

CAPSTONE PROJECT REPORT

Report 4 – Software Design Document

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I. Record of Changes

Date	A* M, D	In charge	Change Description
2/6/2023	Α	HungLM	System design, Detailed design
2/6/2023	Α	QuocTK	Database Design
5/6/2023	М	HungLM	Database Design, Detailed Design
5/6/2023	М	QuocTK	Database Design

^{*}A - Added M - Modified D - Deleted

II. Software Design Document

- 1. System Design
- **1.1 System Architecture**
- 1.1.1 Overall Architecture Design

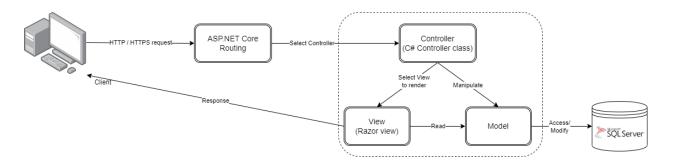


Figure 1.1.1.1: Overall Architecture Design

1.2 Package Diagram

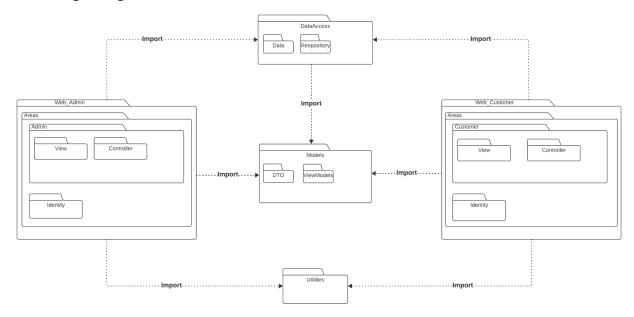


Figure 1.2.1: Package Diagram

Package Descriptions

No	Package	Description	
01	Data	Responsible for managing the connection, mapping models to tables,	
		change tracking, executing queries, and managing transactions when	
		interacting with a database in application.	
02	Models	Representation class of entity in database	
03	DTO	Data transfer object	
04	ViewModels	Objects only to view purpose	
05	Controllers	System controllers	
06	Identity	Identity configure	
07	Views	Web UI	
08	Utilities	Contains Helper Class such as: StaticDetail, EmailSender,	

2. Database Design

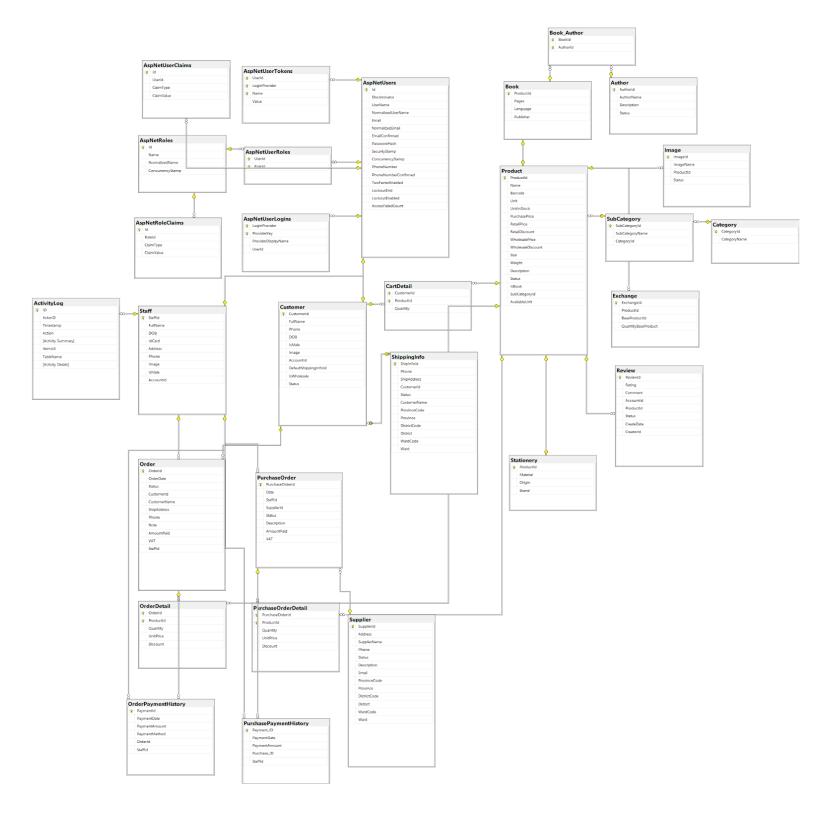


Figure 2.1: Database Diagram

Table Descriptions

2.1 Tables

No	Table	Description	
1	AspNetUserClaims	Store additional claims or user-specific information associated with a user	
2	AspNetRoles	Store user roles or groups that define access permissions and behaviors within the application.	
3	AspNetRoleClaims	Store additional claims or role-specific information associated with user roles. These claims can define custom permissions or attributes for specific roles	
4	AspNetUserTokens	Store authentication tokens associated with users, which can be used for various security-related operations, such as email confirmation, password reset, and two-factor authentication	
5	AspNetUserRoles	Associate users with their respective roles. It defines the many-to-many relationship between users and roles, indicating which roles a user belongs to within the application.	
6	AspNetUserLogins	Store external login information for users, such as logins through external identity providers like Google, Facebook, or Microsoft. It allows users to associate multiple external accounts with their application account.	
7	AspNetUsers	Store user account information, including authentication credentials (such as hashed passwords), user properties, and related data. It forms the core table for managing user identities within the application.	
8	ActivityLog	Store list of system activities	
9	Staff	Store list of staffs	
10	Customer	Store list of customers	
11	Order	Store list of orders	
12	OrderDetail	Store list of order details	
13	OrderPaymentHistory	Store list of order payments	
14	PurchaseOrder	Store list of purchase orders	
15	PurchaseOrderDetail	Store list of purchase order details	
16	PurchasePaymentHistory	Store list of purchase order payments	
17	Supplier	Store list of suppliers	
18	ShippingInfo	Store list of customer's shipping information	
19	CartDetail	Store list of customer's cart details	
20	Product	Store list of products	
21	Book	Store list of product's subtype books' additional information	
22	Author	Store list of book authors	
23	Book_Author	Store many-many relationship of books and authors	
24	Stationery	Store list of product's subtype stationeries' additional information	
25	Image	Store list of product's images	
26	Category	Store list of product categories	
27	SubCategory	Store list of product sub-categories	
28	Exchange	Store list of exchanges between products (for product version control)	

29	Review	Store list of product reviews
1 2 2	ICCVICVV	Store list of product reviews

2.2 Attributes

2.2.1 AspNet User Claims table

No	Field Name	Туре	Description
1	Id	int	Primary Key
			Auto increment
			Unique claim identifier
2	UserId	nvarchar(450)	Foreign key to AspNetUsers
3	ClaimType	nvarchar(MAX)	Represents the type of the claim
4	ClaimValue	nvarchar(MAX)	The value associated with the claim type

2.2.2 AspNet Roles table

No	Field Name	Туре	Description
1	Id	nvarchar(450)	Primary Key
			A unique identifier for each role
2	Name	nvarchar(256)	Name of the role
3	NormalizedN	nvarchar(256)	Normalized name of the role (usually uppercase)
	ame		
4	Concurrency	nvarchar(MAX)	Concurrency stamp for optimistic concurrency
	Stamp		

2.2.3 AspNet Role Claims table

No	Field Name	Туре	Description
1	Id	int	Primary Key
			Auto increment
			Unique claim identifier
2	RoleId	nvarchar(450)	Foreign key referencing the associated role
3	ClaimType	nvarchar(MAX)	Type of the claim
4	ClaimValue	nvarchar(MAX)	Value of the claim

2.2.4 AspNet User Tokens table

No	Field Name	Туре	Description	
1	UserId	nvarchar(450)	Primary Key	
			Foreign key referencing the associated user	
2	LoginProvider	nvarchar(450)	Primary Key	
			The external login provider (e.g., Google)	
3	Name	nvarchar(450)	Primary Key	
			The name of the token (e.g., "authenticator")	
4	Value	nvarchar(MAX)	The token value	

2.2.5 AspNet Role Claims table

No	Field Name	Туре	Description
----	------------	------	-------------

1	Id	int	Primary Key
			Auto increment
			Unique identifier for the role claim.
2	RoleId	nvarchar(450)	Foreign key reference to the "Id" field in the
			"AspNetRoles" table, indicating the associated role.
3	ClaimType	nvarchar(MAX)	Represents the type of the claim being stored.
4	ClaimValue	nvarchar(MAX)	Holds the value of the claim.

2.2.6 AspNet User Roles table

No	Field Name	Туре	Description
1	Userld	nvarchar(450)	Foreign key reference to the "Id" field in the
			"AspNetUsers" table, indicating the associated user.
2	RoleId	nvarchar(450)	Foreign key reference to the "Id" field in the
			"AspNetRoles" table, indicating the associated role.

2.2.7 AspNet User Logins table

No	Field Name	Туре	Description
1	LoginProvider	nvarchar(450)	The external login provider, e.g., "Google", "Facebook".
2	ProviderKey	nvarchar(450)	The unique identifier provided by the external provider.
3	ProviderDisplay	nvarchar(MAX)	A user-friendly display name for the external provider.
	Name		
4	UserId	nvarchar(450)	Foreign key reference to the user's primary key.

2.2.8 AspNetUsers table

No	Field Name	Туре	Description
1	Id	nvarchar(450)	Primary Key
			Unique identifier for the user.
2	UserName	nvarchar(256)	The username used for authentication.
3	NormalizedUser Name	nvarchar(256)	The normalized version of the username.
4	Email	nvarchar(256)	The user's email address.
5	NormalizedEmai I	nvarchar(256)	The normalized version of the email address.
6	EmailConfirmed	bit	Indicates if the user's email is confirmed.
7	PasswordHash	nvarchar(MAX)	The hashed password for the user.
8	SecurityStamp	nvarchar(MAX)	A random value used to improve security.
9	ConcurrencySta mp	nvarchar(MAX)	Used for concurrency control.
10	PhoneNumber	nvarchar(MAX)	The user's phone number.
11	PhoneNumberC	bit	Indicates if the user's phone number is confirmed.
	onfirmed		
12	TwoFactorEnabl ed	bit	Indicates if two-factor authentication is enabled.
13	LockoutEnd	datetimeoffset(7)	Date and time when lockout ends (if applicable).
14	LockoutEnabled	bit	Indicates if user lockout is enabled

15	AccessFailedCou	int	Number of failed access attempts.
	nt		

2.2.9 Activity Log table

No	Field Name	Туре	Description
1	ID	int	ID of an activity
			Primary Key
			Auto increment
2	ActorID	int	ID of the staff doing the activity
			Foreign key reference to "StaffId" of "Staff" table
3	Timestamp	datetime	Time of the activity
4	Action	nvarchar(30)	Type of activity
5	Activity	nvarchar(100)	Short summary of the activity
	Summary		
6	ItemsId	nvarchar(30)	ID of the item affected by the activity
7	TableName	nvarchar(50)	Name of the table affected by the activity
8	Activity	ntext	Detail description of the activity
	Details		

2.2.10 Staff table

No	Field Name	Туре	Description
1	StaffId	int	ID of staff
			Primary Key
			Auto increment
2	FullName	nvarchar(70)	Full name of staff
3	DOB	date	Birthdate of staff
4	IdCard	nchar(12)	National Id card number of staff
5	Address	nvarchar(12)	Home address of staff
6	Phone	nchar(10)	Phone number of staff
7	Image	nvarchar(150)	Directory to the avatar image of staff
8	IsMale	bit	Staff gender
			True is Male
			False is Female
9	AccountId	nvarchar(450)	Account ID of staff
			Foreign key reference to "ID" of "AspNetUsers" table
			Unique

