120	D001	Nishadi	Gamage	123456	Female	05/02/2023	nisuGamage	nishandi@gmail.com		9/18,seetha Rd,Matara.	01/12/99
U119	D002	Seetha	Silva	147258	Female	20/03/2023	seethaSilva	seetha@gmail.com		20 <sup>th</sup> lane, Gampaha.	08/01/97
U118	D003	Sithumini	Silva	123789	Female	15/02/2023	sithuSilva	sithu@gmail.com		20/2 Samagi Rd, Moratuwa	06/05/95
U117	D003	Senori	Fernando	456789	Female	09/04/2023	SenoriFer	senori@gmail.com		3 <sup>rd</sup> lane, Anuradhapura	15/06/98
U116	D004	Dunindu	Perera	963852	Male	20/08/2023	duninduPer e	duninduPer e@gmail.com		4 <sup>th</sup> lane, Seethawaka Rd, Jaffna.	20/12/92
U115	D006	Danuka	Jayakody	258963	Male	12/08/2023	danukajaye	danuka@gmail.com		6/B1, Gamage Rd, Kotte. 100/1, Rathmalai Rd	17/05/93

Interface number: 85

Interface name: Generate Store report.

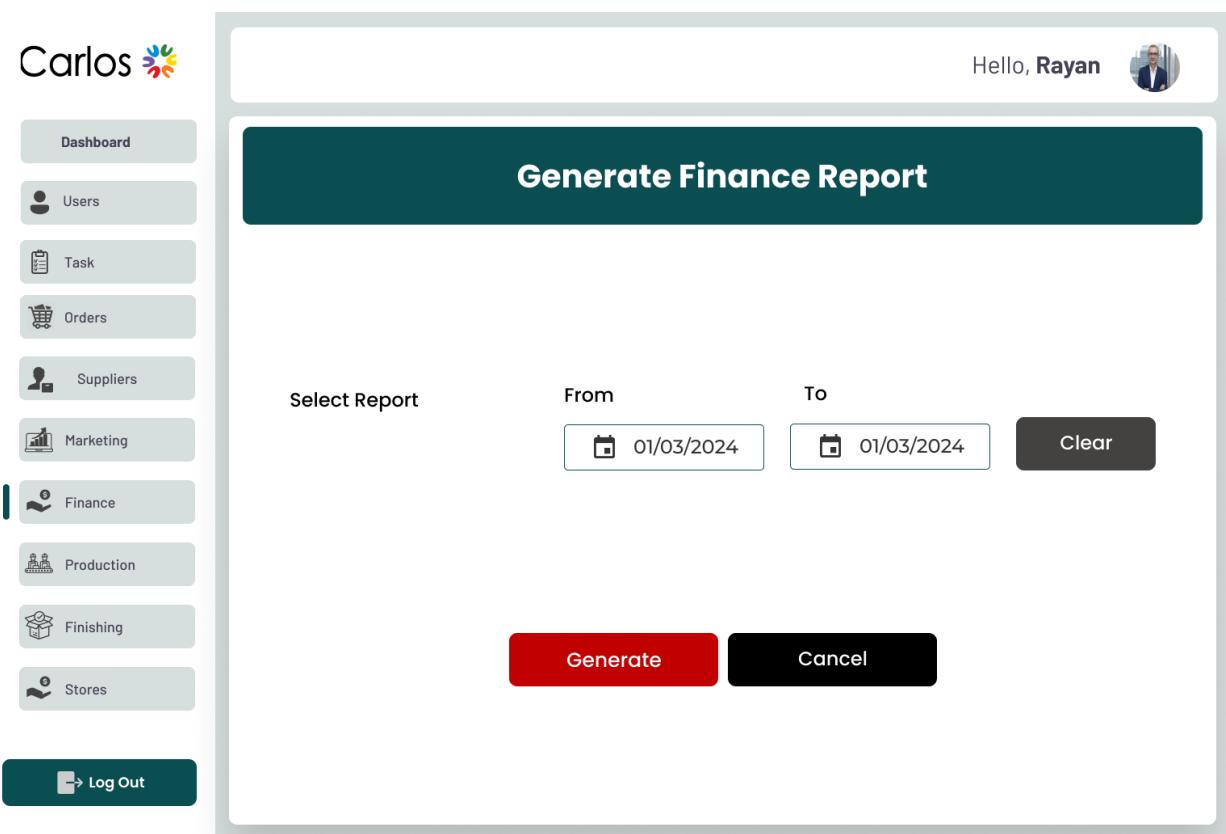
Description: CEO can generate store report.



Interface number: 86

Interface name: Generate Finance report.

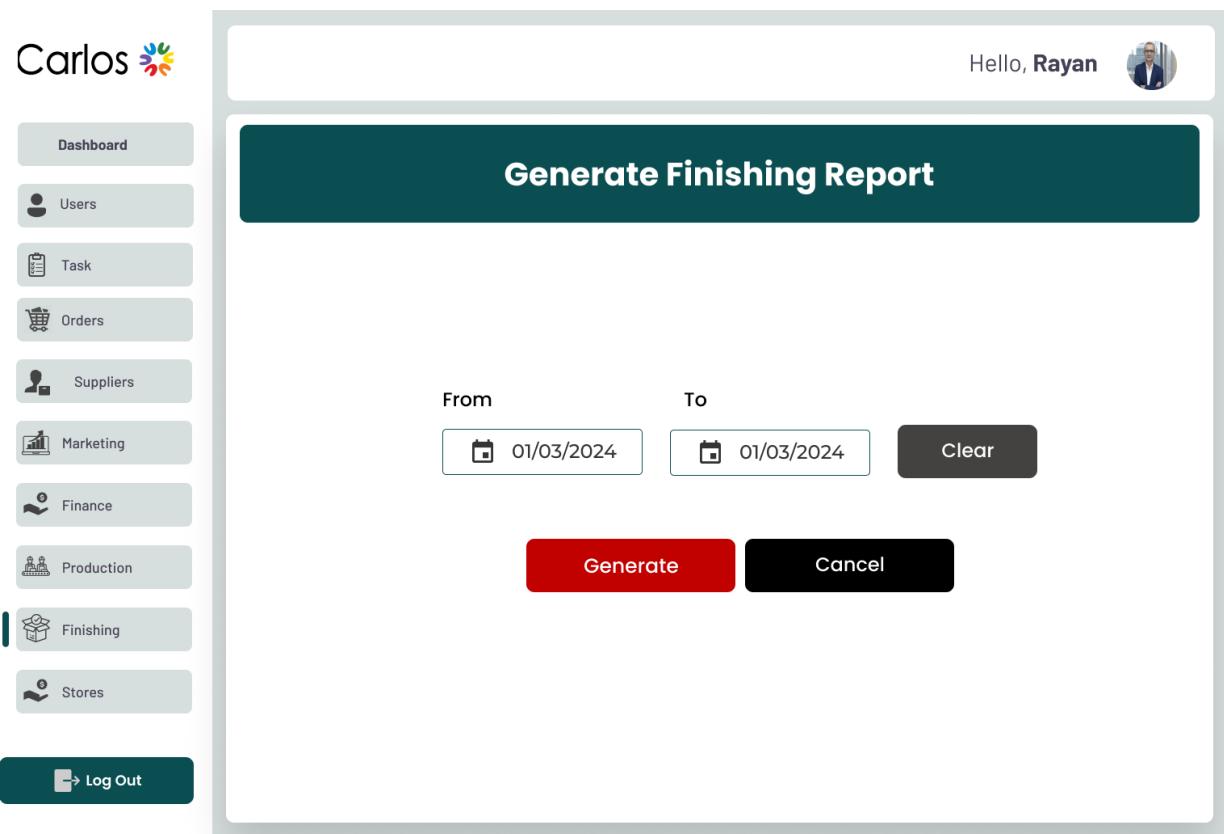
Description: CEO can generate finance report.



