

# **Software Requirements Specification**

**for**

**Sale Dock**

**Version 1.0**

**Created at 02/01/2024**

**Prepared by Group 1 - SE170C2**

**FPT Quy Nhon AI Campus**

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## Revision History

Version	Date	A, M, D	Assignee	Change Description
0.1	11/01/2024	A	VuongLM	Write base for SRS Document
0.2	14/01/2024	A	NghiaHT	Draw ERD and write Entities description
0.3	14/01/2024	A	ChuongDQ	Write SRS - II.4 - Customer Management Screen
0.4	14/01/2024	A	NghiaHT	Write SRS - II.1 - Login Screen
0.5	14/01/2024	A	LinhLM	Write SRS - II.2 Forgot Password Screen
0.6	14/01/2024	A	ThuyNT	Write SRS - II.5 - Product Management Screen
0.7	14/01/2024	A	ThuyNT	Write SRS - II.6 - Order Management Screen
0.8	15/01/2024	A	SonNT	Write SRS - II.2 DashBoard Screen
0.9	14/03/2024	A	NghiaHT	Write Message Table
0.10	14/03/2024	M	ThuyNT	Modified name of Normal Flow and Exceptions
0.11	14/03/2024	M	NghiaHT	Modified UC-E-3-2
0.12	14/03/2024	M	ChuongDQ	Modified Business Rule Table
0.13	14/03/2024	M	LinhLM	Modified Business Rule Table
0.14	14/03/2024	A	ChuongDQ	Added Business Rule for UC in Functional Requirements
0.15	17/03/2024	D, A, M	NghiaHT	<ul style="list-style-type: none"> <li>Delete old diagram in UC-E-3-2.</li> <li>Add new diagrams for UC-E-3-2.</li> <li>Modified UC-E-3-2 (Normal Flow, Alternative Flow, Exception).</li> </ul>
0.16	17/03/2024	M	NghiaHT	Change BR-22.
0.17	17/03/2024	D, A, M	NghiaHT	<ul style="list-style-type: none"> <li>Delete old diagrams in UC-E-4-1 and UC-E-4-2.</li> <li>Add new diagrams for UC-E-4-1 and UC-E-4-2.</li> <li>Modified UC-E-4-1 and UC-E-4-2 (Normal</li> </ul>

SWP391 - Group 1 - SRS Document

Final version 1.0

## Software Requirements Specification - Sale Dock

Version	Date	A, M, D	Assignee	Change Description
				Flow, Alternative Flow, Exception).
0.18	21/03/2024	M	NghiaHT	Modified non-functional requirements.

**\*A - Added, M - Modified, D - Deleted**

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# I. Overview

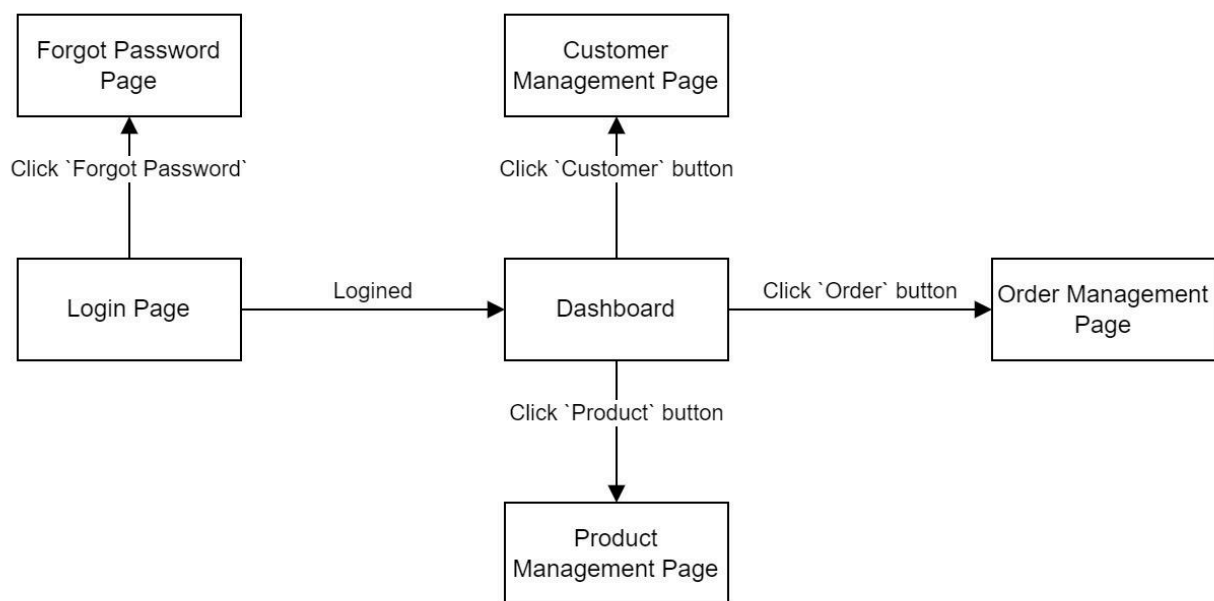
## 1. Introduction

*Welcome to Sale Dock, a core module in our ERP system, delivering streamlined sales processes. Boasting product, customer, and order management functionalities, Sale Dock ensures precision and efficiency. Tailor your sales workflows with ease, navigating the complexities of enterprise resource planning effortlessly for enhanced business performance and growth.*

## 2. System Functions

### a. Screen Flow

*This part shows the system screens and the relationship among screens. You can draw the Screens Flow for the system in the form of a diagram as below.*



**b. Screen Details**

*This part shows the description of each screen.*

#	Screen	Description
1	Login Page	Display login screen and validate the enter credentials
2	Forgot Password Page	Display forgot password and change password according Employees requirement
3	Dashboard	Display the overview of statistics of an logged Employees
4	Customer Management Page	Provide a screen to list all customers, add a customer, modify customer and delete customer.
5	Product Management Page	Provide a screen to list all products, add a product, modify product and delete product.
6	Order Management Page	Provide a screen to list all orders, add an order, change status of order.

**c. User Authorization**

*This part shows who can access each screen.*

#	Screen	Guest	Employees
1	Login Page	X	X
2	Forgot Password Page	X	X
3	Dashboard		X
4	Customer Management Page		X
5	Product Management Page		X
6	Order Management Page		X



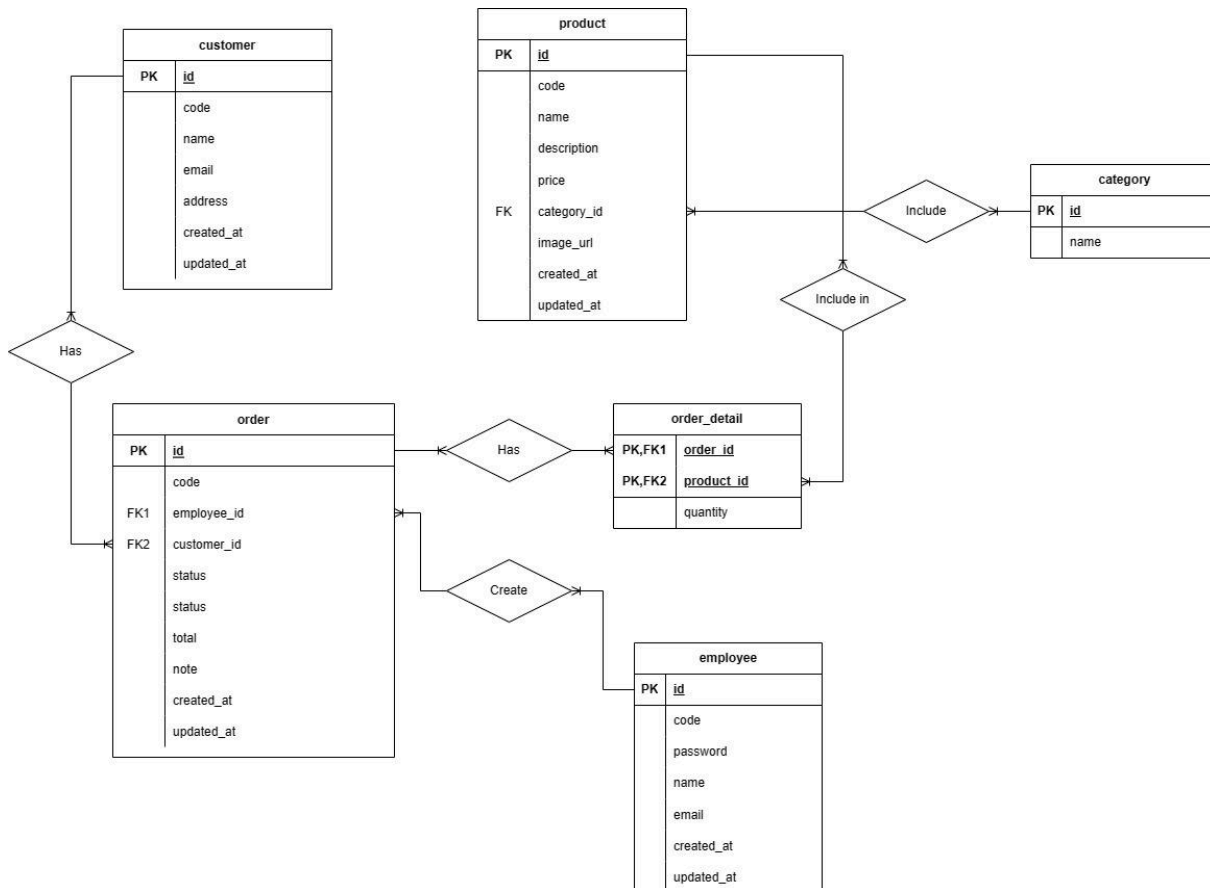
#### d. Non-Screen Functions

This part shows non-screen functions and its description.

#	Feature	Function	Description
1	Customer Management	Export Customer List	Download a Excel file that contains all customers in system
2	Product Management	Export Product List	Download a Excel file that contains all products in system
3	Order Management	Export Order Detail	Download a Excel file that contain an order detail

### 3. Entity Relationship Diagram

This part shows ERD and each entity description.



#### Entities Description

#	Entity	Description
1	customer	The person who buys the product
2	order	Created when a customer purchases a product
3	order_detail	Details of the order
4	employee	Employee in the company and who creates invoices and manages products
5	product	Products are in stock

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#	Entity	Description
6	category	Category of product

## II. Overall Description

### 1. User Classes and Their Use Cases

#### a. Employee

An employee is someone who manages customers, products and orders in the Sale Dock. Use cases:

Feature	Use case	ID use case
<b>Manage customer</b>	View all customers	UC-E-1-1
	Add new customer	UC-E-1-2
	View detail a customer	UC-E-1-3
	Update a customer	UC-E-1-4
<b>Manage product</b>	View all products	UC-E-2-1
	Add new product	UC-E-2-2
	View detail a product	UC-E-2-3
	Update a customer	UC-E-2-4
<b>Manage order</b>	View all orders	UC-E-3-1
	Add new order	UC-E-3-2
	View detail a order	UC-E-3-3
	Update a order	UC-E-3-4
<b>Others</b>	Login	UC-E-4-1
	Forgot password	UC-E-4-2
	Dashboard	UC-E-4-3

## 2. Operating Environment

Sale Dock shall be compatible with standard web browsers on Windows, Mac, and Web-enabled smartphone platforms. Supported browsers are Internet Explorer 5, 6, 7, and 8; Firefox 2 and 3; Opera 10 and 11; Google Chrome 10 and later.

## 3. Message Table

ID	Message
MS1	Vui lòng đăng nhập để truy cập.
MS2	Vui lòng nhập mã nhân viên!
MS3	Vui lòng nhập mật khẩu!
MS4	Mật khẩu phải có ít nhất 5 kí tự!
MS5	Mã nhân viên hoặc mật khẩu không chính xác!
MS6	Lỗi: Không thể hoàn thành hành động được yêu cầu.
MS7	Tài khoản không tồn tại. Vui lòng sử dụng một địa chỉ email khác.
MS8	Vui lòng nhập email nhân viên!
MS9	Vui lòng nhập đúng kiểu email! Ví dụ: abc@gmail.com...
MS10	Vui lòng nhập mã OTP!
MS11	Mã OTP đã được gửi. Vui lòng kiểm tra email của bạn.
MS12	Mã OTP của bạn không chính xác. Vui lòng kiểm tra và nhập lại!
MS13	Mã OTP hợp lệ. Hãy thay đổi mật khẩu của bạn.
MS14	Vui lòng nhập lại mật khẩu!
MS15	Mật khẩu nhập lại không chính xác. Vui lòng nhập lại!
MS16	Mật khẩu nhập lại không chính xác!
MS17	Thay đổi mật khẩu thành công.
MS18	Vui lòng nhập tên khách hàng!

ID	Message
MS19	Vui lòng nhập tên sản phẩm!
MS20	Thêm sản phẩm thành công.
MS21	Xóa sản phẩm thành công.
MS22	Chưa có sản phẩm nào được thêm. Vui lòng thêm sản phẩm vào đơn hàng.
MS23	Sản phẩm không tồn tại. Vui lòng kiểm tra lại thông tin sản phẩm.
MS24	Người dùng không tồn tại. Vui lòng kiểm tra lại.
MS25	Chưa nhập tên sản phẩm. Vui lòng kiểm tra lại.
MS26	Chưa nhập số lượng sản phẩm. Vui lòng kiểm tra lại.
MS27	Nhập sai định dạng số lượng sản phẩm. Vui lòng kiểm tra lại.
MS28	Số lượng sản phẩm phải lớn hơn 0. Vui lòng kiểm tra lại.
MS29	Tên người dùng bị trống. Vui lòng kiểm tra và nhập vào.
MS30	Thêm đơn hàng thành công.
MS31	Vui lòng nhập Giá sản phẩm.

## 4. Business Rule

ID	Rule definition	Type of rule	Static or Dynamic
BR-1	Customer ID must be unique	Fact	Static
BR-2	Customer code must be from 5 to 50 characters	Constraint	Static
BR-3	Customer name must be from 10 to 255 characters	Constraint	Static
BR-4	Customer email must be email valid format	Constraint	Static
BR-5	Address must be from 10 to 255 characters	Constraint	Static
BR-6	Update information across all relevant systems in real-time	Action enabler	Dynamic
BR-7	Order ID must be unique	Fact	Static
BR-8	The quantity of each order detail must be greater than 0 and must be an integer	Constraint	Static
BR-9	Employee ID must be unique	Fact	Static
BR-10	Employee name must be from 10 to 255 characters	Constraint	Static
BR-11	Employee email must be in a valid email format	Constraint	Static
BR-12	Product ID must be unique	Fact	Static
BR-13	Product name must be from 10 to 255 characters	Constraint	Static
BR-14	Product price must be greater than 0 and must be an integer	Constraint	Static
BR-15	Each product must be associated with a valid category ID	Constraint	Static
BR-16	Category ID must be unique	Fact	Static
BR-17	Category name must be from 5 to 100 characters	Constraint	Static
BR-18	Order total must be greater than 0 and must be an integer	Constraint	Static
BR-19	Order create-at must be taken in real time with format: hour:minute:second day/month/year	Action enabler	Static

ID	Rule definition	Type of rule	Static or Dynamic
BR-1	Customer ID must be unique	Fact	Static
BR-20	When order status is DONE or CANCELLED, it can not update.	Constraint	Static
BR-21	Employee code must has 6 characters (include 2 uppercase letter and 4 numbers)	Constraint	Static
BR-22	Employee password must have at least 5 characters.	Constraint	Static
BR-23	All the above information on the chart must be updated in real time	Action enabler	Dynamic
BR-24	There must be a quick response time, without too much delay, so that users can interact effectively.	Action enabler	Dynamic