2.2.11 Customer table

No	Field Name	Туре	Description
1	CustomerId	int	ID of customer
			Primary Key
			Auto increment
2	FullName	nvarchar(100)	Full name of customer
3	Phone	nchar(10)	Phone number of customer
4	DOB	date	Birthdate of customer
5	IsMale	bit	Gender of customer
			True for Male
			False for Female
6	Image	nvarchar(150)	Directory to the avatar image of customer
7	AccountId	nvarchar(450)	Account ID of customer
			Foreign key reference to "ID" of "AspNetUsers" table
			Unique
8	Default	int	Customer's default shipping information ID
	ShippingInfo		Foreign key reference to "ShipInfold" of "ShippingInfo" table
9	IsWholesale	bit	Customer type - retail or wholesale
			True for Wholesale customer
			False for Retail customer
10	Status	bit	Customer's status
			True for Active
			False for Inactive

2.2.12 Order table

No	Field Name	Туре	Description
1	OrderId	int	ID of Order
			Primary Key
			Auto increment
2	OrderDate	datetime	Order's creation date
3	Status	nvarchar(50)	Status of order
4	CustomerId	int	ID of order's customer
			Foreign key reference to "CustomerID" of "Customer" table
5	Customer	nvarchar(100)	Recipient name of order
	Name		
6	ShipAddress	nvarchar(300)	Shipping Address of order
7	Phone	nchar(10)	Recipient's phone number of order
8	Note	nvarchar(MAX)	Order's note
9	AmountPaid	int	Amount of money already paid for the order
10	VAT	float	Order's VAT
11	StaffId	int	ID of the staff who handles order
			Foreign key reference to "StaffId" of "Staff" table

2.2.13 Order Detail table

No	Field Name	Туре	Description
1	OrderId	int	ID of order this detail belongs to
			Primary Key
			Foreign key reference to "OrderId" of "Order" table
2	ProductId	int	ID of product bought
			Primary key
			Foreign key reference to "ProductId" of "Product" table
3	Quantity	int	The number of products bought
4	UnitPrice	int	The price of 1 unit of product bought
5	Discount	float	Discount of the product bought

2.2.14 Order Payment History table

No	Field Name	Туре	Description
1	PaymentId	int	ID of the order payment
			Primary Key
			Auto increment
2	Payment	datetime	Date of the order payment
	Date		
3	Payment	decimal(15, 0)	The amount of money paid
	Amount		
4	Payment	nvarchar(MAX)	The method of payment
	Method		
5	OrderId	int	ID of the order being paid
			Foreign key reference to "OrderId" of "Order" table
6	StaffId	int	ID of the staff handling the payment
			Foreign key reference to "StaffId" of "Staff" table

2.2.15 Purchase Order table

No	Field Name	Туре	Description
1	Purchase	int	ID of the purchase order
	OrderId		Primary Key
			Auto increment
2	Date	datetime	Purchase order's creation date
3	StaffId	int	ID of the staff handling the purchase order
			Foreign key reference to "StaffId" of "Staff" table
4	SupplierId	int	ID of the Supplier purchased from
			Foreign key reference to "SupplierId" of "Supplier" table
5	Status	nvarchar(30)	Purchase order's status
6	Description	nvarchar(MAX)	Purchase order's optional description
7	AmountPaid	decimal(15, 0)	Amount of money already paid for the purchase order
8	VAT	float	Purchase order's VAT

2.2.16 Purchase Order Detail table

No	Field Name	Туре	Description
1	Purchase	int	ID of the purchase order this detail belongs to
	OrderId		Primary Key
			Foreign key reference to "PurchaseOrderId" of
			"PurchaseOrder" table
2	ProductId	int	ID of product bought
			Primary key
			Foreign key reference to "ProductId" of "Product" table
3	Quantity	int	The number of products bought
4	UnitPrice	decimal(7, 0)	The price of 1 unit of product bought
5	Discount	float	Discount of the product bought

2.2.17 Purchase Payment History table

No	Field Name	Туре	Description
1	PaymentId	int	ID of the purchase order payment
			Primary Key
			Auto increment
2	Payment	datetime	Date of the purchase order payment
	Date		
3	Payment	decimal(15, 0)	The amount of money paid
	Amount		
4	PurchaseId	int	ID of the purchase order being paid
			Foreign key reference to "PurchaseOrderId" of
			"PurchaseOrder" table
5	StaffId	int	ID of the staff handling the payment
			Foreign key reference to "StaffId" of "Staff" table

2.2.18 Supplier table

No	Field Name	Туре	Description
1	SupplierId	int	ID of the supplier
			Primary Key
			Auto increment
2	Address	nvarchar(150)	Supplier's detailed address
3	Supplier	nvarchar(300)	Supplier's name
	Name		
4	Phone	varchar(15)	Supplier's phone number
5	Status	bit	Supplier's status
			True for Active
			False for Inactive
6	Description	nvarchar(1000)	Supplier's description
7	Email	nvarchar(100)	Supplier's email address
8	Province	int	The province code of supplier's address (used by API)
	Code		
9	Province	nvarchar(50)	The province name of supplier's address
10	DistrictCode	int	The district code of supplier's address (used by API)

11	District	nvarchar(50)	The district name of supplier's address
12	WardCode	int	The ward code of supplier's address (used by API)
13	Ward	nvarchar(50)	The ward name of supplier's address

2.2.19 Shipping Info table

No	Field Name	Туре	Description
1	ShipInfold	int	ID of the shipping information
			Primary Key
			Auto increment
2	Phone	nchar(10)	Phone number in shipping information
3	ShipAddress	nvarchar(200)	Address in shipping information
4	CustomerId	int	The Id of customer this shipping information belongs to
			Foreign key reference to "CustomerId" of "Customer" table
5	Status	bit	Shipping's information status
			True for Active
			False for Inactive
6	Customer	nvarchar(50)	Recipient name in shipping information
	Name		
7	Province	int	The province code of shipping information's address (used by
	Code		API)
8	Province	nvarchar(50)	The province name of shipping information's address
9	DistrictCode	int	The district code of shipping information's address (used by
			API)
10	District	nvarchar(50)	The district name of shipping information's address
11	WardCode	int	The ward code of shipping information's address (used by
			API)
12	Ward	nvarchar(50)	The ward name of shipping information's address

2.2.20 Cart Detail table

No	Field Name	Туре	Description
1	CustomerId	int	Id of the customer this cart detail belongs to
			Primary Key
			Foreign key reference to "CustomerId" of "Customer" table
2	ProductId	int	Id of the product in the cart
			Primary Key
			Foreign key reference to "ProductId" of "Product" table
3	Quantity	int	The number of said product in cart

2.2.21 Product table

No	Field Name	Туре	Description
1	ProductId	int	Id of product
			Primary Key
			Auto increment
2	Name	nvarchar(100)	Name of product
3	Barcode	nvarchar(50)	Barcode of product
			Unique
4	Unit	nvarchar(50)	The unit this product is calculated in (individual item, box,
			package,)
5	UnitInStock	int	The number of product units currently in storage
6	Purchase	decimal(7, 0)	Product's purchase price
	Price		
7	RetailPrice	int	Product's retail price
8	Retail	float	Product's discount when sold to retail customers
	Discount		
9	Wholesale	int	Product's wholesale price
	Price		
10	Wholesale	float	Product's discount when sold to wholesale customers
	Discount		
11	Size	nvarchar(50)	Product's size
12	Weight	nvarchar(50)	Product's weight
13	Description	ntext	Product's description
14	Status	bit	Product's status
			True for Active
			False for Inactive
15	IsBook	bit	Product's subtype - Book or Stationery
			True for Book
			False for Stationery
16	SubCategory	int	Id of Product's subcategory
	Id		Foreign key reference to "SubCategoryId" of "SubCategory"
			table
17	Available	int	The number of product units that can be sold
	Unit		

2.2.22 Book table

No	Field Name	Туре	Description
1	ProductId	int	Id of this book product
			Primary Key
			Foreign key reference to "ProductId" of "Product" table
2	Pages	int	Number of pages this book has
3	Language	nvarchar(50)	Language of this book
4	Publisher	nvarchar(100)	This book's publisher's name

2.2.23 Author table

No	Field Name	Туре	Description
1	Authorld	int	ld of author
			Primary Key
			Auto increment
2	AuthorName	nvarchar(50)	Name of author
3	Description	ntext	Author's description
4	Status	bit	Author's status
			True for Active
			False for Inactive

2.2.24 Book-Author table

No	Field Name	Туре	Description
1	BookId	int	Id of book
			Primary Key
			Foreign key reference to "ProductId" of "Book" table
2	Authorld	int	Id of author
			Primary Key
			Foreign key reference to "AuthorId" of "Author" table

2.2.25 Stationery table

No	Field Name	Туре	Description
1	ProductId	int	Id of this stationery product
			Primary Key
			Foreign key reference to "ProductId" of "Product" table
2	Material	nvarchar(50)	Stationery's material
3	Origin	nvarchar(50)	Stationery's origin country
4	Brand	nvarchar(100)	Stationery's brand

2.2.26 Image table

No	Field Name	Туре	Description
1	ImageId	int	Id of image
			Primary Key
			Auto increment
2	ImageName	nvarchar(50)	Name of the image file
3	ProductId	int	ID of the product this image belongs to
			Foreign key reference to "ProductId" of "Product" table
4	Status	bit	Image's status
			True for Active
			False for Inactive

2.2.27 Category table

No	Field Name	Туре	Description
1	CategoryId	int	ID of category
			Primary Key
			Auto increment
2	Category	nvarchar(50)	Name of category
	Name		

2.2.28 Sub-category table

No	Field Name	Туре	Description
1	SubCategory	int	ID of subcategory
	Id		Primary Key
			Auto increment
2	SubCategory	nvarchar(50)	Name of subcategory
	Name		
3	CategoryId	int	ID of the category this subcategory belongs to
			Foreign key reference to "CategoryId" of "Category" table

2.2.29 Exchange table

No	Field Name	Туре	Description
IVU		туре	•
1	Exchangeld	int	ID of exchange
			Primary Key
			Auto increment
2	ProductId	int	ID of the product converted into
			Foreign key reference to "ProductId" of "Product" table
3	BaseProduct	int	ID of the product being converted
	Id		Foreign key reference to "ProductId" of "Product" table
4	Quantity	int	The number of base product units 1 new product unit
	BaseProduct		consists of

2.2.30 Review table

No	Field Name	Туре	Description
1	ReviewId	int	ID of review
			Primary Key
			Auto increment
2	Rating	float	Rating on the scale of 5 in the review
3	Comment	text	The content of review's comment
4	AccountId	int	ID of the customer making the review
5	ProductId	int	ID of the product this review is for
			Foreign key reference to "ProductId" of "Product" table
6	Status	bit	Review's status
			True for Active
			False for Inactive
7	CreateDate	datetime	The time and date this review is added