Interface number: 87

Interface name: Generate Finishing report.

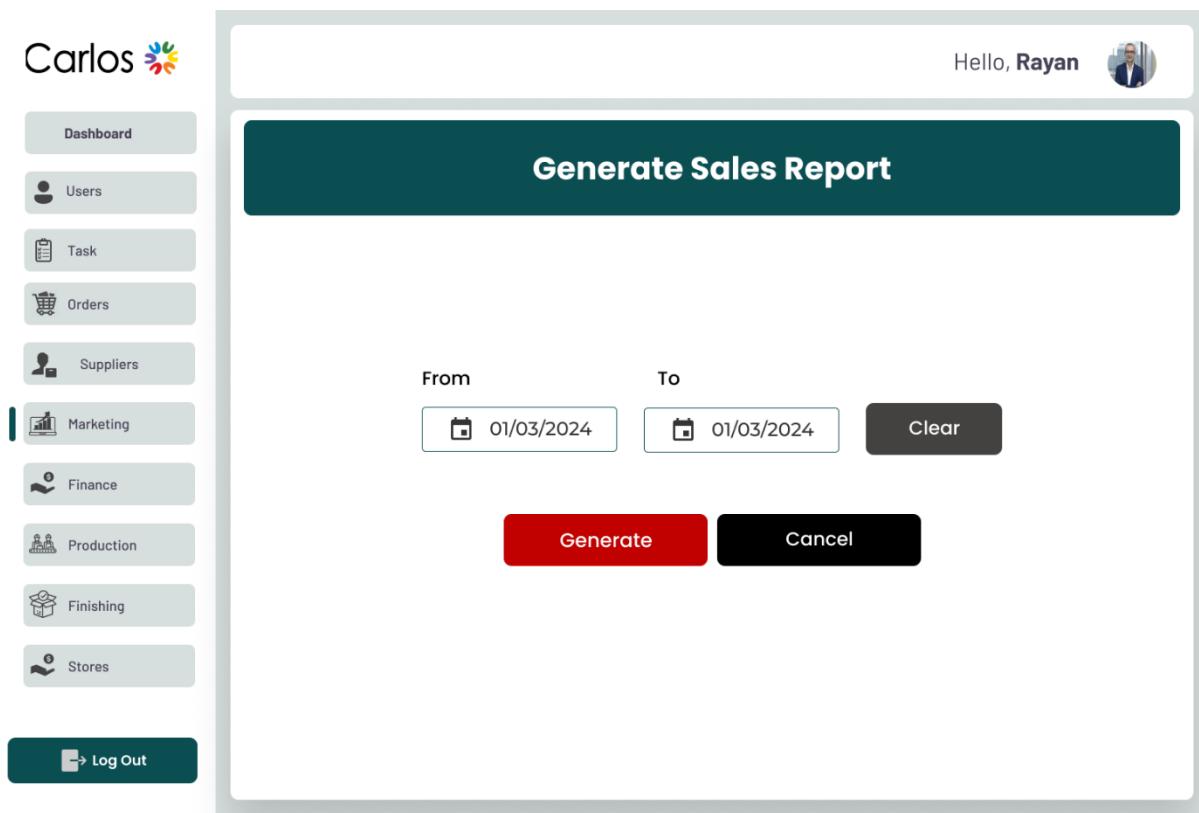
Description: CEO can generate finishing report.



Interface number: 88

Interface name: Generate Marketing report.

Description: CEO can generate marketing report.



Interface number: 89

Interface name: Generate Production report.

Description: CEO can generate production report.

The screenshot shows a user interface for generating a production report. On the left, there is a vertical sidebar with a logo 'Carlos' and a colorful flower icon. Below the logo are ten menu items: Dashboard, Users, Task, Orders, Suppliers, Marketing, Finance, Production (which is highlighted with a blue bar), Finishing, and Stores. At the bottom of the sidebar is a 'Log Out' button. The main content area has a header 'Generate Production Report'. Below the header are two date input fields: 'From' (01/03/2024) and 'To' (01/03/2024). To the right of these fields is a 'Clear' button. At the bottom of the main area are two large buttons: a red 'Generate' button and a black 'Cancel' button.

Interface number: 90

Interface name: Factory Manager Dashboard

Description: Factory Manager dashboard details.

Carlos 

Hello, Nadun 

[Dashboard](#)

[Users](#)

[Task](#)

[Orders](#)

[Supplier Quotation](#)

[Log Out](#)

**55** Total Users

**05** Total Departments

**40** Active Users

### Income Overview



January February March April May June July

**Add Task**

**126** Total Customers  
+ 8% (30 days)

**130** Total Orders  
+ 4% (30 days)

Interface number: 91

Interface name: Factory Manager profile.

Description: Factory Manager profile details.