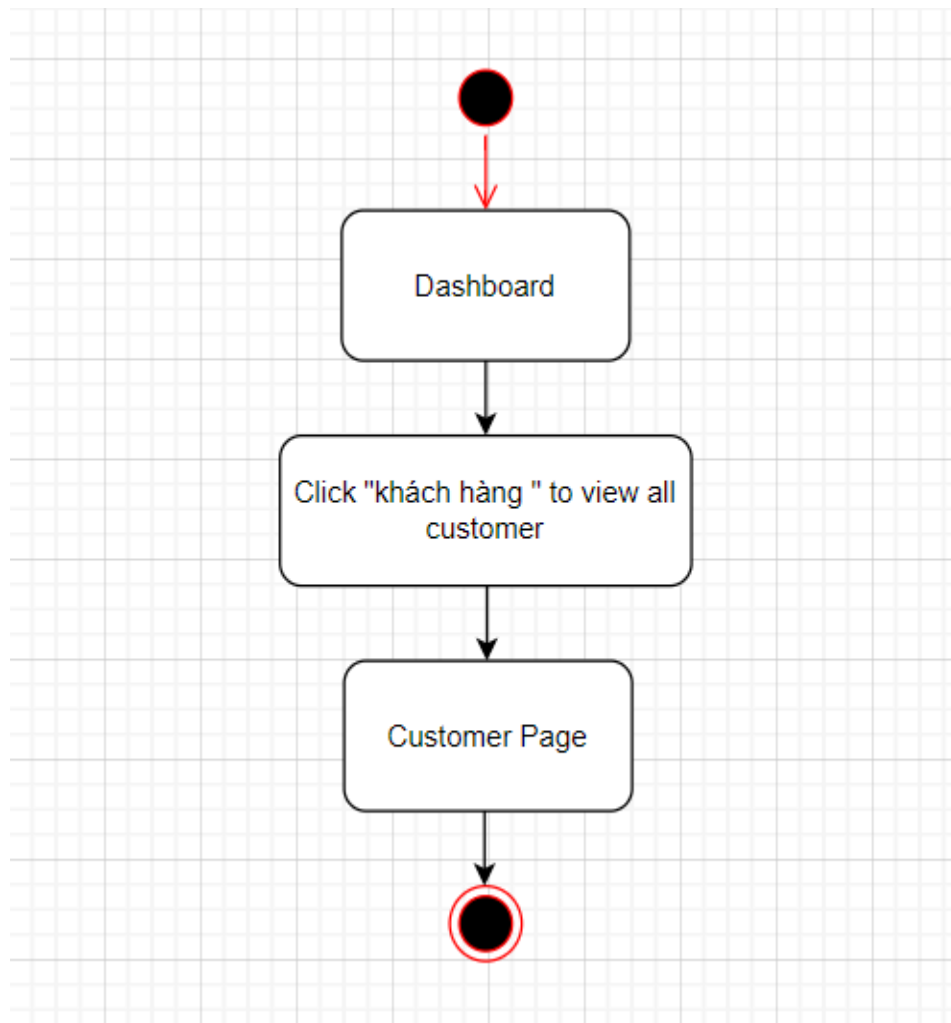


### III. Functional Requirements

#### 1. Manage customer

##### a. UC-E-1-1: View all customers

Diagram:



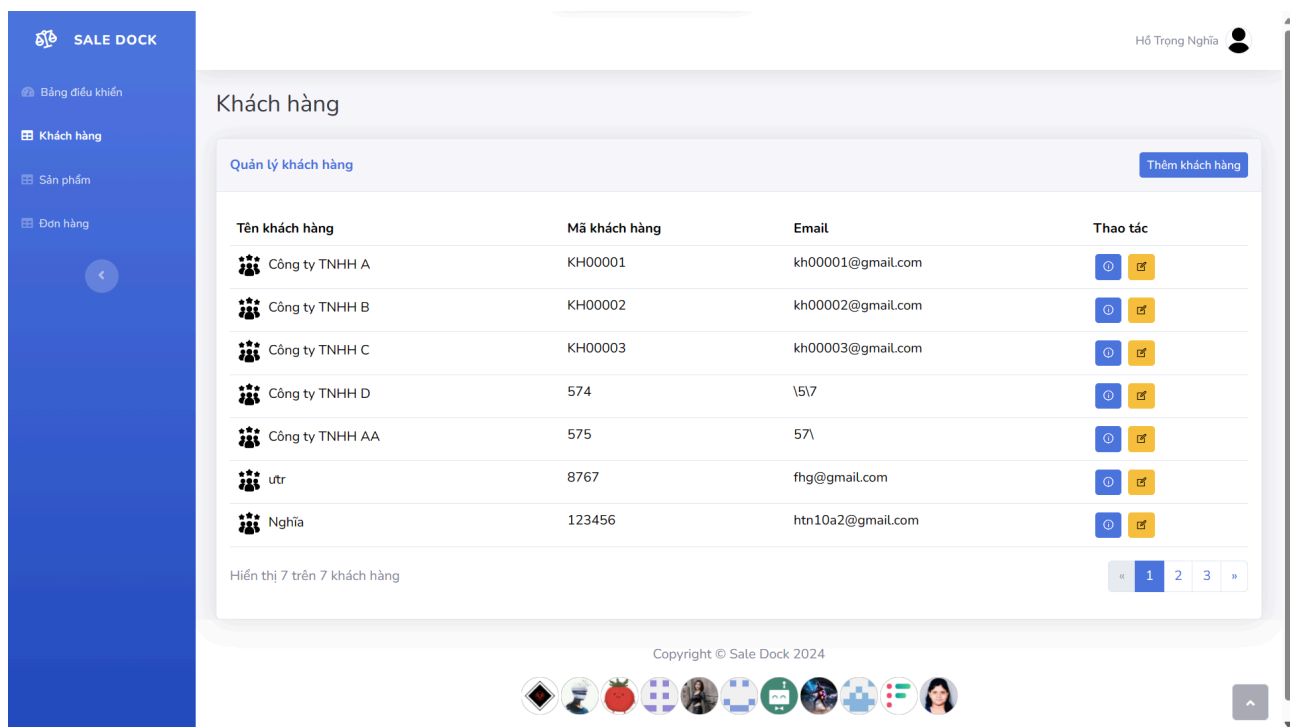
UC-E-1-1 : Diagram 1 : View all customer

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ID and Name	UC-E-1-1: View all customers		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to view all customers in the system.		
Trigger	An employee wants to view all customers and click the `Khách hàng` button.		
Preconditions	PRE-1. Employees must be logged into the Sale Dock System. PRE-2. There are already customers in the database.		
Postconditions	POST-1. Data Displayed: All customer information is correctly displayed.		
Normal Flow	<b>NF-1. View all customers</b> 1. Click `Khách hàng` button.		
Alternative Flow	<b>N/A</b>		
Exceptions	<b>E-1. Database connection failure</b> 1. The SALE DOCK System generates an exception indicating the database connection failure. 2. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.		
Priority	High		
Frequency of Use	Approximately 10 employees, each one average of 20 usage per day.		
Business Rules	BR-1 -> 5		

### Screenshot:

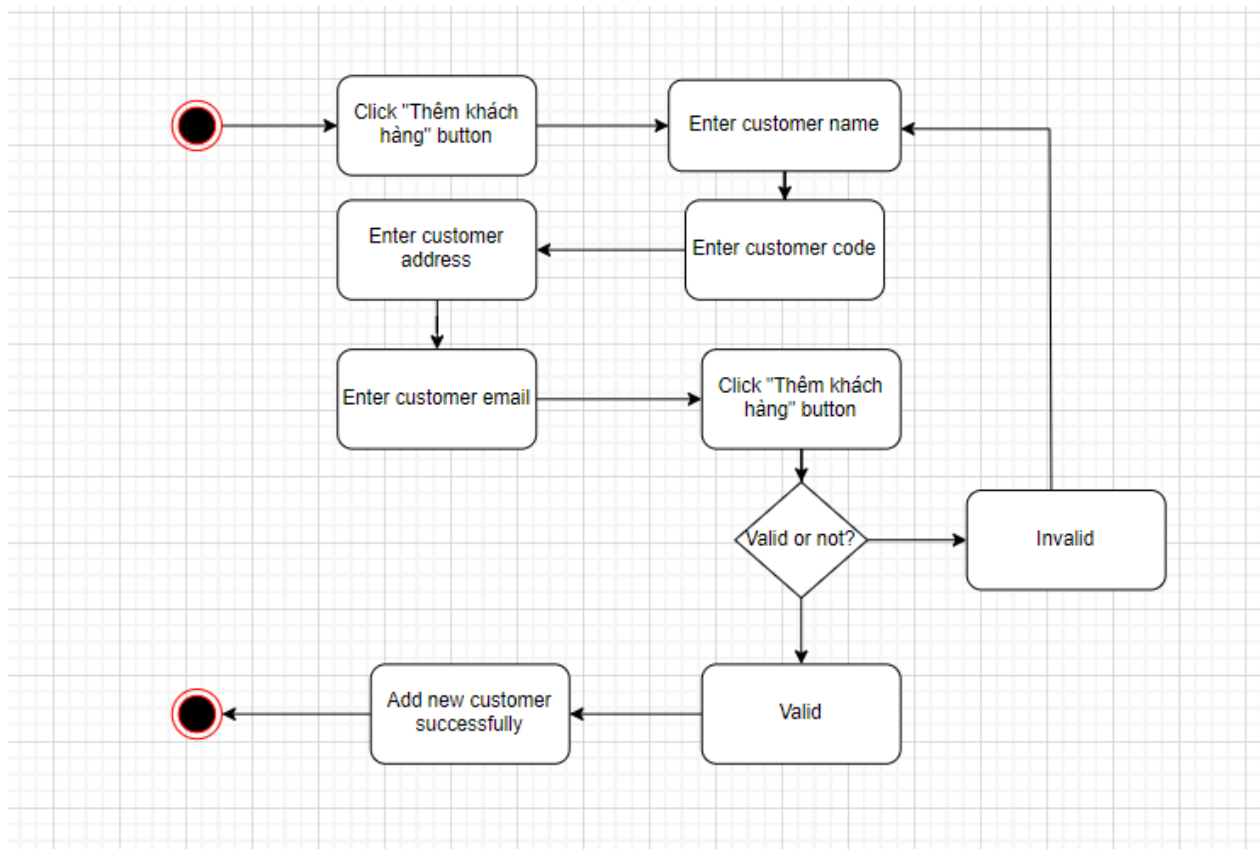
## Software Requirements Specification - Sale Dock



UC-E-1-1 : Screenshot 1 : View all customer

### b. UC-E-1-2: Add new customer

Diagram:

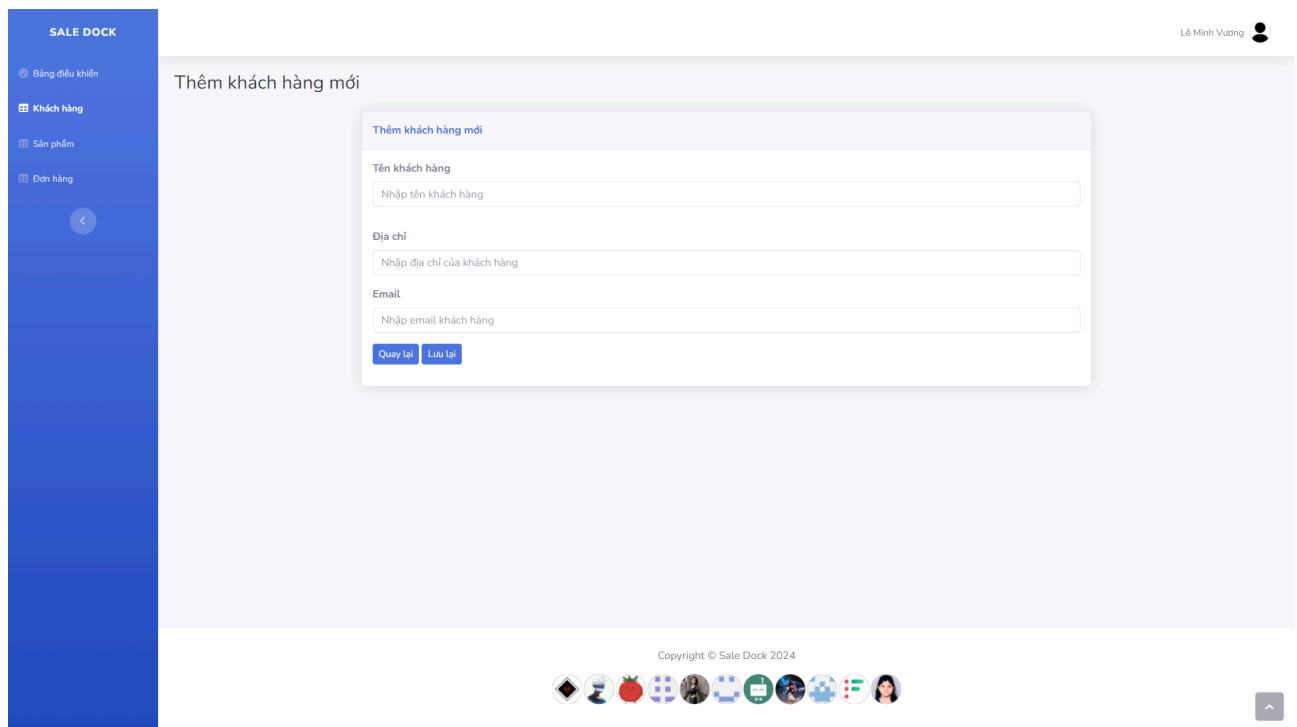


UC-E-1-2 : Diagram 1 : Add new customer

ID and Name	UC-E-1-2: Add new customer		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to add a new customer to the system.		
Trigger	An employee wants to create a new customer and click the `Thêm khách hàng` button.		
Preconditions	PRE-1. Employees must be logged into the Sale Dock System. PRE-2. This customer does not exist in the database yet.		
Postconditions	POST-1. The SALE DOCK system creates a new customer and customer		

	<p>details in the database.</p> <p>POST-2. New customers after creation will be displayed in the customers list.</p> <p>POST-3. There is a notification displayed on the website to let the Employee know that the customer has been successfully created.</p>
Normal Flow	<p><b>NF-1. Add a new customer</b></p> <ol style="list-style-type: none"> <li>1. Click `Thêm khách hàng` button.</li> <li>2. Enter the customer's name.</li> <li>3. Enter the customer's code.</li> <li>4. Enter the customer's address.</li> <li>5. Enter the customer's email.</li> <li>6. Click `Lưu lại` button.</li> </ol>
Alternative Flow	<b>N/A</b>
Exceptions	<p><b>E-1. E1 Database connection failure</b></p> <ol style="list-style-type: none"> <li>1. The SALE DOCK System generates an exception indicating the database connection failure.</li> <li>2. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.</li> </ol>
Priority	High
Frequency of Use	Approximately 10 employees, each one average of 20 usage per day.
Business Rules	BR-1 -> 5

**Screenshot:**



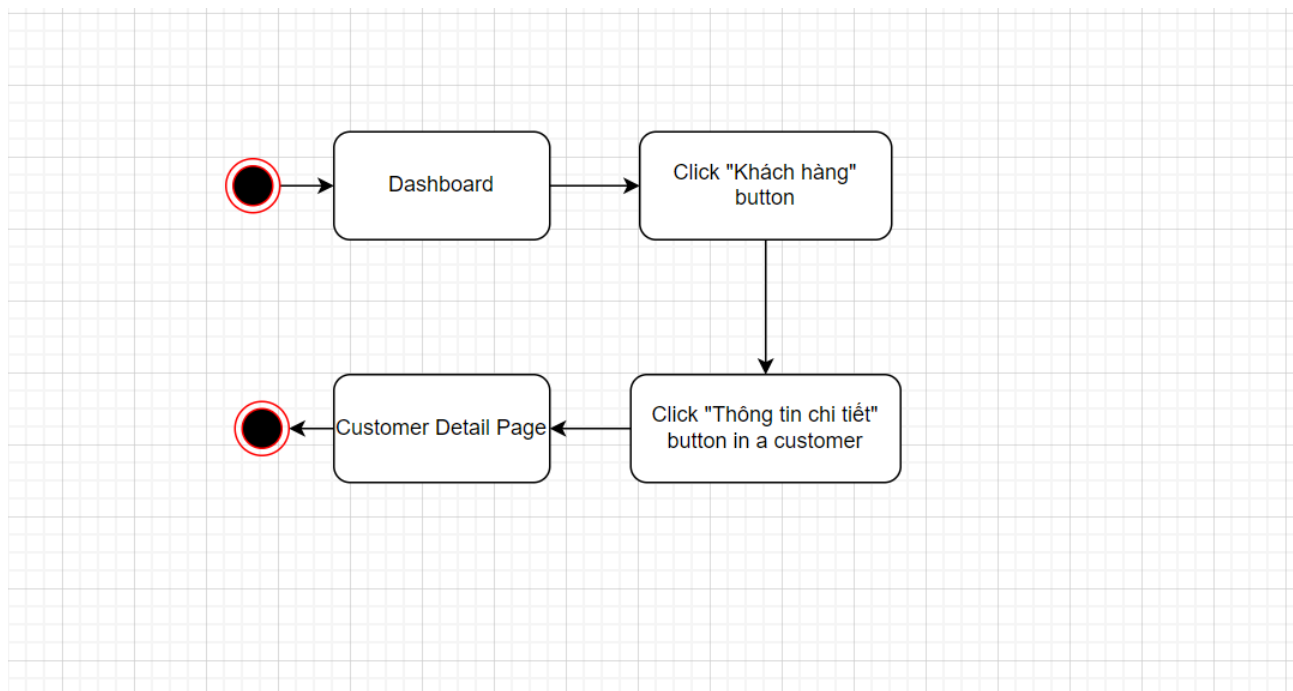
UC-E-1-2 : Screenshot 1 : Add new customer

## c. UC-E-1-3: View detail a customer

ID and Name	UC-E-1-3: View detail a customer		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to view details of a customer in the system.		
Trigger	An employee wants to view details of a customer and click the `Thông tin chi tiết` button.		
Preconditions	PRE-1. Employees must be logged into the Sale Dock System. PRE-2. There is already this customer in the database.		
Postconditions	POST-1. Data Displayed: All information of a customer is correctly displayed.		
Normal Flow	<b>NF-1. View detail a customer</b> 1. Click `Thông tin chi tiết` button.		