3. Detailed Design

3.1 Authentication and Authorization functions

3.1.1 Class Diagram

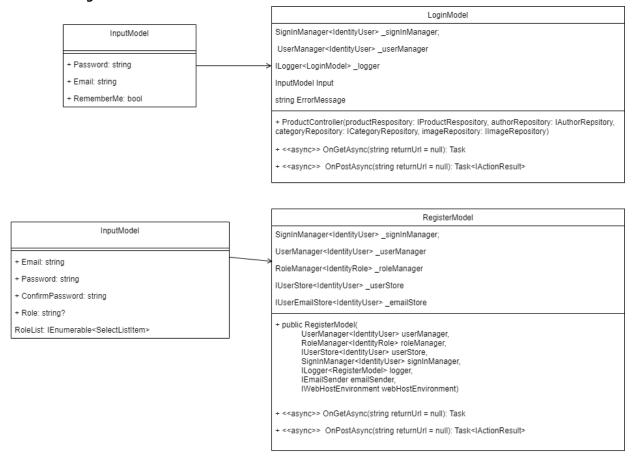


Figure 3.1.1.1: Authentication and Authorization functions class diagram

Figure 3.1.2.1: Login sequence diagram

3.1.3. Forgot Password

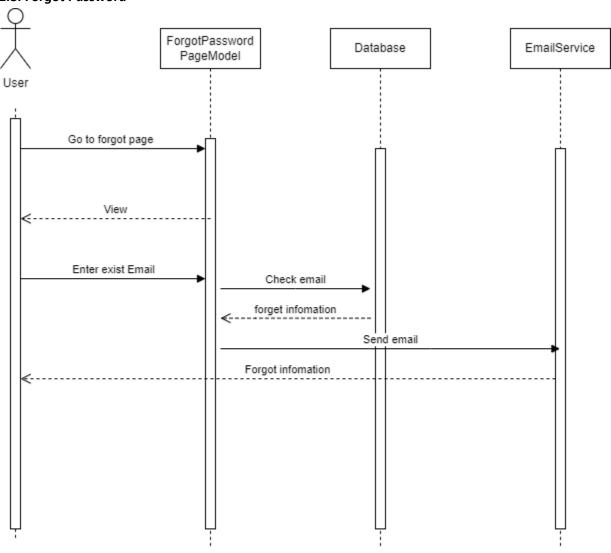


Figure 3.1.3.1: Forgot password sequence diagram

3.1.4. Register

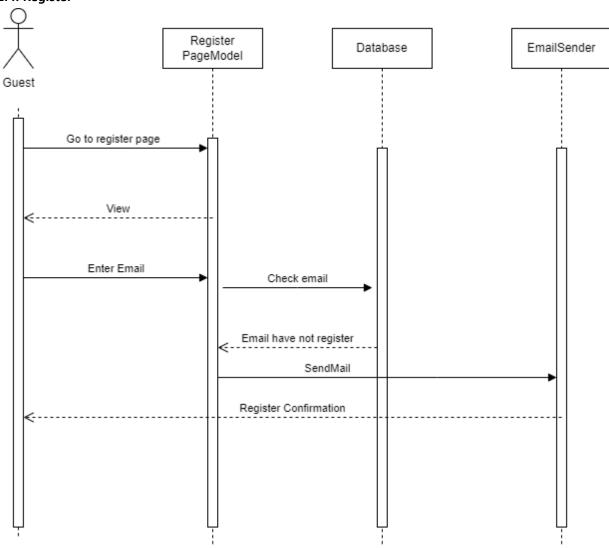


Figure 3.1.4.1: Register sequence diagram

3.1.5 Email Re-confirm

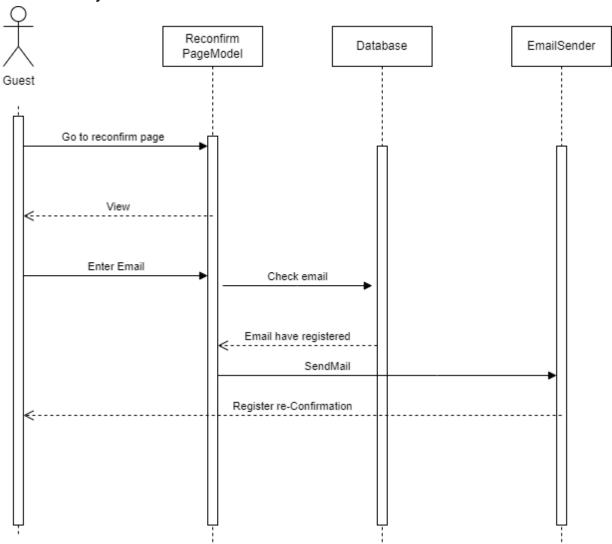


Figure 3.1.5.1: E-mail Re-confirm sequence diagram

3.1.6 Logout

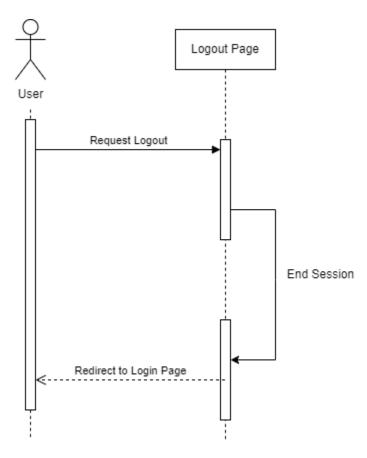


Figure 3.1.6.1: Logout sequence diagram

3.2 Category and Subcategory Management

3.2.1 Class Diagram

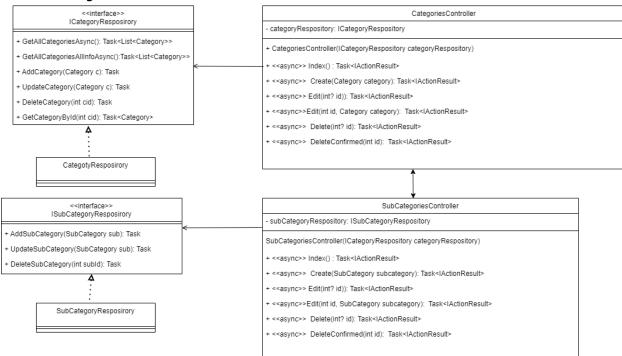


Figure 3.2.1.1: Category and Subcategory Management class diagram

3.2.2 View list category and subcategories

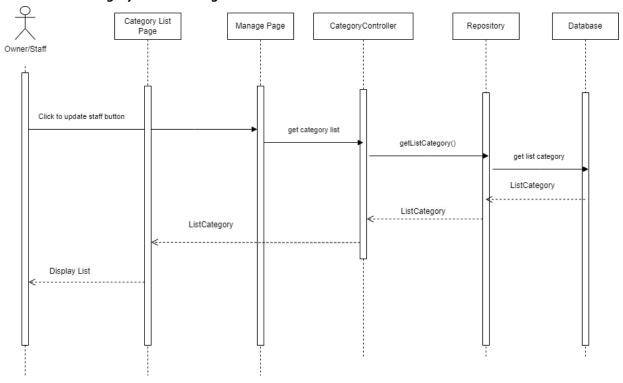


Figure 3.2.2.1: View list category and subcategories sequence diagram

3.2.2 Add category ListCategoryPage CreateCategoryPage CategoryController CategoryRepository Database Click create category New Category CreateCate(Category c) Add category Notify message "Thêm losi sắn phẩm thành công"

