



Capstone Project Document

Carrier Trading Center

Report #4 – Software Design Document

Carrier Trading Center		
Group Members	Lê Văn Dương	SE03290
	Vũ Văn Quyết	SE03344
	Đặng Lê Tuấn	SE03807
	Trịnh Đình Quyết	SE03159
	Lê Gia Hoàng	SE03200
Supervisor	Mr. Nguyễn Văn Sang	
Project code		

- Hanoi, 02/2017-

SIGNATURE PAGE

AUTHOR: Vũ Văn Quyết 11/02/2017

Team member

REVIEWERS: Lê Văn Dương 20/02/2017

Project manager

APPROVAL: Nguyễn Văn Sang 28/02/2017

Record of change

*A - Added M - Modified D – Deleted

Table of Contents

SIGNATURE PAGE	2
1.1 ARCHITECTURE DESIGN	7
1.2 Choice of Architecture Design	7
1.2.1 MVC Model Overview	8
1.2.2 JSF Framework.....	9
1.2.3 JSF and MVC	9
1.2.4 Why JSF?.....	9
1.2.5 Managed Bean, Backing Bean, View Object, and Domain Object Model.....	10
1.2.6 Hibernate	10
1.3 Architectural Presentation	12
1.4 Package Design	13
2 DETAILED DESIGN.....	13
2.1 Common Class Description	13
2.1.1 Object-relational mapping	13
2.1.2 Bean class	20
2.1.3 BO class.....	32
2.1.4 BOImpl Class	39
2.1.5 DAO class.....	48
2.1.6 DAOImpl class	56
2.2 Class Detail Design	64
2.2.1 Guest register a new account.....	64
2.2.2 Guest reference price.....	67
2.2.3 Guest view price	69
2.2.4 Guest search bill of lading.....	71
2.2.5 Guest view list bill of lading	72
2.2.6 Admin view user list.....	74
2.2.7 Admin Summary all Bill of Lading.....	76
2.2.8 Admin view list bill of lading.....	79
2.2.9 Admin Search Bill of Lading.....	80
2.2.10 Admin View Bill of Lading Detail	82
2.2.11 Admin view list of carrier who are auctioning	84
2.2.12 Admin view carrier auction success	86
2.2.13 Admin search user	88

2.2.14	Admin view user profile	90
2.2.15	Admin activate user	94
2.2.16	Admin deactivate user	96
2.2.17	Admin view price list	98
2.2.18	Admin edit price	99
2.2.19	Admin edit reference price	101
2.2.20	Admin add new price	103
2.2.21	Admin search report	105
2.2.22	Admin view list report	107
2.2.23	Admin response report	109
2.2.24	Admin edit user profile	111
2.2.25	Admin change password	114
2.2.26	Admin forgot password	116
2.2.27	Admin login	118
2.2.28	Admin logout	120
2.2.29	Admin view transaction history	122
2.2.30	Admin view price table history	123
2.2.31	Admin recharge for user	125
2.2.32	Admin add company information	126
2.2.33	Admin edit company information	128
2.2.34	Admin view profile	129
2.2.35	Admin edit profile	134
2.2.36	Admin reference price	136
2.2.37	Goods owner view list bill of lading	139
2.2.38	Goods owner view detail bill of lading	141
2.2.39	Goods owner search bill of lading	144
2.2.40	Goods owner view carrier auction success	145
2.2.41	Goods owner view transaction history	147
2.2.42	Goods owner register a new bill of lading	148
2.2.43	Goods owner cancel bill of Lading	152
2.2.44	Goods owner edit profile	153
2.2.45	Goods owner forgot password	156
2.2.46	Goods owner change password	158
2.2.47	Goods owner send report	160

2.2.48	Goods owner view Profile	162
2.2.49	Goods owner view report list.....	165
2.2.50	Goods owner search report	167
2.2.51	Goods owner connect to carrier.....	169
2.2.52	Goods owner account recharge.....	172
2.2.53	Goods owner reference fee	174
2.2.54	Goods owner confirm complete transaction	176
2.2.55	Goods owner add company	178
2.2.56	Goods owner view fee list	179
2.2.57	Goods owner Login	181
2.2.58	Goods owner logout	183
2.2.59	Goods owner cancel report	184
2.2.60	Carrier view list bill of lading	186
2.2.61	Carrier view bill of lading detail.....	188
2.2.62	Carrier auction bill of lading	190
2.2.63	Carrier account recharge.....	191
2.2.64	Carrier search bill of lading	193
2.2.65	Carrier cancel bill of lading	195
2.2.66	Carrier view profile	197
2.2.67	Carrier edit profile	199
2.2.68	Carrier change password	202
2.2.69	Carrier forgot password.....	204
2.2.70	Carrier send report.....	206
2.2.71	Carrier view list report.....	208
2.2.72	Carrier search report.....	210
2.2.73	Carrier view transaction history	212
2.2.74	Carrier Login	214
2.2.75	Carrier logout.....	216
2.2.76	Carrier connect to goods owner.....	218
2.2.77	Carrier reference fee	221
2.2.78	Carrier confirm complete transaction	223
2.2.79	Carrier add company	225
2.2.80	Carrier owner view fee list	226
2.2.81	Carrier cancel report.....	228

3	DATABASE DESIGN	230
3.1	Database Diagram	230
3.2	Table Descriptions.....	231
3.2.1	Table answercomment.....	231
3.2.2	Table billoflading	231
3.2.3	Table carrierauction.....	232
3.2.4	Table comment	233
3.2.5	Table company	233
3.2.6	Table district.....	233
3.2.7	Table goodstype.....	234
3.2.8	Table operationfee	234
3.2.9	Table packagedform	234
3.2.10	Table paymentdetail	235
3.2.11	Table province	235
3.2.12	Table report	235
3.2.13	Table users.....	236
3.2.14	Table usersaccount	236

1.1 ARCHITECTURE DESIGN

1.2 Choice of Architecture Design

Carrier Trading Center (CTC) is an e-commerce website. The main function of CTC system is provides users the ability to bid online bill of lading to help the Goods Owner optimize their shipping cost and help Carrier connect to Goods Owner more easily.

Traditionally used for desktop graphical user interfaces (GUIs), this architecture has become popular for designing web applications and even mobile, desktop and other clients. Popular programming languages like Java, C#, Ruby, PHP and others have popular MVC frameworks that are currently being used in web application development straight out of the box.

1.2.1 MVC Model Overview

- **What is the MVC**

Model–View–Controller (MVC) is a software architectural pattern for implementing user interfaces on computers. It divides a given application into three interconnected parts in order to separate internal representations of information from the ways that information is presented to and accepted from the user. The MVC design pattern decouples these major components allowing for efficient code reuse and parallel development.

- **Components**

Model

The model is the central component of the pattern. It expresses the application's behaviour in terms of the problem domain, independent of the user interface. It directly manages the data, logic and rules of the application.

View

A view can be any output representation of information, such as a chart or a diagram. Multiple views of the same information are possible, such as a bar chart for management and a tabular view for accountants.

Controller

The controller accepts input and converts it to commands for the model or view.

- **Interactions**

Model

A model stores data that is retrieved according to commands from the controller and displayed in the view.

View

A view generates new output to the user based on changes in the model.

Controller

A controller can send commands to the model to update the model's state (e.g., editing a document). It can also send commands to its associated view to change the view's presentation of the model (e.g., scrolling through a document).

- **Advantages and Disadvantages**

Advantages

- Simultaneous development - Multiple developers can work simultaneously on the model, controller and views.
- High cohesion - MVC enables logical grouping of related actions on a controller together. The views for a specific model are also grouped together.
- Low coupling - The very nature of the MVC framework is such that there is low coupling among models, views or controllers
- Ease of modification - Because of the separation of responsibilities, future development or modification is easier
- Multiple views for a model - Models can have multiple views

Disadvantages

- Code navigability – The framework navigation can be complex; hence it introduces new layers of abstractions and requires users to adapt its decomposition criteria to MVC.
- Multi-artefact consistency - Decomposing a feature into three artefacts causes scattering. Thus, requiring developer(s) to maintain the consistency of multiple representations at once.
- Pronounced learning curve - Knowledge on multiple technologies becomes the norm. Developers using MVC need to be skilled in multiple technologies.

1.2.2 JSF Framework

JSF is a server-side user interface component framework for Java-based Web applications. JSF contains an API for representing UI components and managing their state; handling events, server-side validation, and data conversion; defining page navigation; supporting internationalization and accessibility; and providing extensibility for all these features.

1.2.3 JSF and MVC

JSF fits well with the MVC-based presentation-tier architecture. It offers a clean separation between behaviour and presentation. It leverages familiar UI-component and Web-tier concepts without limiting you to a particular scripting technology or mark-up language.

JSF backing beans are the model layer (more about backing beans in a later section). They also contain actions, which are an extension of the controller layer and delegate the user request to the business-logic tier. Please note, from the perspective of the overall application architecture, the business-logic tier can also be referred to as the model layer.

1.2.4 Why JSF?

JSF is not just another Web framework. The following features differentiate JSF from other Web frameworks:

- Swing-like object-oriented Web application development: The server-side tasteful UI component model with event listeners and handlers initiates object-oriented Web application development.
- Backing-bean management: Backing beans are JavaBeans components associated with UI components used in a page. Backing-bean management separates the definition of UI component objects from objects that perform application-specific processing and hold data. JSF implementation stores and manages these backing-bean instances in the proper scope.
- Extensible UI component model: JSF UI components are configurable, reusable elements that compose the user interfaces of JSF applications. You can extend the standard UI component and develop a more complex component, e.g., menu bar and tree component.
- A renderer separates a UI component's functionality and view. Multiple renderers can be created and used to define different appearances of the same component for the same client or for different clients.
- Extensible conversion and validation model: Based on the standard converters and validators, you can develop customized converters and validators, which provide better model protection.

Despite its strength, JSF is not mature at its current stage. The components, converters, and validators that ship with JSF are basic. And the per-component validation model cannot handle many-to-many validation between components and validators. In addition, JSF custom tags cannot integrate with JSTL (JSP Standard Tag Library) seamlessly.

1.2.5 Managed Bean, Backing Bean, View Object, and Domain Object Model

JSF introduces two new terms: *managed bean* and *backing bean*. JSF provides a strong managed-bean facility. JavaBean objects managed by a JSF implementation are called managed beans. A managed bean describes how a bean is created and managed. It has nothing to do with the bean's functionalities.

The backing bean defines properties and handling-logics associated with the UI components used on the page. Each backing-bean property is bound to either a component instance or its value. A backing bean also defines a set of methods that perform functions for the component, such as validating the component's data, handling events that the component fires and performing processing associated with navigation when the component activates.

A typical JSF application couples a backing bean with each page in the application. However, sometimes in the real world, forcing a one-to-one relationship between a backing bean and a page is not the ideal solution. It can cause problems like code duplication. In a real-world scenario, several pages may need to share the same backing bean behind the scenes. For example, in JCatalog, the CreateProduct and EditProduct page share the same ProductBean definition.

A view object is a model object used specifically in the presentation tier. It contains the data that must display in the view layer and the logic to validate user input, handle events, and interact with the business-logic tier. The backing bean is the view object in a JSF-based application. Backing bean and view object are interchangeable terms in this article.

Compared to the ActionForm and Action approach in Struts, development with backing beans in JSF follows better object-oriented design practices. A backing bean not only contains view data, but also behaviour related to that data. In Struts, Action and ActionForm contain data and logic separately.

We've all heard about the domain object model. So, what's the difference between the domain object model and a view object? In a simple Web application, a domain object model can be used across all tiers, however, in a more complex Web application, a separate view object model needs to be used. Domain object model is about the business object and should belong in the business-logic tier. It contains the business data and business logic associated with the specific business object. A view object contains presentation-specific data and behaviour. JCatalog's ProductListBean offers a good example. It contains data and logic specific to the presentation tier, e.g., pagination-related data and logic. The drawback to separating the view objects from the domain object model is that data mapping must occur between the two object models. In JCatalog, ProductBeanBuilder and UserBeanBuilder use the reflection-based Commons BeanUtils to implement the data mapping^①.

1.2.6 Hibernate

Hibernate ORM (Hibernate in short) is an object-relational mapping tool for the Java programming language supported by SPRING framework. It provides a framework for mapping an object-oriented domain model to a relational database.

Hibernate core features:

- Natural programming model - Hibernate supports natural OO idiom; inheritance, polymorphism, composition and the Java collections framework
- Support for fine-grained object models - a rich variety of mappings for collections and dependent objects
- No build-time byte code enhancement - there's no extra code generation or byte code processing steps in your build procedure

- Extreme scalability - Hibernate is extremely performing, has a dual-layer cache architecture, and may be used in a cluster
- The query options - Hibernate addresses both sides of the problem; not only how to get objects into the database, but also how to get them out again
- Support for conversations - Hibernate supports both long-lived persistence contexts, detach/reattach of objects, and takes care of optimistic locking automatically
- Free/open source - Hibernate is licensed under the LGPL (Lesser GNU Public License)

Hibernate Architecture

- The Hibernate architecture includes many objects persistent object, session factory, transaction factory, connection factory, session, transaction etc. There are 4 layers in hibernate architecture java application layer, hibernate framework layer, backhand API layer and database layer.

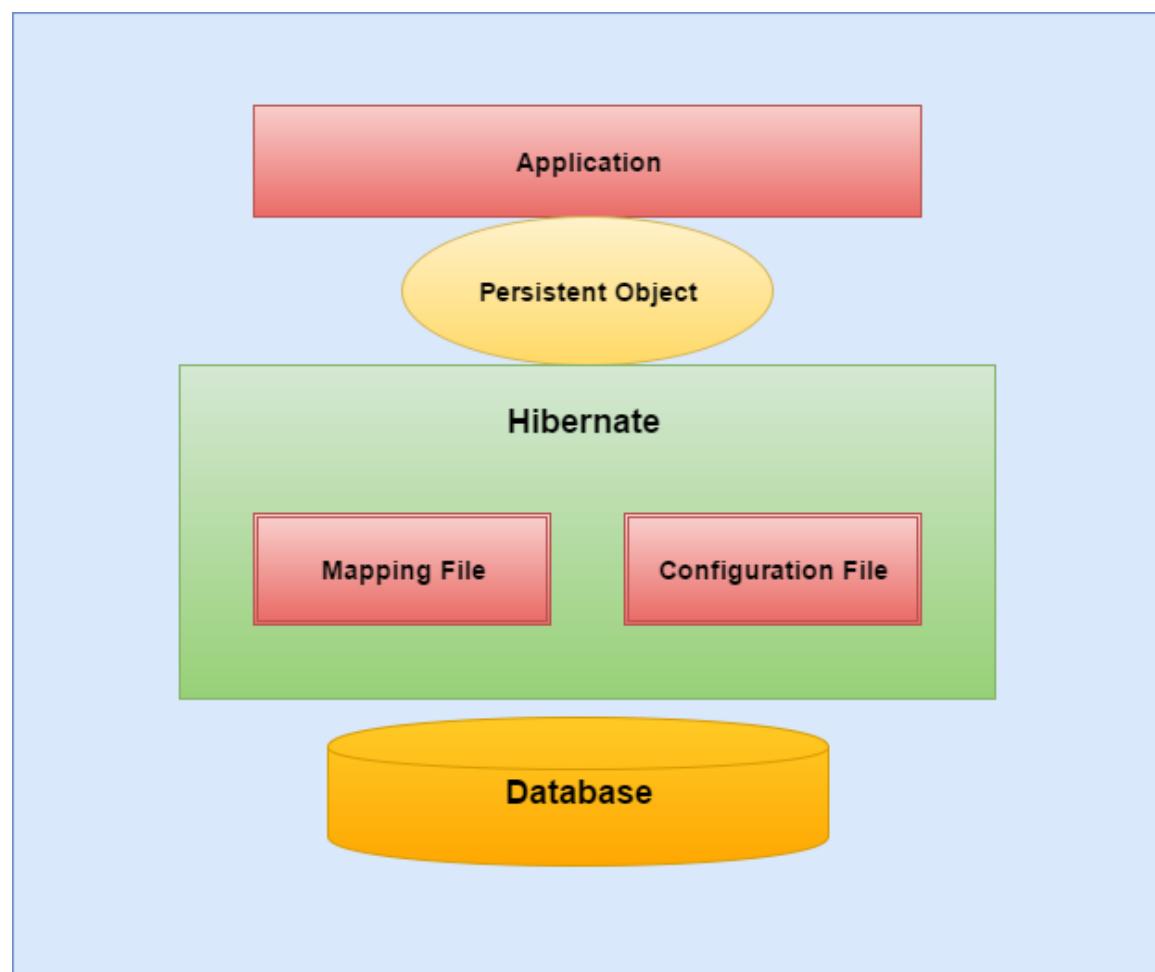


Figure 1.2-1 Hibernate Architecture

1.3 Architectural Presentation

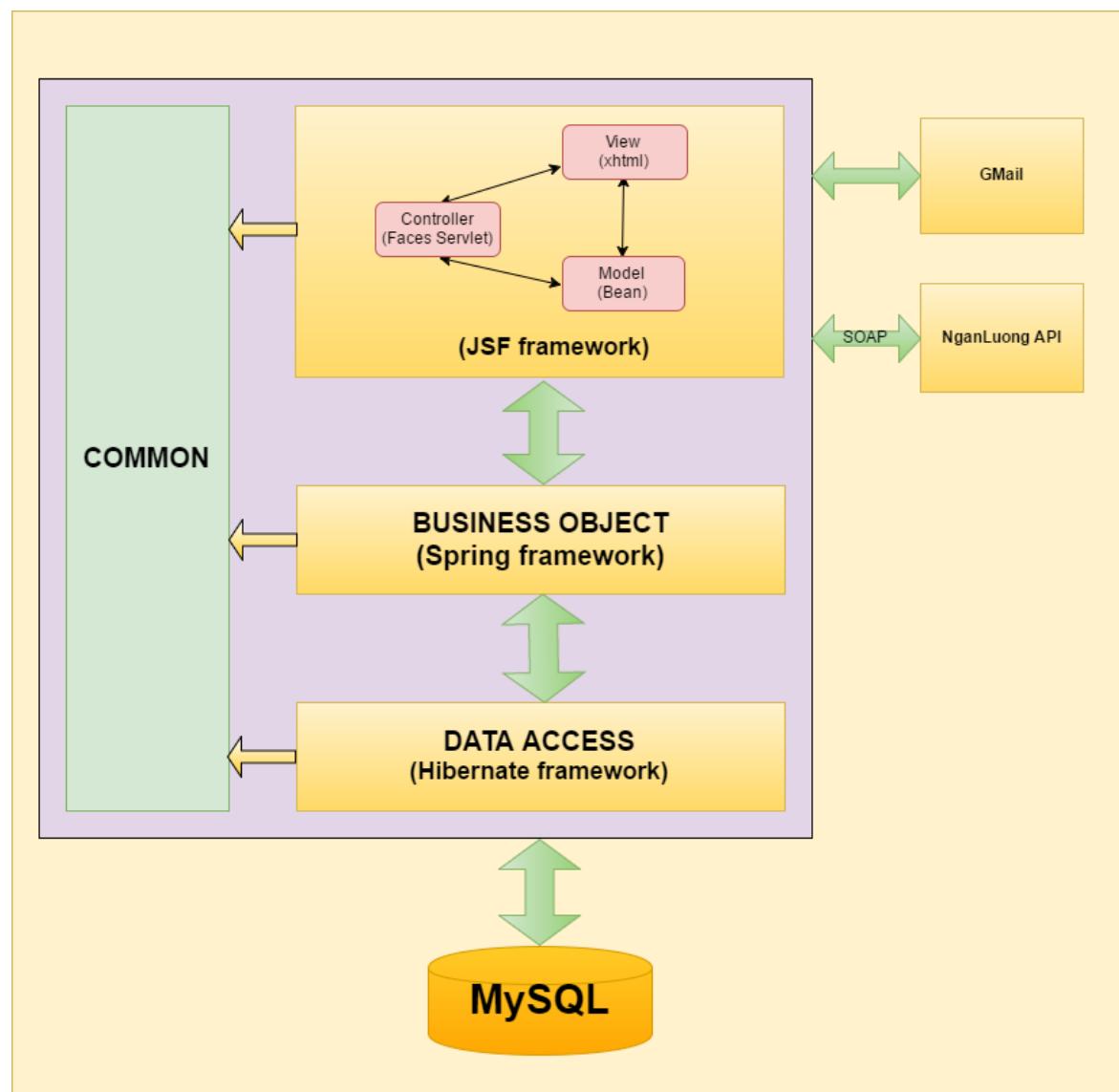


Figure 1.3-1 Architecture Overview

1.4 Package Design

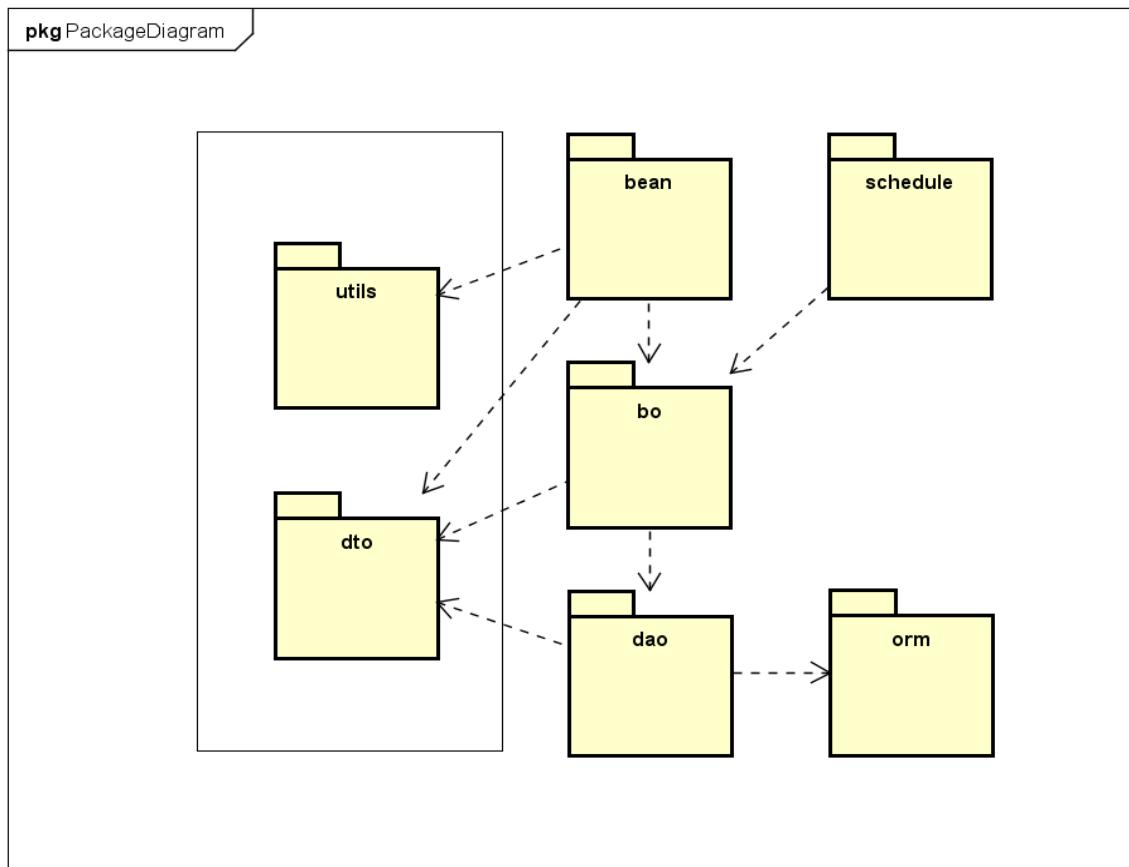


Figure 1.4-1 Package Diagram

2 DETAILED DESIGN

2.1 Common Class Description

2.1.1 Object-relational mapping

- AnswerComment

Class	AnswerComment		
Description	AnswerComment Object manages the mapping details between a set of objects and underlying relational databases.		
Base Class	N/A		
Constructor	N/A		
Prototype	N/A		
Source File	AnswerComment.java		
Namespace	vn.co.cex.orm		
Attributes	Name	Type	Description
	id	Integer	
	content	String	
	commentId	int	
	comment	Comment	