The screenshot shows the Carlos application interface. On the left is a sidebar with the Carlos logo and five menu items: Dashboard, Users, Task, Orders, and Supplier Quotation. The 'Users' item is highlighted with a dark blue background. The main content area displays a user profile for Nadun Sankalpa. At the top right, it says 'Hello, Nadun' with a small profile picture. Below the profile picture is a circular placeholder for a profile photo. To the right of the placeholder, the name 'Nadun Sankalpa' is displayed. A 'Change Password' button is located to the right of the name. The profile form contains the following fields and values:

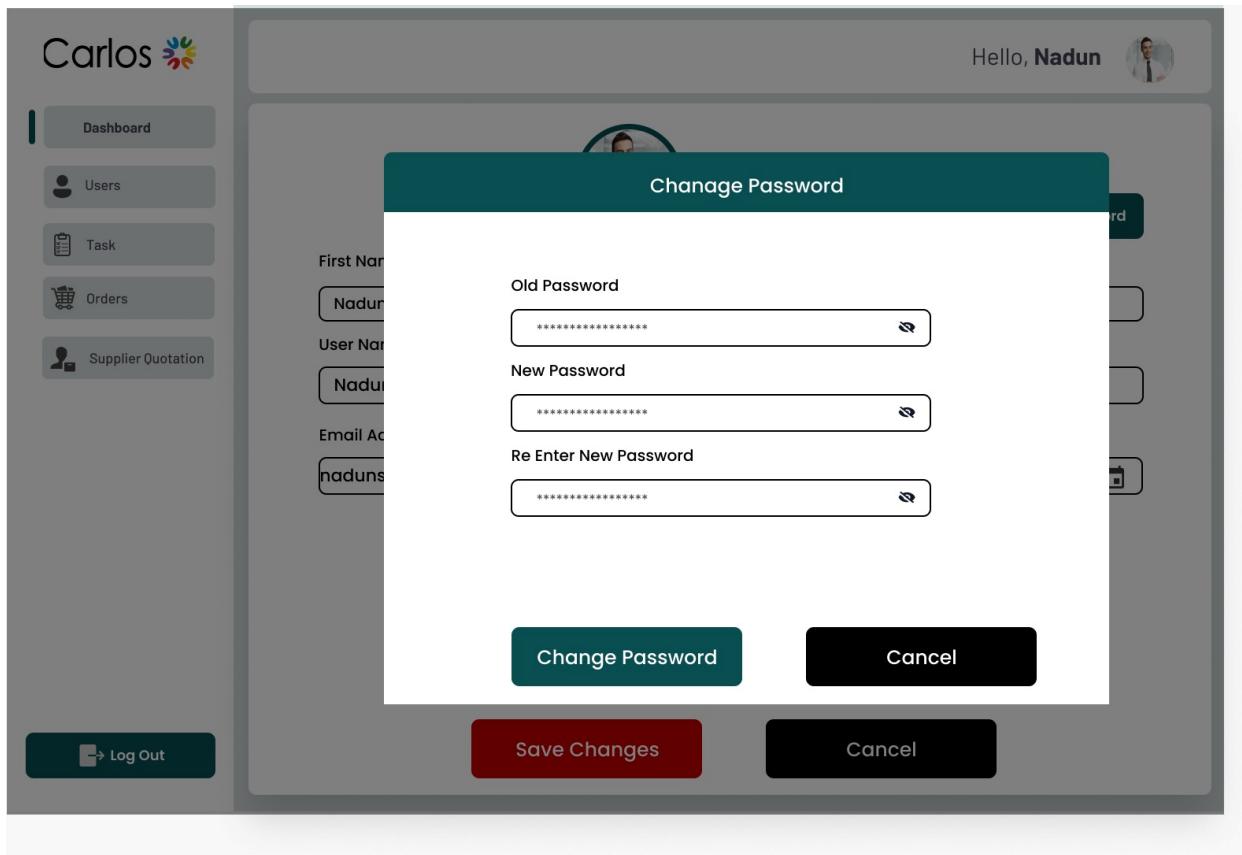
First Name	Nadun	Last Name	Sankalpa
User Name	Nadun8523	Address	225/maligawatta, colombo10.
Email Address	nadunsanjkalpa@gmail.com	Date Of Birth	10/01/1986

At the bottom of the profile form are two buttons: 'Save Changes' (red) and 'Cancel' (black). To the left of the main content area, there is a 'Log Out' button.

Interface number: 92

Interface name: Change password

Description: Factory Manager can change password.



Interface number: 93

Interface name: View task

Description: Factory Manager can view task.

The screenshot shows the Carlos application interface. On the left is a sidebar with navigation links: Dashboard, Users, Task (selected), Orders, and Supplier Quotation. A 'Log Out' button is at the bottom of the sidebar. The main area has a search bar and a greeting 'Hello, Nadun'. A summary box displays '15 Total Tasks'. Below it is a table titled 'Task Details' with columns: Task ID, Task Name, Department, Task Assign Date, and Actions. The table contains five rows of task data:

Task ID	Task Name	Department	Task Assign Date	Actions
T125	Production Target	Production Department	08/05/2024	
T124	Decreasing the damage	Finishing Department	14/04/2024	
T123	Efficiency	Stores	03/04/2024	
T122	Increasing Sales	Marketing	02/03/2024	

The screenshot shows a modal window titled 'Task Description' overlying the main application interface. The modal displays the details for Task ID T125. The task name is 'Production Target', assigned to 'Production Department' by 'T125' on '08/05/2024'. The description is: 'Production capacities, resource allocation, efficiency optimization, and schedule management to meet or exceed the defined targets.' A 'Cancel' button is at the bottom right of the modal.

Interface number: 94

Interface name: View order

Description: Factory Manager can view order.

The screenshot shows the Carlos application interface. On the left is a sidebar with a logo and five menu items: Dashboard, Users, Task, Orders (which is selected and highlighted in blue), and Supplier Quotation. The main area has a header with 'Hello, Nadun' and a profile picture. Below the header is a summary card showing a person icon, '130 Total Orders', and a search bar labeled 'Search Order Details' with a 'Sort by Name' button. The main content is a table titled 'Order Details' with the following data:

Order ID	Customer ID	Order Shipping Date	Fabric Colour	Print Colour	Size	Job No	Order Quantity	Order Status	Design Image	Created Date
01104	C105	04/10/2024	Black	White	M	002	5000	Approved		17/07/2023
01103	C104	04/08/2023	White	Black	L	002	5000	Pending		18/05/2023
01104	C103	14/05/2023	Blue	White	XL	002	5000	Approved		16/04/2023
01104	C102	12/04/2023	Red	Black	S	002	5000	Declined		08/03/2023
01104	C101	15/03/2023	White	White	XL	002	5000	Approved		18/02/2023

At the bottom left is a 'Log Out' button.

Interface number: 95

Interface name: View user

Description: Factory Manager can view user.