Figure 3.2.2.1: Add category sequence diagram

3.2.3 Update category

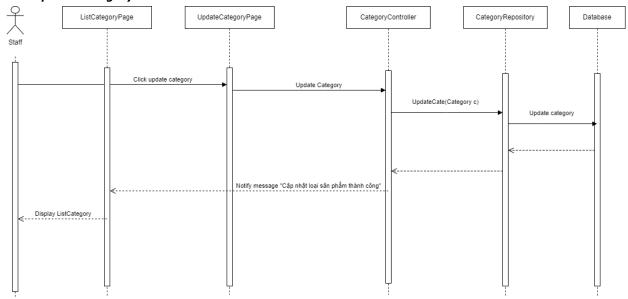


Figure 3.2.3.1: Update category sequence diagram

3.2.4 Delete category

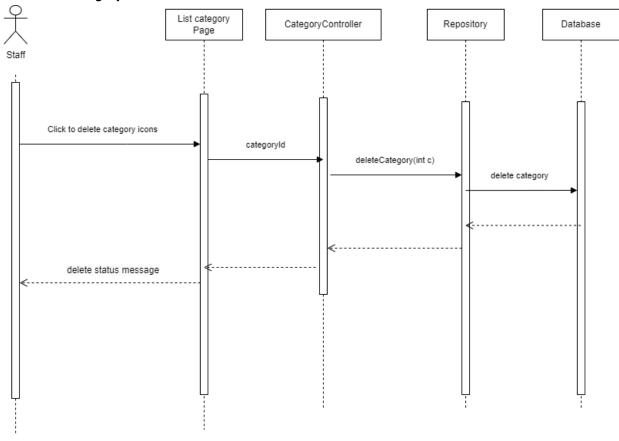


Figure 3.2.4.1: Delete category sequence diagram

3.2.5 Add subcategory

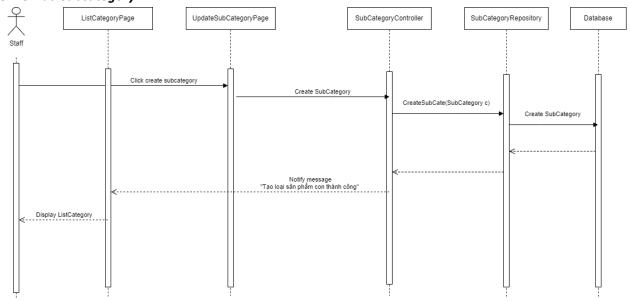


Figure 3.2.5.1: Add subcategory sequence diagram

3.2.6 Update subcategory

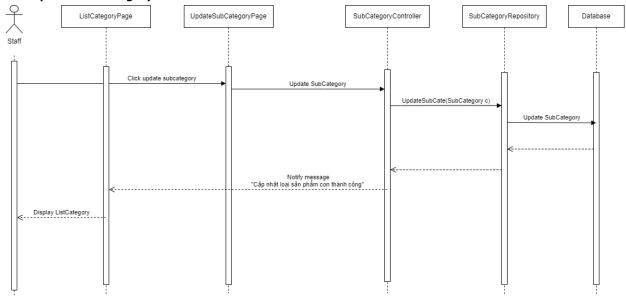


Figure 3.2.6.1: Update subcategory sequence diagram

3.2.7 Delete subcategory

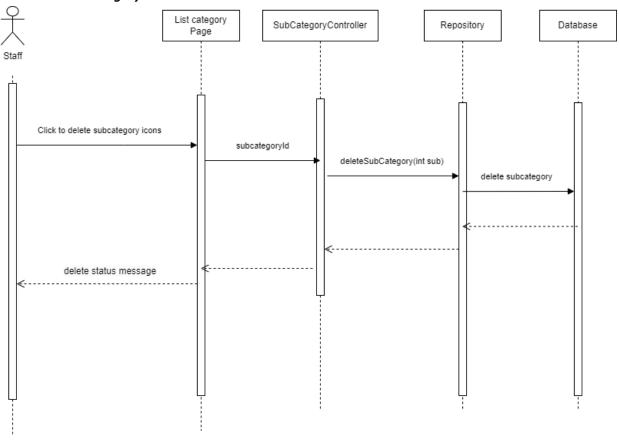


Figure 3.2.7.1: Delete subcategory sequence diagram

3.3 Product Management

3.3.1 Class Diagram

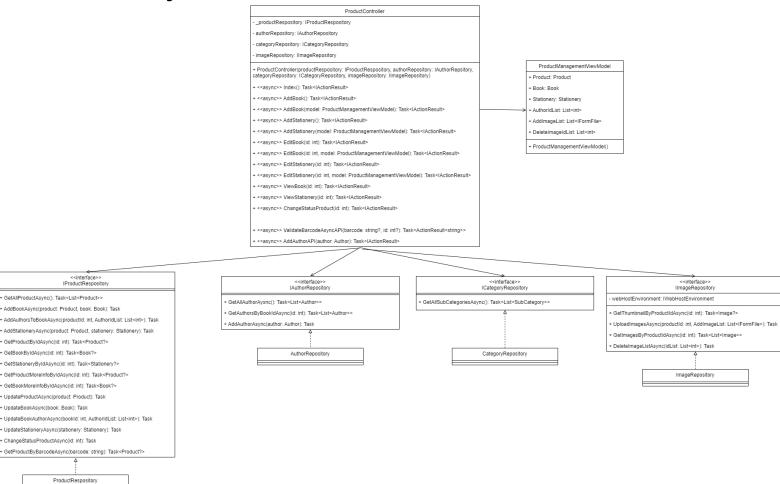


Figure 3.3.1.1: Product Management functions class diagram

3.3.2 View List Products

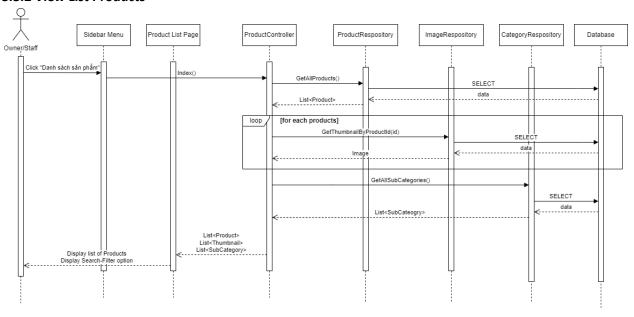


Figure 3.3.2.1: View List Products sequence diagram

3.3.3 View Product Details

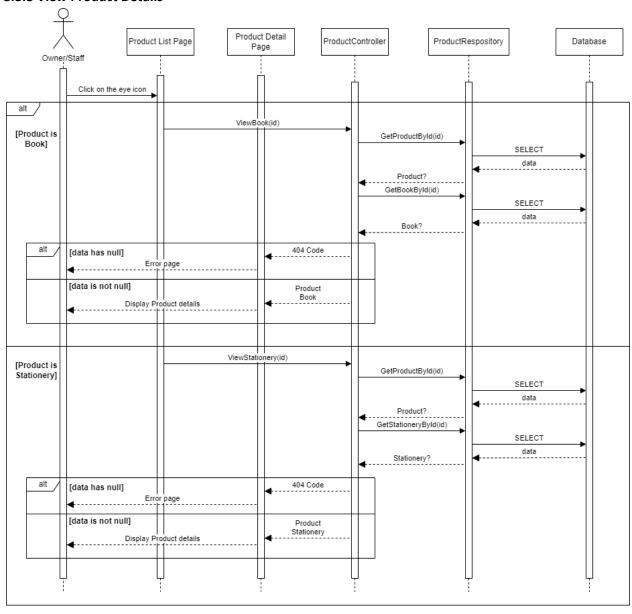


Figure 3.3.3.1: View Product Details sequence diagram

3.3.4 Create Product

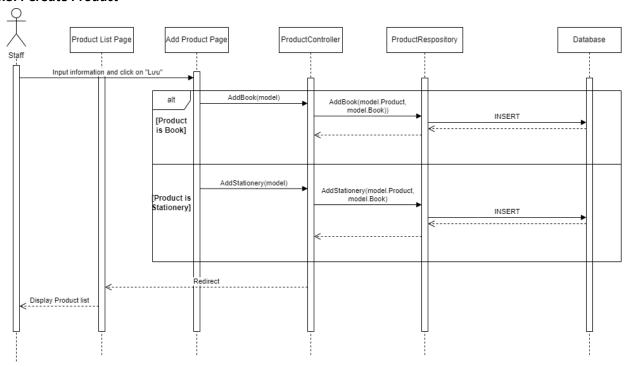


Figure 3.3.4.1: Create Product sequence diagram

3.3.5 Update Product

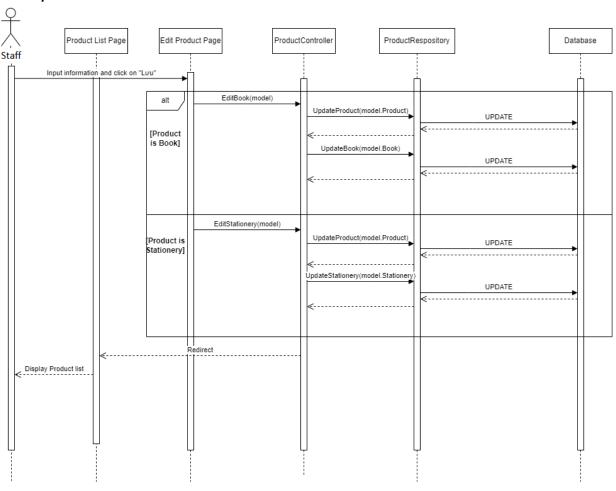


Figure 3.3.5.1: Update Product sequence diagram

3.4 Author Management

3.4.1 Class Diagram

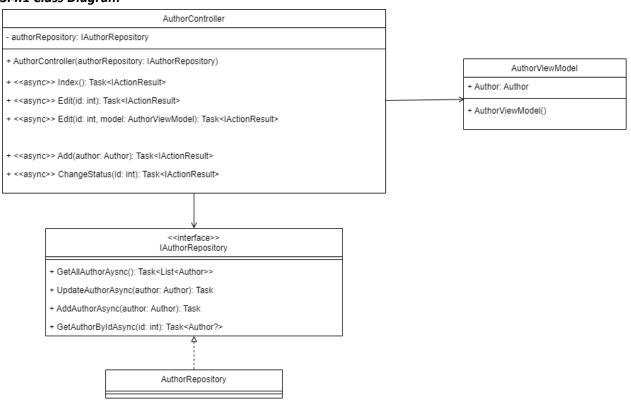


Figure 3.4.1.1: Author Management functions class diagram

3.4.2 View list of Authors

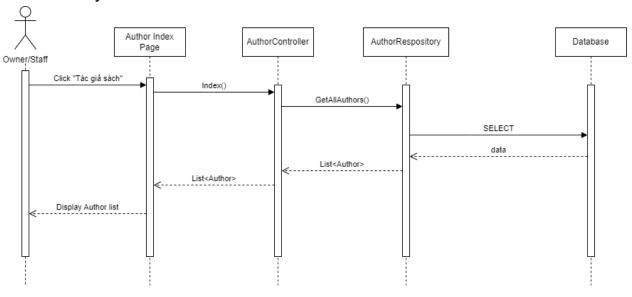


Figure 3.4.2.1: View list of Authors sequence diagram

3.4.3 Add new Author

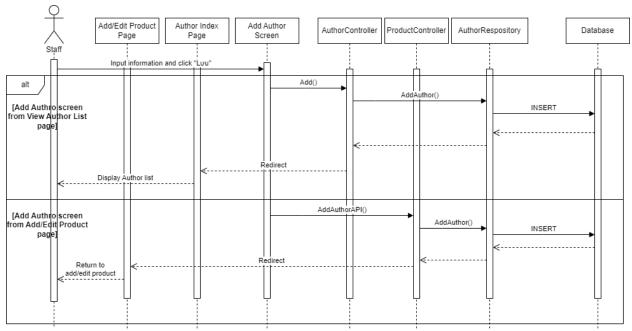


Figure 3.4.3.1: Add new Author sequence diagram

3.4.4 Edit Author

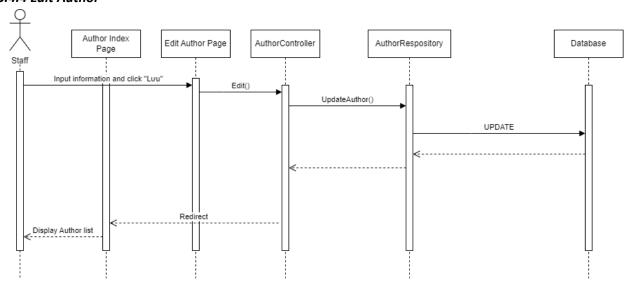


Figure 3.4.4.1: Edit Author sequence diagram

3.4.5 Change Status Author