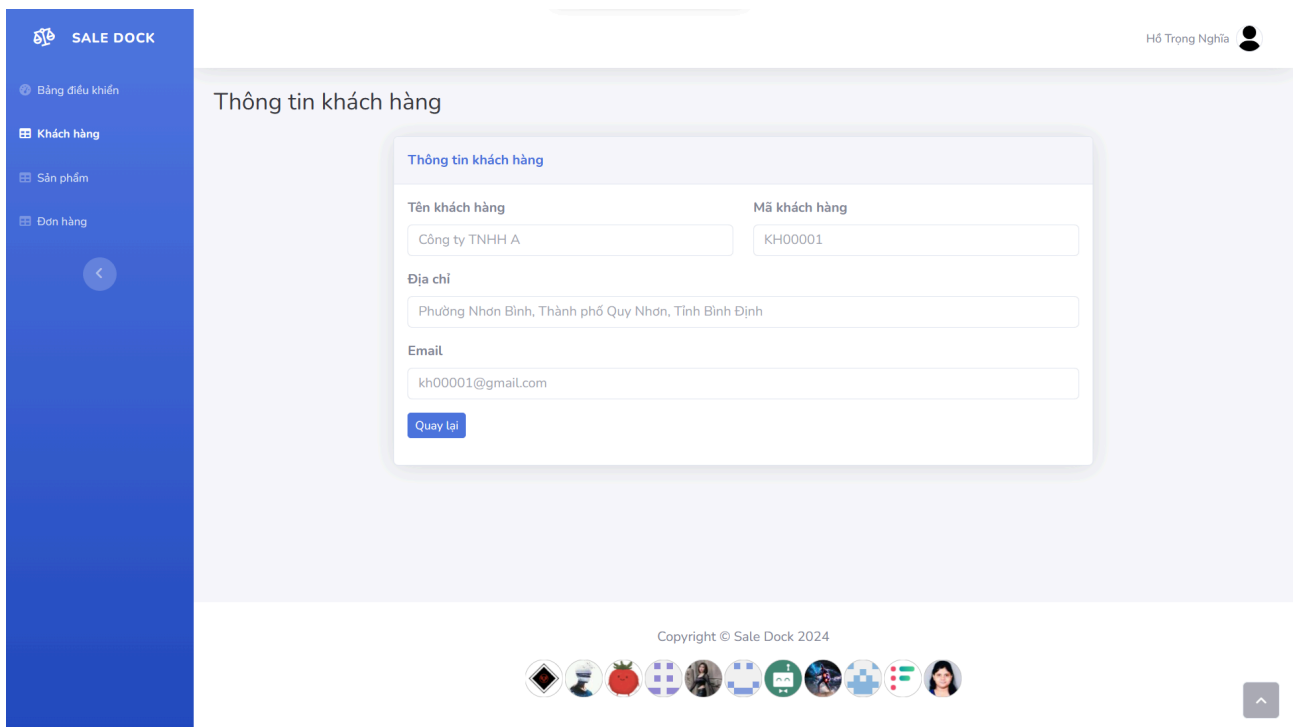
Alternative Flow	N/A
Exceptions	<b>E-1. E1 Database connection failure</b> <ol style="list-style-type: none"> <li>1. The SALE DOCK System generates an exception indicating the database connection failure.</li> <li>2. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.</li> </ol>
Priority	High
Frequency of Use	Approximately 10 employees, each one average of 20 usage per day.
Business Rules	BR-1 -> 5

**Diagram:**



UC-E-1-3 : Diagram 1 : View detail a customer

**Screenshot:**

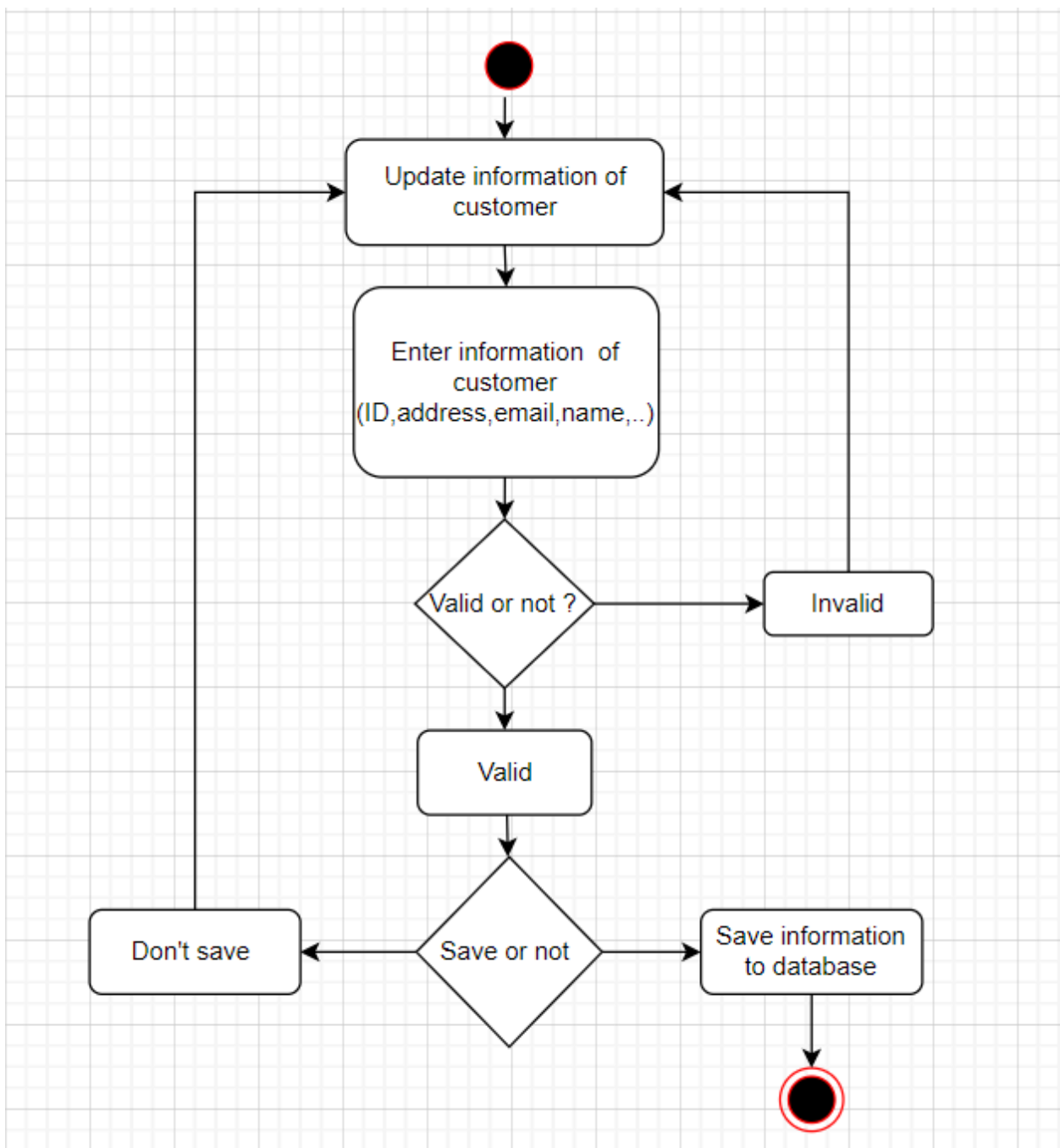


UC-E-1-3 : Screenshot 1 : View detail a customer

### d. UC-E-1-4: Update a customer

Diagram:





UC-E-1-4 : Diagram 1 : Update a customer

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ID and Name	UC-E-1-4: Update a customer		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to update a customer in the system.		
Trigger	An employee wants to update a customer and click the `Cập nhật thông tin` button.		
Preconditions	PRE-1. Employees must be logged into the Sale Dock System. PRE-2. There is already this customer in the database.		
Postconditions	POST-1. The SALE DOCK system updates a customer and customer details in the database. POST-2. This customer after update will be displayed in the customers list. POST-3. There is a notification displayed on the website to let the Employee know that the customer has been successfully updated.		
Normal Flow	<b>NF-1. Update a customer</b> <ol style="list-style-type: none"> <li>1. Click `Cập nhật thông tin` button.</li> <li>2. Change the customer's name.</li> <li>3. Change the customer's address.</li> <li>4. Click `Cập nhật` button.</li> </ol>		
Alternative Flow	<b>N/A</b>		
Exceptions	<b>E-1. E1 Database connection failure</b> <ol style="list-style-type: none"> <li>1. The SALE DOCK System generates an exception indicating the database connection failure.</li> <li>2. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.</li> </ol>		
Priority	High		
Frequency of Use	Approximately 10 employees, each one average of 20 usage per day.		
Business Rules	BR-3, BR-5, BR-6		

### Screenshot:

The screenshot shows the 'Cập nhật thông tin khách hàng' (Update customer information) form in the Sale Dock application. The form is titled 'Thông tin khách hàng' (Customer information) and contains the following fields:

- Tên khách hàng (Customer name): Công ty TNHH A
- Mã khách hàng (Customer code): KH00001
- Địa chỉ (Address): Phường Nhơn Bình, Thành phố Quy Nhơn, Tỉnh Bình Định
- Email: kh00001@gmail.com

At the bottom of the form, there are two buttons: 'Quay lại' (Go back) and 'Cập nhật' (Update).

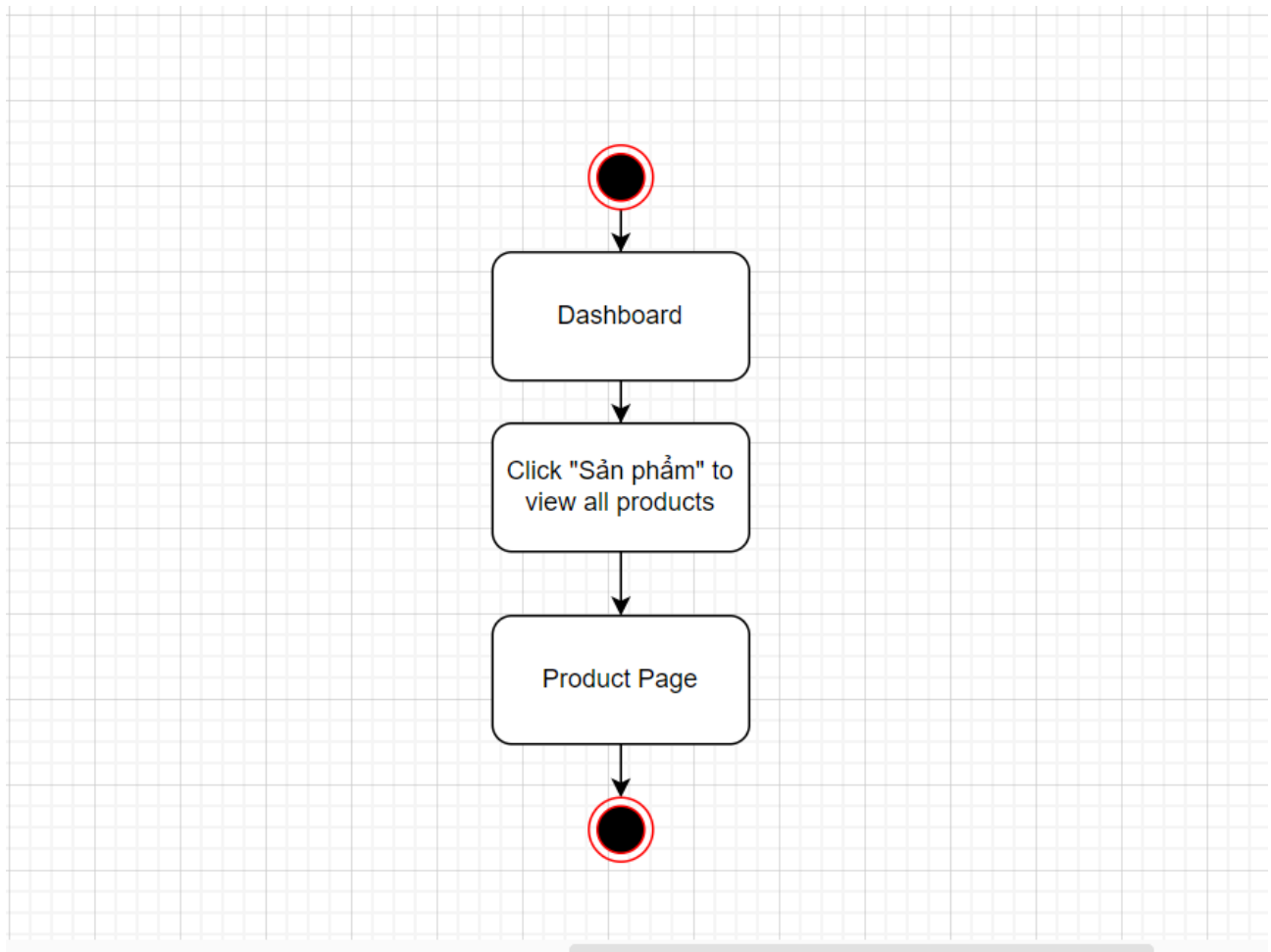
The application interface includes a blue sidebar on the left with the following menu items: 'Bảng điều khiển' (Dashboard), 'Khách hàng' (Customers), 'Sản phẩm' (Products), and 'Đơn hàng' (Orders). The top right corner shows the user's name 'Hỗ Trọng Nghĩa' and a profile icon. The footer contains the copyright notice 'Copyright © Sale Dock 2024' and a row of social media icons.

UC-E-1-4 : Screenshot 1 : Update a customer

## 2. Manage product

### a. UC-E-2-1: View all products

Diagram:



UC-E-2-1 : Diagram 1 : View all products

ID and Name	UC-E-2-1: View all products		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to view all products in the system.		
Trigger	An employee wants to view all products and click the `Sản phẩm` button.		
Preconditions	PRE-1. Employees must be logged into the Sale Dock System. PRE-2. There are already products in the database.		
Postconditions	POST-1. Data Displayed: All product information is correctly displayed.		