createdUserId	int	
user	Users	
created	Date	

- BillOfLading

Class	BillOfLading		
Description	BillOfLading Object manages the mapping details between a set of objects and underlying relational databases.		
Base Class	N/A		
Constructor	BillOfLading(String code, int goodsTypeId, int packagedFormId, String goodsImage, float weight, float volume, Integer quantity, float length, float width, float height, String description, boolean isFrozen, boolean isFragile, String sender, String senderPhoneNumber, String departureProvince, String departureDistrict, String departureAddress, String departureCharacteristicPlace, Date departureDate, String receiver, String receiverPhoneNumber, String arrivalProvince, String arrivalDistrict, String arrivalAddress, String arrivalCharacteristicPlace, Date arrivalDate, float distance, float price, Date auctionPeriod, int status, boolean notification, int createdUserId, Date created, Date modified)		
Prototype	N/A		
Source File	Users.java		
Namespace	vn.co.cex.orm		
Attributes	Name	Type	Description
	id	Integer	
	code	String	
	goodsTypeId	int	
	goodsType	GoodsType	
	packagedFormId	int	
	packagedForm	PackagedForm	
	goodsImage	String	
	weight	float	
	volume	float	
	quantity	Integer	
	length	float	
	width	float	
	height	float	
	description	String	
	isFrozen	boolean	
	isFragile	boolean	
	sender	String	
	senderPhoneNumber	String	
	departureProvince	String	
	departureDistrict	String	
	departureAddress	String	
	departureCharacteristicPlace	String	
	departureDate	Date	

receiver	String	
receiverPhoneNumber	String	
arrivalProvince	String	
arrivalDistrict	String	
arrivalAddress	String	
arrivalCharacteristicPlace	String	
arrivalDate	Date	
distance	float	
price	float	
auctionPeriod	Date	
status	int	
notification	boolean	
createdUserId	int	
user	Users	
created	Date	
modified	Date	

- Comment

Class	Comment		
Description	Comment Object manages the mapping details between a set of objects and underlying relational databases.		
Base Class	N/A		
Constructor	Comment(int id)		
Prototype	N/A		
Source File	Comment.java		
Namespace	vn.co.cex.orm		
Attributes	Name	Type	Description
	id	Integer	
	content	String	
	billOfLadingId	int	
	billOfLading	BillOfLading	
	createdUserId	int	
	user	Users	
	created	Date	

- Company

Class	Company
Description	Company Object manages the mapping details between a set of objects and underlying relational databases.
Base Class	N/A
Constructor	Company(String name, String taxCode, String email, String phoneNumber, String fax, String address)

Prototype	N/A		
Source File	Company.java		
Namespace	vn.co.cex.orm		
Attributes	Name	Type	Description
	Id	Integer	
	Name	String	
	TaxCode	String	
	Email	String	
	PhoneNumber	String	
	Fax	String	
	address	String	

- **District**

Class	District		
Description	District Object manages the mapping details between a set of objects and underlying relational databases.		
Base Class	N/A		
Constructor	District(Integer id)		
Prototype	N/A		
Source File	District.java		
Namespace	vn.co.cex.orm		
Attributes	Name	Type	Description
	Id	Integer	
	Code	String	
	Name	String	
	Type	String	
	ProvinceCode	Province	

- **Goodstype**

Class	Goodstype		
Description	Goodstype Object manages the mapping details between a set of objects and underlying relational databases.		
Base Class	N/A		
Constructor	District(Integer id)		
Prototype	N/A		
Source File	Goodstype.java		
Namespace	vn.co.cex.orm		
Attributes	Name	Type	Description
	Id	Integer	
	Code	String	
	Name	String	

	Description	String	
	ReferencePrice	Float	

- **OperationFee**

Class	OperationFee		
Description	OperationFee Object manages the mapping details between a set of objects and underlying relational databases.		
Base Class	N/A		
Constructor	OperationFee(Integer id, String code, String feeName, boolean type, Float fee, Float percent, String description, int status, Date modified, Date created)		
Prototype	N/A		
Source File	OperationFee.java		
Namespace	vn.co.cex.orm		
Attributes	Name	Type	Description
	id	Integer	
	code	String	
	feeName	String	
	type	boolean	
	fee	Float	
	percent	Float	
	description	String	
	status	int	

- **PackagedForm**

Class	PackagedForm		
Description	PackagedForm Object manages the mapping details between a set of objects and underlying relational databases.		
Base Class	N/A		
Constructor	PackagedForm (Integer id)		
Prototype	N/A		
Source File	PackagedForm.java		
Namespace	vn.co.cex.orm		
Attributes	Name	Type	Description
	id	Integer	
	code	String	
	name	String	
	description	String	

- **PaymentDetail**

Class	PaymentDetail		
Description	PaymentDetail Object manages the mapping details between a set of objects and		

	underlying relational databases.		
Base Class	N/A		
Constructor	N/A		
Prototype	N/A		
Source File	PaymentDetail.java		
Namespace	vn.co.cex.orm		
Attributes	Name	Type	Description
	Id	Integer	
	Amounts	float	
	PaymentDate	Date	
	Type	boolean	
	Description	String	
	Balance	Float	
	BillOfLadingId	Integer	
	UserId	int	

- **Province**

Class	Province		
Description	Province Object manages the mapping details between a set of objects and underlying relational databases.		
Base Class	N/A		
Constructor	Province (Integer id)		
Prototype	N/A		
Source File	Province.java		
Namespace	vn.co.cex.orm		
Attributes	Name	Type	Description
	id	Integer	
	code	String	
	name	String	
	type	String	

- **Report**

Class	Report		
Description	Report Object manages the mapping details between a set of objects and underlying relational databases.		
Base Class	N/A		
Constructor	Report(int id, int userId, Date reportDate, String reportTitle, String reportQuestion, String reportSolution, String reportContent, String reportReply, boolean status)		
Prototype	N/A		
Source File	Report.java		
Namespace	vn.co.cex.orm		

Attributes	Name	Type	Description
	Id	int	
	UserId	int	
	ReportDate	Date	
	ReportTitle	String	
	ReportQuestio	String	
	ReportSolutio	String	
	ReportContent	String	
	ReportReply	String	
	Status	boolean	

- Users

Class	Users		
Description	User Object manages the mapping details between a set of objects and underlying relational databases.		
Base Class	N/A		
Constructor	Users(String fullName, String email, String password, String phoneNumber, String address, String districtCode, String identityCard, String identityCardPlace, Date, identityCardDate, String identityCardImage, int role, int status, Date created, Integer companyId, String userAvatar)		
Prototype	N/A		
Source File	Users.java		
Namespace	vn.co.cex.orm		
Attributes	Name	Type	Description
	id	Integer	
	fullName	String	
	email	String	
	password	String	
	phoneNumber	String	
	address	String	
	identityCard	String	
	identityCardPlace	String	
	identityCardDate	Date	
	identityCardImage	String	
	role	int	
	status	int	
	created	Date	
	companyId	Integer	
	userAvatar	String	

- **UsersAccount**

Class	UsersAccount		
Description	UsersAccount Object manages the mapping details between a set of objects and underlying relational databases.		
Base Class	N/A		
Constructor	UsersAccount (Integer id)		
Prototype	N/A		
Source File	UsersAccount.java		
Namespace	vn.co.cex.orm		
Attributes	Name	Type	Description
	UserId	Integer	
	Balance	float	
	Modified	Date	

2.1.2 Bean class

- **BaseBean**

Class	BaseBean		
Description	Common class for Decision Center beans		
Base Class	N/A		
Constructor	BaseBean()		
Prototype	N/A		
Source File	BaseBean.java		
Namespace	vn.co.cex.bean		
Methods	Name	Input	Output
	getHTTPRequest()		HttpServletRequest
	getHTTPResponse()		HttpServletResponse

- **RegisterBean**

Class	RegisterBean		
Description	Register an user		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	RegisterBean.java		
Namespace	vn.co.cex.bean.login		
Attributes	Name	Type	Description
	FullName	String	
	Email	String	
	Password	String	
	PhoneNumber	String	
	address	String	
	identityCard	String	

	identityCardPlace	String	
	identityCardDate	Date	
	identityCardImage	String	
	role	int	
	status	int	
	created	Date	
	companyId	Integer	
	userAvatar	String	
Methods	Name	Input	Output
			Description
	registerUser()		String
	sendMailRegister(Users)	Users	

- **GetGoodsImagesBean**

Class	getGoodsImagesBean		
Description	Get goods image.		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	getGoodsImagesBean.java		
Namespace	vn.co.cex.bean		
Attributes	Name	Type	Description
Methods	Name	Input	Output
	getGoodsImage()		StreamedContent

- **getUserAvatarBean**

Class	getUserAvatarBean		
Description	Get goods image.		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	getUserAvatarBean.java		
Namespace	vn.co.cex.bean		
Attributes	Name	Type	Description
Methods	Name	Input	Output
	getUserAvatar()		StreamedContent

- **goodsTypeBean**

Class	goodsTypeBean		
Description	Do business logic with goodsType.		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	goodsTypeBean.java		
Namespace	vn.co.cex.bean		
Attributes	Name	Type	Description
Methods	Name	Input	Output
	getGoodsTypeBO()		GoodsTypeBO
	setGoodsTypeBO(GoodsTypeBO)		
	getGoodsTypeList()		List<GoodsType>
	setGoodsTypeList(List<GoodsType>)		

- **NganLuongBean**

Class	NganLuongBean		
Description	Account recharge through Ngan Luong.		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	NganLuongBean.java		
Namespace	vn.co.cex.bean		
Attributes	Name	Type	Description
	link_checkout	String	
	order_code	String	
	token_code	String	
	result	boolean	
	balance	Float	
	email	String	
	fullname	String	
Methods	Name	Input	Output
	onPlusMoneyAccount()		
	sentRequest ()		

- **ProvinceBean**

Class	ProvinceBean		
Description			
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		

Source File	ProvinceBean.java		
Namespace	vn.co.cex.bean		
Attributes	Name	Type	Description
	provinceBO	ProvinceBO	
	provinceList	List<Province>	
	provinceName	String	
Methods	Name	Input	Output
	getProvinceName()		String
	setProvinceName(String)	String	
	getProvinceBO()		ProvinceBO
	setProvinceBO(ProvinceBO)	ProvinceBO	
	getProvinceList()		List<Province>
	setProvinceList(List<Province>)	List<Province>	

- **DistrictBean**

Class	DistrictBean		
Description			
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	DistrictBean.java		
Namespace	vn.co.cex.bean		
Attributes	Name	Type	Description
Methods	Name	Input	Output
	getDistrictByProvinceCode(String)	String	List<District>
	getDistrict2ByProvinceCode(String)	String	List<District>
	getDistrictNameByCode(String)	String	String
	getProvinceCodeByCode(String)	String	String

- **SummaryBillOfLadingBean**

Class	SummaryBillOfLadingBean		
Description	Show summary bill of lading.		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	SummaryBillOfLadingBean.java		
Namespace	vn.co.cex.bean.admin		

Attributes	Name	Type	Description	
	goodsTypeId	Integer		
	packagedFormId	Integer		
	weight	Float		
	volume	Float		
	departureProvinceCode	String		
	arrivalProvinceCode	String		
Methods	Name	Input	Output	Description
	searchBillOfLading()			

- BillOfLadingDetailBean

Class	BillOfLadingDetailBean			
Description	Show detail bill of lading.			
Base Class	BaseBean			
Constructor	N/A			
Prototype	N/A			
Source File	BillOfLadingDetailBean.java			
Namespace	vn.co.cex.bean.billoflading			
Methods	Name	Input	Output	Description
	auction(int)	billOfLadingId		
	goodsOwnerCancelAuction()			
	carrierCancelAuction()			
	confirmCompleted()			
	writeComment()			
	writeAnswerComment(int)	commentId		
	updateComment()			

- CommonBean

Class	CommonBean			
Description	Show bill of lading and search bill of lading.			
Base Class	BaseBean			
Constructor	N/A			
Prototype	N/A			
Source File	CommonBean.java			
Namespace	vn.co.cex.bean.billoflading			
Attributes	Name	Type	Description	
	goodsTypeId	Integer		
	packagedFormId	Integer		
	weight	Float		
	volume	Float		
	departureProvinceCode	String		
	arrivalProvinceCode	String		
	status	Integer		
	timeRemaining	int		

Methods	Name	Input	Output	Description
	searchBillOfLading()			

- **PostBillOfLadingBean**

Class	PostBillOfLadingBean			
Description	Show bill of lading and search bill of lading.			
Base Class	BaseBean			
Constructor	N/A			
Prototype	N/A			
Source File	PostBillOfLadingBean.java			
Namespace	vn.co.cex.bean.billoflading			
Methods	Name	Input	Output	Description
	postBillOfLading()			
	uploadGoodsImage(FileUp loadEvent)			
	gotoListBillOfLading()			

- **CarrierBillOfLadingBean**

Class	CarrierBillOfLadingBean			
Description	Show bill of lading and search bill of lading by Carrier.			
Base Class	BaseBean			
Constructor	N/A			
Prototype	N/A			
Source File	CarrierBillOfLadingBean.java			
Namespace	vn.co.cex.bean.carrier			
Methods	Name	Input	Output	Description
	searchBillOfLadingByCarr ier()			

- **GoodsOwnerBillOfLadingBean**

Class	GoodsOwnerBillOfLadingBean			
Description	Show bill of lading and search bill of lading by GoodsOwner.			
Base Class	BaseBean			
Constructor	N/A			
Prototype	N/A			
Source File	GoodsOwnerBillOfLadingBean.java			
Namespace	vn.co.cex.bean.goodsOwner			
Methods	Name	Input	Output	Description
	searchBillOfLadingBy Carrier()			

- **ForgotPasswordBean**

Class	ForgotPasswordBean		
Description	Support user change password when forgot.		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	ForgotPasswordBean.java		
Namespace	vn.co.cex.bean.login		
Attributes	Name	Type	Description
	email	String	
	password	String	
	state	int	
	oldPassword	String	
	passwordGenerated	String	
Methods	Name	Input	Output
	resetPassword()		
	sendMailResetPassword()		
	encryptPassword()		

- **LoginBean**

Class	LoginBean		
Description	Login to the system.		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	LoginBean.java		
Namespace	vn.co.cex.bean.login		
Attributes	Name	Type	Description
	email	String	
	password	String	
	role	int	
	fullName	String	
	status	int	
Methods	Name	Input	Output
	checkLogin()		

- **UserDetailBean**

Class	OperationFeeBean		
Description	Show bill of lading and search bill of lading.		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		

Source File	UsersDetailBean.java		
Namespace	vn.co.cex.bean.users		
Attributes	Name	Name	Name
	name	String	name
	taxCode	String	taxCode
	email	String	email
	phoneNumber	String	phoneNumber
	fax	String	fax
	filename	String	filename
	districtName	String	districtName
	provinceName	String	provinceName
	address	String	address
Methods	Name	Input	Output
	updateUserInfo()		
	uploadUserAvatar(File UploadEvent)	FileUploadEvent	
	updatePassword()		
	rechargeUserAccount()		
	redirectUsersAccountInformation()		String
	updateCompany()		
	addCompany()		
	rechargeUserAccount()		

- **UsersAccountBean**

Class	LoginBean		
Description	Login to the system.		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	LoginBean.java		
Namespace	vn.co.cex.bean.login		
Attributes	Name	Type	Description
Methods	Name	Input	Output
	redirectUsersAccountInformation()		String

- **OperationFeeAddBean**

Class	OperationFeeAddBean		
--------------	---------------------	--	--

Description	Add Operation fee.			
Base Class	BaseBean			
Constructor	N/A			
Prototype	N/A			
Source File	OperationFeeAddBean.java			
Namespace	vn.co.cex.bean.operationfee			
Methods	Name	Input	Output	Description
	addNewFee()			

- **OperationFeeBean**

Class	OperationFeeBean			
Description	Show Operation fee.			
Base Class	BaseBean			
Constructor	N/A			
Prototype	N/A			
Source File	OperationFeeBean.java			
Namespace	vn.co.cex.bean.operationfee			
Attributes	Name	Type	Description	
	operationFees	List<OperationFee>		
	status	Integer		
Methods	Name	Input	Output	Description
	getOperationFeeBO()		OperationFeeBO	
	setOperationFeeBO(OperationFeeBO)			
	getOperationFees()		List<OperationFee>	
	setOperationFees(List<OperationFee>)			
	getStatus()		Integer	
	setStatus(Integer)			
	searchOperationFee()			

- **OperationFeeEditBean**

Class	OperationFeeEditBean			
Description	Add Operation fee.			
Base Class	BaseBean			
Constructor	N/A			
Prototype	N/A			
Source File	OperationFeeEditBean.java			
Namespace	vn.co.cex.bean.operationfee			

Methods	Name	Input	Output	Description
	editFee()			

- **ReferencePriceEditBean**

Class	ReferencePriceEditBean		
Description	Edit reference price.		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	ReferencePriceEditBean.java		
Namespace	vn.co.cex.bean.operationfee		
Attributes	Name	Type	Description
Methods	Name	Input	Output
	updateReferencePrice()		
	gotoListReferencePrice()		String

- **PaymentDetailBean**

Class	LoginBean		
Description	Show payment detail of user.		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	PaymentDetailBean.java		
Namespace	vn.co.cex.bean.payment		
Attributes	Name	Type	Description
	id	Integer	
	amount	Float	
	type	boolean	
	description	String	
	userId	int	
Methods	Name	Input	Output
	searchPaymentDetailUser ()		

- **ReportBean**

Class	ReportBean		
Description	Show Operation fee.		
Base Class	BaseBean		
Constructor	N/A		

Prototype	N/A			
Source File	ReportBean.java			
Namespace	vn.co.cex.bean.report			
Attributes	Name	Type	Description	
	userName	String		
	fullName	String		
	reportTitle	String		
	reportContent	String		
	reportReply	String		
	status	boolean		
Methods	Name	Input	Output	Description
	searchReportForAdmin()			
	searchReportForUser()			
	deleteReport()			

- **ReportDetailBean**

Class	ReportDetailBean			
Description	Show detail report and response.			
Base Class	BaseBean			
Constructor	N/A			
Prototype	N/A			
Source File	ReportDetailBean.java			
Namespace	vn.co.cex.bean.report			
Attributes	Name	Type	Description	
	isSuccess	boolean		
	id	int		
	userID	int		
	reportTitle	String		
	reportQuestion	String		
	reportSolution	String		
	reportContent	String		
	reportReply	String		
Methods	Name	Input	Output	Description
	addNewReport()			

	updateReportReply()			
	goToListReportUser()			

- **UpdatePasswordBean**

Class	UpdatePasswordBean		
Description	Support user change password.		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	UpdatePasswordBean.java		
Namespace	vn.co.cex.bean.login		
Attributes	Name	Type	Description
	oldPassword	String	
	passwordGenerated	String	
Methods	Name	Input	Output
	updatePassword ()		
	encryptPassword()		

- **UsersBean**

Class	UsersBean		
Description	Show List Users.		
Base Class	BaseBean		
Constructor	N/A		
Prototype	N/A		
Source File	UsersBean.java		
Namespace	vn.co.cex.bean.users		
Attributes	Name	Type	Description
	id	Integer	
	code	String	
	fullName	String	
	email	String	
	password	String	
	phoneNumber	String	
	address	String	
	province	String	
	district	String	
	identityCard	String	
	identityCardPlace	String	

	role	Integer		
	status	int		
	companyId	Integer		
Methods	Name	Input	Output	Description
	searchUser()			
	deactiveUser()			
	activateUser()			

2.1.3 BO class

- **BaseBO**

Class	BaseBO
Description	An interface of BaseBOImpl
Base Class	N/A
Constructor	N/A
Prototype	N/A
Source File	BaseBO.java
Namespace	vn.co.cex.bo