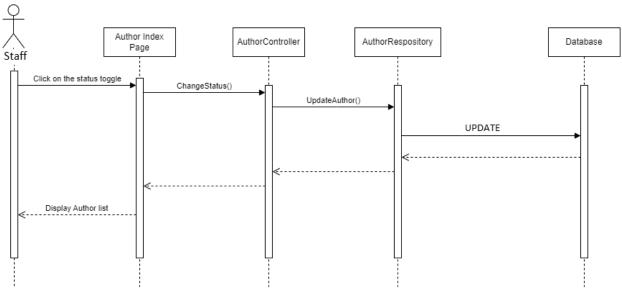


Figure 3.4.5.1: Change Status Author sequence diagram

3.5 Buy Products

3.5.1 Class Diagram

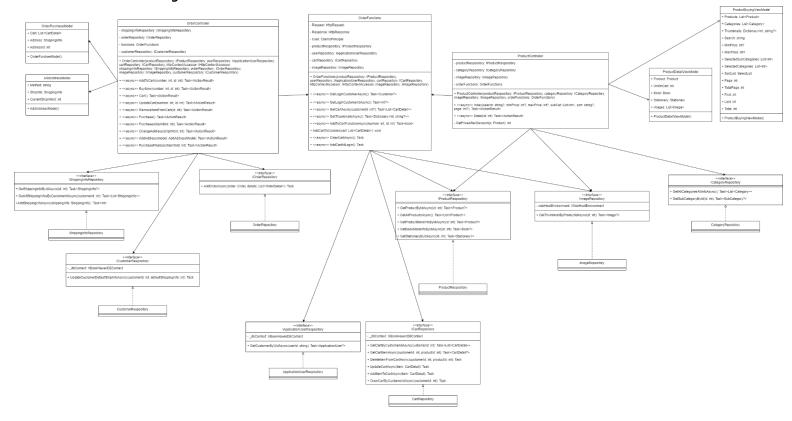


Figure 3.5.1.1: Buy Products functions class diagram

3.5.2 View List Products (Customer)

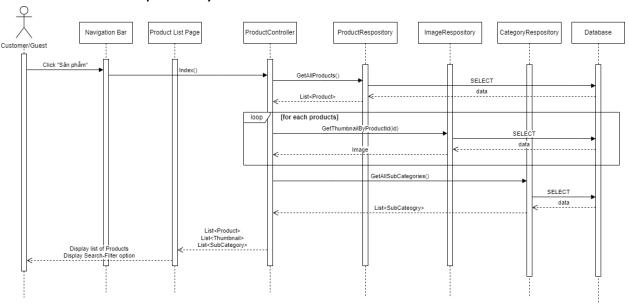


Figure 3.5.2.1: View List Products (Customer) functions sequence diagram

3.5.3 View Product Details (Customer)

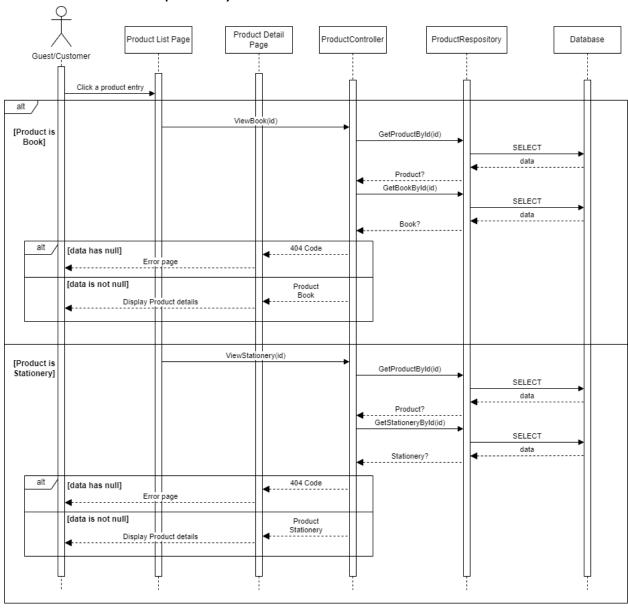


Figure 3.5.3.1: View Product Details (Customer) functions sequence diagram

3.5.4 Add Product to Cart

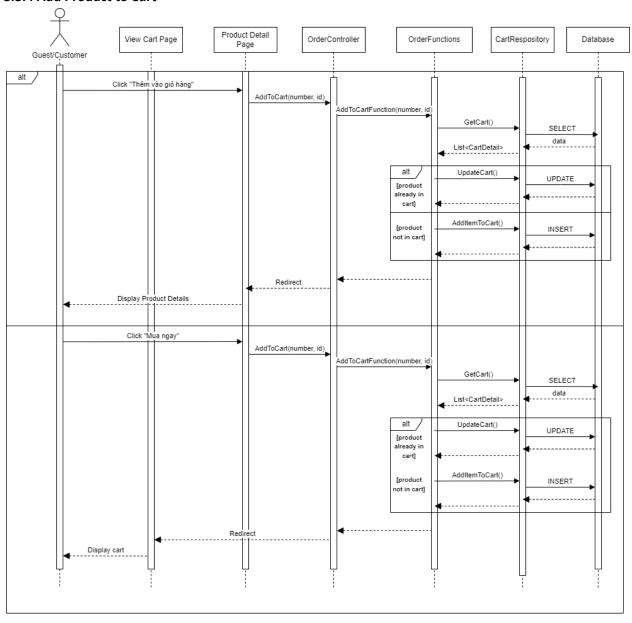


Figure 3.5.4.1: Add Product to Cart functions sequence diagram

3.5.5 View Cart

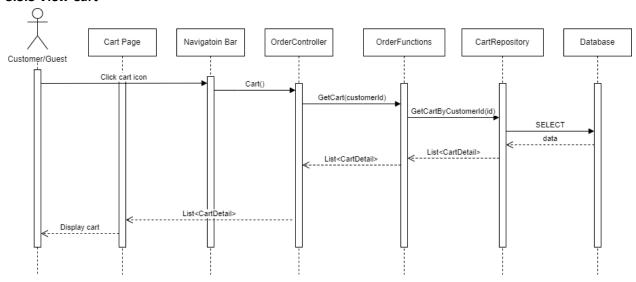


Figure 3.5.5.1: View Cart functions sequence diagram

3.5.6 Update Cart

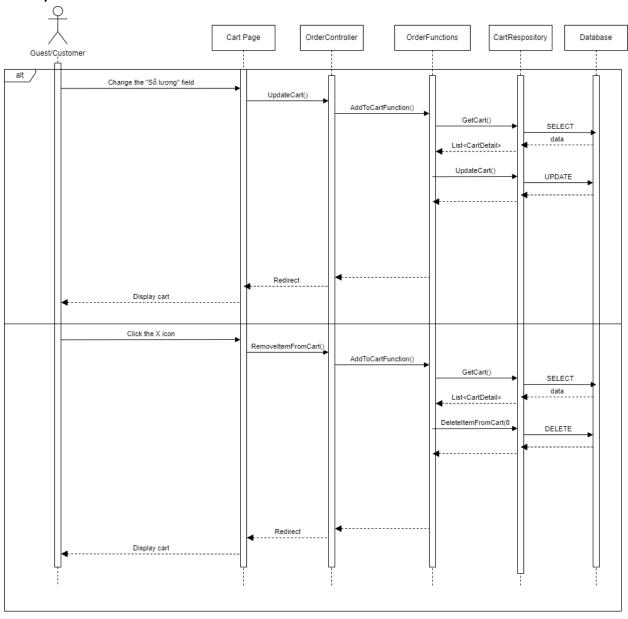


Figure 3.5.6.1: Update Cart functions sequence diagram

3.5.7 Make an Order (Customer)

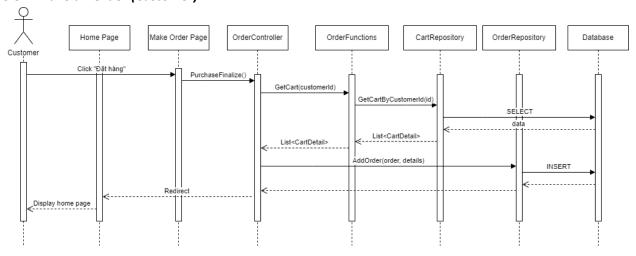


Figure 3.5.6.1: Update Cart functions sequence diagram

3.6 Order Management

3.6.1 Class Diagram

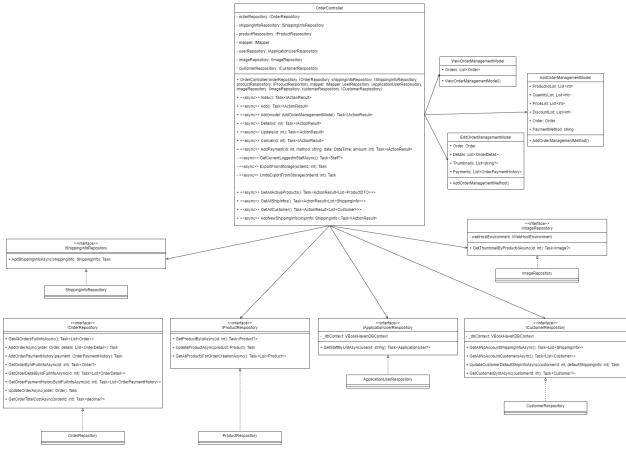


Figure 3.6.1.1: Order Management functions class diagram

3.6.2 View List Orders

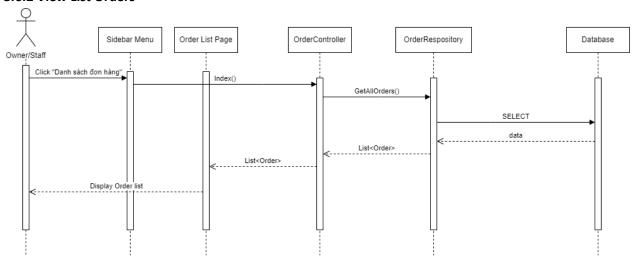


Figure 3.6.2.1: View List Orders functions sequence diagram

3.6.3 Create Order

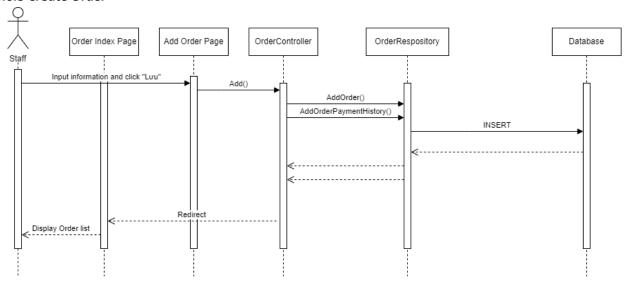


Figure 3.6.3.1: Create Order functions sequence diagram

3.6.4 View Order Details

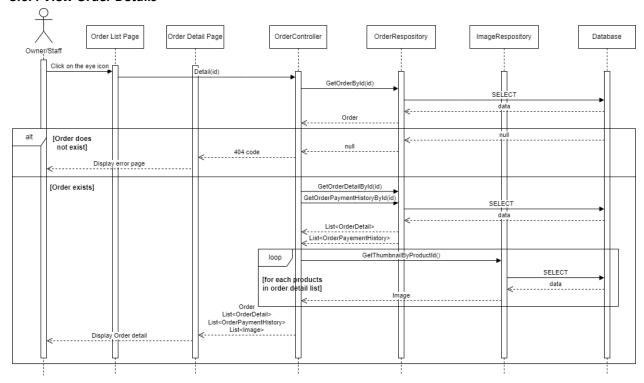


Figure 3.6.4.1: View order details sequence diagram

3.6.5 Update Order Status

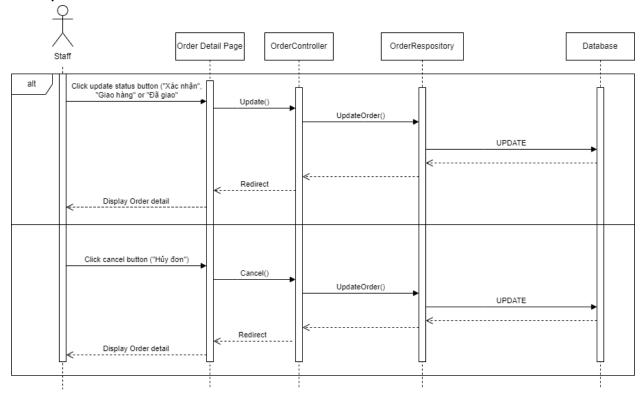


Figure 3.6.5.1: Update Order Status sequence diagram

3.6.6 Add Order Payment

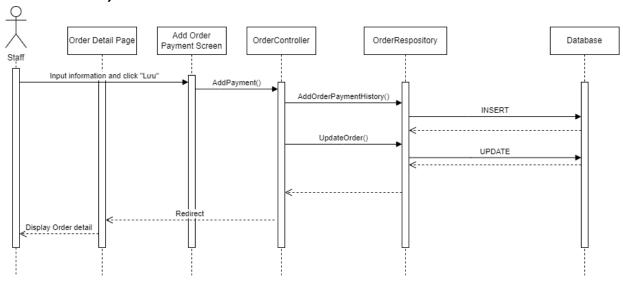


Figure 3.6.6.1: Add Order Payment sequence diagram