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Normal Flow	<b>NF-1. View all products</b> 1. Click `Sản phẩm` button.
Alternative Flow	<b>N/A</b>
Exceptions	<b>E-1. E1 Database connection failure</b> 1. The SALE DOCK System generates an exception indicating the database connection failure. 2. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.
Priority	High
Frequency of Use	Approximately 10 employees, each one average of 20 usage per day.
Business Rules	BR-12 -> 17

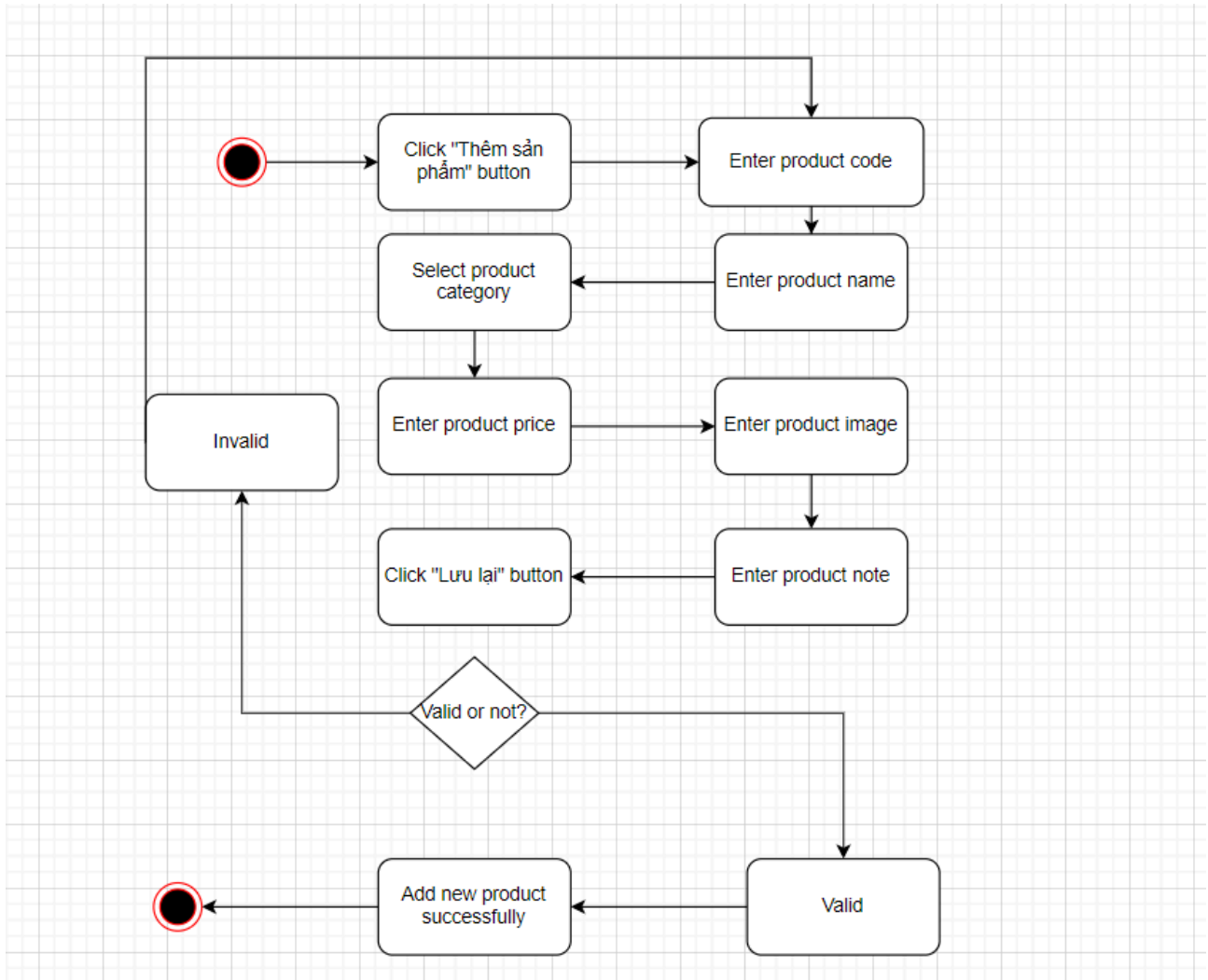
### Screenshot:

The screenshot displays the 'Sản phẩm' (Products) section of the SALE DOCK application. On the left is a blue sidebar with navigation links: 'Bảng điều khiển' (Dashboard), 'Khách hàng' (Customers), 'Sản phẩm' (Products), and 'Đơn hàng' (Orders). The main content area shows a table titled 'Quản lý sản phẩm' (Product Management) with a 'Thêm sản phẩm' (Add Product) button. The table has four columns: 'Mã sản phẩm' (Product Code), 'Tên sản phẩm' (Product Name), 'Phân loại' (Category), and 'Thao tác' (Actions). It lists 9 products, each with a unique code and name, categorized as 'Thực phẩm đóng gói' (Packaged Food) or 'Thực phẩm tươi sống' (Fresh Food). Each row has two action buttons: a blue one with a magnifying glass icon and a yellow one with a trash can icon. At the bottom of the table, it says 'Hiển thị 9 trên 9 sản phẩm' (Showing 9 of 9 products) and a pagination control showing '1 2 3'. Below the table, there is a copyright notice 'Copyright © Sale Dock 2024' and a row of social media icons.

UC-E-2-1 : Screenshot 1 : View all product

## b. UC-E-2-2: Add new product

Diagram:

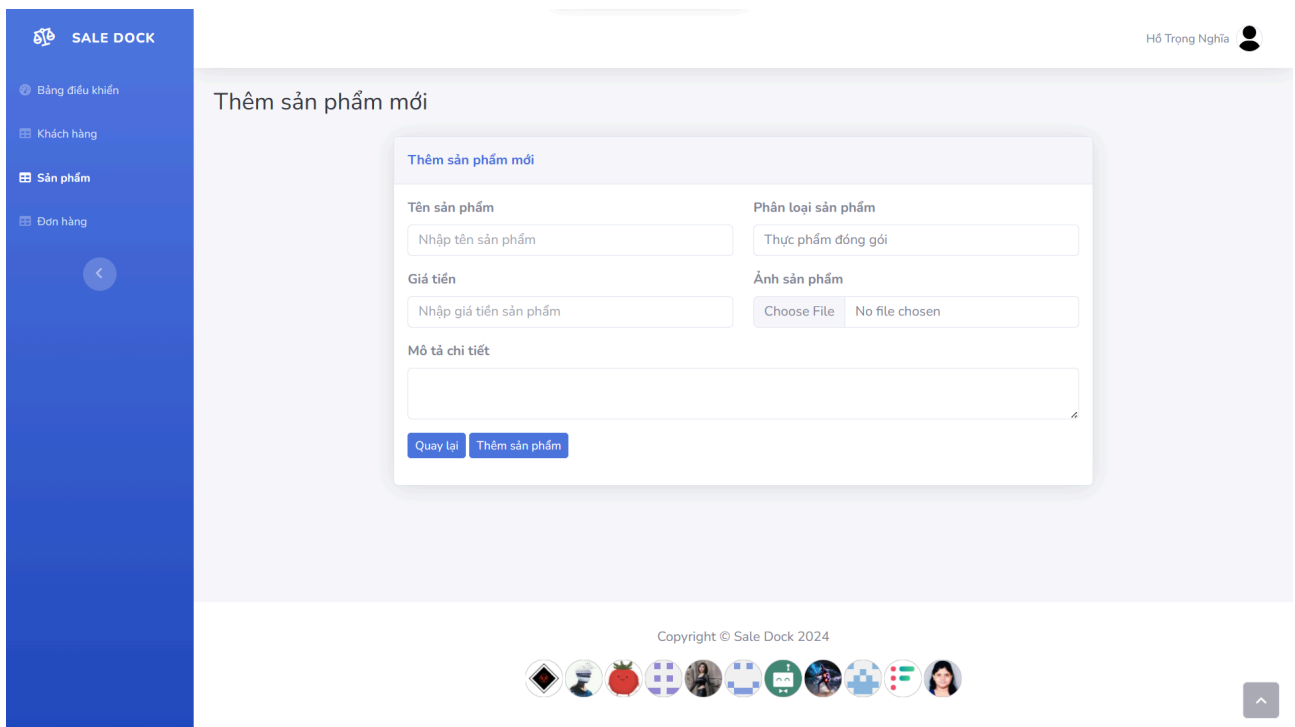


UC-E-2-2 : Diagram 1 : Add new product

ID and Name	UC-E-2-2: Add new product		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to add a new product to the system.		

Trigger	An employee wants to create a new product and click the `Thêm sản phẩm` button.
Preconditions	PRE-1. Employees must be logged into the Sale Dock System. PRE-2. This product does not exist in the database yet.
Postconditions	POST-1. The SALE DOCK system creates a new product and product details in the database. POST-2. New products after creation will be displayed in the products list. POST-3. There is a notification displayed on the website to let the Employee know that the product has been successfully created.
Normal Flow	<b>NF-1. Add a new product</b> <ol style="list-style-type: none"> <li>1. Click `Thêm sản phẩm` button.</li> <li>2. Enter the product's code.</li> <li>3. Enter the product's name.</li> <li>4. Select the product's category.</li> <li>5. Enter the product's price.</li> <li>6. Select the product's image.</li> <li>7. Enter the product's note.</li> <li>8. Click `Lưu sản phẩm` button.</li> </ol>
Alternative Flow	<b>N/A</b>
Exceptions	<b>E-1. E1 Database connection failure</b> <ol style="list-style-type: none"> <li>9. The SALE DOCK System generates an exception indicating the database connection failure.</li> <li>10. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.</li> </ol>
Priority	High
Frequency of Use	Approximately 10 employees, each one average of 20 usage per day.
Business Rules	BR-12 -> 17

**Screenshot:**

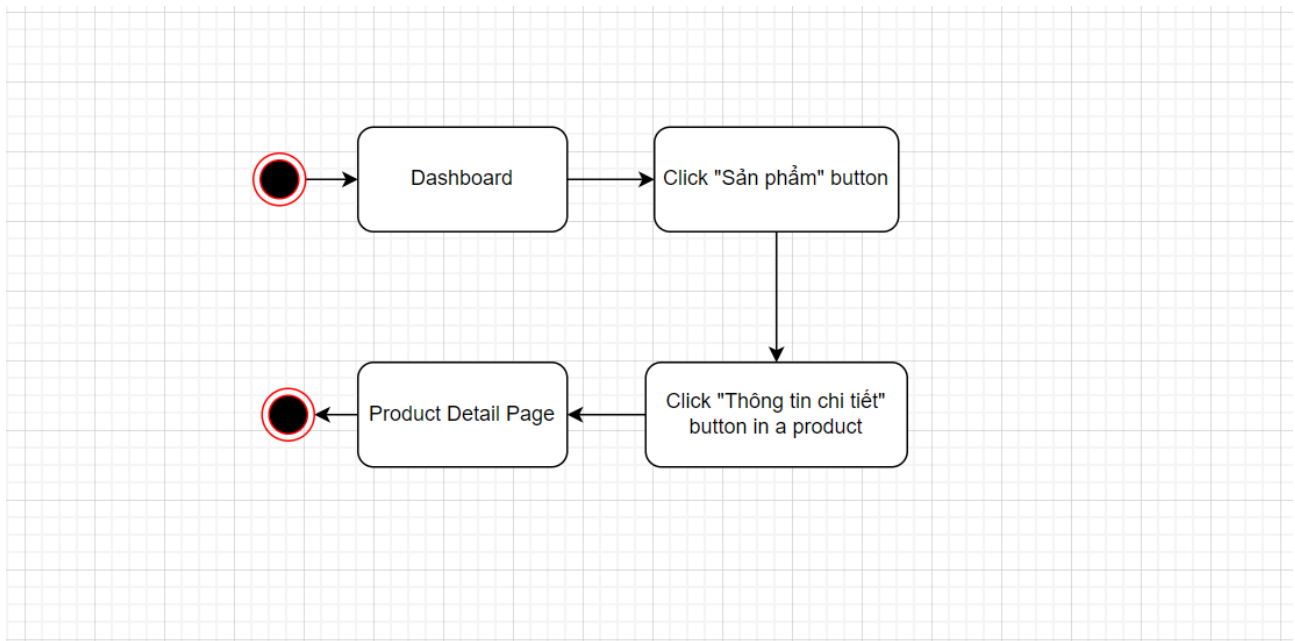


UC-E-2-2 : Screenshot 1 : Add new product

### c. UC-E-2-3: View detail a product

Diagram:



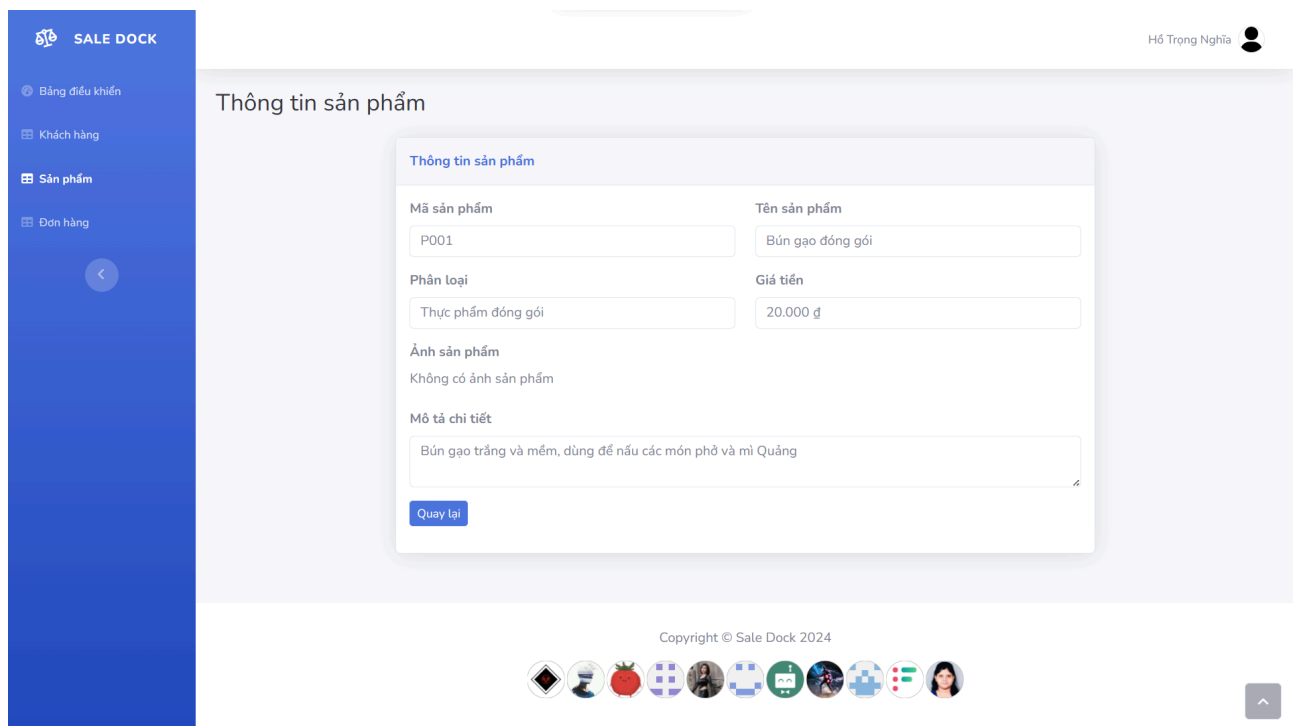


UC-E-2-3 : Diagram 1 : View detail a product

ID and Name	UC-E-2-3: View detail a product		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to view details of a product in the system.		
Trigger	An employee wants to view details of a product and click the `Thông tin chi tiết` button.		
Preconditions	PRE-1. Employees must be logged into the Sale Dock System. PRE-2. There is already this product in the database.		
Postconditions	POST-1. Data Displayed: All information of a product is correctly displayed.		
Normal Flow	<b>NF-1. View detail a product</b> 1. Click `Thông tin chi tiết` button.		
Alternative Flow	<b>N/A</b>		
Exceptions	<b>E-1. E1 Database connection failure</b> 1. The SALE DOCK System generates an exception indicating the database connection failure.		

	2. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.
Priority	High
Frequency of Use	Approximately 10 employees, each one average of 20 usage per day.
Business Rules	BR-12 -> 17

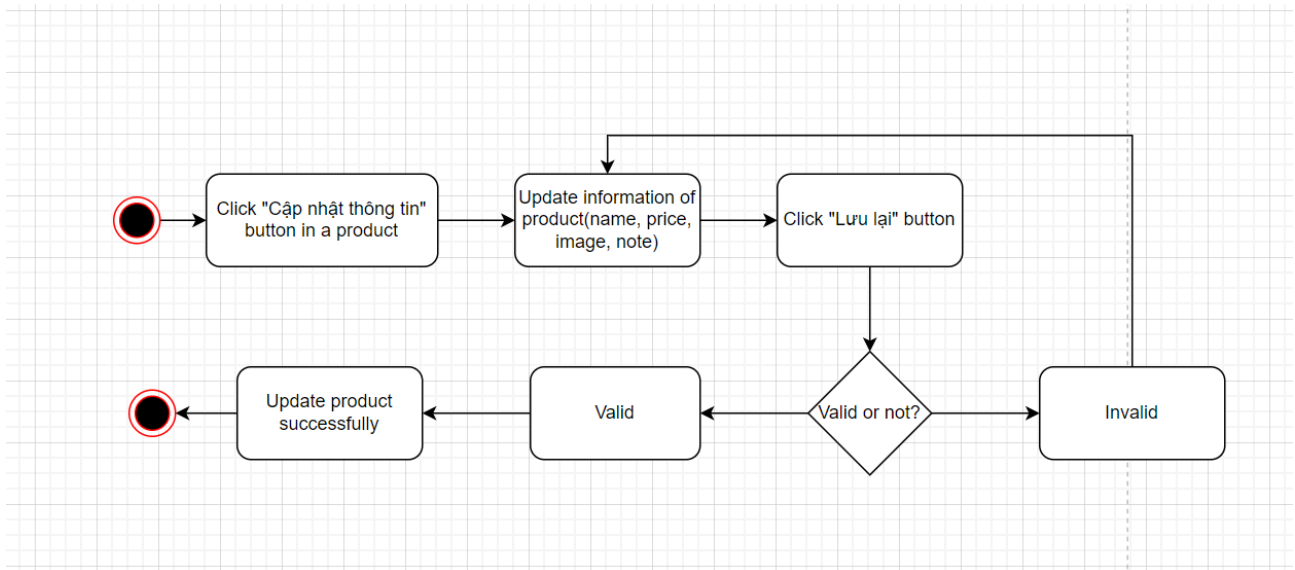
### Screenshot:



UC-E-2-3 : Screenshot 1 : View detail a product

### d. UC-E-2-4: Update a product

#### Diagram:



UC-E-2-4 : Diagram 1 : Update a product

ID and Name	UC-E-2-4: Update a product		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to update a product in the system.		
Trigger	An employee wants to update a product and click the `Cập nhật thông tin` button.		
Preconditions	PRE-1. Employees must be logged into the Sale Dock System. PRE-2. There is already this product in the database.		
Postconditions	POST-1. The SALE DOCK system updates a product and product details in the database. POST-2. This product after update will be displayed in the products list. POST-3. There is a notification displayed on the website to let the Employee know that the product has been successfully updated.		
Normal Flow	<b>NF-1. Update a product</b> <ol style="list-style-type: none"> <li>1. Click `Cập nhật thông tin` button.</li> <li>2. Change the product's name.</li> <li>3. Change the product's price.</li> </ol>		

## Software Requirements Specification - Sale Dock

	<ol style="list-style-type: none"> <li>4. Change the product's image.</li> <li>5. Change the product's note.</li> <li>6. Click `Cập nhật` button.</li> </ol>
Alternative Flow	N/A
Exceptions	<b>E-1. E1 Database connection failure</b> <ol style="list-style-type: none"> <li>1. The SALE DOCK System generates an exception indicating the database connection failure.</li> <li>2. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.</li> </ol>
Priority	High
Frequency of Use	Approximately 10 employees, each one average of 20 usage per day.
Business Rules	BR-12 -> 17

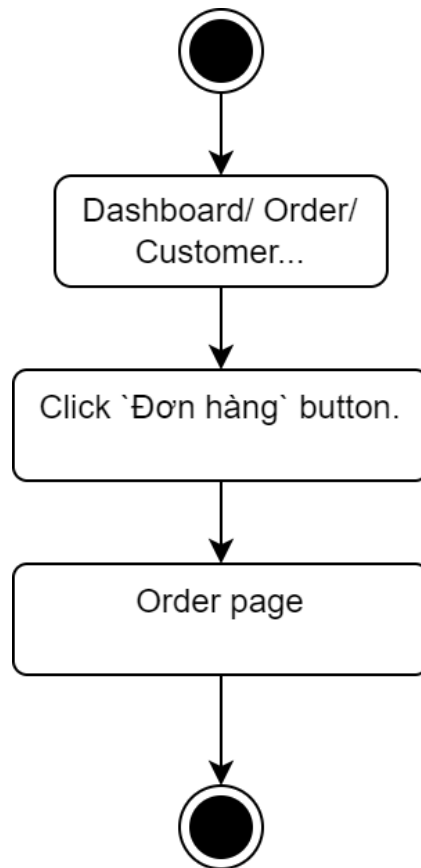
### Screenshot:

UC-E-2-4 : Screenshot 1 : Update a product

### 3. Manage order

#### a. UC-E-3-1: View all orders

Diagram:



UC-E-3-1: Diagram 1: View all orders

ID and Name	UC-E-3-1: View all orders		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to view all orders in the system.		
Trigger	An employee wants to view all orders and click the `Đơn hàng` button		

## Software Requirements Specification - Sale Dock

Preconditions	PRE-1. Employees must be logged into the Sale Dock System. PRE-2. There are already orders in the database.
Postconditions	POST-1. Data Displayed: All orders information is correctly displayed.
Normal Flow	<b>NF-1. View all orders</b> 1. Click `Đơn hàng` button.
Alternative Flow	<b>N/A</b>
Exceptions	<b>E-1. E1 Database connection failure</b> 1. The SALE DOCK System generates an exception indicating the database connection failure. 2. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.
Priority	High
Frequency of Use	Approximately 10 employees, each one average of 20 usage per day.
Business Rules	BR-12 -> 17

### Screenshot:

The screenshot shows the 'Đơn hàng' (Orders) page in the Sale Dock application. The page features a table titled 'Quản lý đơn hàng' (Manage orders) with the following data:

Mã đặt hàng	Tên khách hàng	Tổng tiền	Thao tác
7640271B803F4C3	Công ty TNHH AA	8,000 đ	[Icon]
98E9C1208D76404	Nghĩa	65,000 đ	[Icon]
78B650CDD11345A	Công ty TNHH A	8,000 đ	[Icon]
AD3CFED06616445	Công ty TNHH A	65,000 đ	[Icon]
B77356D83E0749E	Công ty TNHH A	141,000 đ	[Icon]
FA8FABC4F3094AD	Công ty TNHH AA	8,000 đ	[Icon]
F1D398EBD28441B	Công ty TNHH A	65,000 đ	[Icon]
4AA9D3A55D02459	Nghĩa	15,000 đ	[Icon]
C548C9FBC9D14FD	Nghĩa	15,000 đ	[Icon]
F1ADA51AA82D4E7	Nghĩa	65,000 đ	[Icon]

The page also includes a sidebar with navigation links, a top header with the user name 'Hồ Trọng Nghĩa', and a footer with a copyright notice 'Copyright © Sale Dock 2024'.

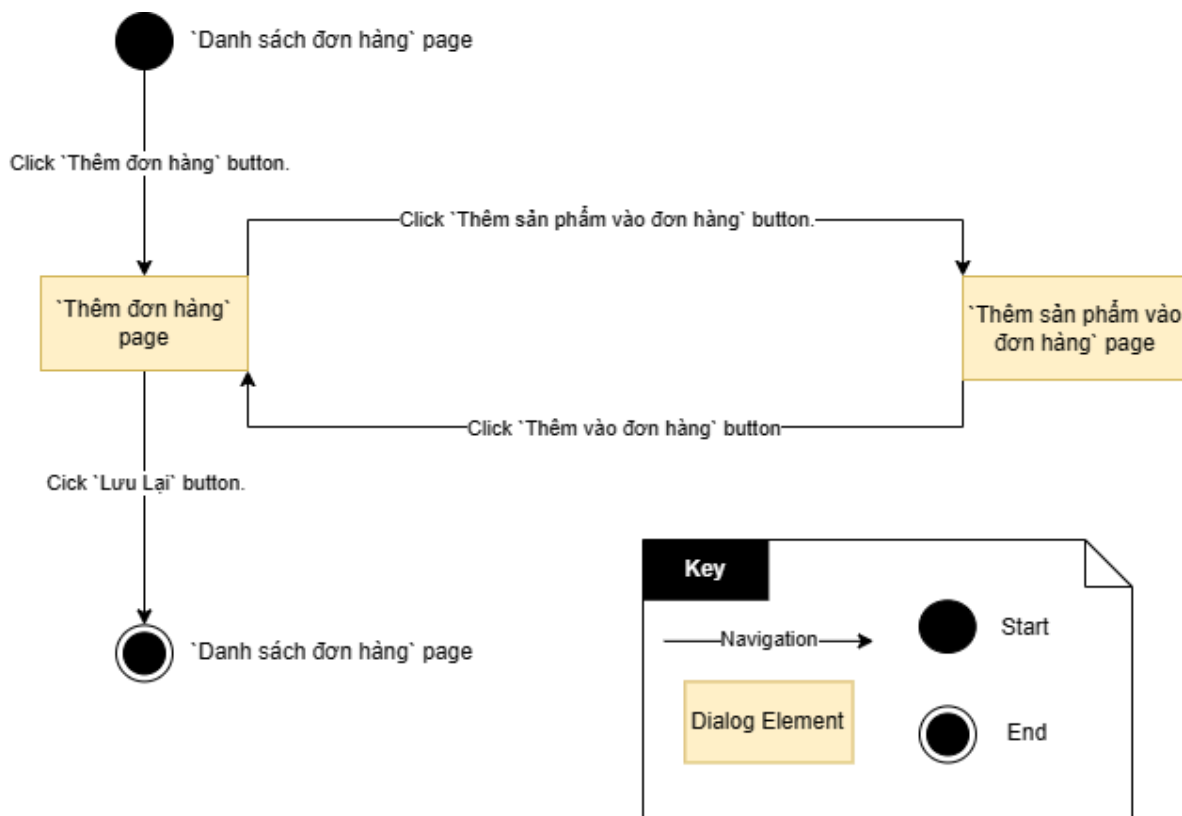
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UC-E-3-1: Screenshot 1: View all orders

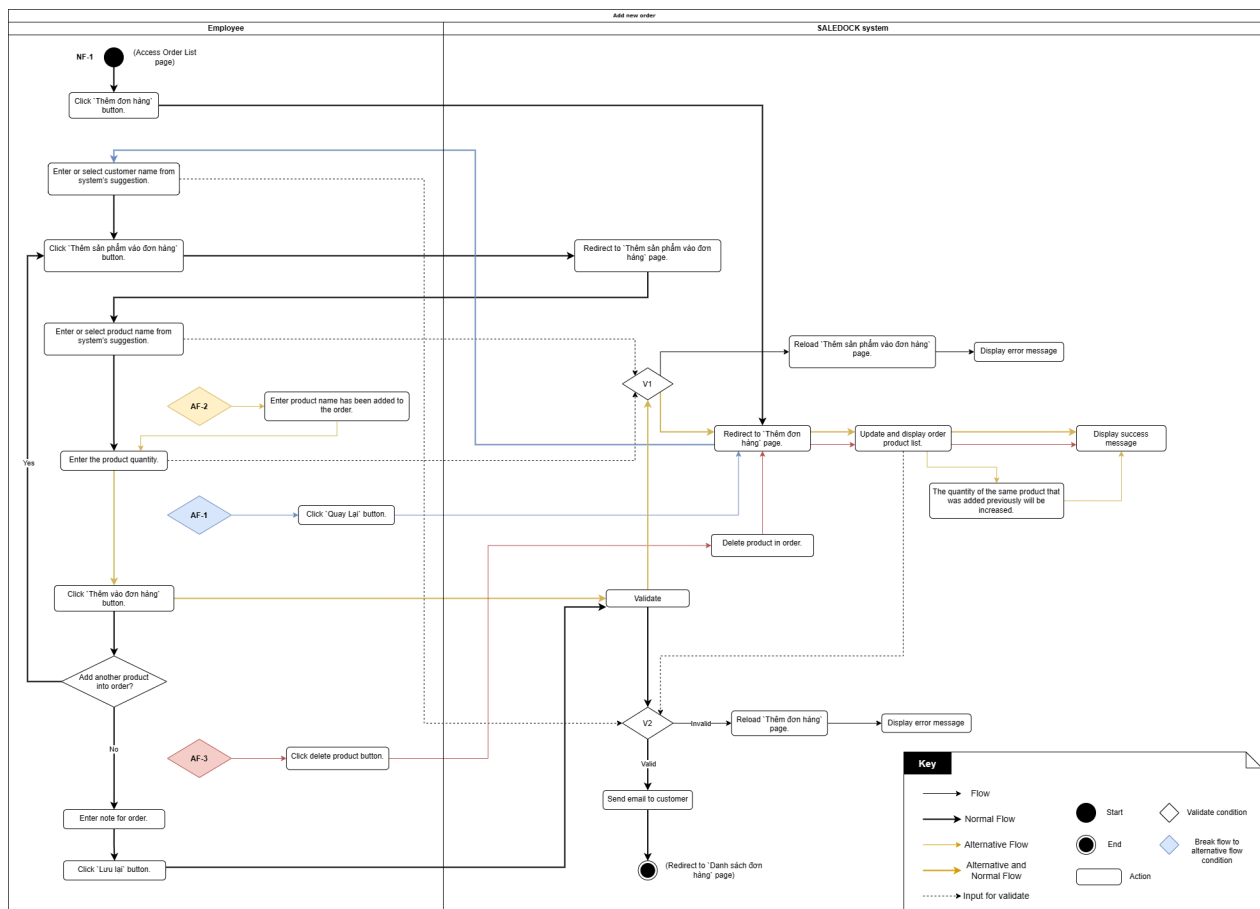
**b. UC-E-3-2: Add new order**

**Diagram:**



UC-E-3-2: Diagram 1: Add new order

## Software Requirements Specification - Sale Dock



UC-E-3-2: Diagram 2: Add new order

\*V1: The SALE DOCK system will check Product Name first, then check Product Quantity.

\*V2: The SALE DOCK system will check Customer Name first, then check List Product is empty or not?

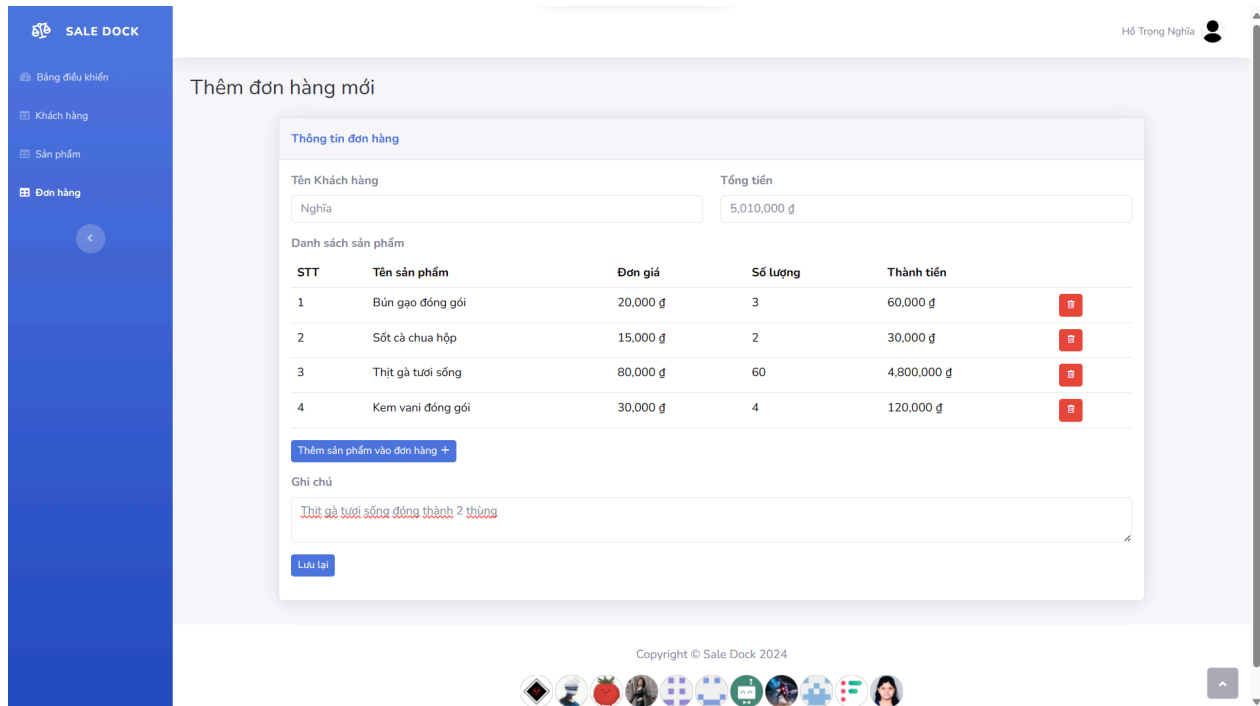
ID and Name	UC-E-3-2: Add new order		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to add a new order to the system.		
Trigger	An employee wants to create a new order by clicking 'Đơn hàng' on the sidebar of Dashboard and then clicking the 'Thêm đơn hàng' button on the Order List page.		
Preconditions	PRE-1. Employees must be logged into the Sale Dock System.		