Carlos 

Hello, Nadun 

[Dashboard](#)

[Users](#)

[Task](#)

[Orders](#)

[Suppliers Quotation](#)

[Log Out](#)

**User Details**

Search Account Sort by Name

User ID	Dep ID	FName	LName	Password	Gender	Join Date	UName	Email	User Img	Address	DOB
U120	D001	Nishadi	Gamage	123456	Female	05/02/2023	nisuGamage	nishandi@gmail.com		9/18,seetha Rd,Matara.	01/12/99
U119	D002	Seetha	Silva	147258	Female	20/03/2023	seethaSilva	seetha@gmail.com		20 <sup>th</sup> lane, Gampaha.	08/01/97
U118	D003	Sithumini	Silva	123789	Female	15/02/2023	sithuSilva	sithu@gmail.com		20/2 Samagi Rd, Moratuwa	06/05/95
U117	D003	Senori	Fernando	456789	Female	09/04/2023	SenoriFer	senori@gmail.com		3 <sup>rd</sup> lane, Anuradhapura	15/06/98
U116	D004	Dunindu	Perera	963852	Male	20/08/2023	duninduPer e	dunindu@gmail.com		4 <sup>th</sup> lane, Seethawaka Rd, Jaffna.	20/12/92
U115	D006	Danuka	Jayakody	258963	Male	12/08/2023	danukajaye	danuka@gmail.com		6/B1, Gamage Rd, Kotte.	17/05/93
										100/1, Ganthawila Rd,	

Interface number: 96

Interface name: Create Supplier quotation.

Description: Factory Manager can create supplier quotation.

The screenshot shows the Carlos application interface. On the left is a sidebar with the following menu items:

- Dashboard
- Users
- Task
- Orders
- Supplier Quotation (selected)

On the right is the main content area. At the top right, it says "Hello, Nadun" with a profile picture. The main title is "Supplier Quotation". The form fields are as follows:

Supplier ID Enter Customer id	Order Name Enter Order id
Unit Price Enter Unit Price	Total Price Enter Total Price
Terms & Condition   	

At the bottom are two buttons: "Confirm" (red) and "Cancel" (black).

At the very bottom left of the main content area is a "Log Out" button.

Interface number: 97

Interface name: View supplier quotation and approve quotation.

Description: Factory manager can view supplier quotation.

The screenshot shows the Carlos application interface. On the left is a vertical sidebar with navigation links: Dashboard, Users, Task, Orders, and Supplier Quotation (which is currently selected). At the top right, it says "Hello, Nadun" and shows a user profile icon. The main content area has a dark teal header bar with the title "Supplier Quotations". Below this is a table titled "Supplier Quotations" with columns: Quotation ID, Supplier ID, Order Name, Status, Quotation Date, Total Price, and Actions. The table contains five rows of data:

Quotation ID	Supplier ID	Order Name	Status	Quotation Date	Total Price	Actions
SQI01	S015	Solvent Ink	● Selected	18/04/2024	Rs. 75000	[Edit]
SQI02	S014	Solvent Ink	● Approved	16/04/2024	Rs. 69000	[Edit]
SQI03	S013	Solvent Ink	● Selected	12/04/2024	Rs. 71000	[Edit]
SQI04	S012	Solvent Ink (Premium)	● Selected	05/04/2024	Rs. 78000	[Edit]
SQI05	S011	Solvent Ink	● Selected	01/04/2024	Rs. 68000	[Edit]

At the bottom left is a "Log Out" button.

This screenshot shows a modal dialog box over the Carlos application interface. The dialog has a dark teal header bar with the title "Supplier Quotation". Inside, it displays the details of a selected quotation: Supplier Name : Mega Trade, Supplier ID : S015, and Total Price : Rs. 75 000.00. At the bottom right are "Approve" and "Cancel" buttons. Below this, there is a table with columns: Material ID, Description, QYT, and Unit Price. It contains one row of data:

Material ID	Description	QYT	Unit Price
M01	Solvent Ink	50L	Rs. 5000

At the very bottom of the screen, the same table from the previous screenshot is visible, showing the same data for quotation SQI05.

Interface number: 98

Interface name: View purchase order.

Description: Factory manager can view purchase order.

The screenshot shows a software interface with a sidebar on the left and a main content area on the right.

**Left Sidebar:**

- Carlos
- Dashboard
- Users
- Task
- Orders
- Supplier Quotation

**Main Content Area:**

## Purchase Order

Purchase Order Details				
Purchase Order ID	Requested Materials	Purchase Order Status	Created Date	Actions
PO101	Solvent Ink, Water Base Ink , Packaging Materials	Active	16/04/2024	
PO102	Solvent Ink, Water Base Ink , Packaging Materials	Active	14/04/2024	
PO103	Solvent Ink, Water Base Ink , Packaging Materials	Active	10/04/2024	
PO104	Solvent Ink, Water Base Ink , Packaging Materials	Active	04/04/2024	
PO105	Solvent Ink, Water Base Ink , Packaging Materials	Active	29/03/2024	

**Top Right:** Hello, Nadun

**Bottom Left:** Log Out

### 4.3 Database Design

Table number: 01

Table name: user

Primary key: user\_id

Foreign key: department\_id

Attribute	Data type	Description	Data size
User_id	Text	Unique identifier for the users	6
Department_id	Text	Unique identifier for the department	6
First_name	Text	To store first name of user	20
Last_name	Text	To store last name of user	20
User_password	Text	To store password of user	12
User_gender	Text	To store gender of user	1
Username	Text	To store username of user	15
User_email	Text	To store email of user	30
House_no	Text	To store house number of user (address)	10
Street	Text	To store street of user (address)	10
City	Text	To store city of user (address)	10
User_image	Image	To store image of user	-
Dob	Date	To store date of birth of user	10
Created_date	Date	To store data entered date	10
Record size	160		

Table number: 02

Table name: department

Primary key: department\_id

Foreign key: s\_admin\_id

Attribute	Data type	Description	Data size
Department_id	Text	Unique identifier for the user department	6
S_admin_id	Text	To store who added the department	6
Name	Text	To store department name	20
Description	Text	To store department description	30
Created_date	Date	To store data entered date	10
Record size	72		

Table number: 03

Table name: system administrator

Primary key: s\_admin\_id

Foreign key: user\_id

Attribute	Data type	Description	Data size
S_admin_id	Text	Unique identifier for the system administrator	6
User_id	Text	Unique identifier for the users	6
Access_level	Text	To store access level	10
Record size	22		

Table number: 04

Table name: ceo

Primary key: ceo\_id

Foreign key : user\_id

Attribute	Data type	Description	Data size
Ceo_id	Text	Unique identifier for the ceo	6
User_id	Text	Unique identifier for the users	6
Ceo_phone	Text	To store land number of ceo	10
Record size	22		