3.7 Purchase Order Management

3.7.1 Class Diagram

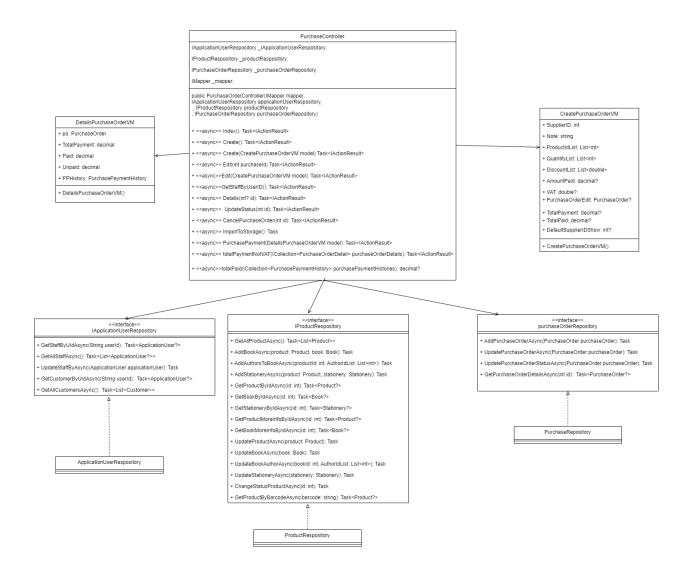


Figure 3.7.1.1: Purchase Order Management class diagram

3.7.2 View List Purchase Orders

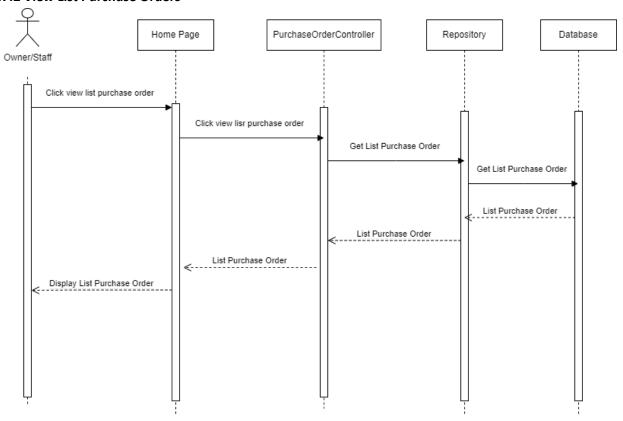


Figure 3.7.2.1: View List Purchase Orders sequence diagram

3.7.3 Update Purchase Orders Status

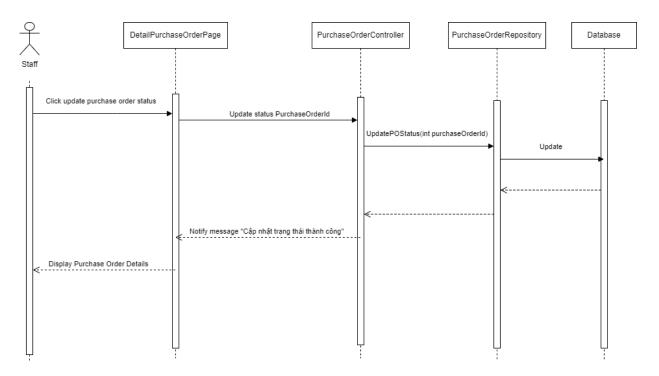


Figure 3.7.3.1: Update Purchase Orders Status sequence diagram

3.7.4 Create Purchase Orders

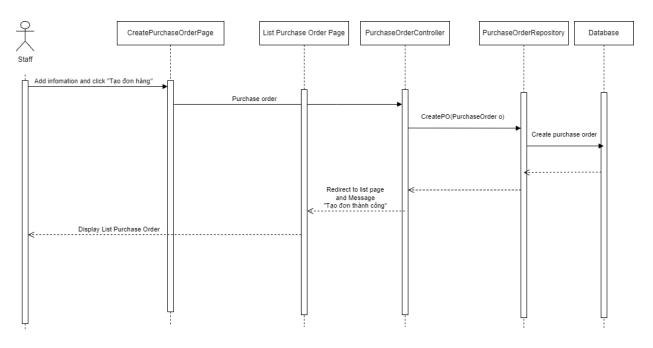


Figure 3.7.4.1: Create Purchase Orders sequence diagram

3.7.5 Update purchase order

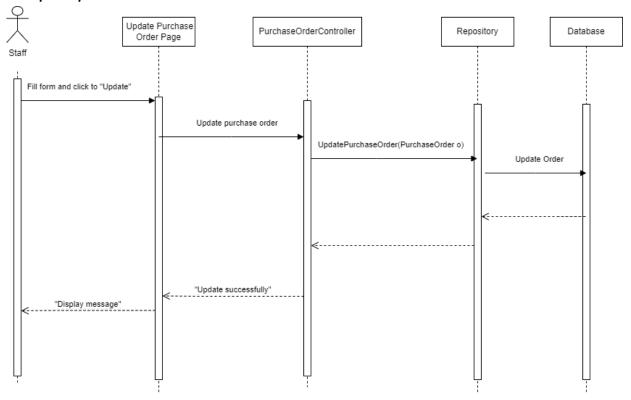


Figure 3.7.5.1: Update purchase order sequence diagram

3.8 Account Staff Management

3.8.1 Class Diagram

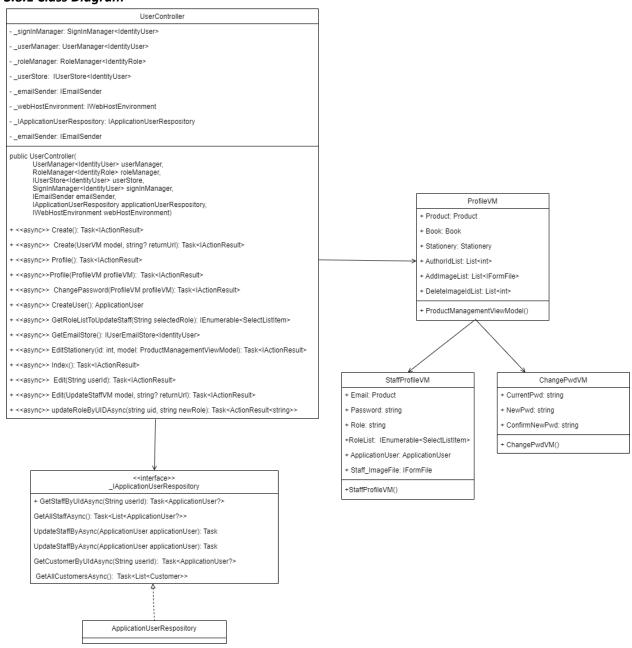


Figure 3.8.1.1: Account Staff Management class diagram

3.8.2 View List Account Staff

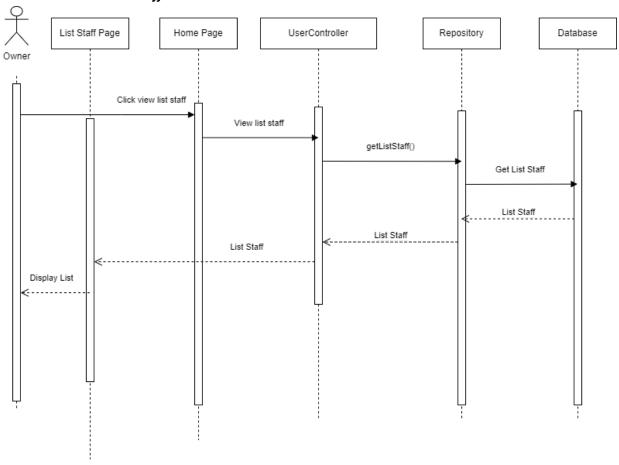


Figure 3.8.2.1: View List Account Staff sequence diagram

3.8.3 Create Account

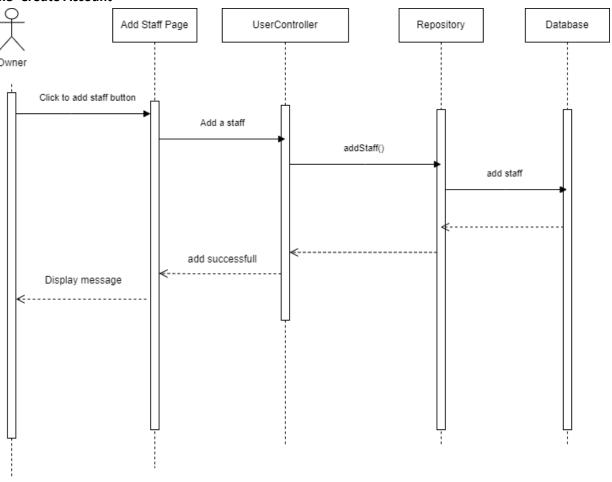


Figure 3.8.3.1: Create Account sequence diagram

3.8.4 Update Account

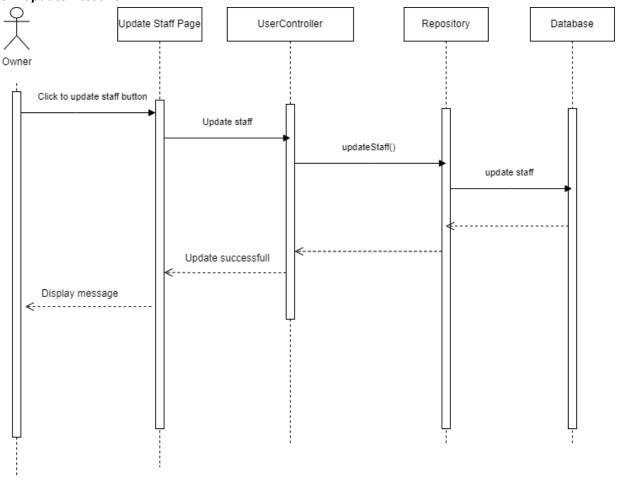


Figure 3.8.4.1: Update Account sequence diagram

3.8.5 Enable/Disable staff

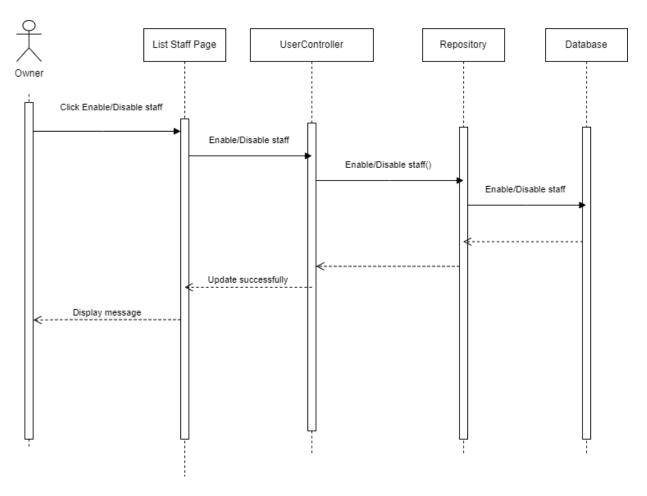


Figure 3.8.5.1: Enable/Disable staff sequence diagram

3.9 (Staff/Owner) Profile Management

3.9.1 Class Diagram

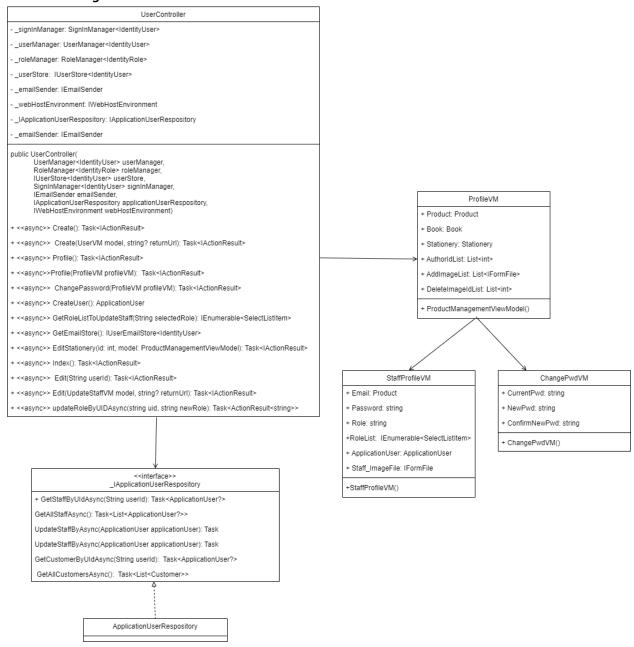


Figure 3.9.1.1: (Staff/Owner) Profile Management class diagram

3.9.2 View profile

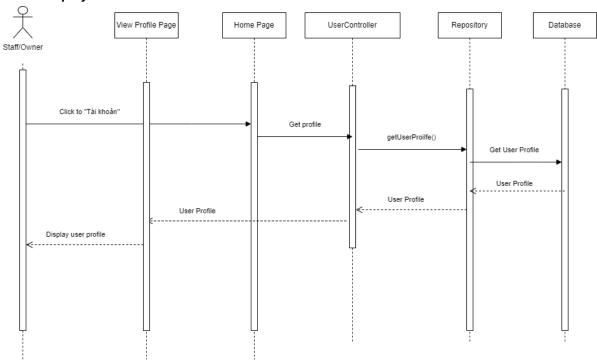


Figure 3.9.2.1: View profile sequence diagram

3.9.3 Edit user profile Update Profile Page Update profile Update profile Update profile Update profile Update profile Update successfull Update successfull