- **BillOfLadingBO**

Class	BillOfLadingBO			
Description	An interface of BillOfLadingBOImpl			
Base Class	BaseBO			
Constructor	N/A			
Prototype	N/A			
Source File	BillOfLadingBO.java			
Namespace	vn.co.cex.bo			
Methods	Name	Input	Output	Description
	countTotalBillOfLading(int)	int	int	
	getBillOfLadingSummary()			
	searchBillOfLadingSummary(Integer, Integer, Float, Float, String, String, Date, Date)	goodsTypeId packFormId weight volume departureProvince arrivalProvince departureDate arrivalDate	List<BillOfLadingDTO>	
	getChartView()	List<ChartView>		

	addNewBillOfLading(BillOfLading)	BillOfLading	boolean	
	updateBillOfLading(BillOfLading)	BillOfLading	boolean	
	getBillOfLadingById(int)	int	BillOfLading	
	getBillOfLadingDTOById(int)	int	BillOfLading	
	searchBillOfLading(Integer, Integer, Float, Float, String, String, Date, Date, Integer, int, int)	goodsTypeId packagedFormId weight volume departureProvince arrivalProvince departureDate arrivalDate status pageSize pageIndex	List<BillOfLadingDTO>	
	searchBillOfLadingOfGoodsOwner(Integer, Integer, Float, Float, String, String, Date, Date, int, int, int)	goodsTypeId packagedFormId weight volume departureProvince arrivalProvince departureDate arrivalDate userId	List<BillOfLadingDTO>	
	countBillOfLadingOfGoodsOwner(Integer, Integer, Float, Float, String, String, Date, Date, int)	goodsTypeId packagedFormId weight volume departureProvince arrivalProvince departureDate arrivalDate userId	int	

- CarrierAuctionBO

Class	CarrierAuctionBO			
Description	An interface of CarrierAuctionBOImpl			
Base Class	BaseBO			
Constructor	N/A			
Prototype	N/A			
Source File	CarrierAuctionBO.java			
Namespace	vn.co.cex.bo			
Methods	Name	Input	Output	Description
	addNewCarrierAuction(CarrierAuction)	CarrierAuction	boolean	

	updateCarrierAuction(Carrier Auction)	CarrierAuction	boolean	
	getCarrierAuction(int, int)	carrierId billOfLadingId	CarrierAuction	
	getCarrierAuctionList(int)	billOfLadingId	List<CarrierAuctionDTO>	
	getCarrierAuctionSuccess(int)	billOfLadingId	CarrierAuction DTO	
	getCarrierAuctionNotification()		List<CarrierAuctionNotificationDTO>	

- CommentBO

Class	CommentBO			
Description	An interface of CommentBOImpl			
Base Class	BaseBO			
Constructor	N/A			
Prototype	N/A			
Source File	CommentBO.java			
Namespace	vn.co.cex.bo			
Methods	Name	Input	Output	Description
	getComments(int)	billOfLadingId	List<Comment DTO>	
	addNewComment(Comment)	comment	boolean	
	addNewAnswerComment(AnswerComment)	answerComment	boolean	

- CompanyBO

Class	CompanyBO			
Description	An interface of CompanyBOImpl			
Base Class	BaseBO			
Constructor	N/A			
Prototype	N/A			
Source File	CompanyBO.java			
Namespace	vn.co.cex.bo			
Methods	Name	Input	Output	Description
	getCompanyById(int)	id	Company	

	getCompanyByEmail(String)	id	Company	
	updateCompany(Company)	Company	boolean	
	InsertCompany(Company)	Company	boolean	

- **DistrictBO**

Class	DistrictBO			
Description	An interface of DistrictBOImpl			
Base Class	BaseBO			
Constructor	N/A			
Prototype	N/A			
Source File	DistrictBO.java			
Namespace	vn.co.cex.bo			
Methods	Name	Input	Output	Description
	getAllDistrict()		List<District>	
	getDistrictByProvinceCode(String)	provinceCode	List<District>	
	getDistrictNameByCode(String)	code	String	
	getProvinceCodeByCode(String)	code	String	

- **GoodsTypeBO**

Class	GoodsTypeBO			
Description	An interface of GoodsTypeBOImpl			
Base Class	BaseBO			
Constructor	N/A			
Prototype	N/A			
Source File	GoodsTypeBO.java			
Namespace	vn.co.cex.bo			
Methods	Name	Input	Output	Description
	getAllGoodsType()		List<District>	
	getGoodsType(int)	Id	List<District>	
	updateGoodsType(GoodsType)	goodsType	boolean	

- **OperationFeeBO**

Class	OperationFeeBO			
Description	An interface of OperationFeeBOImpl			
Base Class	BaseBO			
Constructor	N/A			
Prototype	N/A			
Source File	OperationFeeBO.java			
Namespace	vn.co.cex.bo			
Methods	Name	Input	Output	Description
	getAllOperationFee(Integer)	Status	List<OperationFee>	
	addNewOperationFee(OperationFee)	OperationFee	boolean	
	updateOperationFee(OperationFee)	OperationFee	boolean	
	getOperationFeeById(int)	id	OperationFee	
	getOperationFeeByCode(String)	code	OperationFee	

- **PackagedFormBO**

Class	PackagedFormBO			
Description	An interface of PackagedFormBOImpl			
Base Class	BaseBO			
Constructor	N/A			
Prototype	N/A			
Source File	PackagedFormBO.java			
Namespace	vn.co.cex.bo			
Methods	Name	Input	Output	Description
	getAllPackagedForm ()		List<getPackagedForm>	

- **PaymentDetailBO**

Class	PaymentDetailBO			
Description	An interface of PaymentDetailBOImpl			
Base Class	BaseBO			
Constructor	N/A			

Prototype	N/A			
Source File	PaymentDetailBO.java			
Namespace	vn.co.cex.bo			
Methods	Name	Input	Output	Description
	addPaymentDetail(PaymentDetail)	paymentDetail	boolean	
	searchPaymentDetailUser(Date, Date, int, int, int)	beginPaymentDate endPaymentDate userId, pageSize pageIndex	List<PaymentDetail>	
	countPaymentDetailUser(Date, Date, int)	beginPaymentDate endPaymentDate userId	int	

- **ProvinceBO**

Class	ProvinceBO			
Description	An interface of ProvinceBOImpl			
Base Class	BaseBO			
Constructor	N/A			
Prototype	N/A			
Source File	ProvinceBO.java			
Namespace	vn.co.cex.bo			
Methods	Name	Input	Output	Description
	getAllProvince()	paymentDetail	List<Province>	
	getProvinceByCode(String)	code	Province	

- **ReportBO**

Class	ReportBO			
Description	An interface of ReportBOImpl			
Base Class	BaseBO			
Constructor	N/A			
Prototype	N/A			

Source File	ReportBO.java		
Namespace	vn.co.cex.bo		
Methods	Name	Input	Output
	getAllReport()		List<Report>
	searchReportByAdmin(String, Date, Date, String, String, int, int)	id userId userName reportDateBegin reportDateEnd reportTitle reportQuestion reportSolution reportContent reportReply status	List<Report>
	countReportByAdmin(String, Date, Date, String, String)	userName reportDateBegin reportDateEnd reportTitle reportReply	int
	getReportById(int)	id	ReportDTO
	updateReport(Report)	Report	boolean
	searchReportByUser(int, Date, Date, String, boolean, int, int)	reportDateBegin reportDateEnd reportTitle status pageSize pageIndex	List<Report>
	countReportByUser(int, Date, Date, String, boolean)	reportDateBegin reportDateEnd reportTitle status	int
	addNewReport(Report)	Report	boolean
	getAllReportByUserId(int)	userID	List< Province >
	deleteReport(int)	id	

- **UsersAccountBO**

Class	UsersAccountBO
Description	An interface of UsersAccountBOImpl
Base Class	BaseBO
Constructor	N/A
Prototype	N/A
Source File	UsersAccountBO.java

Namespace	vn.co.cex.bo			
Methods	Name	Input	Output	Description
	createNewAccount(int)	userId	boolean	
	getAccountByUserId(int)	userId	UserAccount	
	checkAccount(int)	userId	float	
	plusMoneyAccount(int, float)	userId amount	boolean	
	minusMoneyAccount(int, float)	userId amount	boolean	

- **UsersBO**

Class	UsersBO			
Description	An interface of UsersBOImpl			
Base Class	BaseBO			
Constructor	BaseBean()			
Prototype	N/A			
Source File	UsersBO.java			
Namespace	vn.co.cex.bo			
Methods	Name	Input	Output	Description
	getUserById(int)	Id	Users	
	checkLogin(String, String)	Email, Password	Users	
	updateUsers(Users)	Users	Boolean	
	getUserByEmail(String)	Email	Users	
	register(Users)	Users	int	
	checkEmail(String)	Email	Boolean	
	checkPhoneNumber(String)	Phone no	Boolean	
	checkIdentityCard(String)	Identity card number	Boolean	
	searchUser(String, String, String, Integer, int, int, int)	fullName email province role status	List<Users >	
	countUsers(String, String, String, Integer, int)	fullName email province role status	Int	
	activateUser(int)	Id		
	deactivateUser(int)	Id		

2.1.4 BOImpl Class

- **BaseBOImpl**

Class	BaseBOImpl	
Description	Object manages the mapping details between a set of objects and underlying relational databases.	

Base Class	N/A		
Constructor	BaseBOImpl()		
Prototype	N/A		
Source File	BaseBOImpl.java		
Namespace	vn.co.cex.boImpl		
Methods	Name	Input	Output
	getCompanyDAO()		CompanyDAO
	setCompanyDAO(CompanyDAO)	CompanyDAO	
	getMailerBean()		MailerBean
	setMailerBean(Mailer Bean)	MailerBean	
	getUsersDAO()		UsersDAO
	setUsersDAO(UsersDAO)	UsersDAO	
	getReportDAO()		ReportDAO
	setReportDAO(Report DAO)	ReportDAO	
	getBillOfLadingDAO()		BillOfLadingDAO
	setBillOfLadingDAO(BillOfLadingDAO)	BillOfLadingDAO	
	getGoodsTypeDAO()		GoodsTypeDAO
	setGoodsTypeDAO(GoodsTypeDAO)	GoodsTypeDAO	
	getPackagedFormDAO()		PackagedFormDAO
	setPackagedFormDAO(PackagedFormDAO)	PackagedFormDAO	
	getProvinceDAO()		ProvinceDAO
	setProvinceDAO(ProvinceDAO)	ProvinceDAO	
	getDistrictDAO()		DistrictDAO
	setDistrictDAO(DistrictDAO)	DistrictDAO	
	getOperationFeeDAO()		OperationFeeDAO
	setOperationFeeDAO(OperationFeeDAO)	OperationFeeDAO	
	getCarrierAuctionDAO()		CarrierAuctionDAO
	setCarrierAuctionDAO(CarrierAuctionDAO)	CarrierAuctionDAO	
	getCommentDAO()		CommentDAO
	setCommentDAO(CommentDAO)	CommentDAO	
	getUsersAccountDAO()		UsersAccountDAO
	setUsersAccountDAO(UsersAccountDAO)	UsersAccountDAO	
	getPaymentDetailDAO()		PaymentDetailDAO

	setPaymentDetailDAO (PaymentDetailDAO)	PaymentDetailDAO		
--	---	------------------	--	--

Class	BaseBOImpl		
Description	Object manages the mapping details between a set of objects and underlying relational databases.		
Base Class	N/A		
Constructor	BaseBOImpl()		
Prototype	N/A		
Source File	BaseBOImpl.java		
Namespace	vn.co.cex.bo.impl		
Attributes	Name	Type	Description
	Id	Integer	
	FullName	String	
	Email	String	
	Password	String	
	PhoneNumber	String	
	address	String	
	identityCard	String	
	identityCardPlace	String	
	identityCardDate	Date	
	identityCardImage	String	
	role	int	
	status	int	
	created	Date	
	companyId	Integer	
	userAvatar	String	

- [BillOfLadingBOImpl](#)

Class	BillOfLadingBOImpl		
Description	Implement the business logic by calling BillOfLadingDAO.		
Base Class	BaseBOImpl		
Constructor	N/A		
Prototype	N/A		
Source File	BillOfLadingBOImpl.java		
Namespace	vn.co.cex.bo.impl		
Methods	Name	Input	Output
	countTotalBillOfLading(int)	int	int
	getBillOfLadingSummary()		
	searchBillOfLadingSummary	goodsTypeId	List<BillOfLadingSummary>

	(Integer, Integer, Float, Float, String, String, Date, Date)	packFormId weight volume departureProvince arrivalProvince departureDate arrivalDate	adingDTO>	
	getChartView()	ListM<ChartView>		
	addNewBillOfLading(BillOfLading)	BillOfLading	boolean	
	updateBillOfLading(BillOfLading)	BillOfLading	boolean	
	getBillOfLadingById(int)	int	BillOfLading	
	getBillOfLadingDTOById(int)	int	BillOfLading	
	searchBillOfLading(Integer, Integer, Float, Float, String, String, Date, Date, Integer, int, int)	goodsTypeId packagedFormId weight volume departureProvince arrivalProvince departureDate arrivalDate status pageSize pageIndex	List<BillOfLadingDTO>	
	searchBillOfLadingOfGoodsOwner(Integer, Integer, Float, Float, String, String, Date, Date, int, int, int)	goodsTypeId packagedFormId weight volume departureProvince arrivalProvince departureDate arrivalDate userId	List<BillOfLadingDTO>	
	countBillOfLadingOfGoodsOwner(Integer, Integer, Float, Float, String, String, Date, Date, int)	goodsTypeId packagedFormId weight volume departureProvince arrivalProvince departureDate arrivalDate userId	int	

- CarrierAuctionBOImpl

Class	CarrierAuctionBOImpl
Description	Implement the business logic by calling CarrierAuctionDAO.
Base Class	BaseBOImpl
Constructor	N/A

Prototype	N/A			
Source File	CarrierAuctionBOImpl.java			
Namespace	vn.co.cex.bo.impl			
Methods	Name	Input	Output	Description
	addNewCarrierAuction(CarrierAuction)	CarrierAuction	boolean	
	updateCarrierAuction(CarrierAuction)	CarrierAuction	boolean	
	getCarrierAuction(int, int)	carrierId billOfLadingId	CarrierAuction	
	getCarrierAuctionList(int)	billOfLadingId	List<CarrierAuctionDTO>	
	getCarrierAuctionSuccess(int)	billOfLadingId	CarrierAuctionDTO	
	getCarrierAuctionNotification()		List<CarrierAuctionNotificationDTO>	

- **CommentBOImpl**

Class	CommentBOImpl			
Description	Implement the business logic by calling CommentDAO.			
Base Class	BaseBOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	CommentBOImpl.java			
Namespace	vn.co.cex.bo.impl			
Methods	Name	Input	Output	Description
	getComments(int)	billOfLadingId	List<CommentDTO>	
	addNewComment(Comment)	comment	boolean	
	addNewAnswerComment(AnswerComment)	answerComment	boolean	

- **CompanyBOImpl**

Class	CompanyBOImpl			
Description	Implement the business logic by calling CompanyDAO.			
Base Class	BaseBOImpl			

Constructor	N/A			
Prototype	N/A			
Source File	CompanyBOImpl.java			
Namespace	vn.co.cex.bo.impl			
Methods	Name	Input	Output	Description
	getCompanyById(int)	id	Company	
	getCompanyByEmail(String)	id	Company	
	updateCompany(Company)	Company	boolean	
	InsertCompany(Company)	Company	boolean	

- **DistrictBOImpl**

Class	DistrictBO			
Description	Implement the business logic by calling DistrictDAO.			
Base Class	BaseBOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	DistrictBOImpl.java			
Namespace	vn.co.cex.bo.impl			
Methods	Name	Input	Output	Description
	getAllDistrict()		List<District>	
	getDistrictByProvinceCode(String)	provinceCode	List<District>	
	getDistrictNameByCode(String)	code	String	
	getProvinceCodeByCode(String)	code	String	

- **GoodsTypeBOImpl**

Class	GoodsTypeBOImpl			
Description	Implement the business logic by calling GoodsTypeDAO.			
Base Class	BaseBOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	GoodsTypeBOImpl.java			
Namespace	vn.co.cex.bo.impl			
Methods	Name	Input	Output	Description

	getAllGoodsType()		List<District>	
	getGoodsType(int)	Id	List<District>	
	updateGoodsType(GoodsType)	goodsType	boolean	

- **OperationFeeBOImpl**

Class	OperationFeeBOImpl			
Description	Implement the business logic by calling OperationFeeDAO.			
Base Class	BaseBOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	OperationFeeBOImpl.java			
Namespace	vn.co.cex.bo.impl			
Methods	Name	Input	Output	Description
	getAllOperationFee(Integer)	Status	List<OperationFee>	
	addNewOperationFee(OperationFee)	OperationFee	boolean	
	updateOperationFee(OperationFee)	OperationFee	boolean	
	getOperationFeeById(int)	id	OperationFee	

- **PackagedFormBOImpl**

Class	PackagedFormBOImpl			
Description	Implement the business logic by calling PackagedFormDAO.			
Base Class	BaseBOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	PackagedFormBOImpl.java			
Namespace	vn.co.cex.bo.impl			
Methods	Name	Input	Output	Description
	getAllPackagedForm()		List<PackagedForm>	

- **PaymentDetailBOImpl**

Class	PaymentDetailBO			
--------------	------------------------	--	--	--

Description	Implement the business logic by calling PaymentDetailDAO.			
Base Class	BaseBOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	PaymentDetailBOImpl.java			
Namespace	vn.co.cex.bo.impl			
Methods	Name	Input	Output	Description
	addPaymentDetail(PaymentDetail)	paymentDetail	boolean	
	searchPaymentDetailUser(Date, Date, int, int, int)	beginPaymentDate endPaymentDate userId pageSize pageIndex	List<Payment Detail>	
	countPaymentDetailUser(Date, Date, int)	beginPaymentDate endPaymentDate userId	int	

- **ProvinceBOImpl**

Class	ProvinceBOImpl			
Description	Implement the business logic by calling ProvinceDAO.			
Base Class	BaseBOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	ProvinceBOImpl.java			
Namespace	vn.co.cex.bo.impl			
Methods	Name	Input	Output	Description
	getAllProvince()	paymentDetail	List<Province >	
	getProvincieByCode(String)	code	Province	

- **ReportBOImpl**

Class	ReportBO			
Description	Implement the business logic by calling ReportDAO.			
Base Class	BaseBOImpl			

Constructor	N/A			
Prototype	N/A			
Source File	ReportBOImpl.java			
Namespace	vn.co.cex.bo.impl			
Methods	Name	Input	Output	Description
	getAllReport()		List<Report>	
	searchReportByAdmin(String, Date, Date, String, String, int, int)	id userId userName reportDateBegin reportDateEnd reportTitle reportQuestion reportSolution reportContent reportReply status	List<Report>	
	countReportByAdmin(String, Date, Date, String, String)	userName reportDateBegin reportDateEnd reportTitle reportReply	int	
	getReportById(int)	id	ReportDTO	
	updateReport(Report)	Report	boolean	
	searchReportByUser(int, Date, Date, String, boolean, int, int)	reportDateBegin reportDateEnd reportTitle status pageSize pageIndex	List<Report>	
	countReportByUser(int, Date, Date, String, boolean)	reportDateBegin reportDateEnd reportTitle status	int	
	addNewReport(Report)	Report	boolean	
	getAllReportByUserId(int)	userID	List<Province>	
	deleteReport(int)	id		

- **UsersAccountBOImpl**

Class	UsersAccountBOImpl
Description	Implement the business logic by calling UserAccountDAO.
Base Class	BaseBOImpl
Constructor	N/A
Prototype	N/A

Source File	UsersAccountBOImpl.java			
Namespace	vn.co.cex.bo.impl			
Methods	Name	Input	Output	Description
	createNewAccount(int)	userId	boolean	
	getAccountByUserId(int)	userId	UserAccount	
	checkAccount(int)	userId	float	
	plusMoneyAccount(int, float)	userId amount	boolean	
	minusMoneyAccount(int, float)	userId amount	boolean	

- **UsersBOImpl**

Class	UsersBOImpl			
Description	Implement the business logic by calling UserDAO.			
Base Class	BaseBOImpl			
Constructor	BaseBean()			
Prototype	N/A			
Source File	UsersBOImpl.java			
Namespace	vn.co.cex.bo.impl			
Methods	Name	Input	Output	Description
	getUserById(int)	Id	Users	
	checkLogin(String, String)	Email, Password	Users	
	updateUsers(Users)	Users	Boolean	
	getUserByEmail(String)	Email	Users	
	register(Users)	Users	int	
	checkEmail(String)	Email	Boolean	
	checkPhoneNumber(String)	Phone no	Boolean	
	checkIdentityCard(String)	Identity card number	Boolean	
	searchUser(String, String, String, Integer, int, int)	fullName, email, province, role, status	List<Users>	
	countUsers(String, String, String, Integer, int)	fullName, email province role, status	Int	
	activateUser(int)	Id		
	deactivateUser(int)	Id		

2.1.5 DAO class

- **BaseDAO**

Class	BaseDAO			
Description	An interface of BaseDAOImpl			
Base Class	N/A			

Constructor	N/A
Prototype	N/A
Source File	BaseDAO.java
Namespace	vn.co.cex.dao

- **BillOfLadingDAO**

Class	BillOfLadingDAO																																										
Description	An interface of BillOfLadingDAOImpl																																										
Base Class	BaseDAO																																										
Constructor	N/A																																										
Prototype	N/A																																										
Source File	BillOfLadingDAO.java																																										
Namespace	vn.co.cex.dao																																										
Methods	<table border="1"> <tr> <th>Name</th> <th>Input</th> <th>Output</th> <th>Description</th> </tr> <tr> <td>countTotalBillOfLading(int)</td> <td>int</td> <td>int</td> <td></td> </tr> <tr> <td>getBillOfLadingSummary()</td> <td></td> <td></td> <td></td> </tr> <tr> <td>searchBillOfLadingSummary(Integer, Integer, Float, Float, String, String, Date, Date)</td> <td>goodsTypeId packFormId weight volume departureProvince arrivalProvince departureDate arrivalDate</td> <td>List<BillOfLadingDTO></td> <td></td> </tr> <tr> <td>getChartView()</td> <td>List<ChartView></td> <td></td> <td></td> </tr> <tr> <td>addNewBillOfLading(BillOfLading)</td> <td>BillOfLading</td> <td>boolean</td> <td></td> </tr> <tr> <td>updateBillOfLading(BillOfLading)</td> <td>BillOfLading</td> <td>boolean</td> <td></td> </tr> <tr> <td>getBillOfLadingById(int)</td> <td>int</td> <td>BillOfLading</td> <td></td> </tr> <tr> <td>getBillOfLadingDTOById(int)</td> <td>int</td> <td>BillOfLading</td> <td></td> </tr> <tr> <td>searchBillOfLading(Integer, Integer, Float, Float, String, String, Date, Date, Integer, int, int)</td> <td>goodsTypeId packagedFormId weight volume departureProvince arrivalProvince departureDate arrivalDate status pageSize pageIndex</td> <td>List<BillOfLadingDTO></td> <td></td> </tr> </table>	Name	Input	Output	Description	countTotalBillOfLading(int)	int	int		getBillOfLadingSummary()				searchBillOfLadingSummary(Integer, Integer, Float, Float, String, String, Date, Date)	goodsTypeId packFormId weight volume departureProvince arrivalProvince departureDate arrivalDate	List<BillOfLadingDTO>		getChartView()	List<ChartView>			addNewBillOfLading(BillOfLading)	BillOfLading	boolean		updateBillOfLading(BillOfLading)	BillOfLading	boolean		getBillOfLadingById(int)	int	BillOfLading		getBillOfLadingDTOById(int)	int	BillOfLading		searchBillOfLading(Integer, Integer, Float, Float, String, String, Date, Date, Integer, int, int)	goodsTypeId packagedFormId weight volume departureProvince arrivalProvince departureDate arrivalDate status pageSize pageIndex	List<BillOfLadingDTO>			
Name	Input	Output	Description																																								
countTotalBillOfLading(int)	int	int																																									
getBillOfLadingSummary()																																											
searchBillOfLadingSummary(Integer, Integer, Float, Float, String, String, Date, Date)	goodsTypeId packFormId weight volume departureProvince arrivalProvince departureDate arrivalDate	List<BillOfLadingDTO>																																									
getChartView()	List<ChartView>																																										
addNewBillOfLading(BillOfLading)	BillOfLading	boolean																																									
updateBillOfLading(BillOfLading)	BillOfLading	boolean																																									
getBillOfLadingById(int)	int	BillOfLading																																									
getBillOfLadingDTOById(int)	int	BillOfLading																																									
searchBillOfLading(Integer, Integer, Float, Float, String, String, Date, Date, Integer, int, int)	goodsTypeId packagedFormId weight volume departureProvince arrivalProvince departureDate arrivalDate status pageSize pageIndex	List<BillOfLadingDTO>																																									