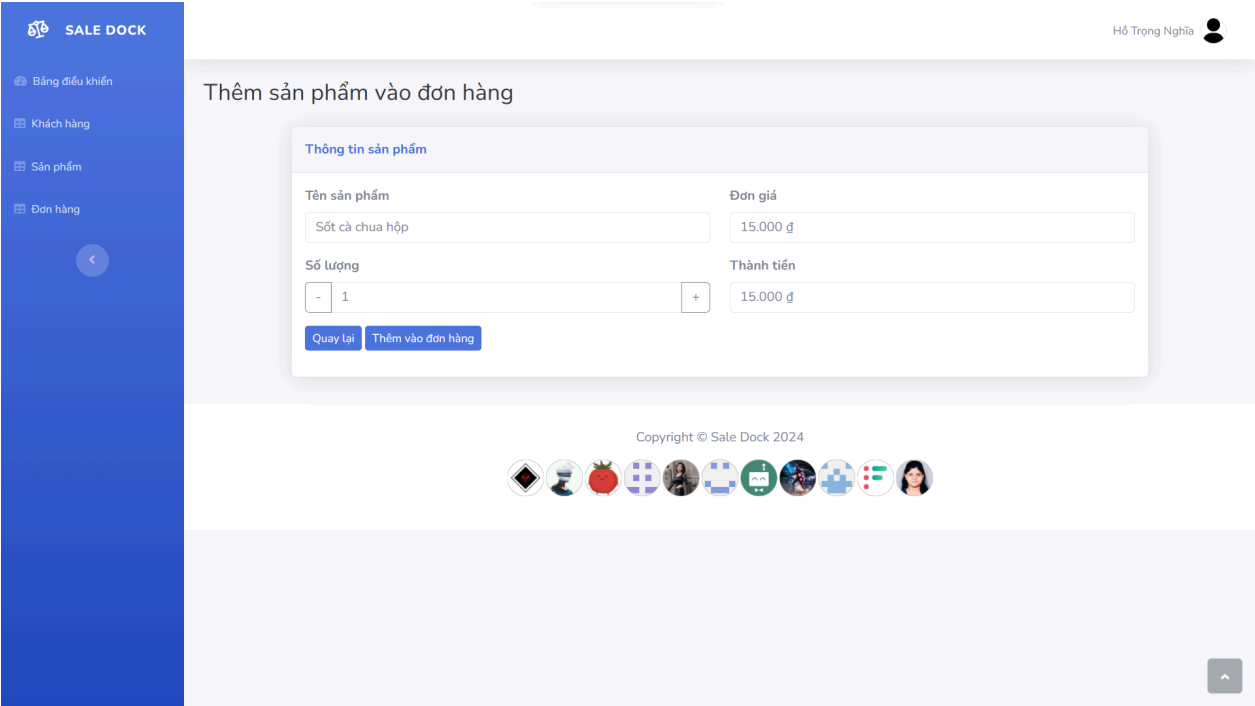
	PRE-2. The Sale Dock System has at least one record in `customer`, `product`, `employee` tables.
Postconditions	<p>POST-1. The SALE DOCK system creates a new order and order details in the database.</p> <p>POST-2. The system will redirect the Employee to Order List page</p> <p>POST-3. Message MS30 (refer to Message Table) displayed on the page to let them know that the order has been successfully created.</p> <p>POST-4. New orders after creation will be displayed in the orders list.</p> <p>POST-5. An email will be sent to the customer to display order information.</p>
Normal Flow	<p><b>NF-1. Add a new order</b></p> <ol style="list-style-type: none"> <li>1. Access `Danh sách đơn hàng` page.</li> <li>2. Click `Thêm đơn hàng` button.</li> <li>3. Enter or select customer name from system's suggestion.</li> <li>4. Click `Thêm sản phẩm vào đơn hàng` button.</li> <li>5. Enter or select product name from system's suggestion.</li> <li>6. Enter the product quantity.</li> <li>7. Click `Thêm vào đơn hàng` button.</li> <li>8. If you want to add another product, go back to step 4 (or step 3 if they have not entered or want to change the customer name).</li> <li>9. Enter note for order.</li> <li>10. Click `Lưu lại` button.</li> </ol>
Alternative Flow	<p><b>AF-1. While adding products to the order, press the back button.</b></p> <ol style="list-style-type: none"> <li>1. Refer to Step 1 - 6 of <b>NF-1</b>.</li> <li>2. Instead of clicking the `Thêm vào đơn hàng` button, the Employee clicks the `Quay Lại` button next to it.</li> <li>3. Employees will be redirected to the `Thêm đơn hàng` page and will continue to step 8 of <b>NF-1</b>.</li> </ol> <p><b>AF-2. Add product that is already in the order</b></p> <ol style="list-style-type: none"> <li>1. Refer to Step 1 - 4 of <b>NF-1</b>.</li> <li>2. Enter or select product name is already in the order.</li> <li>3. Refer to Step 6 and 7 of <b>NF-1</b>.</li> <li>4. Employees will be redirected to the page and the quantity of the product already in the order will be increased.</li> <li>5. Continue to step 8 of <b>NF-1</b>.</li> </ol> <p><b>AF-3. Delete product in order</b></p> <ol style="list-style-type: none"> <li>1. Refer to Step 1 - 7 of <b>NF-1</b>.</li> <li>2. Press the red delete button next to the row of a product you want to delete in the order's product list.</li> <li>3. Press the `Vâng, xoá nó.` button to confirm deletion action.</li> </ol>

	<p>4. The SALE DOCK system will delete that product and reload the `Thêm đơn hàng` page to update the order's product list.</p> <p>5. Continue to step 8 of <b>NF-1</b>.</p>
Exceptions	<p><b>E-1. Database connection failure</b></p> <ol style="list-style-type: none"> <li>1. The SALE DOCK System generates an exception indicating the database connection failure.</li> <li>2. The Employee is redirected to `error-404` page.</li> </ol> <p><b>E-2. Not enter input into form</b></p> <ul style="list-style-type: none"> <li>• The SALE DOCK system will reload the page and display an error message MS18, MS19, MS26 refer to the Message Table.</li> </ul> <p><b>E-3. Enter a customer name or product name that is not in the database</b></p> <ul style="list-style-type: none"> <li>• The SALE DOCK system will reload the page and display an error message MS23 and MS24 refer to the Message Table.</li> </ul> <p><b>E-4. Input the wrong data type for product quantity</b></p> <ul style="list-style-type: none"> <li>• The SALE DOCK system will reload the page and display an error message MS27 refers to the Message Table.</li> </ul> <p><b>E-5. Enter the product quantity input as a negative number</b></p> <ul style="list-style-type: none"> <li>• The SALE DOCK system will reload the page and display an error message MS28 refers to the Message Table.</li> </ul>
Priority	High
Frequency of Use	Approximately 10 employees, each one average of 20 usage per day.
Business Rules	BR-7, BR-8, BR-18, BR-19

**Screenshot:**



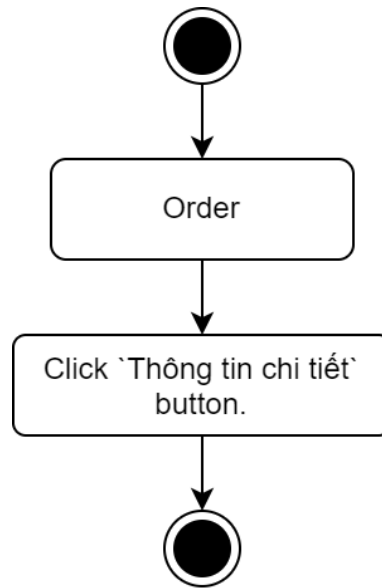
### UC-E-3-2: Screenshot 1: Add new order



UC-E-3-2: Screenshot 2: Add new order

c. UC-E-3-3: View detail a order

Diagram:



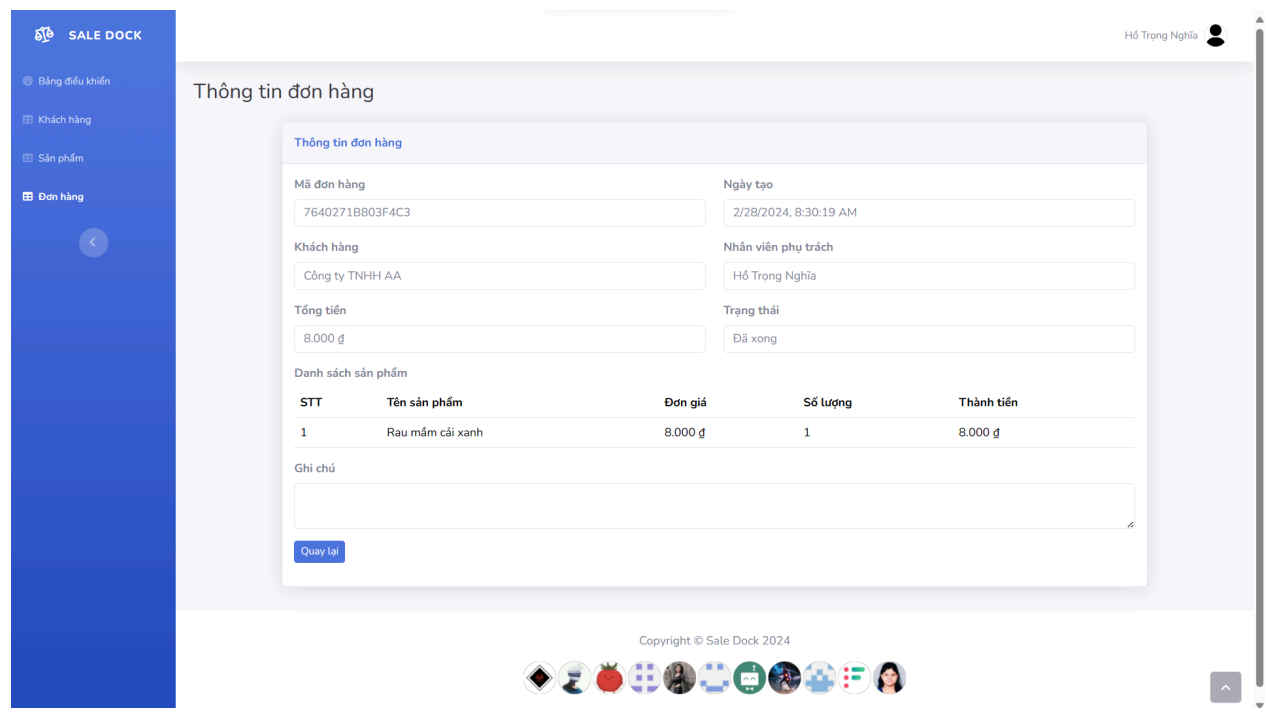
UC-E-3-3: Diagram 1: View detail a order

ID and Name	UC-E-3-3: View detail a order		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to view details of an order in the system.		
Trigger	An employee wants to view details of an order and click the `Thông tin chi tiết` button.		
Preconditions	PRE-1. Employees must be logged into the Sale Dock System. PRE-2. There is already this order in the database.		
Postconditions	POST-1. Data Displayed: All information of an order is correctly displayed.		
Normal Flow	<b>NF-1. View detail a order</b> 1. Click `Thông tin chi tiết` button.		
Alternative Flow	<b>N/A</b>		
Exceptions	<b>E-1. E1 Database connection failure</b> 1. The SALE DOCK System generates an exception indicating the database connection failure.		

## Software Requirements Specification - Sale Dock

	2. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.
Priority	High
Frequency of Use	Approximately 10 employees, each one average of 20 usage per day.
Business Rules	BR-7, BR-8, BR-18, BR-19, BR-20

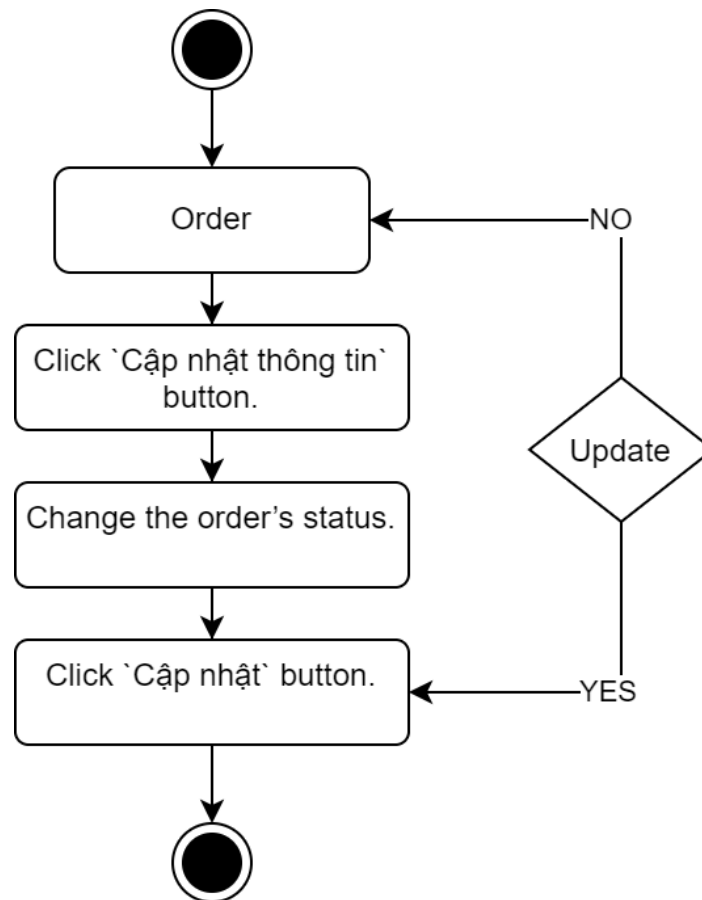
Screenshot:



UC-E-3-3: Screenshot 1: View detail a order

d. UC-E-3-4: Update a order

Diagram:



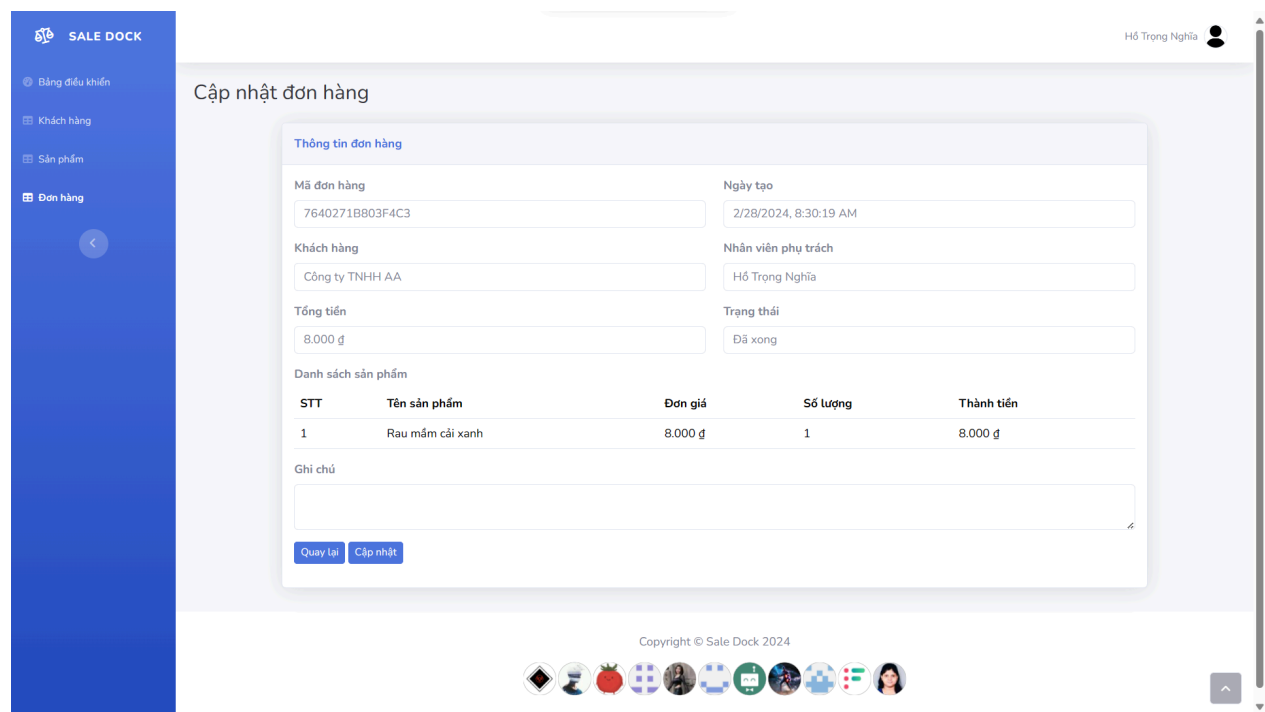
UC-E-3-4: Diagram 1: Update a order

ID and Name	UC-E-3-4: Update a order		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to update an order in the system.		
Trigger	An employee wants to update an order and click the `Cập nhật thông tin` button.		
Preconditions	PRE-1. Employees must be logged into the Sale Dock System. PRE-2. There is already this order in the database. PRE-3. This order has status as PENDING or SHIPPING.		