Table number: 05

Table name: task

Primary key: task\_id

Foreign key: ceo\_id,department\_id

Attribute	Data type	Description	Data size
Task_id	Text	Unique identifier for tasks	6
Ceo_id	Text	To store who created the task	6
Task_name	Text	To store name of the task	20
Task_type	Text	To store type of the task	1
Created_date	Date	To store date of the task created	10
Description	Text	To store description of the tasks	30
Record size	73		

Table number: 06

Table name: factory manager

Primary key: fm\_id

foreign key: user\_id

Attribute	Data type	Description	Data size
Fm_id	Text	Unique identifier for the factory manager	6
User_id	Text	Unique identifier for the users	6
Production_capacity	Text	To store production capacity of factory manager	30
Record size	42		

Table number: 07

Table name: marketing manager

Primary key: mm\_id

Foreign key: user\_id, department\_id

Attribute	Data type	Description	Data size
Mm_id	Text	Unique identifier for the marketing manager	6
User_id	Text	Unique identifier for the users	6
Position	Text	To store position of marketing manager	30
Record size	42		

Table number: 08

Table name: registration coordinator

Primary key: registration\_id

Foreign key: user\_id

Attribute	Data type	Description	Data size
Registration_id	Text	Unique identifier for the registration coordinator	6
User_id	Text	Unique identifier for the users	6
User_approval	Text	To store user approval of customer administrator	10
Record size	22		

Table number: 09

Table name: customer

Primary key: customer\_id

Foreign key: Registration\_id

Attribute	Data type	Description	Data size
Customer_id	Text	Unique identifier for the customer	6
Registration_id	Text	Unique identifier for the Registration coordinator	6
Customer_name	Text	To store name of customer	20
Contact_details	Text	To store customer contact details	10
Comapny_no	Text	To store company number of customer (address)	7
Street	Text	To store street of customer (address)	10
City	Text	To store city of customer (address)	10
Email	Text	To store email address of the customer	20
Created_date	Date	To store data entered date	10
Record size		99	

Table number: 10

Table name: order

Primary key: order\_id

Foreign key: customer\_id, style\_id, mm\_id

Attribute	Data type	Description	Data size
Order_id	Text	Unique identifier for the order	6
Customer_id	Text	Unique identifier for the customer	6
Style_id	Text	Unique identifier for the style	6
Mm_id	Text	Unique identifier for the marketing manager	6
Order_shipping_date	Date	To store order shipping date	10
Order_status	Text	To store the order status	6
Order_sizes	Text	To store the order fabric sizes	8
Job_no	Text	To store job number	8
Order_quantity	Number	To store quantity of the order	8
Design_image	Image	To store image of design	-
Submission_date	Date	To store order submission date	10
Record size		74	

Table number: 11

Table name: registration coordinator has order

Primary key: registration\_id,order\_id

Foreign key: registration\_id,order\_id

Attribute	Data type	Description	Data size
Registration_id	Text	Unique identifier for the registration coordinator	6
Order_id	Text	Unique identifier for the order	6
Date	Text	To store a data entered date	10
Type	Text	To store an order type (like U, C)	1
Record size		23	

Table number: 12

Table name: customer order quotation

Primary key: cus\_quotation\_id

Foreign key: order\_id , registration\_id,mm\_id

Attribute	Data type	Description	Data size
Cus_quotation_id	Text	Unique identifier for the customer quotation	6
Order_id	Text	Unique identifier for the order	6
Registration_id	Text	Unique identifier for the registration coordinator	6
Mm_id	Text	Unique identifier for the marketing manager	6
Unit_price	Number	To store unit price of the order	7
Cus_quotation_date	Date	To store date of the order created	10
Created_date	Date	To store data entered date	10
Record size		51	

Table number :13

Table name: style

Primary key: style\_id

Foreign key: mm\_id

Attribute	Data type	Description	Data size
Style_id	Text	Unique identifier for the customer order style	6
Mm_id	Text	Unique identifier for the marketing manager	6
Table_no	Text	To store printing table number	5
Frame_no	Text	To store printing frame number	5
Shot_count	Number	To store printing shot count	7
Print_clear	Text	To store print clear name	7
Cut_panel	Text	To store the front or back panel	7
Fabric colour	Text	To store order fabric colour	7
Print_colour	Text	To store the print colour of the order	8
Created_date	Date	To store data entered date	10
Record size		68	

Table number: 14

Table name: production manager

Primary key: pm\_id

Foreign key: user\_id , department\_id

Attribute	Data type	Description	Data size
Pm_id	Text	Unique identifier for the production manager	6
User_id	Text	Unique identifier for the users	6
Department_id	Text	Unique identifier for the user department	6
Skills	Text	To store skills of production manager	10
Production_schedul e	Text	To store production_schedule of production manager	10
Record size		38	

Table number: 15

Table name: production process

Primary key: process\_id

Foreign key: pm\_id, order\_id

Attribute	Data type	Description	Data size
Process_id	Text	Unique identifier for the order status	6
Order_id	Text	Unique identifier for the order	6
Pm_id	Text	Unique identifier for the production manager	6
Created_date	Date	To store created date of the production process	10
Created_time	Time	To store created time of the production process	8
Target_quantity	Number	To store target quantity of the order	6
Completed_quantity	Number	To store completed quantity of the order	6
Record size		48	

Table number: 16

Table name: production material request

Primary key: production material\_id

Foreign key: pm\_id

Attribute	Data type	Description	Data size
Material_request_id	Text	Unique identifier for the material issued	6
Mm_id	Text	Unique identifier for the production manager	6
Material_name	Text	To store material name	10
Material_quantity	Text	To store quantity of the materials sent	6
Description	Text	To store description of the request materials	30
Record size		58	

Table number: 17

Table name: quality\_manager

Primary key: qm\_id

Foreign key: user\_id

Attribute	Data type	Description	Data size
Qm_id	Text	Unique identifier for the quality manager	6
User_id	Text	Unique identifier for the users	6
Check_quantity	Text	To store quantity of quality manager	10
Created_date	Text	To store data entered date	10
Record size		32	

Table number: 18

Table name: bundle

Primary key: bundle\_id

Foreign key: qm\_id,process\_id,bulk\_id

Attribute	Data type	Description	Data size
Bundle_id	Text	Unique identifier for the order bundle	6
Bulk_id	Text	Unique identifier for the bulk	6
Qm_id	Text	Unique identifier for the quality manager	6
Fabric_damage	Text	To store damaged fabric quantity	8
Printing_damage	Text	To store damaged printing quantity	8
Number_range	Number	To store number range of the bundle	15
Good_quantity	Text	To store good quantity of the bundle	8
Total_quantity	Number	To store total quantity r of the order	8
Created_date	Date	To store created date of the bundle	10
Record size		75	