- CarrierAuctionDAO

Class	CarrierAuctionDAO			
Description	An interface of CarrierAuctionDAOImpl			
Base Class	BaseDAO			
Constructor	N/A			
Prototype	N/A			
Source File	CarrierAuctionDAO.java			
Namespace	vn.co.cex.dao			
Methods	Name	Input	Output	Description
	addNewCarrierAuction(CarrierAuction)	CarrierAuction	boolean	
	updateCarrierAuction(CarrierAuction)	CarrierAuction	boolean	
	getCarrierAuction(int, int)	carrierId billOfLadingId	CarrierAuction	
	getCarrierAuctionList(int)	billOfLadingId	List<CarrierAuctionDTO>	
	getCarrierAuctionSuccess(int)	billOfLadingId	CarrierAuction DTO	
	getCarrierAuctionNotification()		List<CarrierAuctionNotificationDTO>	

- CommentDAO

Class	CommentDAO			
Description	An interface of CommentDAOImpl			
Base Class	BaseDAO			
Constructor	N/A			
Prototype	N/A			
Source File	CommentDAO.java			
Namespace	vn.co.cex.dao			
Methods	Name	Input	Output	Description
	getComments(int)	billOfLadingId	List<Comment DTO>	
	addNewComment(Comment)	comment	boolean	
	addNewAnswerComment(AnswerComment)	answerComment	boolean	

- **CompanyDAO**

Class	CompanyDAO			
Description	An interface of CompanyDAOImpl			
Base Class	BaseDAO			
Constructor	N/A			
Prototype	N/A			
Source File	CompanyBO.java			
Namespace	vn.co.cex.dao			
Methods	Name	Input	Output	Description
	getCompanyById(int)	id	Company	
	getCompanyByEmail(String)	id	Company	
	updateCompany(Company)	Company	boolean	
	InsertCompany(Company)	Company	boolean	

- **DistrictDAO**

Class	DistrictDAO			
Description	An interface of DistrictDAOImpl			
Base Class	BaseDAO			
Constructor	N/A			
Prototype	N/A			
Source File	DistrictDAO.java			
Namespace	vn.co.cex.dao			
Methods	Name	Input	Output	Description
	getAllDistrict()		List<District>	
	getDistrictByProvinceCode(String)	provinceCode	List<District>	
	getDistrictNameByCode(String)	code	String	
	getProvinceCodeByCode(String)	code	String	

- **GoodsTypeDAO**

Class	GoodsTypeDAO			
Description	An interface of GoodsTypeDAOImpl			
Base Class	BaseDAO			

Constructor	N/A			
Prototype	N/A			
Source File	GoodsTypeDAO.java			
Namespace	vn.co.cex.dao			
Methods	Name	Input	Output	Description
	getAllGoodsType()		List<District>	
	getGoodsType(int)	Id	List<District>	
	updateGoodsType(GoodsType)	goodsType	boolean	

- **OperationFeeDAO**

Class	OperationFeeDAO			
Description	An interface of OperationFeeDAOImpl			
Base Class	BaseDAO			
Constructor	N/A			
Prototype	N/A			
Source File	OperationFeeDAO.java			
Namespace	vn.co.cex.dao			
Methods	Name	Input	Output	Description
	getAllOperationFee(Integer)	Status	List<OperationFee>	
	addNewOperationFee(OperationFee)	OperationFee	boolean	
	updateOperationFee(OperationFee)	OperationFee	boolean	
	getOperationFeeById(int)	id	OperationFee	
	getOperationFeeByCode(String)	code	OperationFee	

- **PackagedFormDAO**

Class	PackagedFormDAO			
Description	An interface of PackagedFormDAOImpl			
Base Class	BaseDAO			
Constructor	N/A			
Prototype	N/A			
Source File	PackagedFormBO.java			

Namespace	vn.co.cex.dao			
Methods	Name	Input	Output	Description
	getAllPackagedForm ()		List<getPackagedForm>	

- **PaymentDetailDAO**

Class	PaymentDetailDAO			
Description	An interface of PaymentDetailDAOImpl			
Base Class	BaseBO			
Constructor	N/A			
Prototype	N/A			
Source File	PaymentDetailBO.java			
Namespace	vn.co.cex.dao			
Methods	Name	Input	Output	Description
	addPaymentDetail(PaymentDetail)	paymentDetail	boolean	
	searchPaymentDetailUser(Date, Date, int, int, int)	beginPaymentDate endPaymentDate userId, pageSize pageIndex	List<Paym entDetail>	
	countPaymentDetailUser(Date, Date, int)	beginPaymentDate endPaymentDate userId	int	

- **ProvinceDAO**

Class	ProvinceDAO			
Description	An interface of ProvinceDAOImpl			
Base Class	BaseDAO			
Constructor	N/A			
Prototype	N/A			
Source File	ProvinceDAO.java			
Namespace	vn.co.cex.dao			
Methods	Name	Input	Output	Description
	getAllProvince()	paymentDetail	List< Province >	
	getProcinveByCode(String)	code	Province	

- ReportDAO

Class	ReportDAO			
Description	An interface of ReportDAOImpl			
Base Class	BaseDAO			
Constructor	N/A			
Prototype	N/A			
Source File	ReportDAO.java			
Namespace	vn.co.cex.dao			
Methods	Name	Input	Output	Description
	getAllReport()		List<Report>	
	searchReportByAdmin(String, Date, Date, String, String, int, int)	id userId userName reportDateBegin reportDateEnd reportTitle reportQuestion reportSolution reportContent reportReply status	List<Report>	
	countReportByAdmin(String, Date, Date, String, String)	userName reportDateBegin reportDateEnd reportTitle reportReply	int	
	getReportById(int)	id	ReportDTO	
	updateReport(Report)	Report	boolean	
	searchReportByUser(int, Date, Date, String, boolean, int, int)	reportDateBegin reportDateEnd reportTitle status pageSize pageIndex	List<Report>	
	countReportByUser(int, Date, Date, String, boolean)	reportDateBegin reportDateEnd reportTitle status	int	
	addNewReport(Report)	Report	boolean	
	getAllReportByUserId(int)	userID	List< Province >	
	deleteReport(int)	id		

- UsersAccountDAO

Class	UsersAccountDAO
--------------	------------------------

Description	An interface of UsersAccountDAOImpl			
Base Class	BaseDAO			
Constructor	N/A			
Prototype	N/A			
Source File	UsersAccountDAO.java			
Namespace	vn.co.cex.dao			
Methods	Name	Input	Output	Description
	createNewAccount(int)	userId	boolean	
	getAccountByUserId(int)	userId	UserAccount	
	checkAccount(int)	userId	float	
	plusMoneyAccount(int, float)	userId amount	boolean	
	minusMoneyAccount(int, float)	userId amount	boolean	

- **UsersDAO**

Class	UsersDAO			
Description	An interface of UsersDAOImpl			
Base Class	BaseDAO			
Constructor	BaseBean()			
Prototype	N/A			
Source File	UsersDAO.java			
Namespace	vn.co.cex.dao			
Methods	Name	Input	Output	Description
	getUserById(int)	Id	Users	
	checkLogin(String, String)	Email Password	Users	
	updateUsers(Users)	Users	Boolean	
	getUserByEmail(String)	Email	Users	
	register(Users)	Users	int	
	checkEmail(String)	Email	Boolean	
	checkPhoneNumber(String)	Phone no	Boolean	
	checkIdentityCard(String)	Identity card number	Boolean	
	searchUser(String, String, String, Integer, int, int, int)	fullName email province role status	List<Users>	
	countUsers(String, String, String, Integer, int)	fullName email province	Int	

		role status		
	activateUser(int)	Id		
	deactivateUser(int)	Id		

2.1.6 DAOImpl class

- **BaseDAOImpl**

Class	BaseDAOImpl
Description	Access the Database and implement the business logic.
Base Class	N/A
Constructor	N/A
Prototype	N/A
Source File	BaseDAOImpl.java
Namespace	vn.co.cex.dao.impl

- **BillOfLadingDAOImpl**

Class	BillOfLadingDAOImpl			
Description	Access the Database and implement the business logic.			
Base Class	BaseDAOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	BillOfLadingDAOImpl.java			
Namespace	vn.co.cex.dao.impl			
Methods	Name	Input	Output	Description
	countTotalBillOfLading(int)	int	int	
	getBillOfLadingSummary()			
	searchBillOfLadingSummary(Integer, Integer, Float, Float, String, String, Date, Date)	goodsTypeId packFormId weight volume departureProvince arrivalProvince departureDate arrivalDate	List<BillOfLadingDTO>	
	getChartView()	List<ChartView>		
	addNewBillOfLading(BillOfLading)	BillOfLading	boolean	
	updateBillOfLading(BillOfLading)	BillOfLading	boolean	
	getBillOfLadingById(int)	int	BillOfLading	

	getBillOfLadingDTOById(int)	int	BillOfLading	
	searchBillOfLading(Integer, Integer, Float, Float, String, String, Date, Date, Integer, int, int)	goodsTypeId packagedFormId weight volume departureProvince arrivalProvince departureDate arrivalDate status pageSize pageIndex	List<BillOfLadingDTO>	
	searchBillOfLadingOfGoodsOwner(Integer, Integer, Float, Float, String, String, Date, Date, int, int, int)	goodsTypeId packagedFormId weight volume departureProvince arrivalProvince departureDate arrivalDate userId	List<BillOfLadingDTO>	
	countBillOfLadingOfGoodsOwner(Integer, Integer, Float, Float, String, String, Date, Date, int)	goodsTypeId packagedFormId weight volume departureProvince arrivalProvince departureDate arrivalDate userId	int	

- CarrierAuctionDAOImpl

Class	CarrierAuctionDAOImpl			
Description	Access the Database and implement the business logic.			
Base Class	BaseDAOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	CarrierAuctionDAOImpl.java			
Namespace	vn.co.cex.dao.impl			
Methods	Name	Input	Output	Description
	addNewCarrierAuction(CarrierAuction)	CarrierAuction	boolean	
	updateCarrierAuction(CarrierAuction)	CarrierAuction	boolean	
	getCarrierAuction(int, int)	carrierId billOfLadingId	CarrierAuction	
	getCarrierAuctionList(int)	billOfLadingId	List<CarrierAu	

			ctionDTO>	
	getCarrierAuctionSuccess(int)	billOfLadingId	CarrierAuction DTO	
	getCarrierAuctionNotification ()		List<CarrierAu ctionNotificatio nDTO>	

- CommentDAOImpl

Class	CommentDAOImpl			
Description	Access the Database and implement the business logic.			
Base Class	BaseDAOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	CommentDAOImpl.java			
Namespace	vn.co.cex.dao.impl			
Methods	Name	Input	Output	Description
	getComments(int)	billOfLadingId	List<Comment DTO>	
	addNewComment(Comment)	comment	boolean	
	addNewAnswerComment(Answe rComment)	answerComme nt	boolean	

- CompanyDAOImpl

Class	CompanyDAOImpl			
Description	Access the Database and implement the business logic.			
Base Class	BaseDAOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	CompanyBOImpl.java			
Namespace	vn.co.cex.dao.impl			
Methods	Name	Input	Output	Description
	getCompanyById(int)	id	Company	
	getCompanyByEmail(String)	id	Company	
	updateCompany(Company)	Company	boolean	
	InsertCompany(Company)	Company	boolean	

- **DistrictDAOImpl**

Class	DistrictDAOImpl			
Description	Access the Database and implement the business logic.			
Base Class	BaseDAOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	DistrictDAOImpl.java			
Namespace	vn.co.cex.dao.impl			
Methods	Name	Input	Output	Description
	getAllDistrict()		List<District>	
	getDistrictByProvinceCode(String)	provinceCode	List<District>	
	getDistrictNameByCode(String)	code	String	
	getProvinceCodeByCode(String)	code	String	

- **GoodsTypeDAOImpl**

Class	GoodsTypeDAOImpl			
Description	Access the Database and implement the business logic.			
Base Class	BaseDAOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	GoodsTypeDAOImpl.java			
Namespace	vn.co.cex.dao.impl			
Methods	Name	Input	Output	Description
	getAllGoodsType()		List<District>	
	getGoodsType(int)	Id	List<District>	
	updateGoodsType(GoodsType)	goodsType	boolean	

- **OperationFeeDAOImpl**

Class	OperationFeeDAOImpl			
Description	Access the Database and implement the business logic.			
Base Class	BaseDAOImpl			
Constructor	N/A			

Prototype	N/A			
Source File	OperationFeeDAOImpl.java			
Namespace	vn.co.cex.dao.impl			
Methods	Name	Input	Output	Description
	getAllOperationFee(Integer)	Status	List<OperationFee>	
	addNewOperationFee(OperationFee)	OperationFee	boolean	
	updateOperationFee(OperationFee)	OperationFee	boolean	
	getOperationFeeById(int)	id	OperationFee	
	getOperationFeeByCode(String)	code	OperationFee	

- **PackagedFormDAOImpl**

Class	PackagedFormDAOImpl			
Description	Access the Database and implement the business logic.			
Base Class	BaseDAOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	PackagedFormBOImpl.java			
Namespace	vn.co.cex.dao.impl			
Methods	Name	Input	Output	Description
	getAllPackagedForm ()		List<getPackagedForm>	

- **PaymentDetailDAOImpl**

Class	PaymentDetailDAOImpl			
Description	Access the Database and implement the business logic.			
Base Class	BaseBOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	PaymentDetailBOImpl.java			
Namespace	vn.co.cex.dao.impl			
Methods	Name	Input	Output	Description
	addPaymentDetail(PaymentDetail)	paymentDetail	boolean	
	searchPaymentDetailUser(Date, beginPaymentDate)		List<Paym	

	Date, int, int, int)	endPaymentDate userId, pageSize pageIndex	entDetail>	
	countPaymentDetailUser(Date, Date, int)	beginPaymentDate endPaymentDate userId	int	

- **ProvinceDAOImpl**

Class	ProvinceDAOImpl			
Description	Access the Database and implement the business logic.			
Base Class	BaseDAOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	ProvinceDAOImpl.java			
Namespace	vn.co.cex.dao.impl			
Methods	Name	Input	Output	Description
	getAllProvince()	paymentDetail	List<Province >	
	getProcinveByCode(String)	code	Province	

- **ReportDAOImpl**

Class	ReportDAOImpl			
Description	Access the Database and implement the business logic.			
Base Class	BaseDAOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	ReportDAOImpl.java			
Namespace	vn.co.cex.dao.impl			
Methods	Name	Input	Output	Description
	getAllReport()		List<Report>	
	searchReportByAdmin(String , Date, Date, String, String, int, int)	id userId userName reportDateBegin reportDateEnd reportTitle reportQuestion reportSolution	List<Report>	

		reportContent reportReply status		
	countReportByAdmin(String, Date, Date, String, String)	userName reportDateBegin reportDateEnd reportTitle reportReply	int	
	getReportById(int)	id	ReportDTO	
	updateReport(Report)	Report	boolean	
	searchReportByUser(int, Date, Date, String, boolean, int, int)	reportDateBegin reportDateEnd reportTitle status pageSize pageIndex	List<Report>	
	countReportByUser(int, Date, Date, String, boolean)	reportDateBegin reportDateEnd reportTitle status	int	
	addNewReport(Report)	Report	boolean	
	getAllReportByUserId(int)	userID	List<Province>	
	deleteReport(int)	id		

- **UsersAccountDAOImpl**

Class	UsersAccountDAOImpl			
Description	Access the Database and implement the business logic.			
Base Class	BaseDAOImpl			
Constructor	N/A			
Prototype	N/A			
Source File	UsersAccountDAOImpl.java			
Namespace	vn.co.cex.dao.impl			
Methods	Name	Input	Output	Description
	createNewAccount(int)	userId	boolean	
	getAccountByUserId(int)	userId	UserAccount	
	checkAccount(int)	userId	float	
	plusMoneyAccount(int, float)	userId amount	boolean	
	minusMoneyAccount(int, float)	userId amount	boolean	

- **UsersDAOImpl**

Class	UsersDAOImpl			
Description	Access the Database and implement the business logic.			

Base Class	BaseDAOImpl			
Constructor	BaseBean()			
Prototype	N/A			
Source File	UsersDAOImpl.java			
Namespace	vn.co.cex.dao.impl			
Methods	Name	Input	Output	Description
	getUserById(int)	Id	Users	
	checkLogin(String, String)	Email Password	Users	
	updateUsers(Users)	Users	Boolean	
	getUserByEmail(String)	Email	Users	
	register(Users)	Users	int	
	checkEmail(String)	Email	Boolean	
	checkPhoneNumber(String)	Phone no	Boolean	
	checkIdentityCard(String)	Identity card number	Boolean	
	searchUser(String, String, String, Integer, int, int, int)	fullName email province role status	List<Users>	
	countUsers(String, String, String, Integer, int)	fullName email province role status	Int	
	activateUser(int)	Id		
	deactivateUser(int)	Id		

2.2 Class Detail Design

2.2.1 Guest register a new account

- Class Diagram

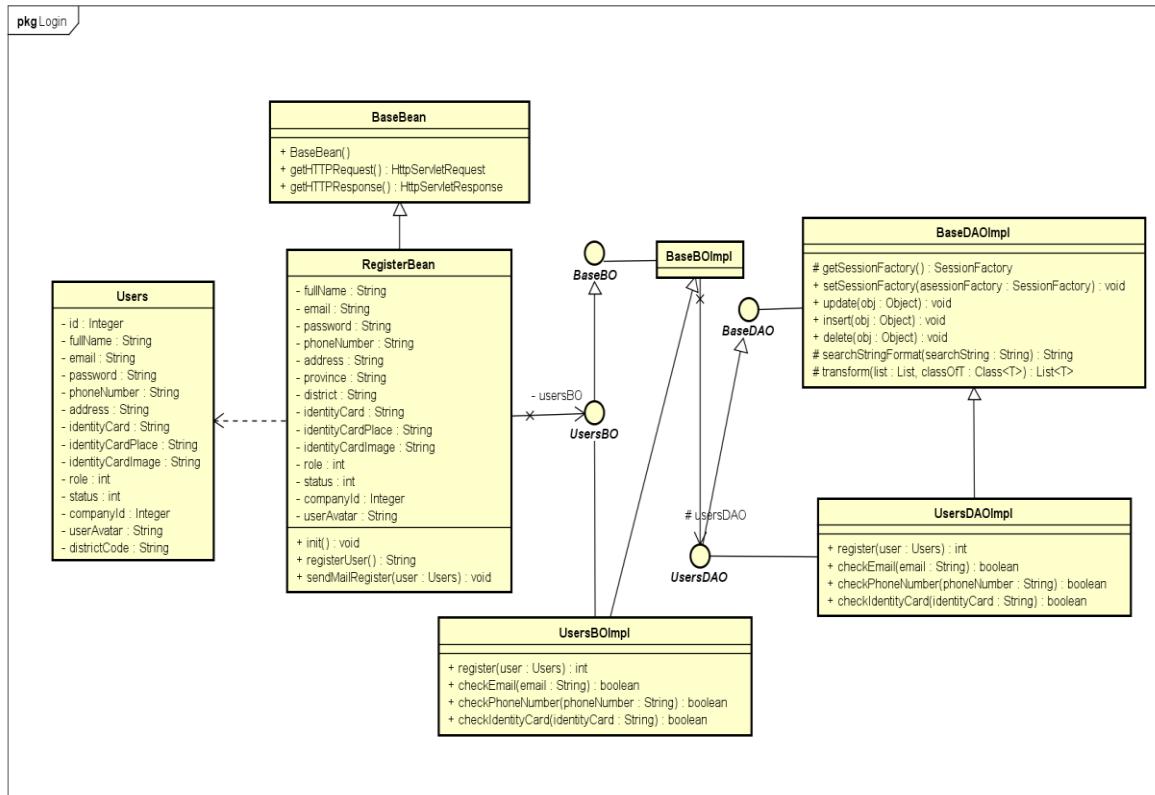


Figure 2.2-1 Register Class Diagram

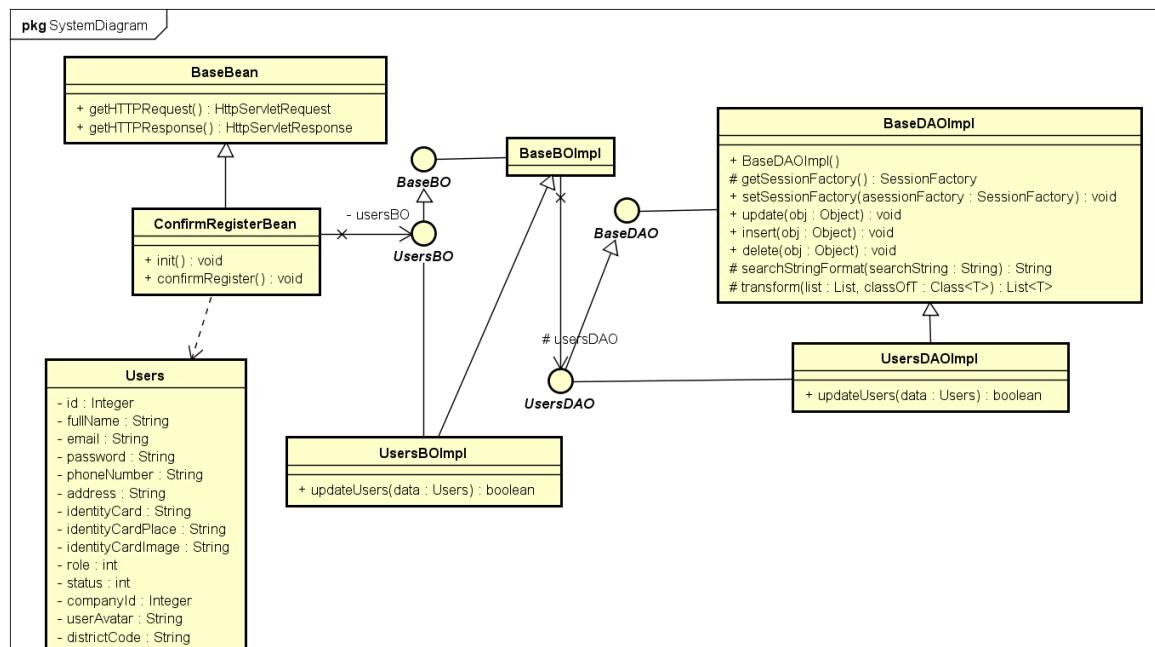


Figure 2.2-2 Mail Confirm Class Diagram

- Screen Design

The screenshot shows a registration form titled 'Đăng Ký' (Register). The form fields are as follows:

- Tên đầy đủ: * Họ và tên (Full Name)
- Địa chỉ Email: * Email
- Số điện thoại: * Số điện thoại (Phone Number)
- Địa chỉ: * Địa chỉ (Address)
- Tỉnh/Thành phố: --Chọn-- (Province/District)
- Quận/Huyện: * --Chọn-- (District)
- Chứng minh thư: * Số chứng minh thư (ID Card Number)
- Nơi cấp: * Nơi cấp (Place of Issuance)
- Ngày cấp: * Ngày cấp (Date of Issuance)
- Ảnh chứng minh thư: + Chọn ảnh (Upload ID Card Image)
- Mật khẩu: * Mật khẩu (Password)
- Mật khẩu phải có từ 6 đến 20 ký tự, có ít nhất 1 chữ số, 1 chữ cái viết hoa và một trong các ký tự (?, !, #, @, *, %).
- Xác nhận mật khẩu: * Xác nhận mật khẩu (Confirm Password)
- Loại người dùng: Chủ hàng Chủ xe (User Type: Merchant or Driver)

At the bottom, there is a note: 'Bằng việc lựa chọn 'Đăng Ký', bạn đồng ý với chúng tôi về Điều Khoản Sử Dụng và Bảo Mật' (By selecting 'Register', you agree to the Terms of Use and Privacy Policy).

Figure 2.2-3 Register

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Tên đầy đủ	fullName	inputText	Yes	50	
2	Địa chỉ Email	email	inputText	Yes	50	
3	Số điện thoại	phoneNmber	inputText	Yes	20	
4	Địa chỉ	Address	inputText	Yes	100	
5	Tỉnh/Thành phố	province	selectOneMenu	Yes	50	
6	Quận/Huyện	district	selectOneMenu	Yes	50	
7	Chứng minh thư	identityCard	inputText	Yes	20	
8	Nơi cấp	identityCardPlace	inputText	Yes	100	
9	Ngày cấp	identityCardDate	calendar	Yes		
10	Ảnh chứng minh thư	identityCardImage	fileUpload	Yes		
11	Mật khẩu	password	password	Yes	50	
12	Xác nhận mật khẩu	reEnterPassword	password	Yes	50	

13	Loại người dùng	role	selectOneRadio	Yes		
14	Đăng ký	register	commandButton			

- Sequence Diagram

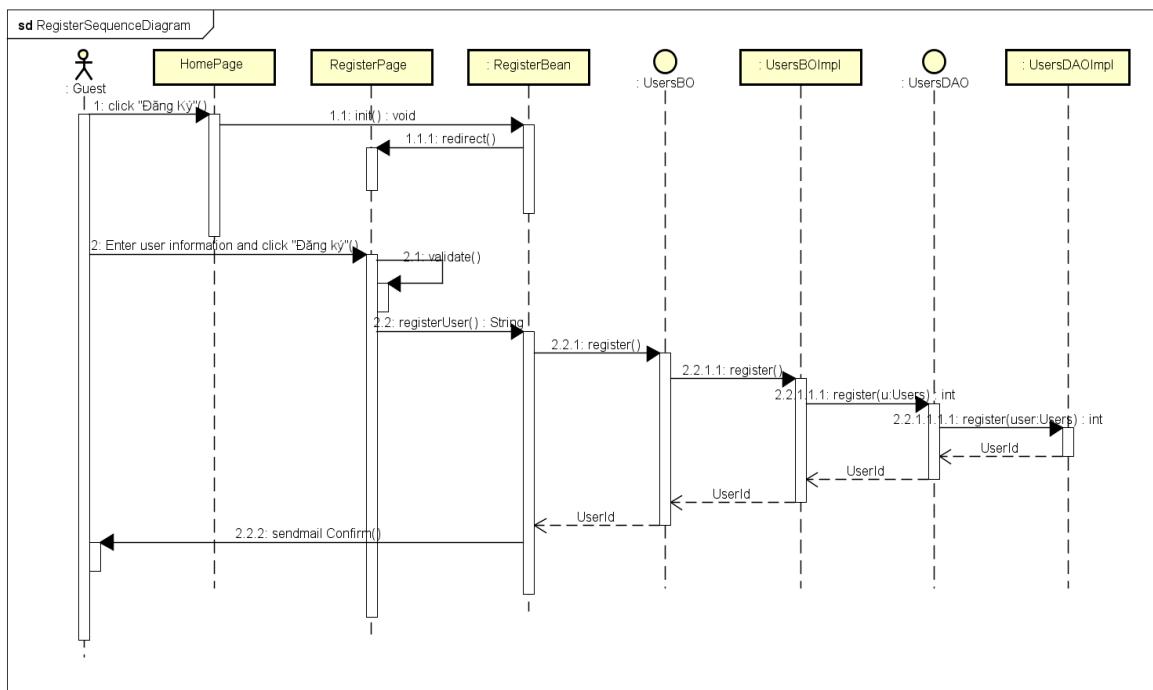


Figure 2.2-4 Register Sequence Diagram

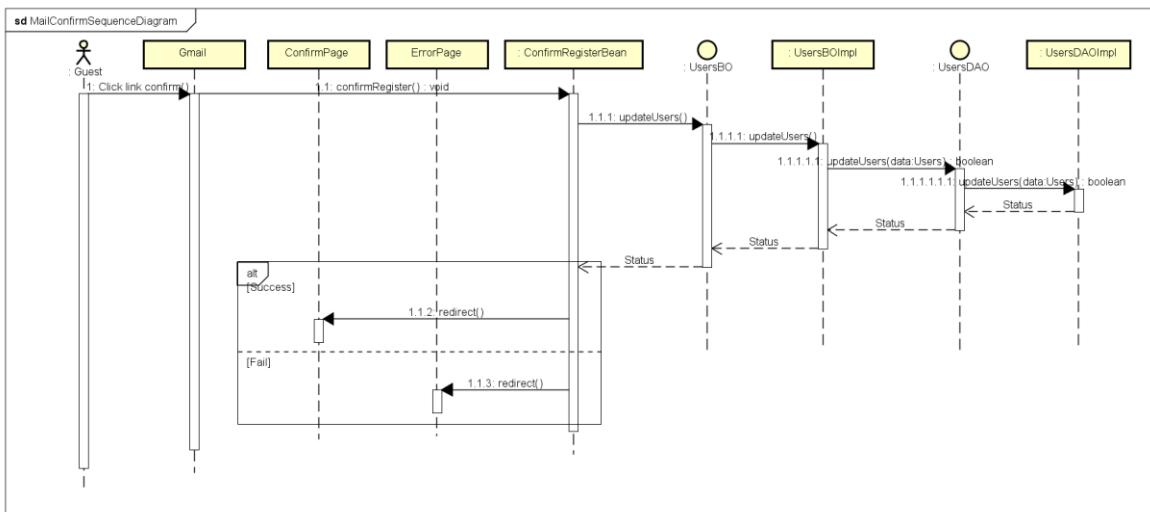


Figure 2.2-5 Mail Confirm sequence Diagram

2.2.2 Guest reference price

- Class Diagram

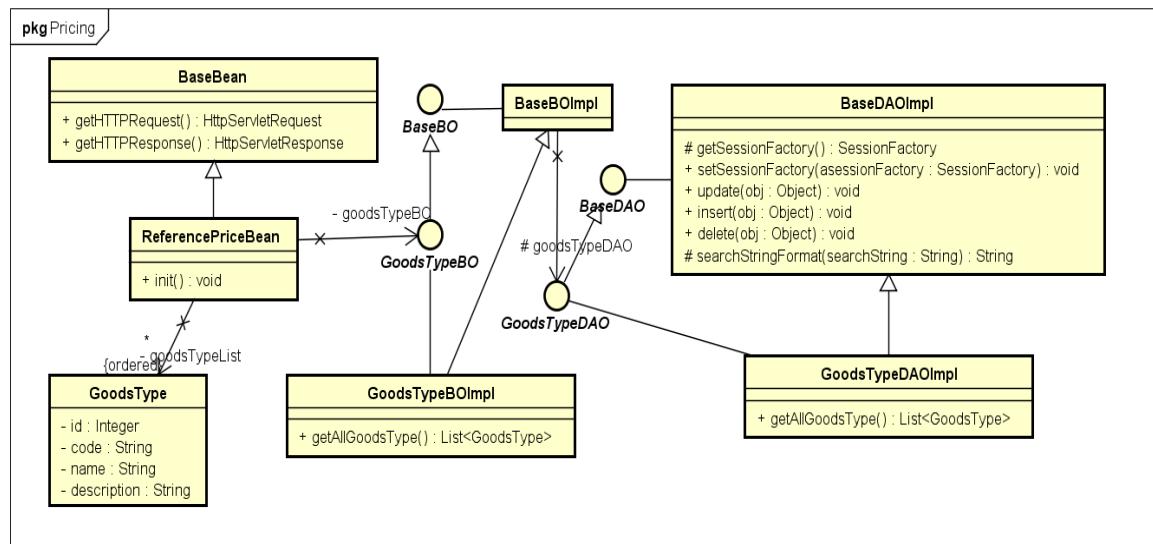


Figure 2.2-6 View Reference Price Class Diagram

- Screen Design

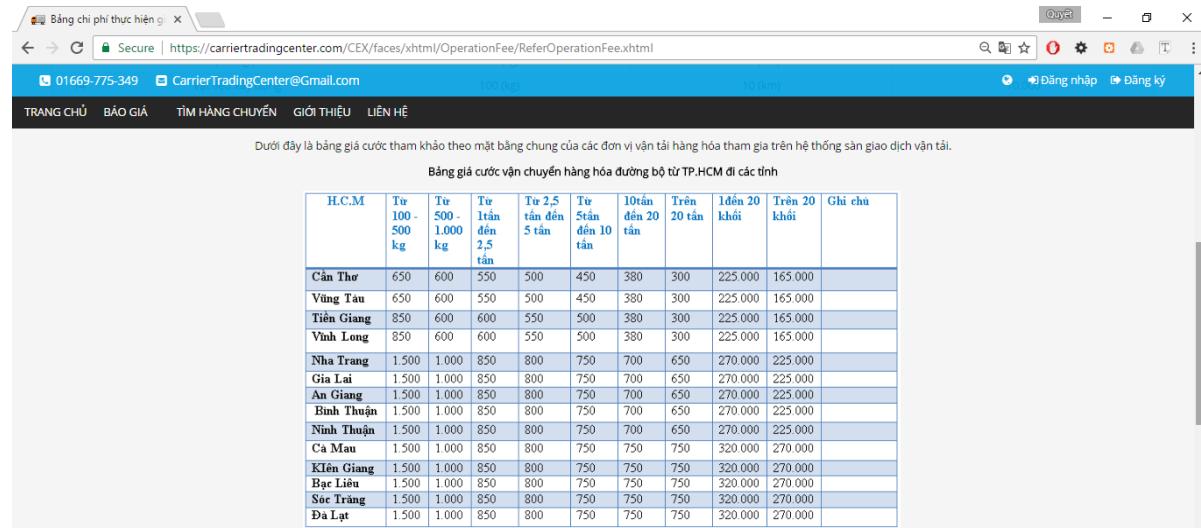
The screenshot shows the 'Reference Price' screen of the Carrier Trading Center. The header features the text 'SÀN GIAO DỊCH VẬN TẢI VIỆT NAM' (Vietnam Freight Exchange) and navigation links for 'TRANG CHỦ', 'BẢO GIÁ', 'TÌM HÀNG CHUYỂN', 'GIỚI THIỆU', and 'LIÊN HỆ'.

The main content area displays a table titled 'BẢNG GIÁ THAM CHIẾU CHI PHÍ VẬN CHUYỂN' (Reference Price Table). The table has columns for 'STT' (Index), 'Loại hàng' (Type of goods), 'Khối lượng' (Weight), 'Quảng đường' (Distance), and 'Giá tham chiếu (VND)' (Reference Price (VND)). The data is as follows:

STT	Loại hàng	Khối lượng	Quảng đường	Giá tham chiếu (VND)
1	Bàn-ghế-giường-tủ	100 (kg)	10 (km)	11,000
2	Đồ uống	100 (kg)	10 (km)	10,000
3	Động vật	100 (kg)	10 (km)	10,000
4	Hàng điện tử	100 (kg)	10 (km)	10,000
5	Hóa chất	100 (kg)	10 (km)	10,000
6	Hoa quả	100 (kg)	10 (km)	10,000
7	Kim loại - nguyên liệu	100 (kg)	10 (km)	10,000
8	Máy móc - cơ khí	100 (kg)	10 (km)	10,000
9	Sức khỏe - làm đẹp	100 (kg)	10 (km)	10,000
10	Thể thao	100 (kg)	10 (km)	10,000
11	Thực phẩm khô	100 (kg)	10 (km)	10,000
12	Thực phẩm tươi	100 (kg)	10 (km)	10,000
13	Văn phòng phẩm	100 (kg)	10 (km)	10,000
14	Vật liệu xây dựng	100 (kg)	10 (km)	10,000

Below the table, a note states: 'Dưới đây là bảng giá cước tham khảo theo mã bảng chung của các đơn vị vận tải hàng hóa tham gia trên hệ thống sàn giao dịch vận tải.'

Figure 2.2-7 Reference Price (part 1)



Dưới đây là bảng giá cước tham khảo theo mặt bằng chung của các đơn vị vận tải hàng hóa tham gia trên hệ thống sàn giao dịch vận tải.

Bảng giá cước vận chuyển hàng hóa đường bộ từ TP.HCM đi các tỉnh

H.C.M	Từ 100 - 500 kg	Từ 500 - 1.000 kg	Từ 1 tấn đến 2,5 tấn	Từ 2,5 tấn đến 5 tấn	Từ 5 tấn đến 10 tấn	10tấn đến 20 tấn	Trên 20 tấn	1đến 20 khối	Trên 20 khối	Ghi chú
Cần Thơ	650	600	550	500	450	380	300	225.000	165.000	
Vũng Tàu	650	600	550	500	450	380	300	225.000	165.000	
Tiền Giang	850	600	600	550	500	380	300	225.000	165.000	
Vĩnh Long	850	600	600	550	500	380	300	225.000	165.000	
Nha Trang	1.500	1.000	850	800	750	700	650	270.000	225.000	
Gia Lai	1.500	1.000	850	800	750	700	650	270.000	225.000	
An Giang	1.500	1.000	850	800	750	700	650	270.000	225.000	
Bình Thuận	1.500	1.000	850	800	750	700	650	270.000	225.000	
Ninh Thuận	1.500	1.000	850	800	750	700	650	270.000	225.000	
Cà Mau	1.500	1.000	850	800	750	750	750	320.000	270.000	
Kiên Giang	1.500	1.000	850	800	750	750	750	320.000	270.000	
Bạc Liêu	1.500	1.000	850	800	750	750	750	320.000	270.000	
Sóc Trăng	1.500	1.000	850	800	750	750	750	320.000	270.000	
Đà Lạt	1.500	1.000	850	800	750	750	750	320.000	270.000	

Bảng giá cước vận chuyển hàng hóa đường bộ từ TP.HCM đi các tỉnh

HÀ NỘI	500 – 1.000 (Kg)	1.000 – 2.500 (Kg)	2.500 trở lên (Kg)	5.000 – 10.000 (Kg)	10.000 (Kg) trở lên
Hải Phòng	1100	800	600	500	350

Bảng giá cước vận chuyển hàng hóa đường bộ từ Hà Nội đi các tỉnh

HÀ NỘI	500 – 1.000 (Kg)	1.000 – 2.500 (Kg)	2.500 trở lên (Kg)	5.000 – 10.000 (Kg)	10.000 (Kg) trở lên
Hải Phòng	1100	800	600	500	350
Lai Châu	3300	2800	2300	2.100	1.900
Điện Biên	4.000	3.000	2.500	2.300	2.100
Sơn La	3.000	2.500	1.900	1.700	1.500
Hòa Bình	1.100	800	600	500	400
Hà Giang	2.000	1.700	1.500	1.300	1.200
Cao Bằng	2.000	1.700	1.500	1.300	1.200
Lào Cai	2.000	1.700	1.500	1.300	1.200
Yên Bái	1.600	1.200	900	800	700
Tuyên Quang	1.400	1.100	800	700	600
Bắc Kạn	1.600	1.200	900	800	700
Thái Nguyên	900	700	500	400	350
Lạng Sơn	1.600	1.200	900	800	700
Việt Trì	1.100	800	600	500	400
Bắc Giang	1.200	900	700	600	500
Hạ Long	1.600	1.200	900	800	700
Vĩnh Phúc	700	500	400	350	300

Lưu ý: Bảng giá trên mang tính chất tham khảo



LIÊN HỆ

SẢN GIAO DỊCH VẬN TẢI VIỆT NAM

THÔNG TIN

► Quy chế hoạt động

DỊCH VỤ KHÁCH HÀNG

► Mr. Lê Văn Dương

Bảng giá cước vận chuyển hàng hóa đường bộ từ TP.HCM đi các tỉnh

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Bảng giá tham chiếu chi phí vận chuyển	goodsTypeList	dataTable			
2	Bảng giá cước vận chuyển hàng hóa đường bộ từ TP.HCM đi các tỉnh		graphicImage			
3	Bảng giá cước vận chuyển hàng hóa đường bộ từ Hà Nội đi các tỉnh		graphicImage			