Postconditions	<p>POST-1. The SALE DOCK system updates an order and order details in the database.</p> <p>POST-2. This order after update will be displayed in the customers list.</p> <p>POST-3. There is a notification displayed on the website to let the Employee know that the order has been successfully updated.</p>
Normal Flow	<p><b>NF-1. Update a order</b></p> <ol style="list-style-type: none"> <li>1. Click `Cập nhật thông tin` button.</li> <li>2. Change the order's status.</li> <li>3. Click `Cập nhật` button.</li> </ol>
Alternative Flow	<b>N/A</b>
Exceptions	<p><b>E-1. E1 Database connection failure</b></p> <ol style="list-style-type: none"> <li>1. The SALE DOCK System generates an exception indicating the database connection failure.</li> <li>2. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.</li> </ol>
Priority	High
Frequency of Use	Approximately 10 employees, each one average of 20 usage per day.
Business Rules	BR-7, BR-8, BR-18, BR-19, BR-20

Screenshot:

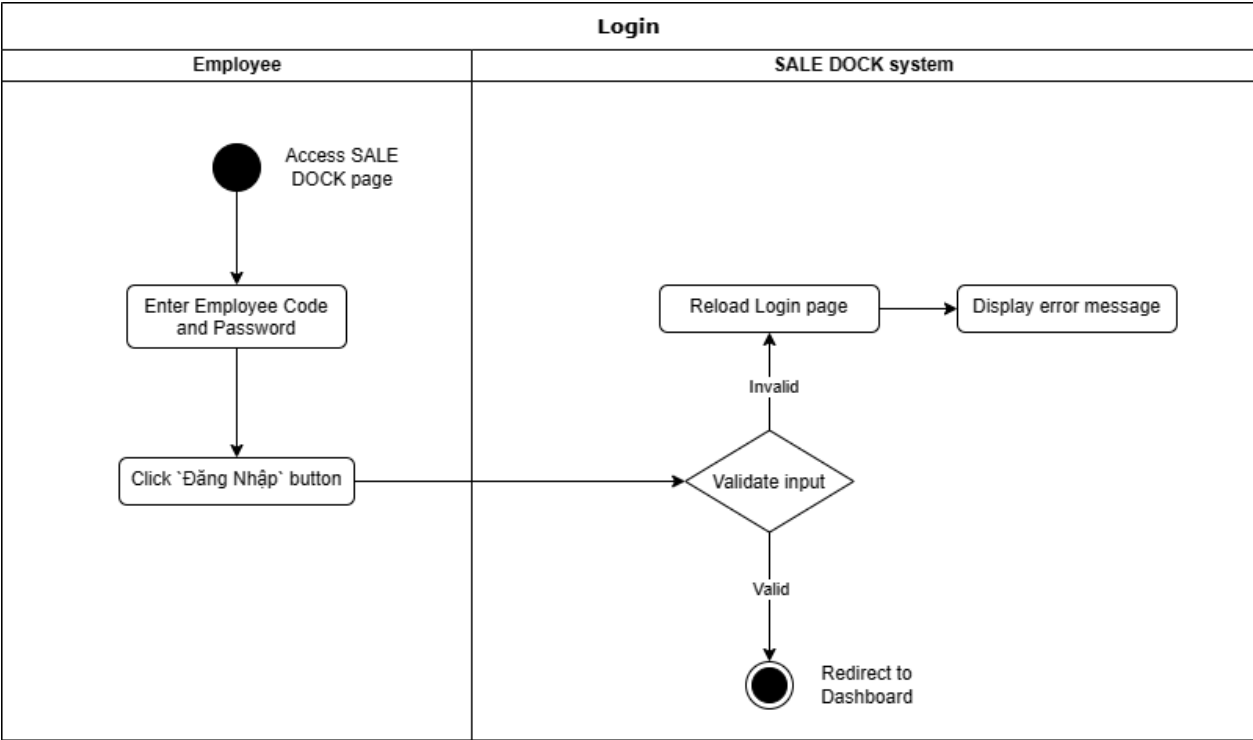


UC-E-3-4: Screenshot 1: Update a order

4. Others

a. UC-E-4-1: Login

Diagram:

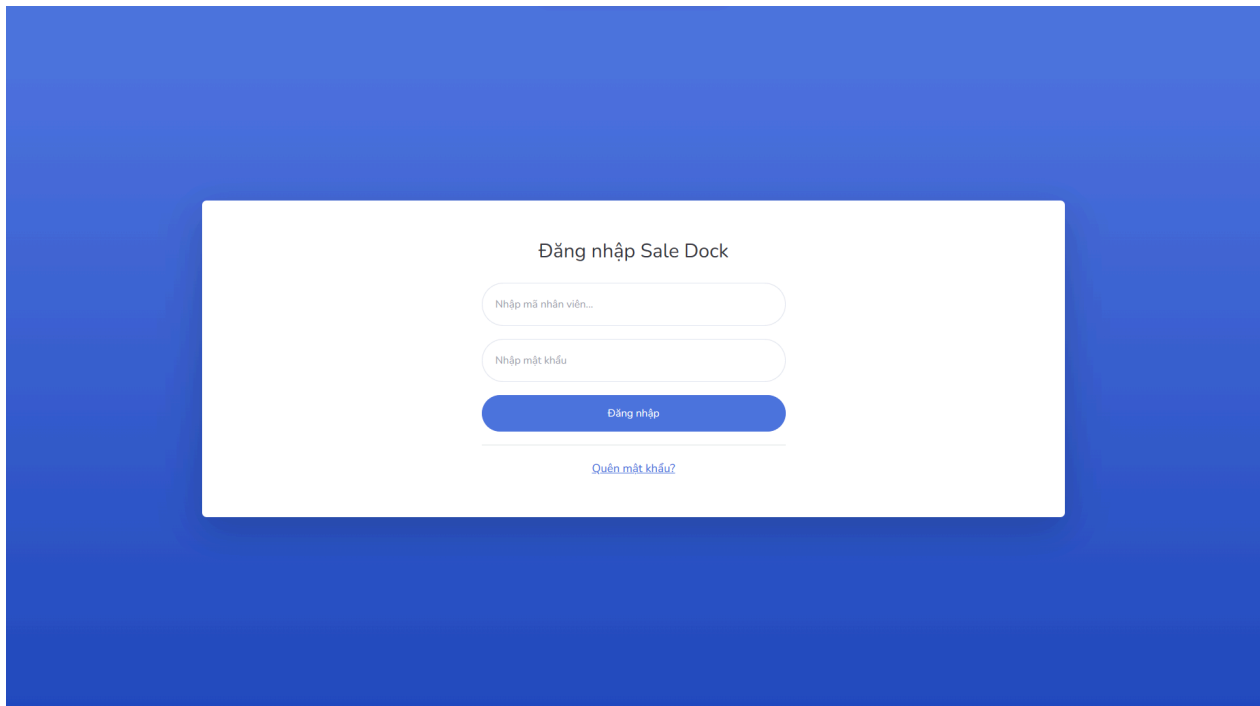


UC-E-4-1: Diagram 1: Login

ID and Name	UC-E-4-1: Login		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to login in the system.		
Trigger	An employee accesses the SALE DOCK system.		
Preconditions	PRE-1. Employee has not logged in to the SALE DOCK		
Postconditions	POST-1. The SALE DOCK system will redirect Employees to Dashboard. POST-2. The Employee's name will be displayed in the upper left corner of the Dashboard according to the account they login to.		
Normal Flow	<b>NF-1. Login</b> 1. Enter employee code. 2. Enter employee password.		

	3. Click `Đăng nhập` button.
Alternative Flow	N/A
Exceptions	<p><b>E-1. Database connection failure</b></p> <ol style="list-style-type: none"> <li>1. The SALE DOCK System generates an exception indicating the database connection failure.</li> <li>2. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.</li> </ol> <p><b>E-2. Not enter Employee Code or Password</b></p> <ul style="list-style-type: none"> <li>• The SALE DOCK system will display error message MS2 and MS3 (refer to the Message Table) on the Login form.</li> </ul> <p><b>E-3. Enter wrong Employee Code or Password</b></p> <ul style="list-style-type: none"> <li>• The SALE DOCK system will display error message MS5 (refer to the Message Table) on the Login form.</li> </ul> <p><b>E-4. Enter a password that is too short</b> (refer to BR-22)</p> <ul style="list-style-type: none"> <li>• The SALE DOCK system will display error message MS4 (refer to the Message Table) on the Login form.</li> </ul>
Priority	High
Frequency of Use	Approximately 10 employees, each one average of 20 usage per day.
Business Rules	BR-9, BR-10, BR-21, BR-22

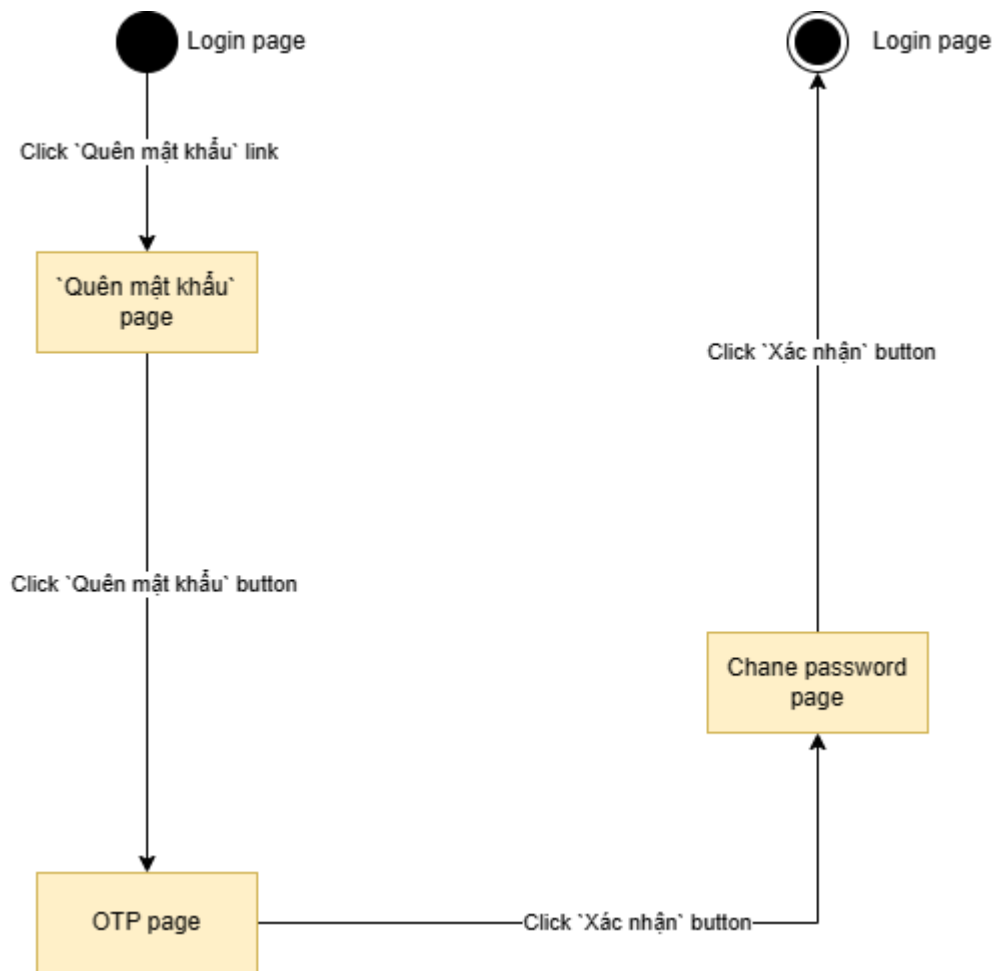
**Screenshot:**



UC-E-4-1: Screenshot 1: Login

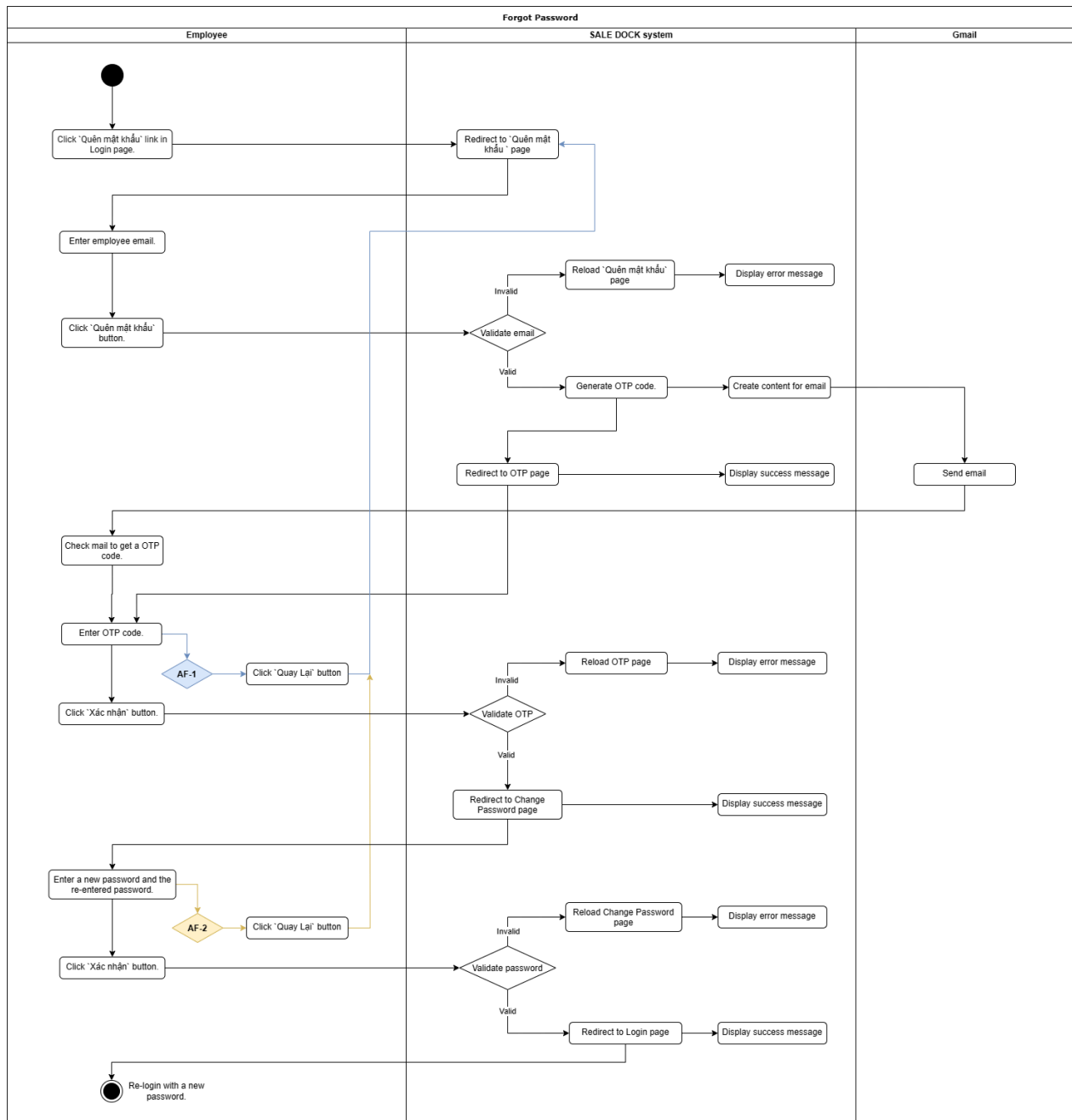
**b. UC-E-4-2: Forgot password**

**Diagram:**



UC-E-4-2: Diagram 1: Forgot password

## Software Requirements Specification - Sale Dock



UC-E-4-2: Diagram 2: Forgot password

ID and Name	UC-E-4-2: Forgot password
Date Created	27/02/2024

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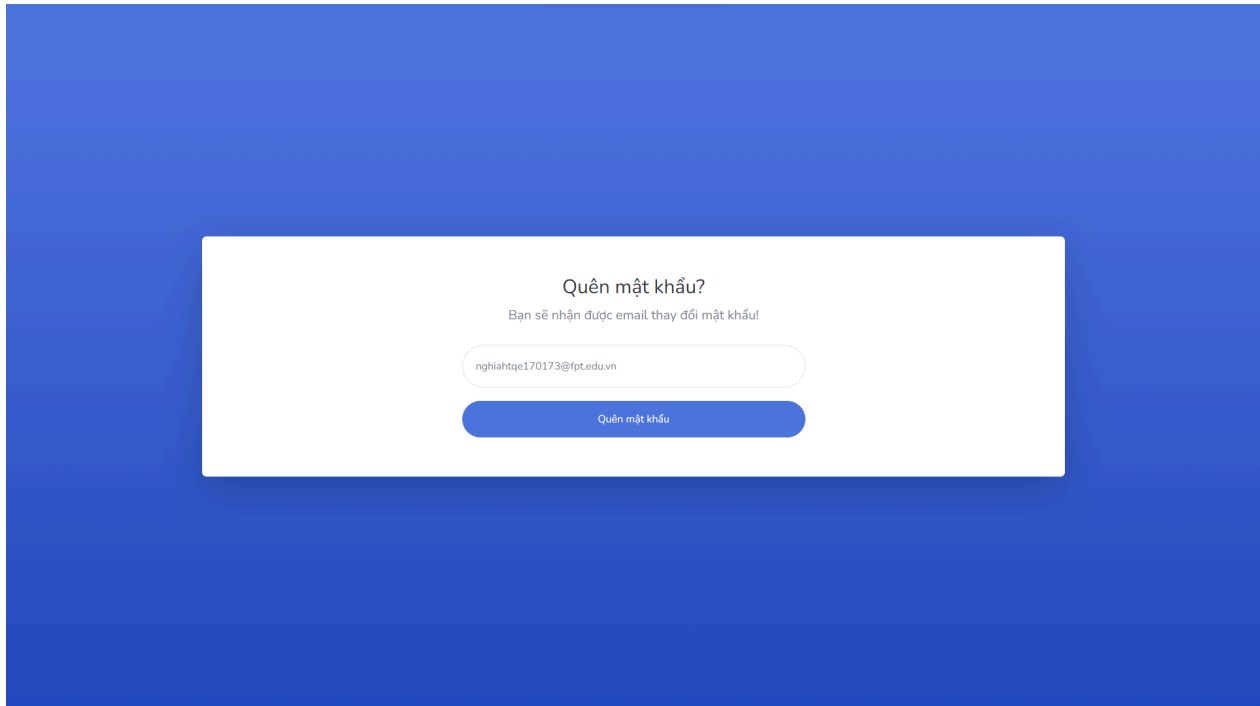
Final version 1.0