Table number: 19

Table name: store manager

Primary key: sm\_id

Foreign key: user\_id

Attribute	Data type	Description	Data size
Sm_id	Text	Unique identifier for the store manager	6
User_id	Text	Unique identifier for the users	6
Inventory_manegmen t	Text	To store inventory management of store manager	20
Record size	32		

Table number: 20

Table name: stock

Primary key: stock\_id

Foreign key: production\_material\_issued,grn\_id

Attribute	Data type	Description	Data size
Stock_id	Text	Unique identifier for the stock	6
Grn_id	Text	Unique identifier for the grn	6
Material_issued_id	Text	Unique identifier for the material issued	6
Qty	Text	To store stock quantity	8
Unit_of_measure	Text	To store unite of measure	10
Created_date	Date	To store data entered date	10
Description	Text	To store description of the stock	30
Record size	76		

Table number : 21

Table name: production material\_issued

Primary key: material\_issued\_id

Foreign key:material\_request\_id,sm\_id

Attribute	Data type	Description	Data size
Material_issued_id	Text	Unique identifier for the material issued	6
Material_request_id	Text	Unique identifier for the material request	6
Sm_id	Text	Unique identifier for the store manager	6
Material_quantity	Text	To store quantity of the materials sent	7
Issued_date	Date	To store material issued date	10
Description	Text	To store description material issue	30
Record size	65		

Table number : 22

Table name: stock has production material\_issued

Primary key: material\_issued\_id, stock\_id

Foreign key: material\_request\_id, stock\_id

Attribute	Data type	Description	Data size
Material_issued_id	Text	Unique identifier for the material issued	6
Stock_id	Text	Unique identifier for the stock	6
Quantity	Text	To store quantity	7
Record size		19	

Table number: 23

Table name: bulk

Primary key: bulk\_id

Foreign key: order\_id, sm\_id

Attribute	Data type	Description	Data size
Bulk_id	Text	Unique identifier for the order bulk	6
Order_id	Text	Unique identifier for the order	6
Sm_id	Text	Unique identifier for the store manager	6
Bulk_type	Text	To store type of the bulk (like bi and bo)	2
Driver_name	Text	To store bulk delivery driver name	15
Vehicle_number	Text	To store bulk delivery driver vehicle number	8
Bulk_quantity	Number	To store quantity of the bulk	15
Created_date	Date	To store created date of the bulk	10
Record size		68	

Table number : 24

Table name: finance manager

Primary key: finance\_id

Foreign key : user\_id

Attribute	Data type	Description	Data size
Finance_id	Text	Unique identifier for the finance manager	6
User_id	Text	Unique identifier for the users	6
Manage_salary	Text	To store manage salary of finance manager	8
Record size		20	

Table number: 25

Table name: grn

Primary key: grn \_id

Foreign key : purchase\_order\_id,sm\_id,stock\_id

Attribute	Data type	Description	Data size
Grn _id	Text	Unique identifiers receive goods record	6
Purchase_order_id	Text	Unique identifiers purchase order record	6
Sm_id	Text	Unique identifiers purchase order record	6
Material_name	Text	To store material name	20
Material_quantity	Text	To store quantity of the inventory	7
Driver_name	Text	To store supplier driver name	15
Driver_vehicle_number	Text	To store supplier driver vehicle number	8
Vehicle_intime	Time	To store supplier marital receive time	8
Recived_date	Date	To store material received date	10
Record size		86	

Table number :26

Table name: payment

Primary key: payment\_id

Foreign key: order\_id, registration\_id

Attribute	Data type	Description	Data size
Payment_id	Text	Unique identifier for the payment	6
Order_id	Text	Unique identifier for the order	6
Registration_id	Text	Unique identifier for the registration_id	6
Payment_type	Text	To store payment type (like C, S)	1
Payment_date	Date	To store payment date of payment	10
Payment_time	Time	To store payment time of payment	8
Payment_amount	Number	To store amount of payment	7
Created_date	Date	To store created date of the bulk	10
Record size		54	

Table number: 27

Table name: supplier

Primary key: supplier\_id

Foreign key: registration\_id

Attribute	Data type	Description	Data size
Supplier_id	Text	Unique identifier for the supplier	6
Registration_id	Text	Unique identifier for the registration coordinator	6
Company_name	Text	To store supplier company name	10
Comapny_no	Text	To store company number of supplier (address)	10
Street	Text	To store street of supplier (address)	10
City	Text	To store city of supplier (address)	10
Supplier_email	Text	To store supplier email	20
Supplier_type	Text	To store supplier type (like r, m, w)	1
Created_date	Date	To store created date of the supplier	10
Record size		83	

Table number: 28

Table name: suppliers contact details.

Foreign key: supplier id

Attribute	Data type	Description	Data size
Supplier_id	Text	Unique identifier for the supplier	6
Supplier_contact_details	Text	To store supplier, contact details	10
Record size		16	

Table number :29

Table name: supplier quotation

Primary key: supplier\_quotation\_id

Foreign key: fm\_id,finance\_id, supplier\_id, purchase\_order\_id

Attribute	Data type	Description	Data size
Supplier_quotation_id	Text	Unique identifier for the supplier quotation	6
Supplier_id	Text	Unique identifier for the supplier	6
Fm_id	Text	Unique identifier for the factory manager	6
Finance_id	Text	Unique identifier for the finance manager	6
Sup_quotation_date	Date	To store date of the quotation created	10
Total_price	Number	To store total price of the order	7
Order_name	Text	To store order name	10
Status	Text	To store status (like P, A, R)	1
Created_date	Date	To store supplier quotation created date	10
Record size		62	

Table number: 30

Table name: purchase order

Primary key: purchase\_order\_id

Foreign key: sm\_id

Attribute	Data type	Description	Data size
Purchase_order_id	Text	Unique identifier for the purchase order	6
Sm_id	Date	Unique identifier for the store manager	6
Status	Text	To store status (like A, P, R)	1
Created_date	Date	To store created date of the purchase order	10
Record size		23	

Table number: 31

Table name: purchase order material request

Foreign key: purchase\_order\_id

Attribute	Data type	Description	Data size
Purchase_order_id	Text	Unique identifier for the supplier quotation	6
Material_request	Date	To store date of the quotation created	10
Record size	16		

#### 4.4 Report Layout Design

Report layout number:1

Report layout name: Expenses Report

Description: Includes all expense information for the selected month.