- Sequence Diagram

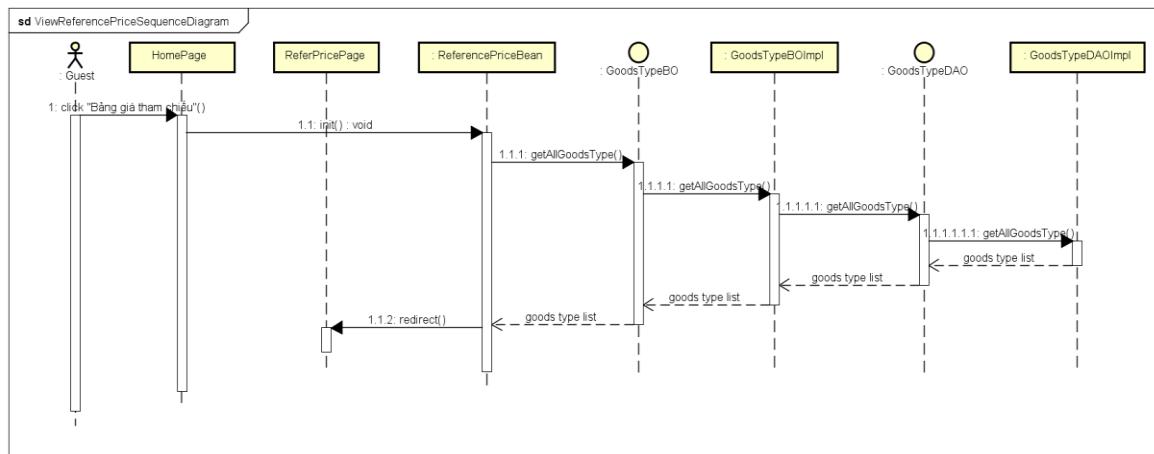


Figure 2.2-10 View Reference Price Sequence Diagram

2.2.3 Guest view price

- Class Diagram

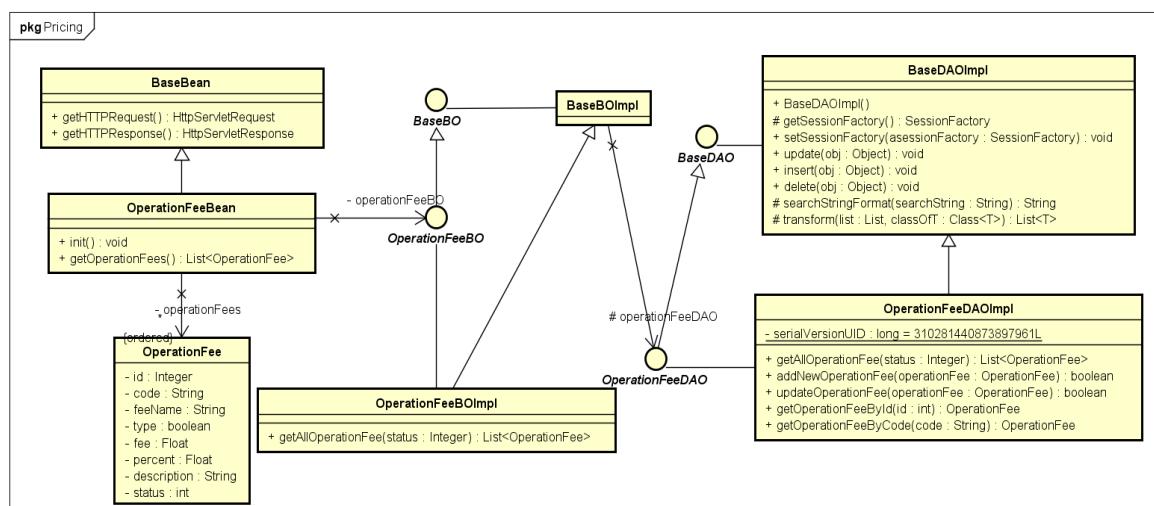


Figure 2.2-11 Operation Fee Class Diagram

- Screen Design

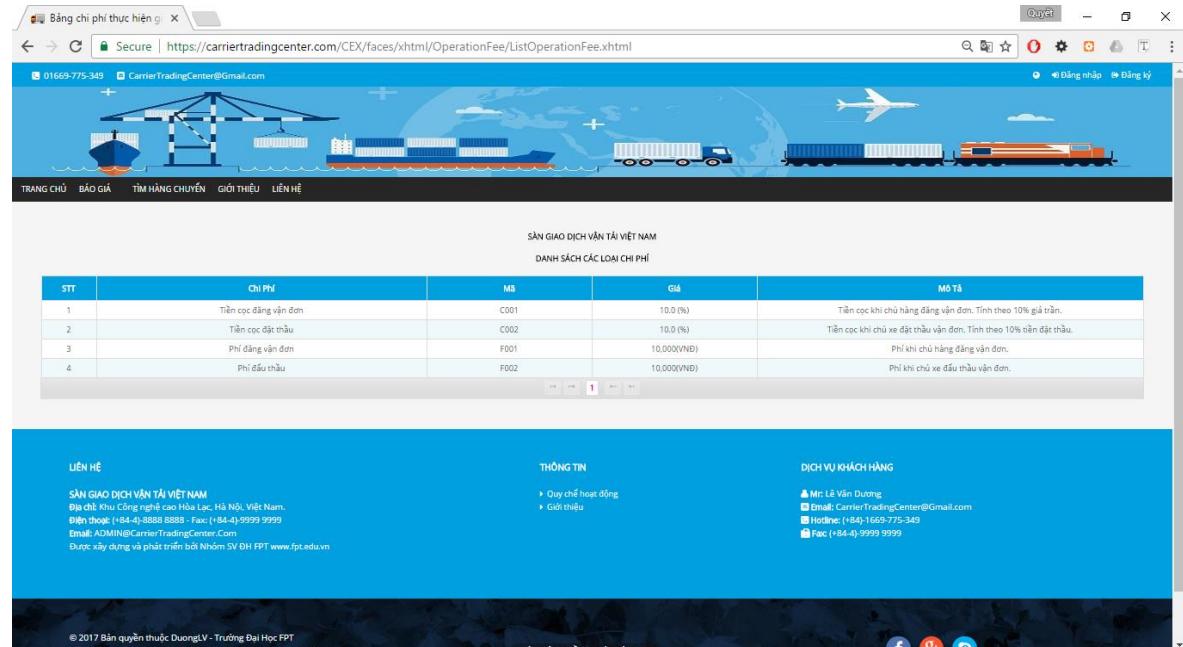


Figure 2.2-12 View Price

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Danh sách các khoản phí	feeDataTable	dataTable			

- Sequence Diagram

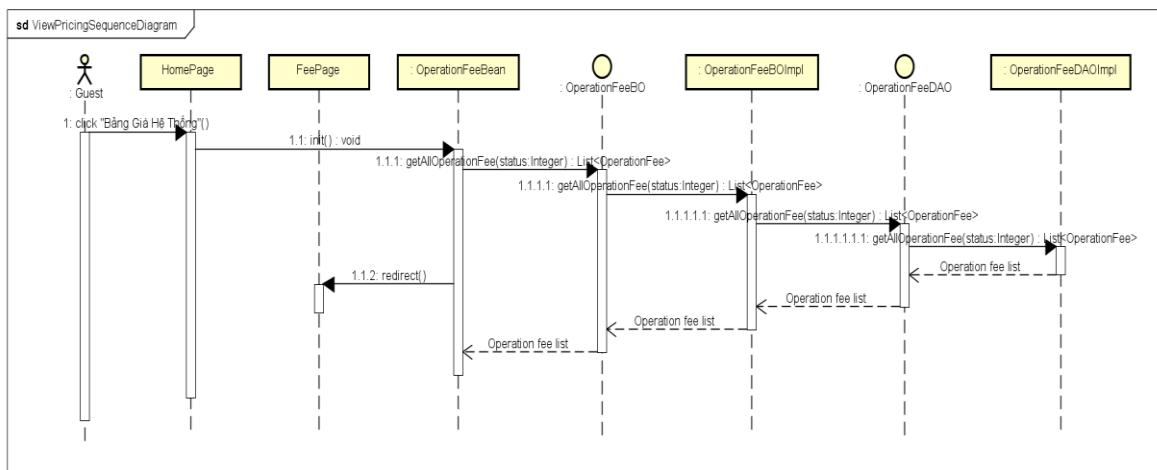


Figure 2.2-13 Operation Fee Sequence Diagram

2.2.4 Guest search bill of lading

- Class Diagram

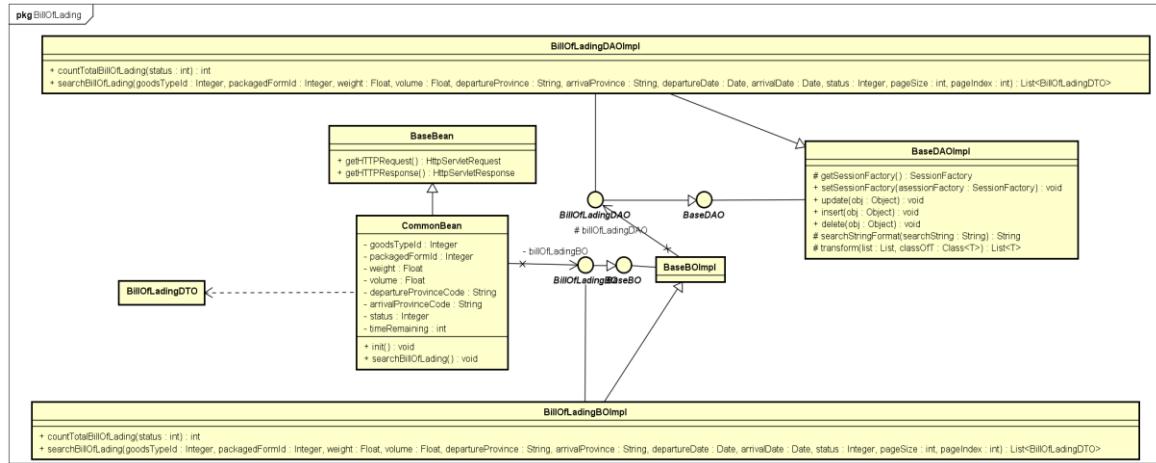


Figure 2.2-14 Search Bills of Lading Class Diagram

- Screen Design

Figure 2.2-15 Search Bill of Lading

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Loại Hàng	goodTypeId	selectOneMenu	No		
2	Hình thức đóng gói	packageFormId	selectOneMenu	No		
3	Khối lượng	weight	inputText	No		
4	Thể tích	volume	inputText	No		

5	Địa điểm đi	slbDepartureProvinceID	selectOneMenu	No		
6	Địa điểm đến	slbArrivalProvinceID	selectOneMenu	No		
7	Thời gian đi	departureDate	calendar	No		
8	Thời gian đến	arrivalDate	calendar	No		
9	Tìm kiếm	search	commandButton			
10	Danh sách đơn hàng	table_billoflading	dataTable			

- Sequence Diagram

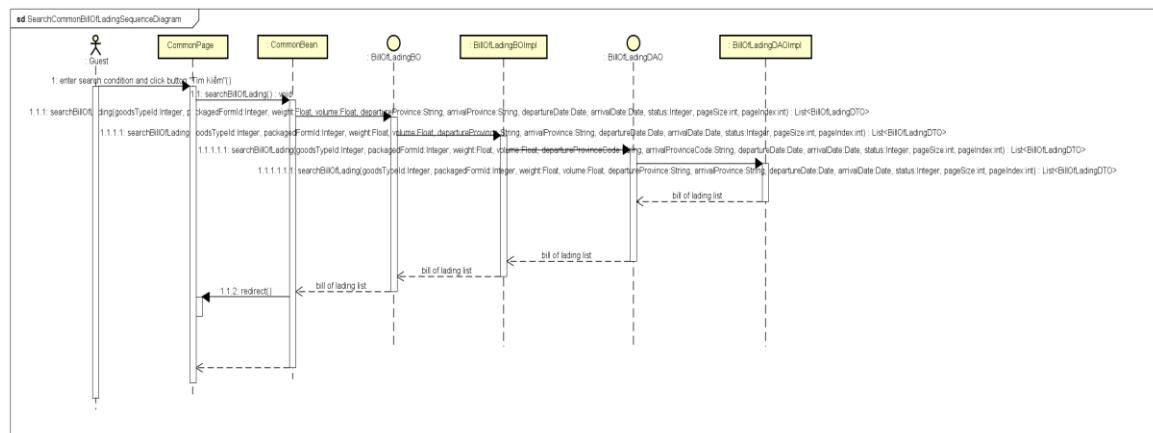


Figure 2.2-16 Search Bill of Lading Sequence Diagram

2.2.5 Guest view list bill of lading

- Class Diagram

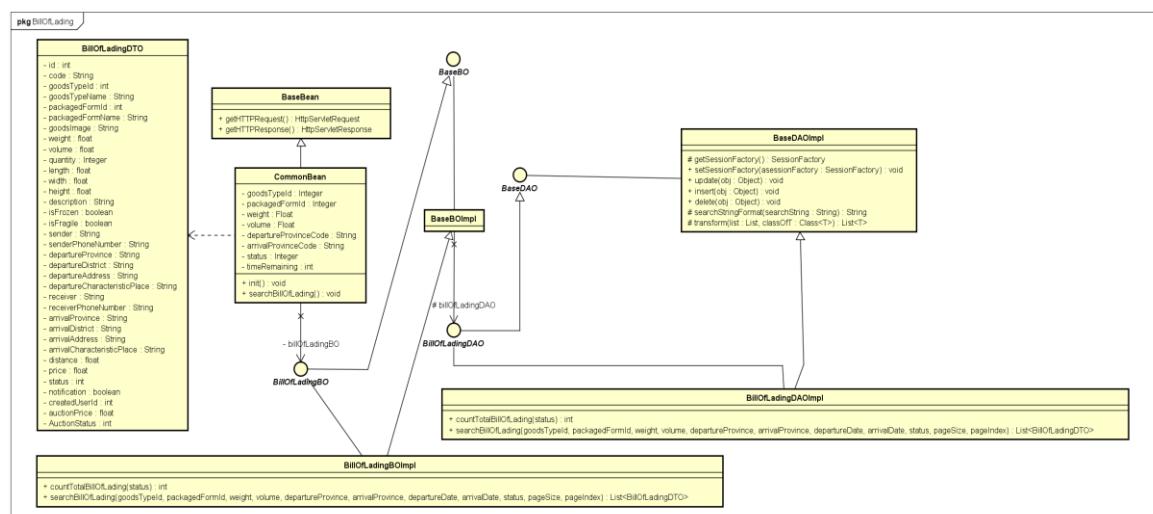


Figure 2.2-17 View List Bill of Lading

- Screen Design

STT	Hình ảnh	Loại hàng	Hình thức đóng gói	Lộ trình	Khối lượng	Thể tích	Thời gian còn lại	Giá tham chiếu	XEM
1		Đồ uống	Thùng cát tông	Sơn Đông, Bắc Giang - Tiền Hải, Thái Bình 04.05.2017 22:30:33 - 19.05.2017 22:30:33	12000.0 (kg)	100.0 (m³)	20 ngày	50.000.000 (VNĐ)	
2		Đông vật	Thùng gỗ	Kim Bảng, Hà Nam - Đăk Đoa, Gia Lai 05.05.2017 22:30:33 - 19.05.2017 22:30:33	21000.0 (kg)	200.0 (m³)	22 ngày	20.000.000 (VNĐ)	
3		Hàng điện tử	Cuộn	Kim Bảng, Hà Nam - Đăk Đoa, Hà Nội 05.05.2017 22:40:44 - 20.05.2017 22:40:44	3200.0 (kg)	100.0 (m³)	20 ngày	20.000.000 (VNĐ)	

Figure 2.2-18 Bills of Lading

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1.	Loại Hàng	goodTypeId	selectOneMenu	No		
2	Hình thức đóng gói	packageFormId	selectOneMenu	No		
3	Khối lượng	weight	inputText	No		
	Thể tích	volume	inputText	No		
	Địa điểm đi	slbDepartureProvince ID	selectOneMenu	No		
	Địa điểm đến	slbArrivalProvinceID	selectOneMenu	No		
	Thời gian đi	departureDate	calendar	No		
	Thời gian đến	arrivalDate	calendar	No		
	Tìm kiếm	search	commandButton			
	Danh sách đơn hàng	table_billoflading	dataTable			

- Sequence Diagram

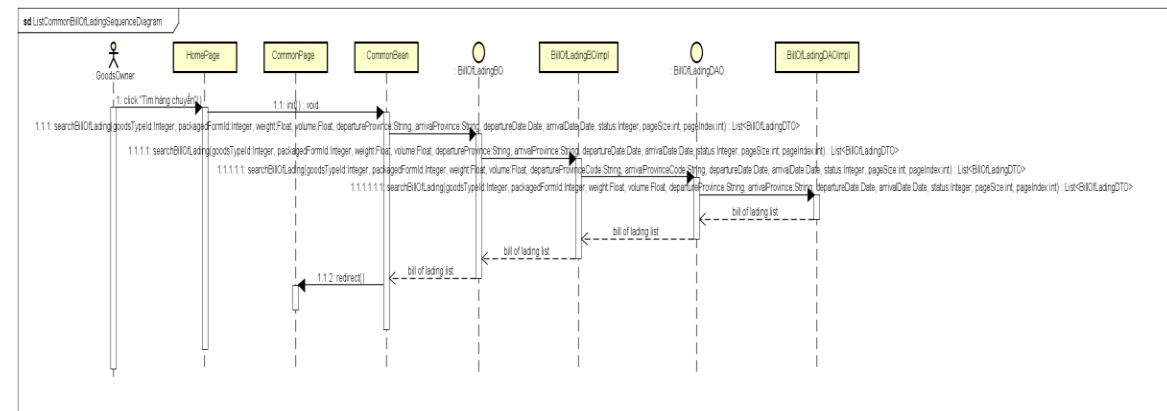


Figure 2.2-19 View Bill of Lading Sequence Diagram

2.2.6 Admin view user list

- Class Diagram

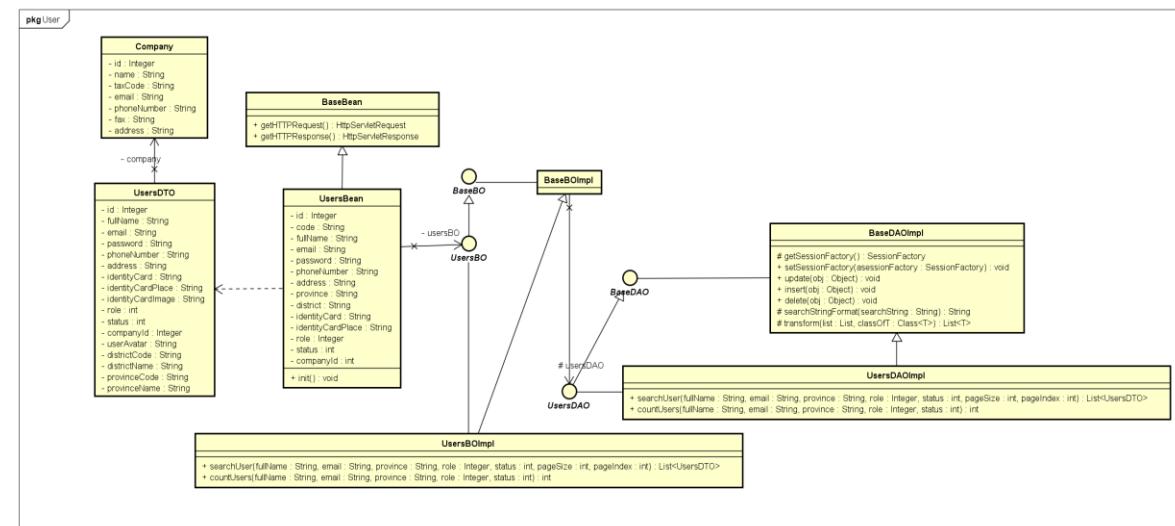


Figure 2.2-20 Users List Class Diagram

- Screen Design

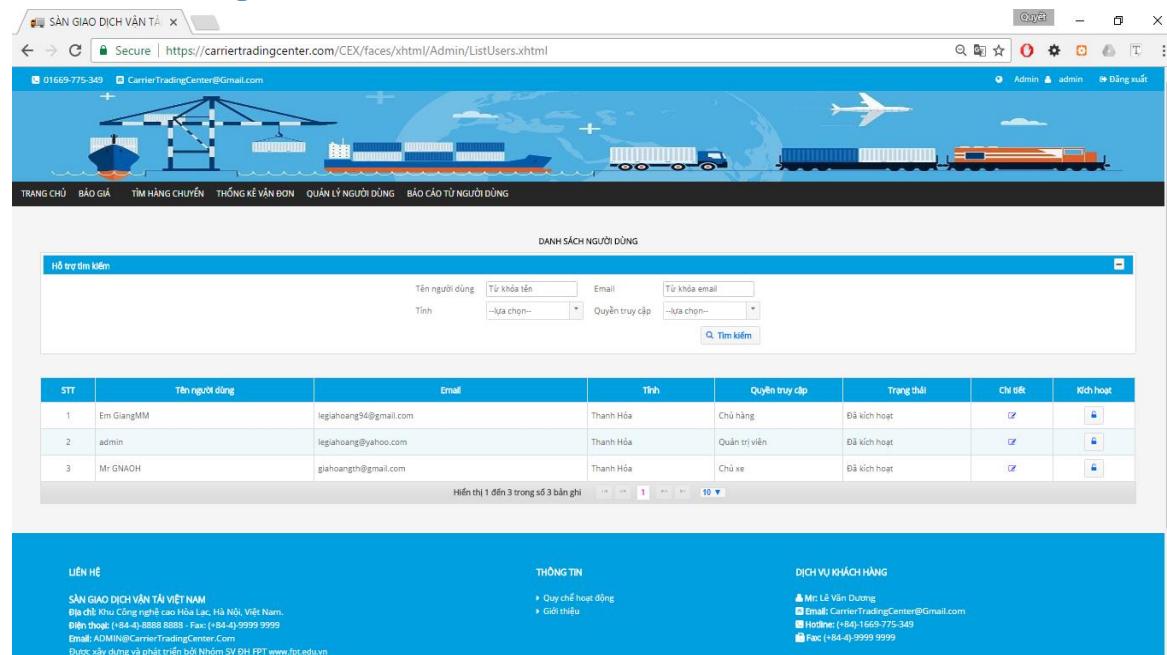


Figure 2.2-21 Admin View List User

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Tên người dùng	fullName	inputText	No		
2	Email	email	inputText	No		
3	Tỉnh	province	selectOneMenu	No		
4	Quyền truy cập	role	selectOneMenu	No		
5	Tìm kiếm	btn_search	btn_search			
6	Danh sách người dùng	table_users	table_users			