Primary Actor	Employee	Secondary Actors	Sale Dock System, Gmail
Description	A function that allows employees to get a new password when they forgot it.		
Trigger	An employee wants to get a new password when they forgot it and click the `Quên mật khẩu` button in the Login page.		
Preconditions	PRE-1. The employee can not login to the SALE DOCK.		
Postconditions	POST-1. Employee Password will be changed and updated in the database. POST-2. The SALE DOCK system will redirect the Employee to Login page and display success message MS17 refer to Message Table.		
Normal Flow	<b>NF-1. Forgot password</b> <ol style="list-style-type: none"> <li>1. Click `Quên mật khẩu` link in Login page.</li> <li>2. Enter employee email.</li> <li>3. Click `Quên mật khẩu` button.</li> <li>4. Check mail to get a OTP code.</li> <li>5. Enter OTP code.</li> <li>6. Click `Xác nhận` button.</li> <li>7. Enter a new password and the re-entered password.</li> <li>8. Click `Xác nhận` button.</li> <li>9. Re-login with a new password.</li> </ol>		
Alternative Flow	<b>AF-1. While entering the OPT code, press the `Quay Lại` button</b> <ol style="list-style-type: none"> <li>1. Refer to step 1 - 5 of NF-1.</li> <li>2. Click the `Quay Lại` button.</li> <li>3. The SALE DOCK system will redirect Employee to `Quên mật khẩu` page and continue step 3 (or step 2 if they want to change Email) of NF-1.</li> </ol> <b>AF-2. While entering the New Password, press the `Quay Lại` button</b> <ol style="list-style-type: none"> <li>1. Refer to step 1 - 7 of NF-1.</li> <li>2. Refer to step 2 and 3 of AF-1.</li> </ol>		
Exceptions	<b>E-1. Database connection failure</b> <ol style="list-style-type: none"> <li>1. The SALE DOCK System generates an exception indicating the database connection failure.</li> <li>2. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.</li> </ol> <b>E-2. Wrong Email input field</b> <ol style="list-style-type: none"> <li>1. <b>Not enter Email:</b> The SALE DOCK system will reload `Quên mật khẩu` page and display error message MS8 prefer to Message Table.</li> <li>2. <b>Wrong format Email:</b> The SALE DOCK system will reload `Quên mật khẩu` page and display error message MS9 prefer to Message Table.</li> </ol>		

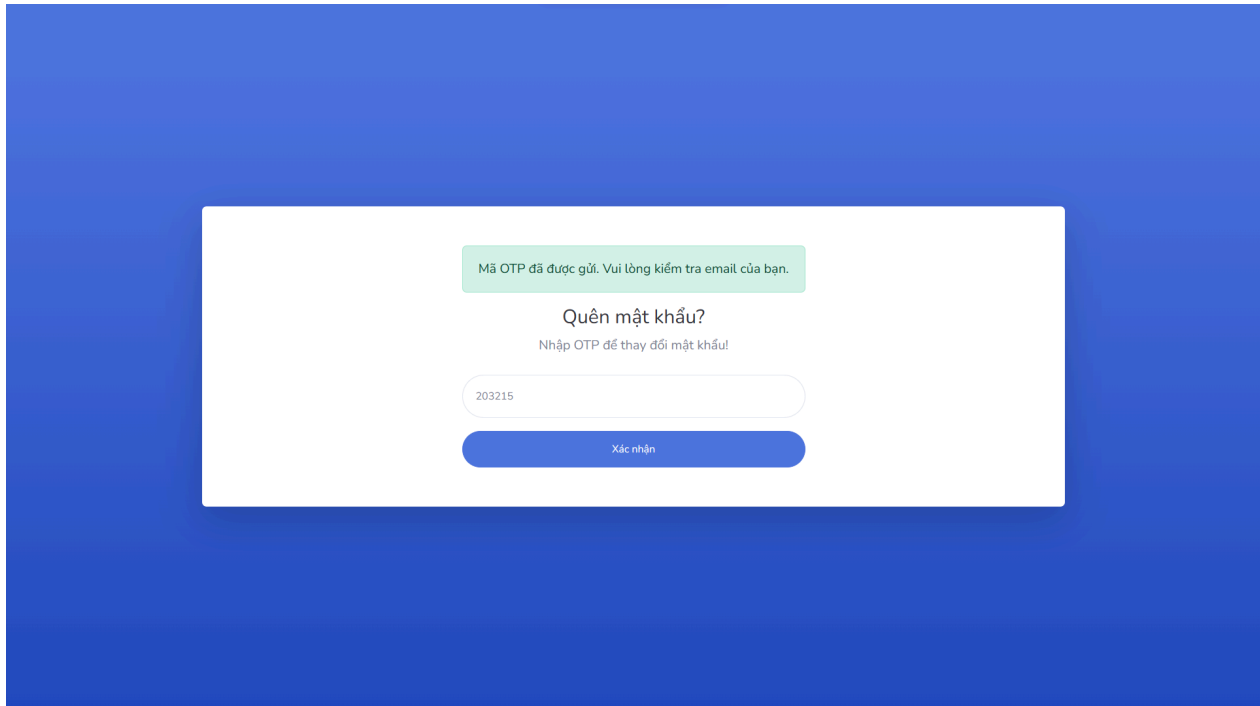


	<p>3. <b>Not exist Email:</b> The SALE DOCK system will reload `Quên mật khẩu` page and display error message MS7 prefer to Message Table.</p> <p><b>E-3. Wrong OTP input field</b></p> <p>1. <b>Not enter OTP:</b> The SALE DOCK system will reload the OTP page and display error message MS10 prefers to Message Table.</p> <p>2. <b>Wrong OTP:</b> The SALE DOCK system will reload the OTP page and display an error message MS12 prefers to Message Table.</p> <p><b>E-4. Wrong New Password and Re-entered Password input field</b></p> <p>1. <b>Not enter Password:</b> The SALE DOCK system will reload Change password page and display error message MS3 and MS14 prefer to Message Table.</p> <p>2. <b>Enter a password that is too short:</b> Prefer to E-4 in UC-E-4-1.</p> <p>3. <b>Re-entered password does not match new password:</b> The SALE DOCK system will reload Change password page and display error message MS15 prefer to Message Table.</p>
Priority	High
Frequency of Use	Approximately 10 employees, each one average of 1 usage per day.
Business Rules	BR-9 -> 11, BR-21, BR-22

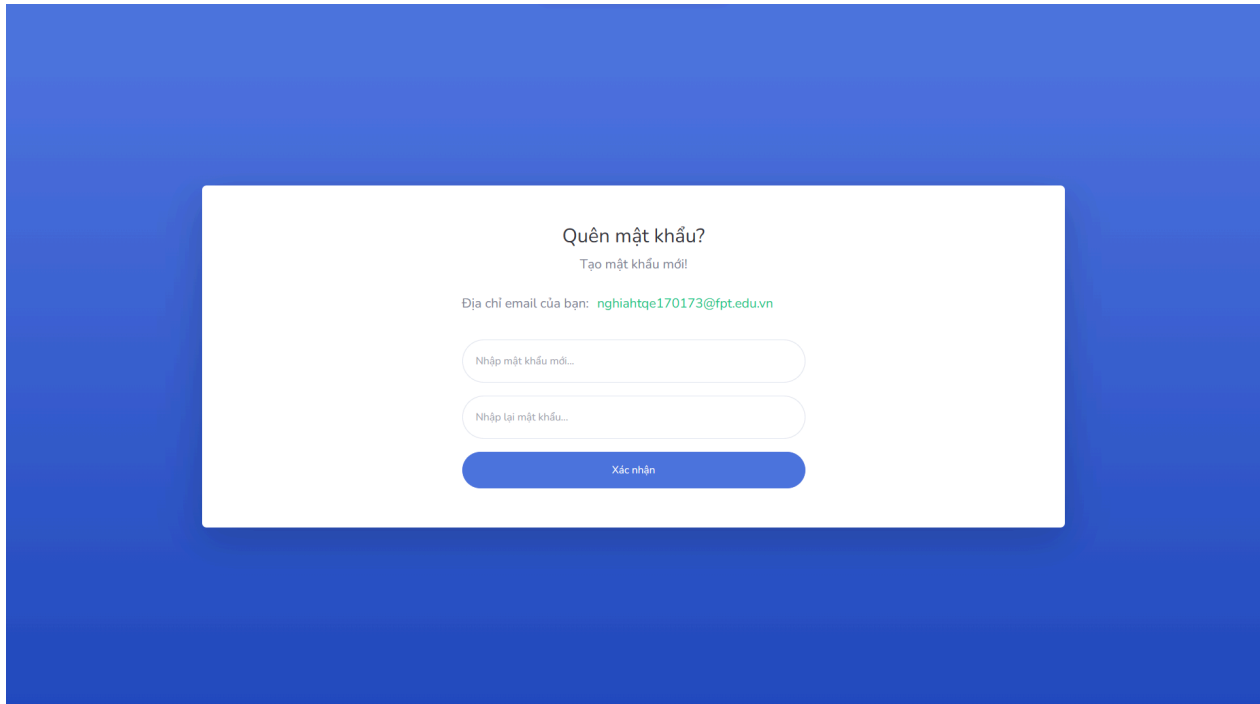
**Screenshot:**



UC-E-4-2: Screenshot 1: Forgot password



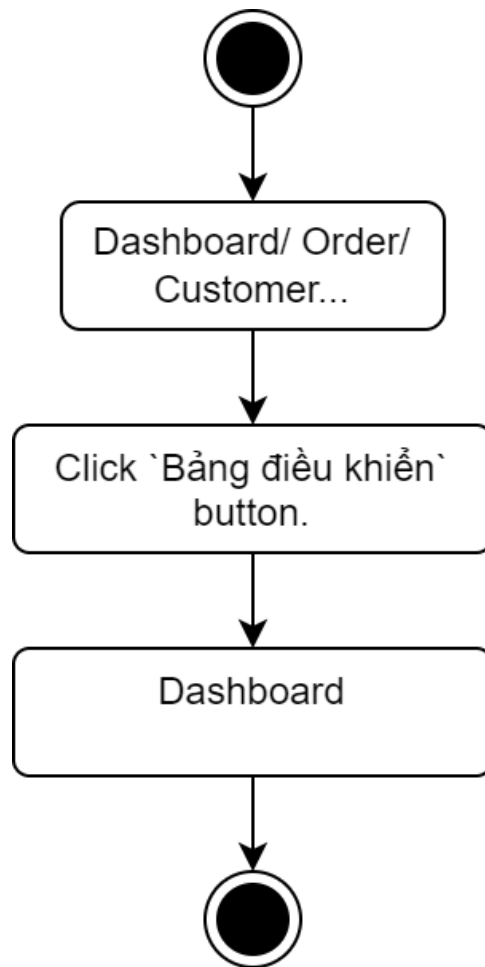
UC-E-4-2: Screenshot 2: Forgot password



UC-E-4-2: Screenshot 3: Forgot password

### c. UC-E-4-3: Dashboard

**Diagram:**



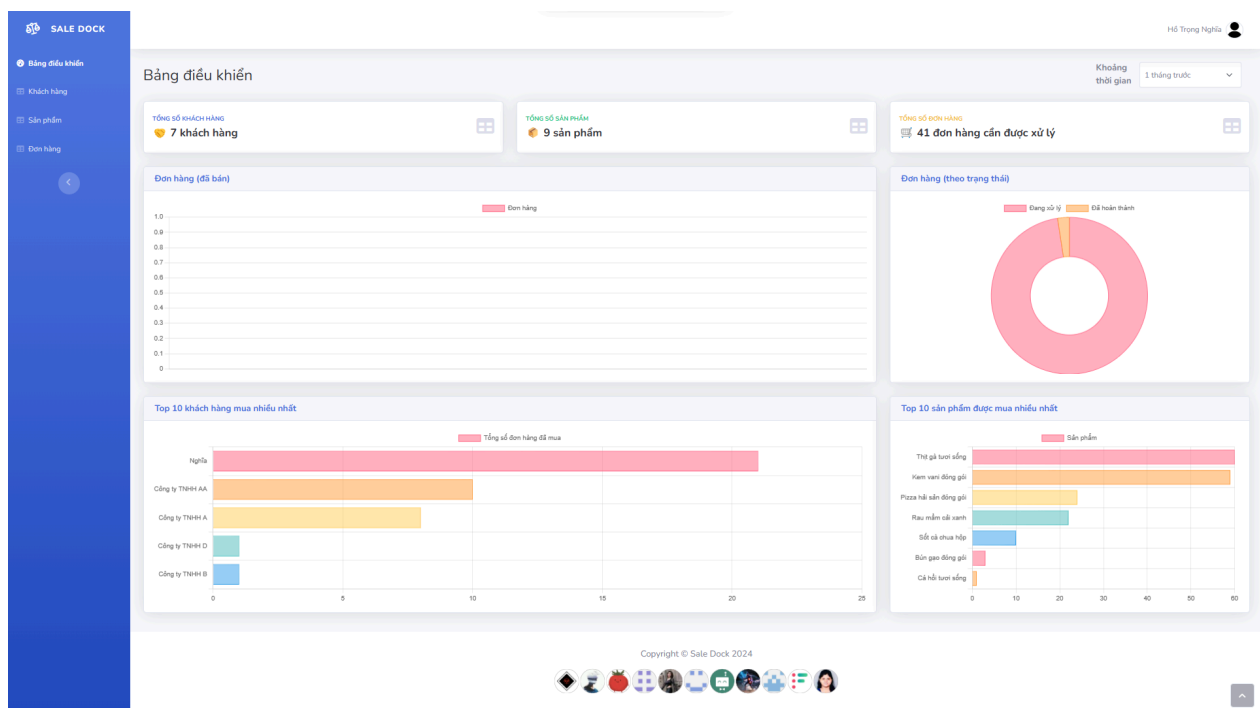
UC-E-4-3: Diagram 1: Dashboard

ID and Name	UC-E-4-3: Dashboard		
Date Created	27/02/2024		
Primary Actor	Employee	Secondary Actors	Sale Dock System
Description	A function that allows employees to select options to manage customer, product, order in the system.		
Trigger	An employee wants to select options to manage customer, product, order in the system and click the `Bảng điều khiển` button.		
Preconditions	PRE-1. Employees must be logged into the Sale Dock System.		

## Software Requirements Specification - Sale Dock

Postconditions	POST-1. Data Displayed: Total of customer, product, order and chart is correctly displayed.
Normal Flow	<b>NF-1. Dashboard</b> 1. Click `Bảng điều khiển` button.
Alternative Flow	<b>N/A</b>
Exceptions	<b>E-1. E1 Database connection failure</b> 1. The SALE DOCK System generates an exception indicating the database connection failure. 2. The Employee is notified of the issue and prompted to check network connectivity or contact technical support.
Priority	High
Frequency of Use	Approximately 10 employees, each one average of 100 usage per day.
Business Rules	BR-23, BR-24

### Screenshot:



UC-E-4-3: Screenshot 1: Dashboard

## IV. Non-Functional Requirements

### 1. Usability

#	Requirement
1	Has the menu bar, users can quickly find and access features.
2	Brightly coloured buttons, helping users find and use them easily.
3	UI like screen, pop-ups, buttons, warning message, success message, email must be used in Vietnamese. There are some buttons in the popup that can be used in English.

### 2. Performance

#	Requirement
1	Email will be sent < 5 seconds from the time the trigger sends the email until the user receives it.
2	Maximum page load time is about 5 seconds.

### 3. Security

#	Requirement
1	Has Login and Forgot password feature.

## 4. Supportability

#	Requirement
1	Supported browsers: <ul style="list-style-type: none"><li>- Google Chrome v122.0.6261</li><li>- Firefox v123.1.0</li><li>- Microsoft Edge v122.0.2365.92</li></ul>

## 5. Reliability

N/A

## 6. Testability

N/A