Figure 3.9.2.1: Edit user profile sequence diagram

3.9.4 Change password

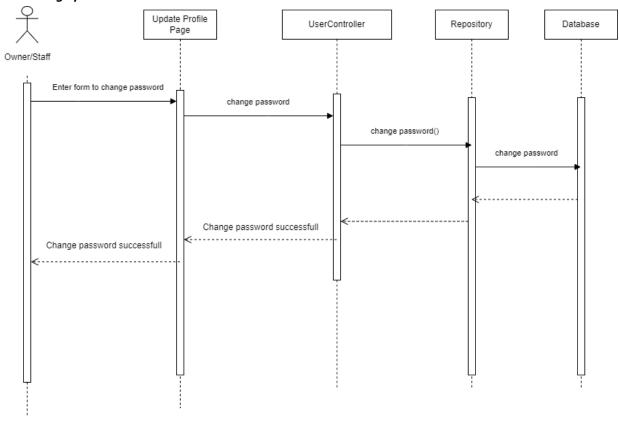


Figure 3.9.4.1: Change password sequence diagram

3.10 (Customer) Profile Management

3.10.1 Class Diagram

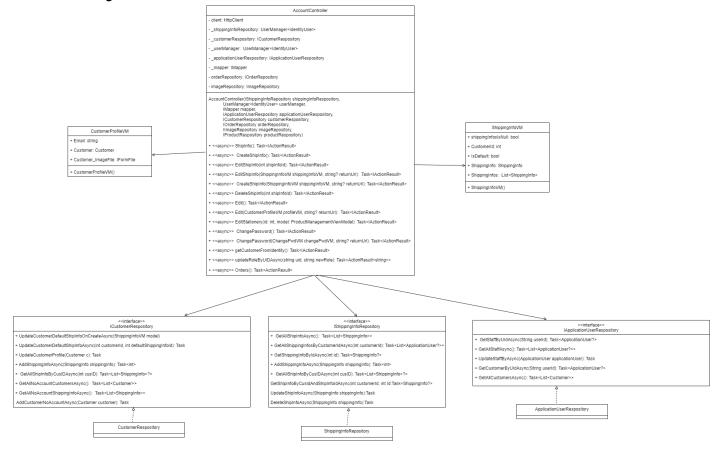


Figure 3.10.1.1: (Customer) Profile Management functions class diagram

3.10.2 View profile

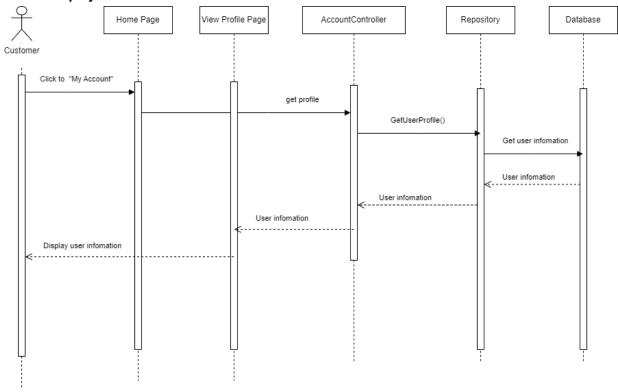


Figure 3.10.2.1: View profile sequence diagram

3.10.3 Edit profile

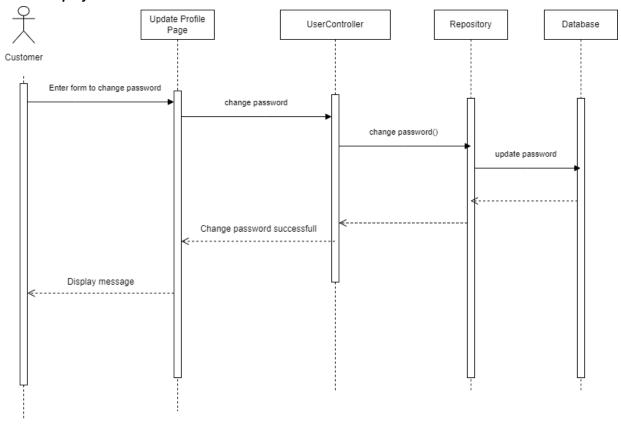


Figure 3.10.3.1: Edit profile sequence diagram

3.10.4 Change Password

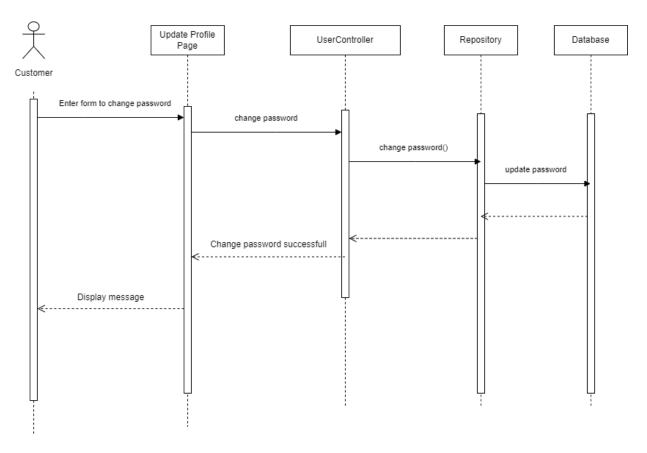


Figure 3.10.4.1: Change Password sequence diagram

3.11 (Customer)Shipping Information Management

3.11.1 Class Diagram

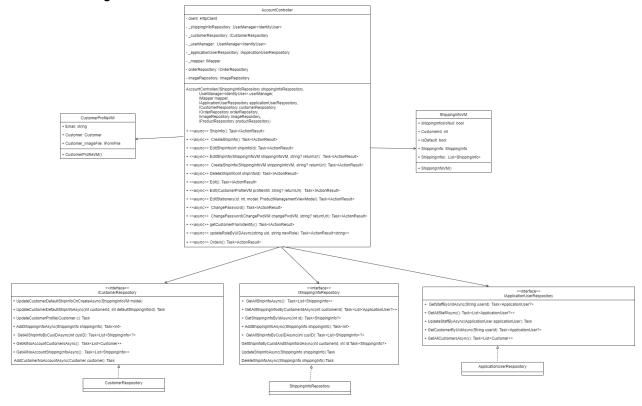


Figure 3.11.1.1: Create new shipping information functions class diagram

3.11.2 Create new shipping information

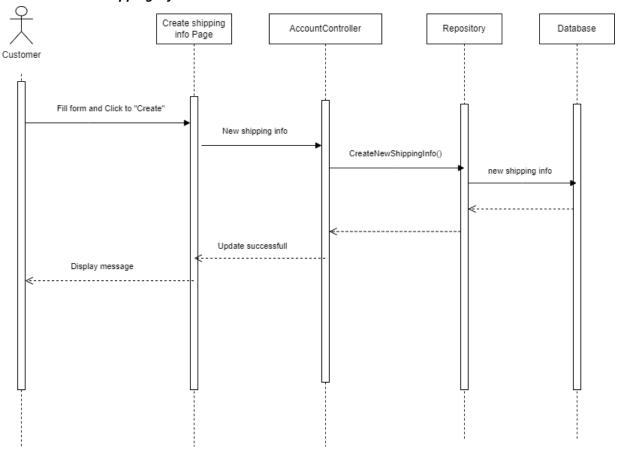


Figure 3.11.2.1: Create new shipping information sequence diagram

3.11.3 Edit shipping information

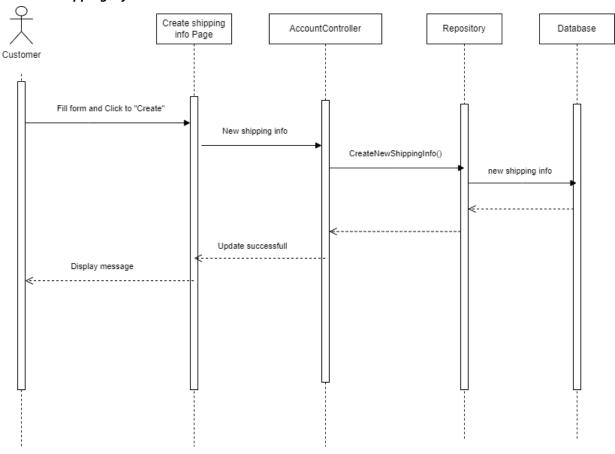


Figure 3.11.3.1: Edit shipping information sequence diagram

3.11.4 Delete shipping information

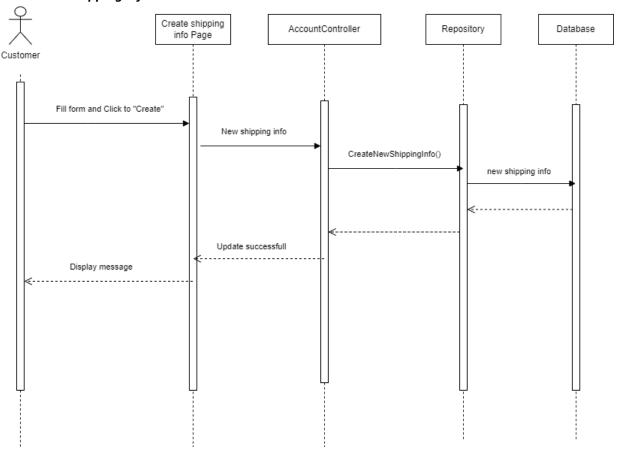


Figure 3.11.4.1: Delete shipping information sequence diagram

3.12 Supplier Management

3.12.1 Class Diagram

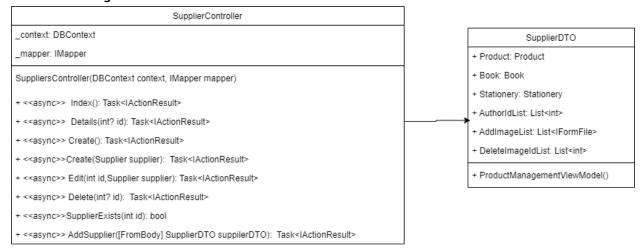


Figure 3.12.1.1: Supplier Management functions class diagram

3.12.2 View list of supplier

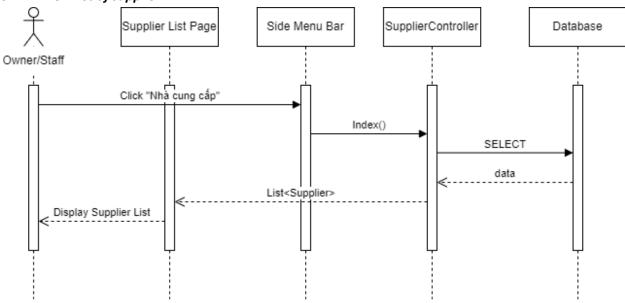


Figure 3.12.2.1: View list of supplier sequence diagram

3.12.3 Update supplier