- **Sequence Diagram**

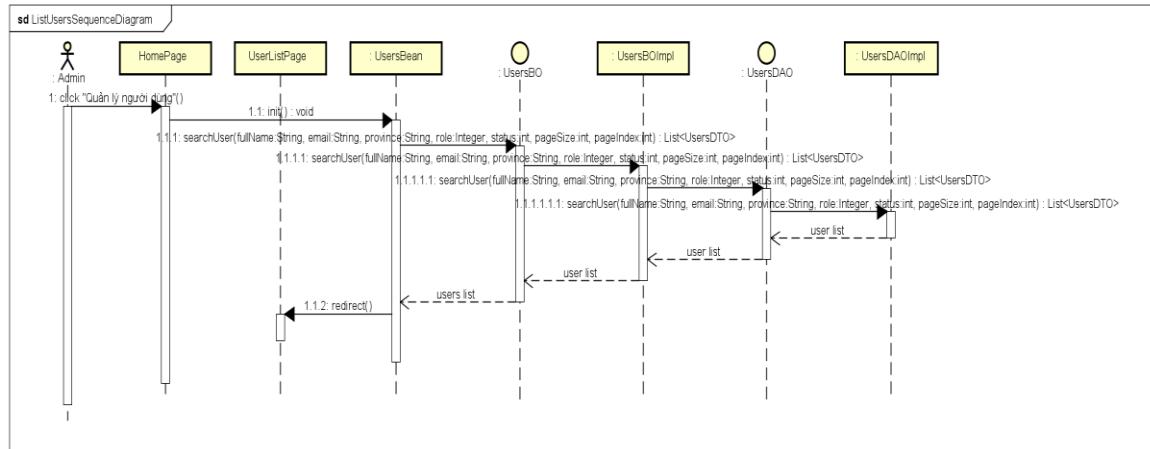


Figure 2.2-22 Users List Class Diagram

2.2.7 Admin Summary all Bill of Lading

- **Class Diagram**

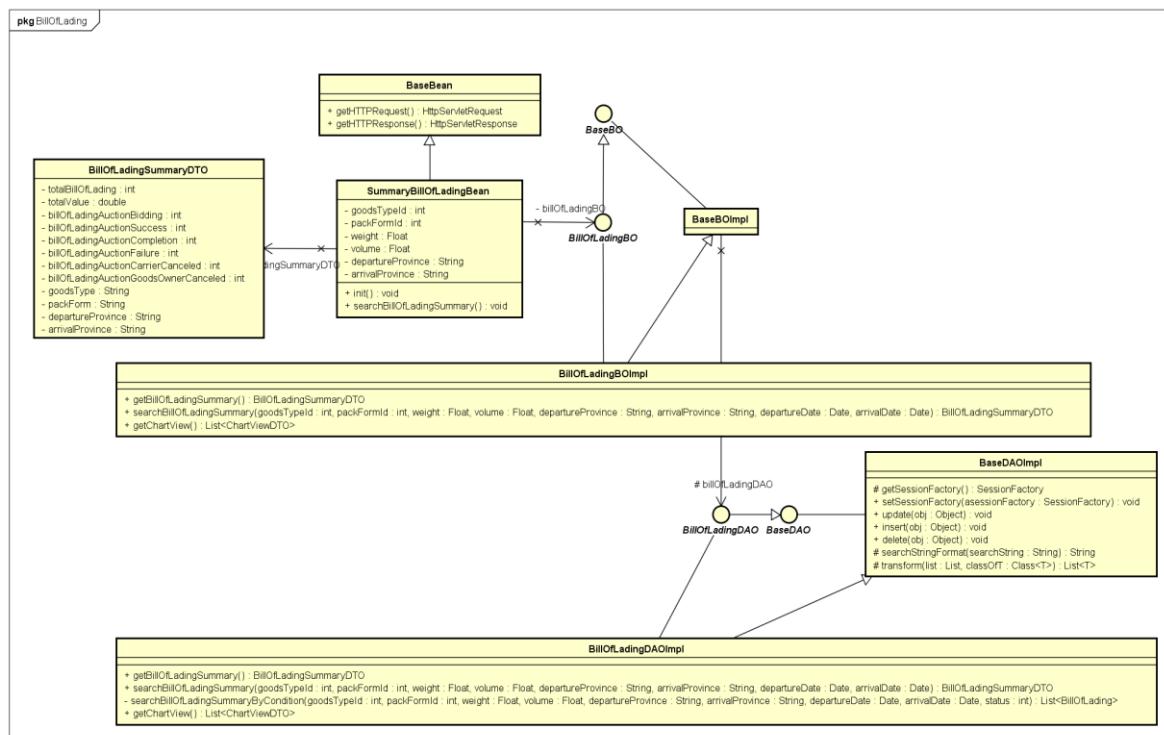


Figure 2.2-23 Summary all Bills Of Lading

- Screen Design

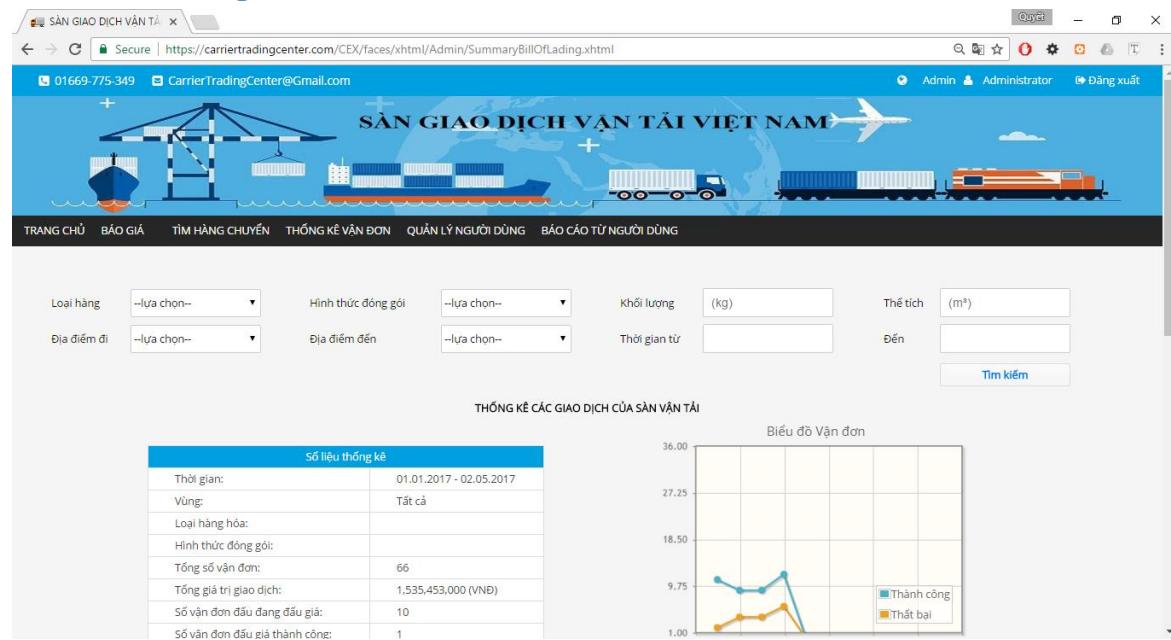


Figure 2.2-24 Summary Bills of Lading (part 1)

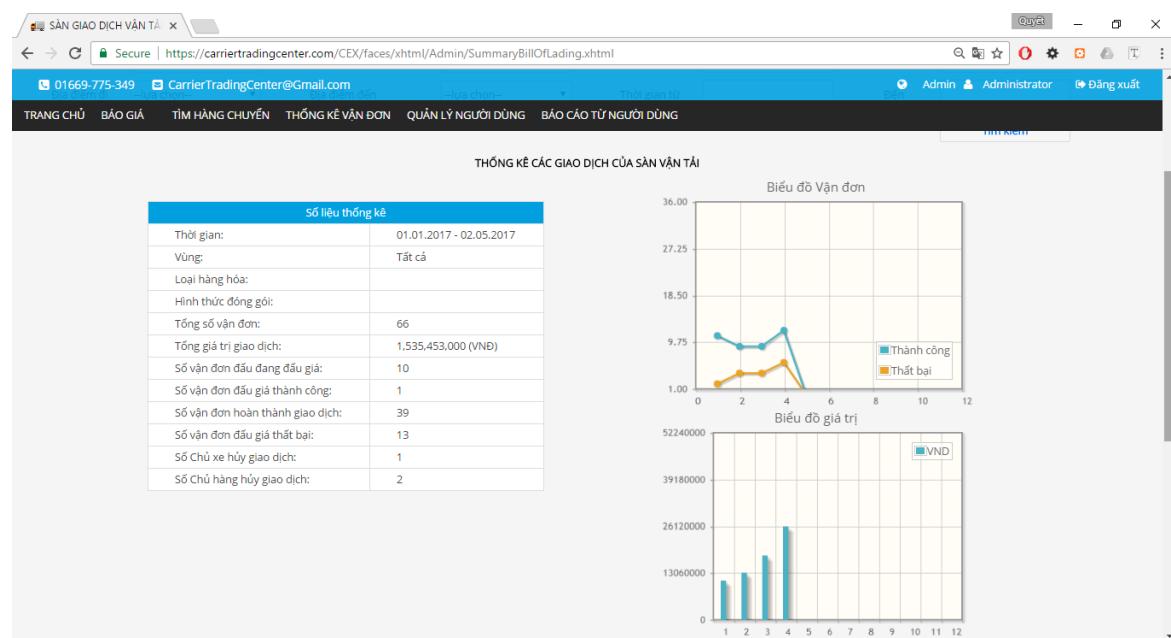


Figure 2.2-25 Summary Bills of Lading (part 1)

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Loại Hàng	goodTypeId	selectOneMenu	No		
2	Hình thức đóng gói	packageFormId	selectOneMenu	No		
3	Khối lượng	weight	inputText	No		

4	Thể tích	volume	inputText	No		
5	Địa điểm đi	slbDepartureProvinceID	selectOneMenu	No		
6	Địa điểm đến	slbArrivalProvinceID	selectOneMenu	No		
7	Thời gian từ	departureDate	calendar	No		
8	Đến	arrivalDate	calendar	No		
9	Tìm kiếm	search	commandButton			
10	Thông kê giao dịch	billOfLading_summary	dataTable			
11	Biểu đồ thông kê giao dịch	billOfLadingChart	chart			
12	Biểu đồ giá trị giao dịch	valueChart	chart			

- Sequence Diagram

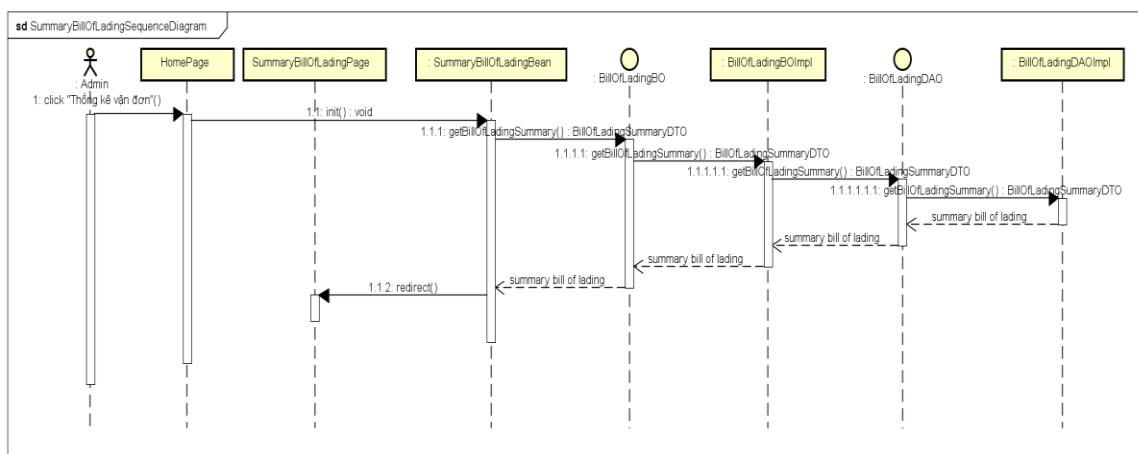


Figure 2.2-26 Summary Bills of Lading Sequence Diagram

2.2.8 Admin view list bill of lading

- **Class Diagram**

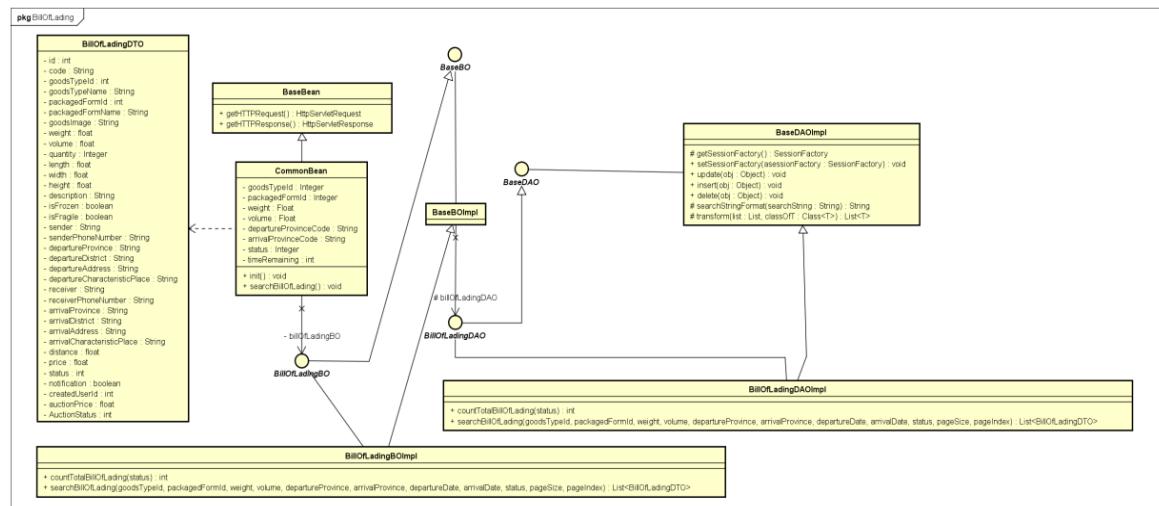


Figure 2.2-27 View List Bill of Lading Class Diagram

- **Screen Design**

SẢN GIAO DỊCH VẬN TẢI

Secure | https://carriertradingcenter.com/CEX/faces/xhtml/BillOfLading/Common.xhtml

01669-775.349 CarrierTradingCenter@Gmail.com Admin Administrator Đăng xuất

SẢN GIAO DỊCH VẬN TẢ VIỆT NAM

TRANG CHỦ BẢO GIÁ TÌM HÀNG CHUYỂN THỐNG KẾ VẬN ĐƠN QUẢN LÝ NGƯỜI DÙNG BÁO CÁO TỪ NGƯỜI DÙNG

Loại hàng: Hình thức đóng gói: Khối lượng < (kg) Thể tích < (m³)

Địa điểm đi: Địa điểm đến: Thời gian chuyển: Thời gian nhận:

DANH SÁCH BƠN HÀNG

STT	Hình ảnh	Loại hàng	Hình thức đóng gói	Lộ trình	Khối lượng	Thể tích	Thời gian còn lại	Giá tham chiếu	XEM
1		Đồ uống	Thùng cát tông	Sơn Đồng, Bắc Giang - Tiên Hải, Thái Bình 04.05.2017 22:30:33 - 19.05.2017 22:30:33	12000.0 (kg)	100.0 (m ³)	20 ngày	50,000,000 (VND)	
2		Đồng vật	Thùng gỗ	Kim Bảng, Hà Nam - Đăk Đoa, Gia Lai 05.05.2017 22:30:33 - 19.05.2017 22:30:33	21000.0 (kg)	200.0 (m ³)	22 ngày	20,000,000 (VND)	
3		Hàng điện tử	Cuộn	Kim Bảng, Hà Nam - Đăk Đoa, Hà Nội 05.05.2017 22:30:33 - 20.05.2017 22:30:33	3200.0 (kg)	100.0 (m ³)	20 ngày	20,000,000 (VND)	
4		Hóa chất	Cuộn	Sơn Đồng, Bắc Giang - Thủ Xuân, Thành Hóa 04.05.2017 10:17:10 - 19.05.2017 22:30:33	9500.0 (kg)	200.0 (m ³)	22 ngày	10,000,000 (VND)	

Figure 2.2-28 Admin View List Bills of Lading

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Loại Hàng	goodTypeId	selectOneMenu	No		
2	Hình thức đóng gói	packageFormId	selectOneMenu	No		
3	Khối lượng	weight	inputText	No		
4	Thể tích	volume	inputText	No		

5	Địa điểm đi	slbDepartureProvinceID	selectOneMenu	No		
6	Địa điểm đến	slbArrivalProvinceID	selectOneMenu	No		
7	Thời gian đi	departureDate	calendar	No		
8	Thời gian đến	arrivalDate	calendar	No		
9	Trạng thái	status	selectOneMenu	No		
10	Tìm kiếm	search	commandButton			
11	Danh sách đơn hàng	table_billoflading	dataTable			

• Sequence Diagram

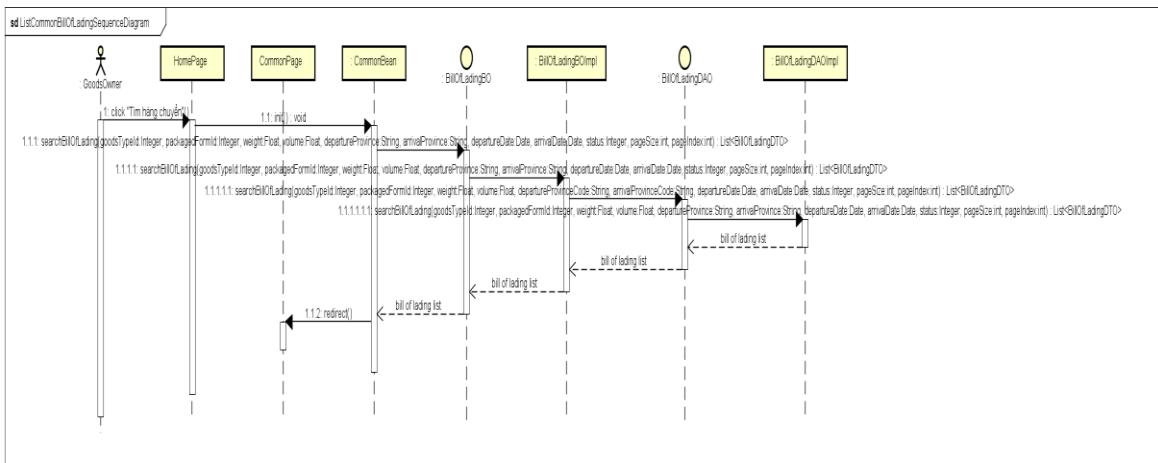


Figure 2.2-29 View List Bill of Lading Sequence Diagram

2.2.9 Admin Search Bill of Lading

• Class Diagram

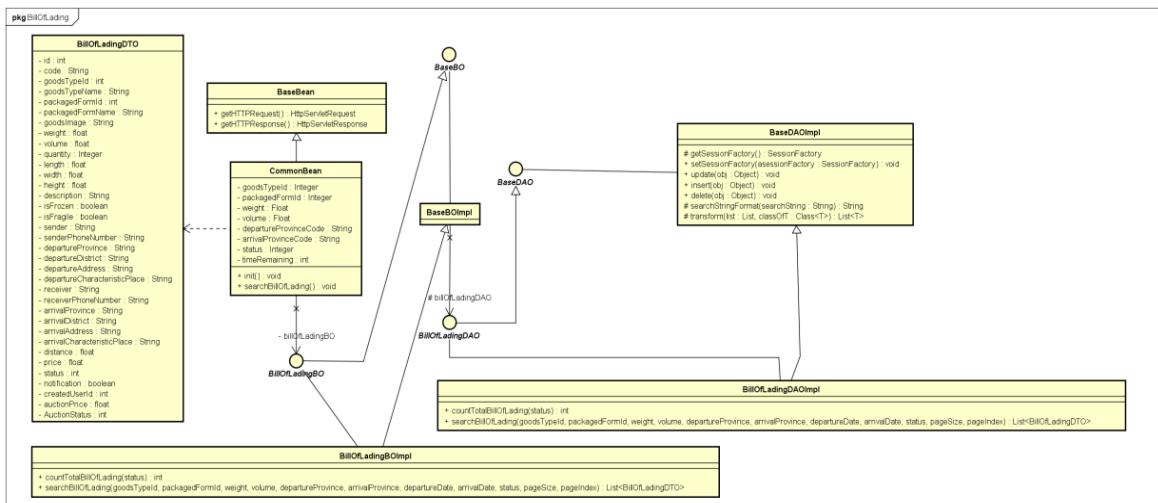


Figure 2.2-30 Search Bills of Lading Class Diagram

- Screen Design

STT	Hình ảnh	Loại hàng	Hình thức đóng gói	Lộ trình	Khối lượng	Thể tích	Thời gian còn lại	Giá tham chiếu	XEM
1		Bđt uống	Thùng cát tông	Sơn Đồng, Bắc Giang - Tiền Hải, Thái Bình 04.05.2017 22:30:33 - 19.05.2017 22:30:33	12000.0 (kg)	100.0 (m³)	20 ngày	50,000,000 (VNĐ)	
2		Động vật	Thùng gỗ	Kim Bảng, Hà Nam - Đăk Đoa, Gia Lai 05.05.2017 22:30:33 - 19.05.2017 22:30:33	21000.0 (kg)	200.0 (m³)	22 ngày	20,000,000 (VNĐ)	
3		Hàng điện tử	Cuộn	Kim Bảng, Hà Nam - Đăk Đoa, Hà Nội 05.05.2017 22:30:33 - 20.05.2017 22:30:33	3200.0 (kg)	100.0 (m³)	20 ngày	20,000,000 (VNĐ)	
4		Hóa chất	Cuộn	Sơn Đồng, Bắc Giang - Thủ Xuân, Thanh Hóa 04.05.2017 10:17:10 - 19.05.2017 22:30:33	9500.0 (kg)	200.0 (m³)	22 ngày	10,000,000 (VNĐ)	

Figure 2.2-31 Admin Search Bills of Lading

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Loại Hàng	goodTypeId	selectOneMenu	No		
2	Hình thức đóng gói	packageFormId	selectOneMenu	No		
3	Khối lượng	weight	inputText	No		
4	Thể tích	volume	inputText	No		
5	Địa điểm đi	slbDepartureProvinceID	selectOneMenu	No		
6	Địa điểm đến	slbArrivalProvinceID	selectOneMenu	No		
7	Thời gian đi	departureDate	calendar	No		
8	Thời gian đến	arrivalDate	calendar	No		
9	Trạng thái	status	selectOneMenu	No		
10	Tìm kiếm	search	commandButton			
11	Danh sách đơn hàng	table_billoflading	dataTable			