 <p><b>Carlos</b> EMBELLISHERS INNOVATIVE MINDS</p> <p><b>Carlos Embellishers</b> <b>(PVT) Ltd</b></p> <p>Dambuwa estate, Dadagamuwa, Veyangoda</p>																																																
				<b>Expense Report</b>																																												
				<b>Month:</b> March																																												
Strat date: 01/03/2024 End Date: 31/03/2024																																																
<table border="1"><thead><tr><th>Quotation id</th><th>Supplier Name</th><th>Material Name</th><th>Unit Price</th><th>Total Quantity</th><th>Total Price</th><th>Payment Date</th></tr></thead><tbody><tr><td>SQ080</td><td>Global Link</td><td>Pigman Black</td><td>Rs.5000</td><td>1000ml</td><td>Rs.5,000</td><td>04/03/2024</td></tr><tr><td>SQ081</td><td>Liquid House</td><td>Asian liquid</td><td>Rs.6000</td><td>2000l</td><td>Rs.12,000</td><td>08/03/2024</td></tr><tr><td>SQ082</td><td>Elite distributors</td><td>Laws</td><td>Rs.5500</td><td>6000ml</td><td>Rs.33,000</td><td>14/03/2024</td></tr><tr><td>SQ083</td><td>Atlas</td><td>Tape</td><td>Rs.200</td><td>75</td><td>Rs.15,000</td><td>21/03/2024</td></tr><tr><td>SQ084</td><td>Atlas</td><td>A4</td><td>Rs.10</td><td>1000</td><td>Rs.10,000</td><td>25/03/2024</td></tr></tbody></table>							Quotation id	Supplier Name	Material Name	Unit Price	Total Quantity	Total Price	Payment Date	SQ080	Global Link	Pigman Black	Rs.5000	1000ml	Rs.5,000	04/03/2024	SQ081	Liquid House	Asian liquid	Rs.6000	2000l	Rs.12,000	08/03/2024	SQ082	Elite distributors	Laws	Rs.5500	6000ml	Rs.33,000	14/03/2024	SQ083	Atlas	Tape	Rs.200	75	Rs.15,000	21/03/2024	SQ084	Atlas	A4	Rs.10	1000	Rs.10,000	25/03/2024
Quotation id	Supplier Name	Material Name	Unit Price	Total Quantity	Total Price	Payment Date																																										
SQ080	Global Link	Pigman Black	Rs.5000	1000ml	Rs.5,000	04/03/2024																																										
SQ081	Liquid House	Asian liquid	Rs.6000	2000l	Rs.12,000	08/03/2024																																										
SQ082	Elite distributors	Laws	Rs.5500	6000ml	Rs.33,000	14/03/2024																																										
SQ083	Atlas	Tape	Rs.200	75	Rs.15,000	21/03/2024																																										
SQ084	Atlas	A4	Rs.10	1000	Rs.10,000	25/03/2024																																										
<b>Total expenses – RS. 75 000</b>																																																
Carlos Embellishers (PVT) Ltd																																																

Report layout number:2

Report layout name: Income Report

Description: Includes all income information of the orders for the selected month.

 <b>Carlos</b> EMBELLISHERS INNOVATIVE MINDS	<b>Carlos Embellishers</b> <b>(PVT) Ltd</b> <b>Dambuwa estate, Dadagamuwa,</b> <b>Veyangoda</b>	<b>Income Report</b> <b>Month: March</b>																																				
		Strat date: 01/03/2024 End Date: 31/03/2024																																				
<table border="1"><thead><tr><th>Order ID</th><th>Customer Name</th><th>Unit Price</th><th>QYT</th><th>Total Price</th><th>Payment Date</th></tr></thead><tbody><tr><td>O1097</td><td>Jay Jay Mils</td><td>Rs.500</td><td>5000</td><td>RS.2 500 000</td><td>08/03/2023</td></tr><tr><td>O1098</td><td>Hela Naula</td><td>RS.600</td><td>3000</td><td>Rs.1 800 000</td><td>15/03/2024</td></tr><tr><td>O1099</td><td>Mas Active</td><td>RS.550</td><td>9000</td><td>RS.4 950 000</td><td>17/03/2024</td></tr><tr><td>O1100</td><td>Mas Kreeda</td><td>Rs.400</td><td>10000</td><td>RS.4 000 000</td><td>20/03/2024</td></tr><tr><td>O1101</td><td>Emjay Penguin</td><td>RS.500</td><td>1500</td><td>RS.750 000</td><td>23/03/2024</td></tr></tbody></table>			Order ID	Customer Name	Unit Price	QYT	Total Price	Payment Date	O1097	Jay Jay Mils	Rs.500	5000	RS.2 500 000	08/03/2023	O1098	Hela Naula	RS.600	3000	Rs.1 800 000	15/03/2024	O1099	Mas Active	RS.550	9000	RS.4 950 000	17/03/2024	O1100	Mas Kreeda	Rs.400	10000	RS.4 000 000	20/03/2024	O1101	Emjay Penguin	RS.500	1500	RS.750 000	23/03/2024
Order ID	Customer Name	Unit Price	QYT	Total Price	Payment Date																																	
O1097	Jay Jay Mils	Rs.500	5000	RS.2 500 000	08/03/2023																																	
O1098	Hela Naula	RS.600	3000	Rs.1 800 000	15/03/2024																																	
O1099	Mas Active	RS.550	9000	RS.4 950 000	17/03/2024																																	
O1100	Mas Kreeda	Rs.400	10000	RS.4 000 000	20/03/2024																																	
O1101	Emjay Penguin	RS.500	1500	RS.750 000	23/03/2024																																	
<b>Total Income – RS.14 000 000</b>																																						
Carlos Embellishers (PVT) Ltd																																						

Report layout number:3

Report layout name: Production Report

Description: Includes all production information for the selected month.



**Carlos Embellishers  
(PVT)Ltd**

Dambuwa estate, Dadagamuwa,  
Veyangoda

**Production Report**

**Month: April**

Strat date: 01/04/2024 End Date: 31/04/2024

Process ID	Order ID	Style ID	Target Quantity	Rest Of Quantity	Completed Quantity	Date
PR001	O1104	ST1104	1000	200	800	12/04/2023
PR002	O1103	ST1103	3000	300	2700	15/04/2023
PR003	O1101	ST1102	2800	100	2700	18/04/2023
PR004	O1100	ST1101	5000	500	4500	20/04/2023

**Total completed Quantity - 10 100**

**Carlos Embellishers (PVT) Ltd**

Report layout number:4

Report layout name: Sales Report

Description: Includes all sales information for the selected month.