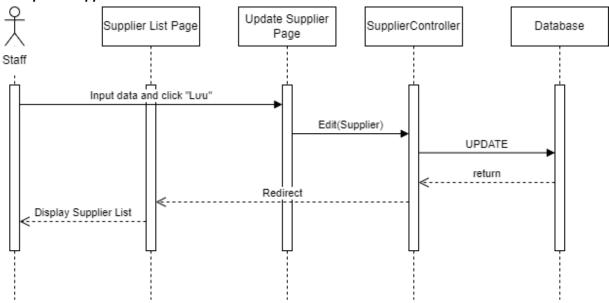


Figure 3.12.3.1: Update supplier sequence diagram

3.12.4 View details supplier

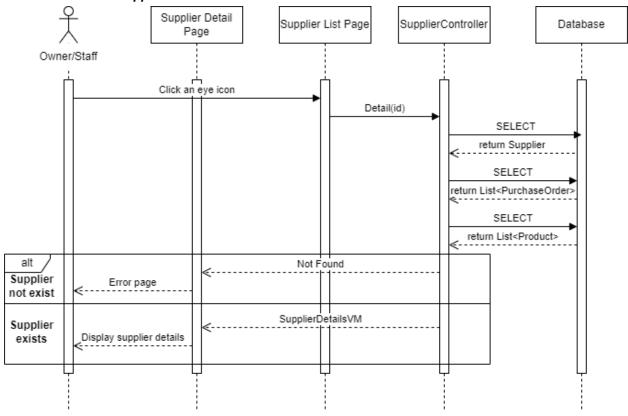


Figure 3.12.4.1: View details supplier sequence diagram

3.12.5 Create supplier

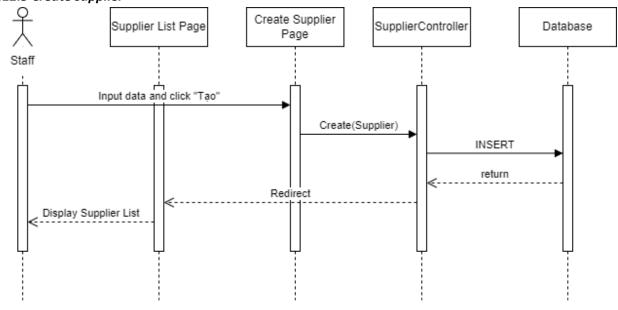


Figure 3.12.5.1: Create supplier sequence diagram

3.13 Customer Management

3.13.1 Class Diagram

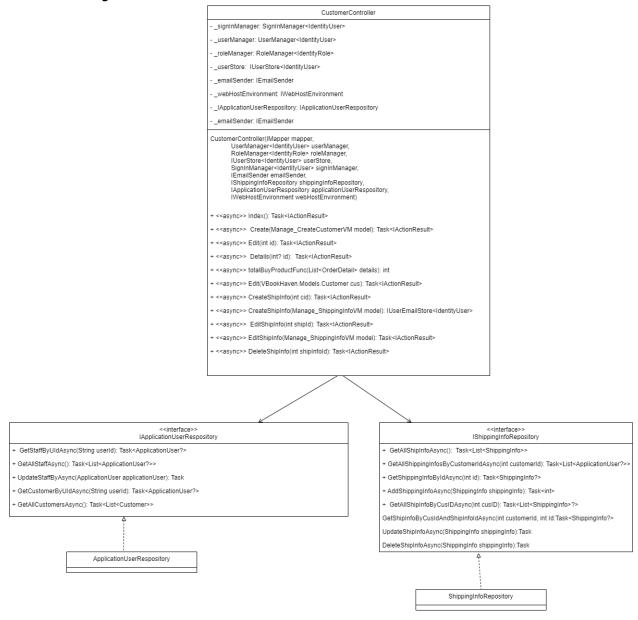


Figure 3.13.1.1: Dashboard functions class diagram

3.13.2 View list of customer

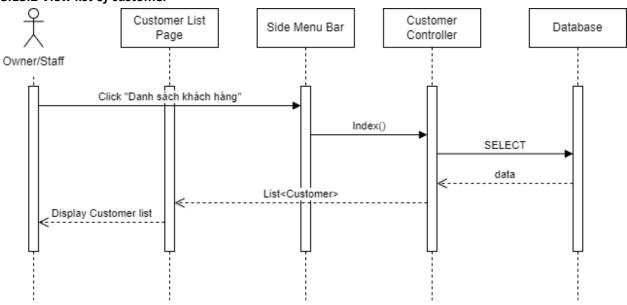


Figure 3.13.2.1: View list of customer sequence diagram

3.13.3 Create a customer

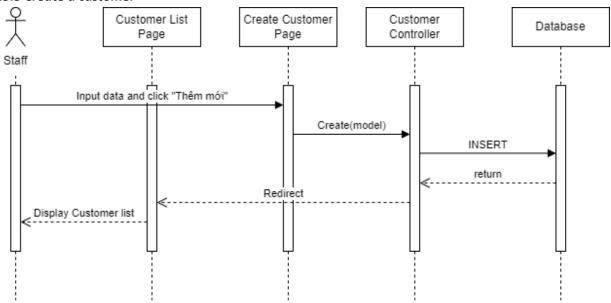


Figure 3.13.3.1: Create a customer sequence diagram

3.13.4 Update a customer

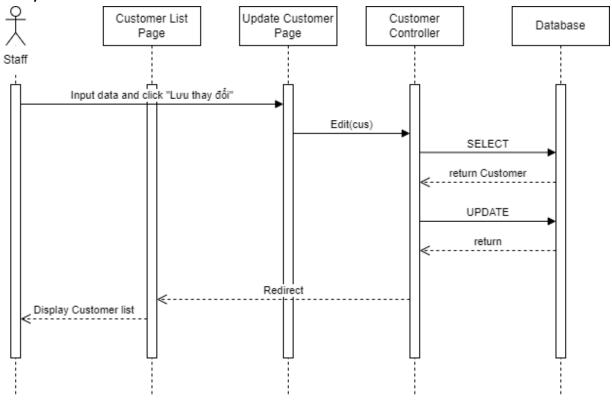


Figure 3.13.4.1: Update a customer sequence diagram

3.13.5 View details of customer

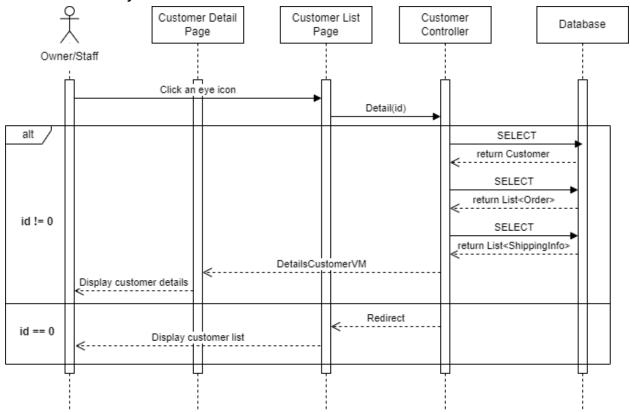


Figure 3.13.5.1: View details of customer sequence diagram

3.13.6 Delete customer shipping information

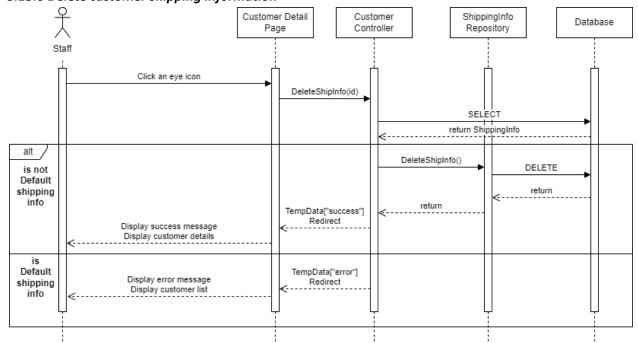


Figure 3.13.6.1: Delete customer shipping information sequence diagram

3.13.7 Create customer shipping information

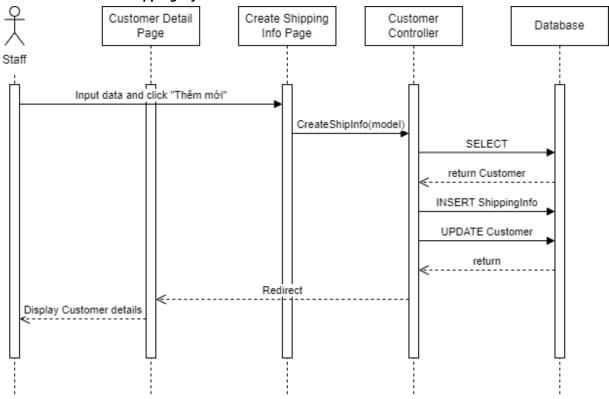
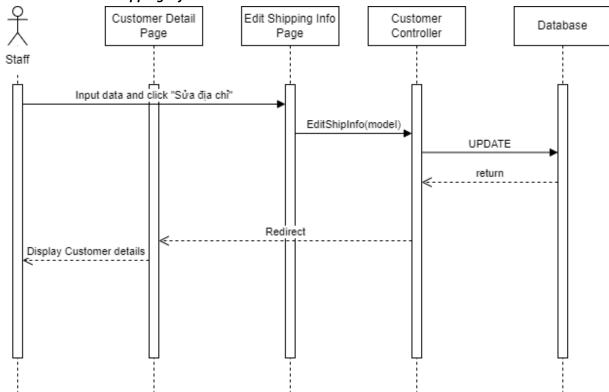


Figure 3.13.7.1: Create customer shipping information sequence diagram

3.13.8 Edit customer shipping information



3.14. Dashboard

3.14.1 Class Diagram

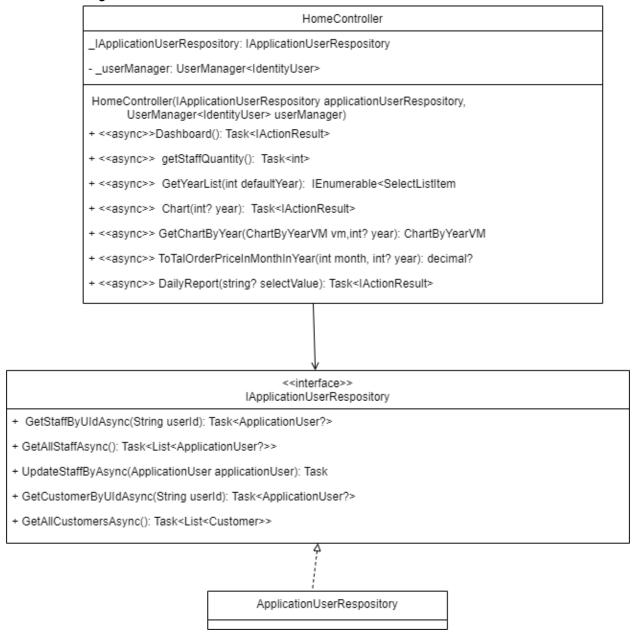


Figure 3.14.1.1: Dashboard functions class diagram

3.14.2 View dashboard

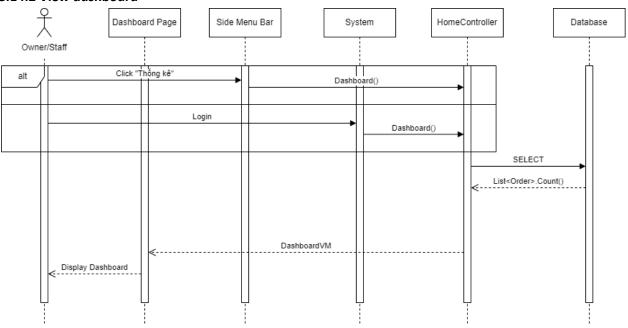


Figure 3.14.2.1: View dashboard sequence diagram