**Carlos Embellishers  
(PVT)Ltd**

Dambuwa estate, Dadagamuwa,  
Veyangoda

**Sales Report**

**Month:** April

Strat date: 01/04/2024 End Date: 31/04/2024

Customer ID	Order ID	Style ID	Job Number	Print Color	Fabric Color	Qty	Unit Price	Created Date
C105	O1104	ST1104	002	White	Black	5000	RS.500	25/04/2024
C104	O1103	ST1103	003	Black	White	9000	RS.600	20/04/2024
C103	O1102	ST1102	004	White	Navy Blue	4000	RS.550	10/04/2024
C102	O1101	ST1101	005	Black	Bright White	3000	RS.400	04/04/2024
C101	O1100	ST1100	006	White	Cherry Red	6000	RS.500	02/04/2024

**Total Oders – 05**

**Carlos Embellishers (PVT) Ltd**

Report layout number:5

Report layout name: Stores Report

Description: Includes all store information for the selected month.



**Carlos Embellishers  
(PVT)Ltd**

Dambuwa estate, Dadagamuwa,  
Veyangoda

**Store Report**

**Month: April**

Start date: 01/04/2024 End Date: 31/04/2024

Bulk ID	Order ID	Bundle ID	Bulk type	Bulk Quantity	Date
BU001	O1104	B001	BI	1000	25/04/2023
BU002	O1103	B002	BO	2000	22/04/2023
BU003	O1101	B003	BI	5000	10/04/2023
BU004	O1100	B004	BO	8000	02/04/2023

**Total Bulk in – 6000      Total Bulk Out – 10 000**

**Carlos Embellishers (PVT) Ltd**

Report layout number:6

Report layout name: Finishing Report

Description: Includes all Finishing information for the selected month.

 <b>Carlos EMBELLISHERS INNOVATIVE MINDS</b>	<b>Carlos Embellishers (PVT)Ltd</b>	<b>Finishing Report</b>																																						
		<b>Month: April</b>																																						
<b>Dambuwa estate, Dadagamuwa, Veyangoda</b>																																								
Strat date: 01/04/2024 End Date: 31/04/2024																																								
<table border="1"><thead><tr><th>Bundle ID</th><th>Order ID</th><th>Style ID</th><th>Printing Damage</th><th>Good Quantity</th><th>Fabric Damage</th><th>Completed Quantity</th><th>Date</th></tr></thead><tbody><tr><td>B001</td><td>O1104</td><td>ST1104</td><td>3</td><td>95</td><td>2</td><td>100</td><td>20/04/2023</td></tr><tr><td>B002</td><td>O1103</td><td>ST1103</td><td>0</td><td>99</td><td>1</td><td>100</td><td>15/04/2023</td></tr><tr><td>B003</td><td>O1101</td><td>ST1102</td><td>5</td><td>95</td><td>0</td><td>100</td><td>10/04/2023</td></tr><tr><td>B004</td><td>O1100</td><td>ST1101</td><td>10</td><td>90</td><td>0</td><td>100</td><td>02/04/2023</td></tr></tbody></table>	Bundle ID	Order ID	Style ID	Printing Damage	Good Quantity	Fabric Damage	Completed Quantity	Date	B001	O1104	ST1104	3	95	2	100	20/04/2023	B002	O1103	ST1103	0	99	1	100	15/04/2023	B003	O1101	ST1102	5	95	0	100	10/04/2023	B004	O1100	ST1101	10	90	0	100	02/04/2023
Bundle ID	Order ID	Style ID	Printing Damage	Good Quantity	Fabric Damage	Completed Quantity	Date																																	
B001	O1104	ST1104	3	95	2	100	20/04/2023																																	
B002	O1103	ST1103	0	99	1	100	15/04/2023																																	
B003	O1101	ST1102	5	95	0	100	10/04/2023																																	
B004	O1100	ST1101	10	90	0	100	02/04/2023																																	
<b>Total Damages - 21</b>																																								
Carlos Embellishers (PVT) Ltd																																								

## **Chapter 05: Conclusion**

In conclusion this proposed solution were developed for apparel printing company which have used a manual system and having problem in maintaining and handling. Our team was tasked to develop an operational solution to overcome this problem and make the process easier. We were able to gather all necessary resources from the company via a meeting. The methods and the required cases were then carried out and we were able to design an efficient interface which would enhance the experience for the company users. With these solutions we were able to overcome the current challenges of the company and also, we were successfully able to implement a good software solution for them.

In summary our software solution provides more accurate and convenient for the staff of the company. Finally, we were able to successfully complete the software solution and this solution would suit to be used by the company.

## **Reference**

1. GURU99 (2022) Entity Relationship (ER) Diagram Model with DBMS Example. [Online] Available from <<https://www.guru99.com/er-diagram-tutorial-dbms.html>> [18th November 2022]
2. GeeksForGeeks (2022) Unified Modeling Language (UML) | Sequence Diagrams. [Online] Available from <<https://www.geeksforgeeks.org/unified-modeling-language-uml-sequence-diagrams/>> [11th October 2022]

## Appendices



December 27, 2023

Course Director,  
School Of Computing & Engineering,  
National Institute of Business Management,  
Colombo 07.

Dear Sir,

Software Development Project – Carlos Embellishers

This letter is to inform you to confirm the recent visit of the following students from (NIBM) to our office premises to discuss in detail an upcoming software development project aimed at digitizing specific manual processes within our company.

1. A. A. Kudagodage – CODCSD231F – 003
2. A. P. G. D. C. Wijerathna – CODCSD231F- 004
3. N. B. U. Samansiri – CODCSD231F- 006
4. S. M. D. D. Wickramasinghe – CODCSD231F – 011

Kind Regards,  
Yours Sincerely,

A handwritten signature in black ink, appearing to read "Rajesh".

Human Resource Manager  
Carlos Embellishers (PVT) Ltd  
No 21/107, Temple Road,  
Dadagamuwa, Veyangoda.

**LOG SHEET**

Meeting Date	Student Indexes (Participated)	Supervisor Comments	Signature of the supervisor
03/07/2024	C00CS0231F-003 C00CS0231F-004 C00CS0231F-006 C00CS0231F-011	Improve proposal by replacing functional and non-functional req. Next meeting use case, class, Seq.	{ JLR }
03/09/2024	C00CS0231F-003 C00CS0231F-004 C00CS0231F-006 C00CS0231F-011	Seq. ER diagrams required checked use case, and ER. ER wrong. Next meeting Class, Seq.	{ JLR }
04/01/2024	C00CS0231F-003 C00CS0231F-004 C00CS0231F-006 C00CS0231F-011	ER, File design. * checked use case, class and ER and Seq. diagram. → Need improvement to diagrams. Next meeting complete Screen design, report layouts, msg Boxes.	{ JLR }