- **Sequence Diagram**

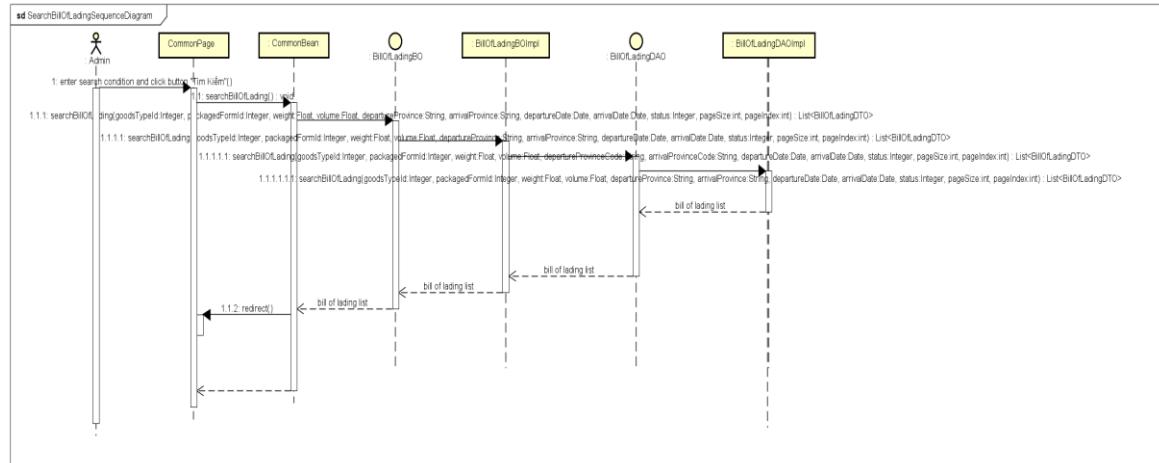


Figure 2.2-32 Search Bills of Lading Sequence Diagram

2.2.10 Admin View Bill of Lading Detail

- **Class Diagram**

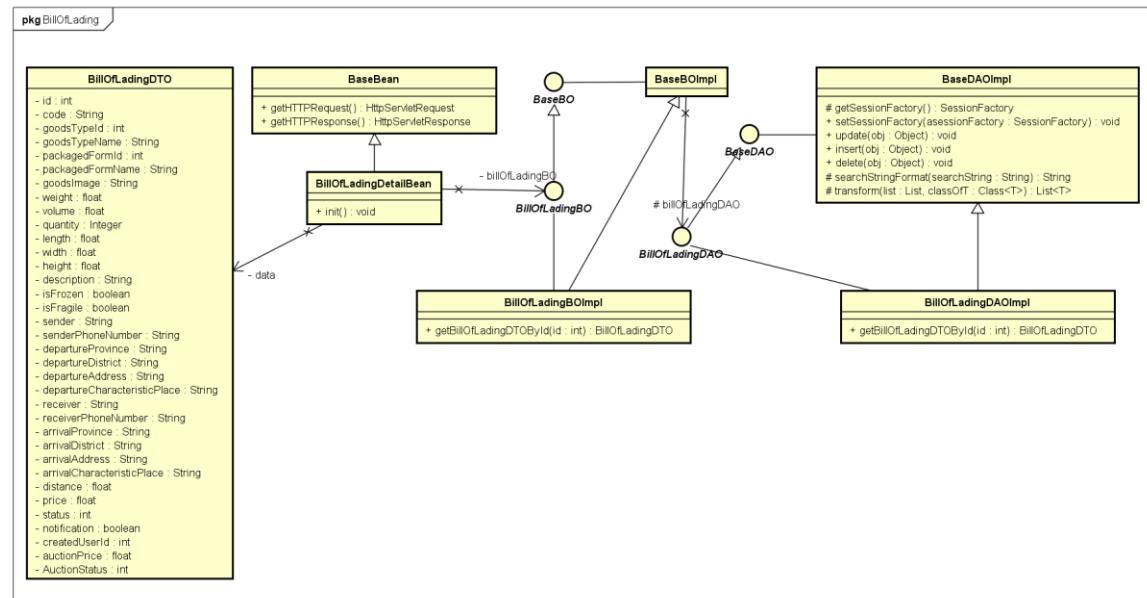


Figure 2.2-33 View Detail Bill of Lading Class Diagram

- Screen Design

Figure 2.2-34 Detail Bill of Lading (part 1)

Figure 2.2-35 Detail Bill of Lading (part 2)

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin hàng hóa cần vận chuyển	good_information	panelGrid			
2	Gmap	gmap	Java script			
3	Danh sách chủ xe đầu thầu	tableCarrierAuctionList	dataTable			
4	Hỏi đáp	question_answer	PanelGroup	No		

- Sequence Diagram

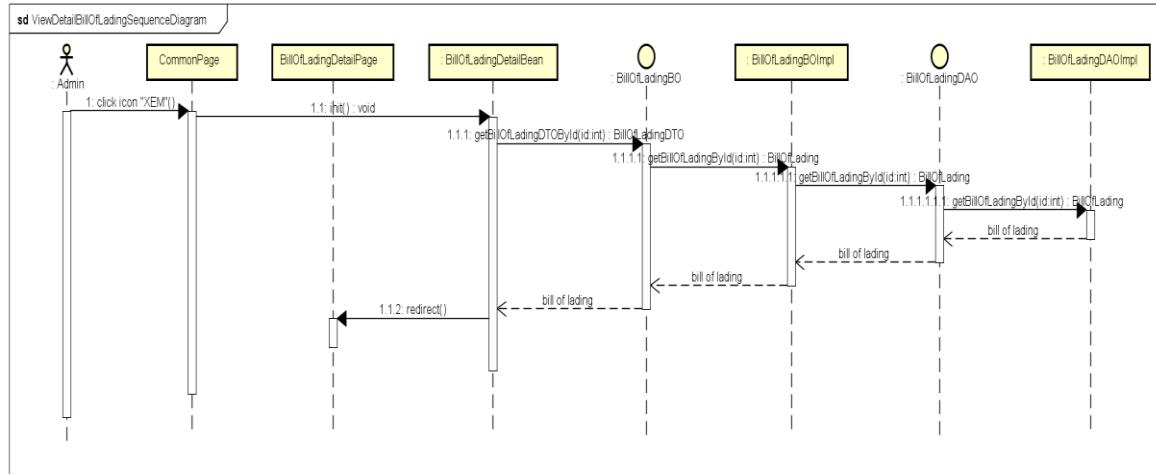


Figure 2.2-36 Bill of Lading Detail Sequence Diagram

2.2.11 Admin view list of carrier who are auctioning

- Class Diagram

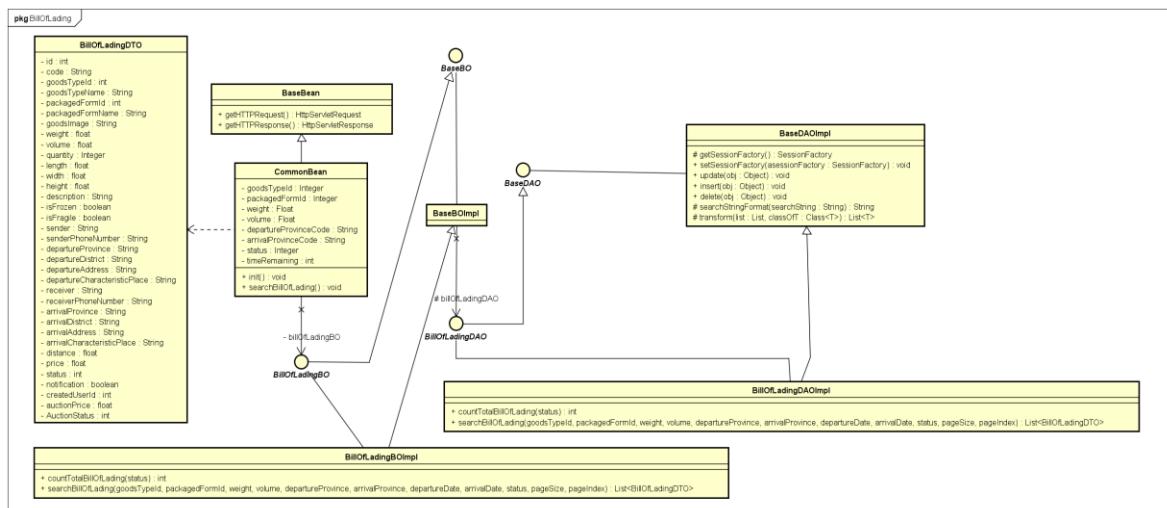


Figure 2.2-37 List Bill of Lading Auctioning Class Diagram

• Screen Design

Figure 2.2-38 List Bill of Lading Auctioning

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Loại Hàng	goodTypeId	selectOneMenu	No		
2	Hình thức đóng gói	packageFormId	selectOneMenu	No		
3	Khối lượng	weight	inputText	No		
4	Thể tích	volume	inputText	No		
5	Địa điểm đi	slbDepartureProvinceID	selectOneMenu	No		
6	Địa điểm đến	slbArrivalProvinceID	selectOneMenu	No		
7	Thời gian đi	departureDate	calendar	No		
8	Thời gian đến	arrivalDate	calendar	No		
9	Trạng thái	status	selectOneMenu	No		
10	Tìm kiếm	search	commandButton			
11	Danh sách đơn hàng	table_billoflading	dataTable			

- Sequence Diagram

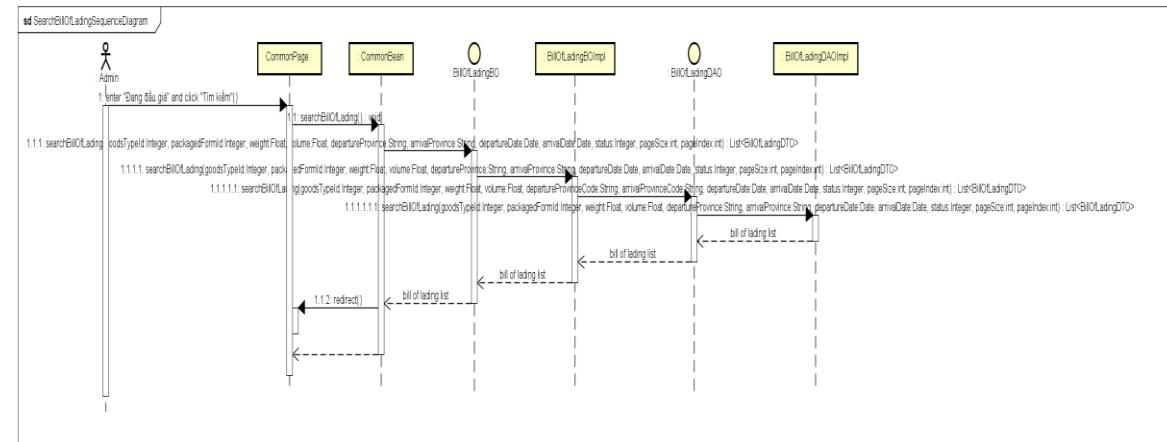


Figure 2.2-39 List Bill of Lading Auctioning Sequence Diagram

2.2.12 Admin view carrier auction success

- Class Diagram

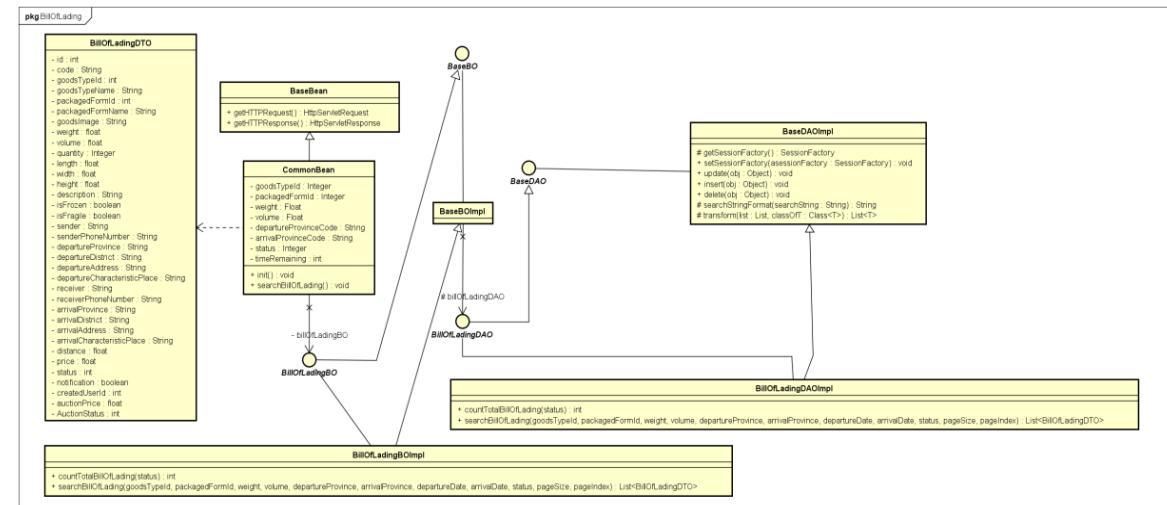


Figure 2.2-40 List Bills of Lading Auction Success Class Diagram

• Screen Design

Figure 2.2-41 Admin View Bills of Lading List Auction Success

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Loại Hàng	goodTypeId	selectOneMenu	No		
2	Hình thức đóng gói	packageFormId	selectOneMenu	No		
3	Khối lượng	weight	inputText	No		
4	Thể tích	volume	inputText	No		
5	Địa điểm đi	slbDepartureProvinceID	selectOneMenu	No		
6	Địa điểm đến	slbArrivalProvinceID	selectOneMenu	No		
7	Thời gian đi	departureDate	calendar	No		
8	Thời gian đến	arrivalDate	calendar	No		
9	Trạng thái	status	selectOneMenu	No		
10	Tìm kiếm	search	commandButton			
11	Danh sách đơn hàng	table_billoflading	dataTable			

- Sequence Diagram

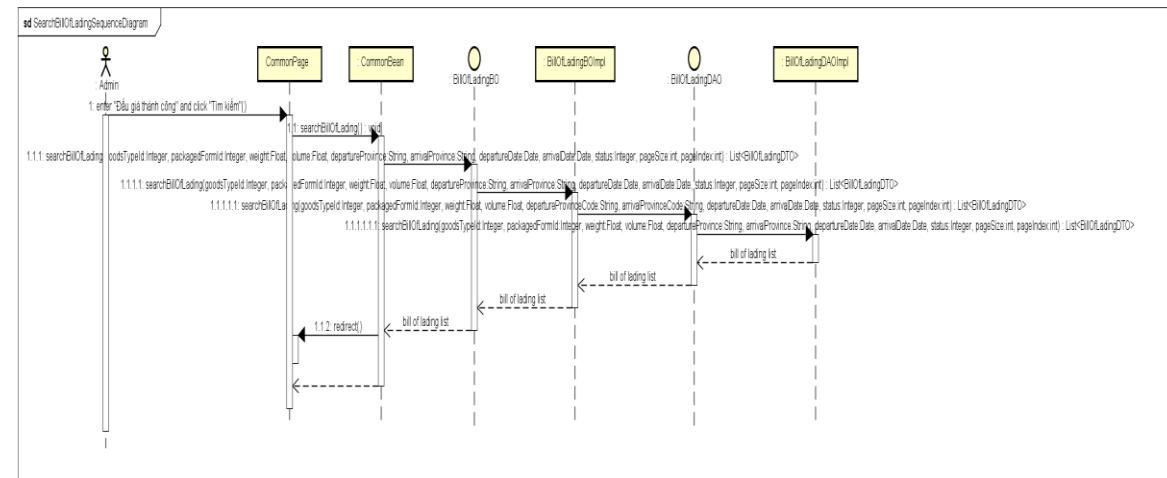


Figure 2.2-42 List Bills of Lading Auction Success Sequence Diagram

2.2.13 Admin search user

- Class Diagram

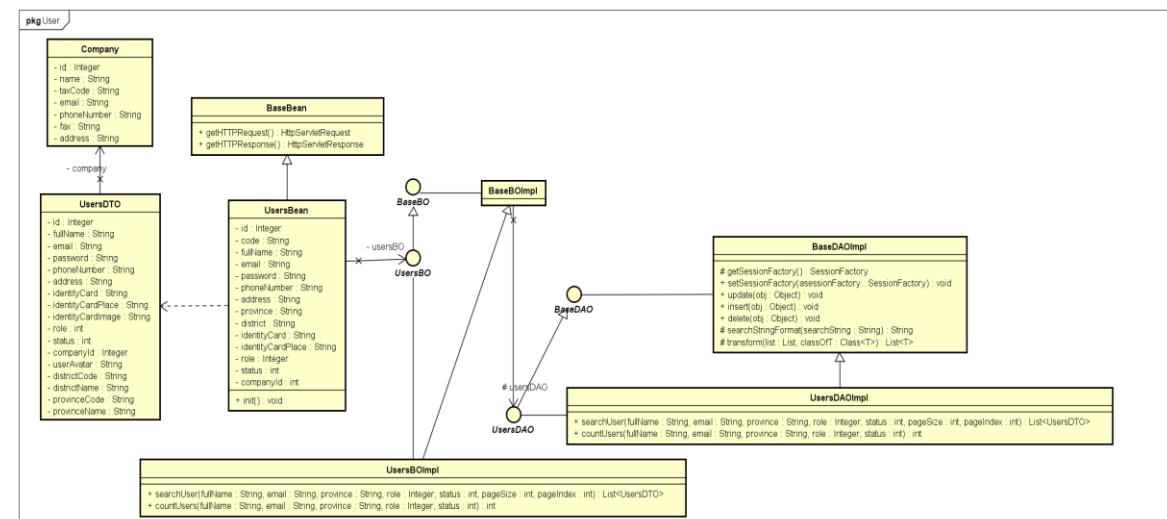


Figure 2.2-43 Search User Class Diagram

- Screen Design

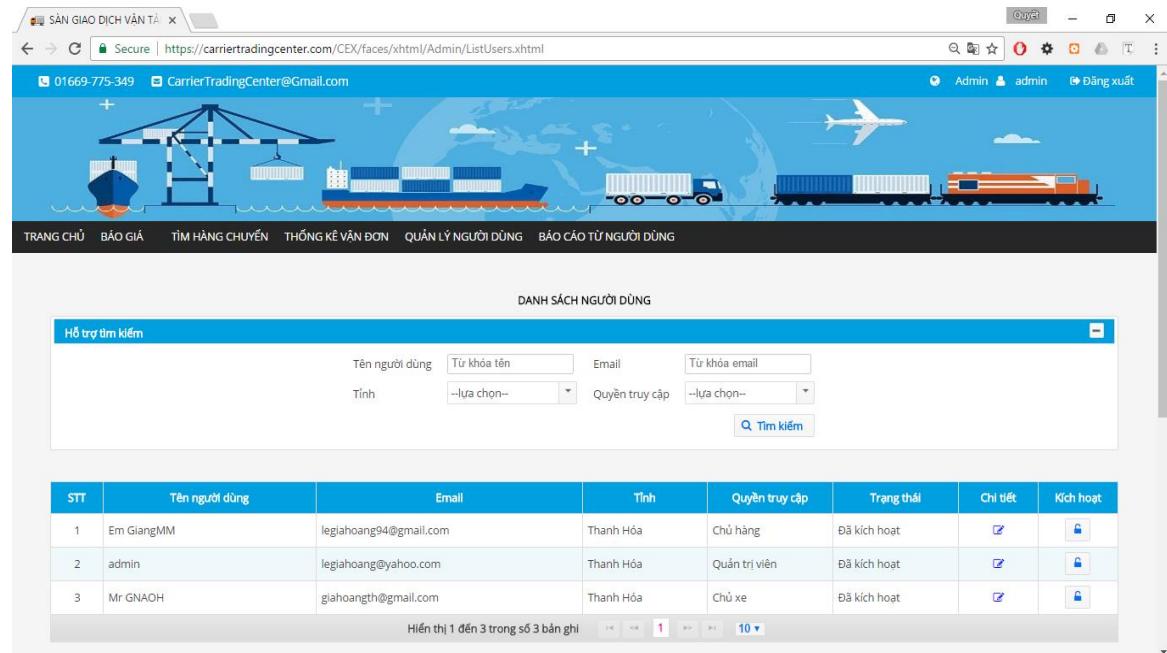


Figure 2.2-44 Search User

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Tên người dùng	fullName	inputText	No		
2	Email	email	inputText	No		
3	Tỉnh	province	selectOneMenu	No		
4	Quyền truy cập	role	selectOneMenu	No		
5	Tìm kiếm	btn_search	btn_search			
6	Danh sách người dùng	table_users	table_users			

- Sequence Diagram

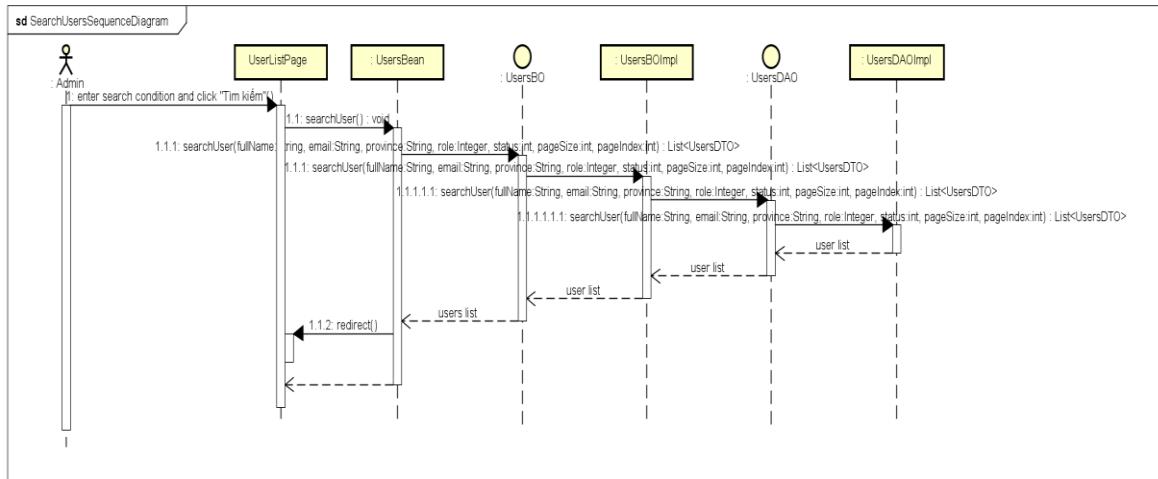


Figure 2.2-45 Search User Sequence Diagram

2.2.14 Admin view user profile

- Class Diagram

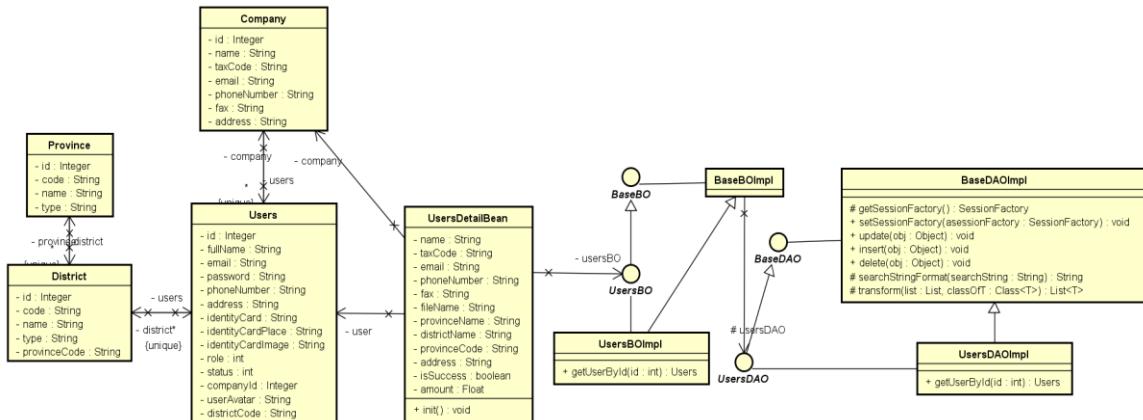


Figure 2.2-46 View User Profile Class Diagram

• **Screen Design**

2.2.14.1.1 Case does not Exist Company Information

Figure 2.2-47 User Profile (part 1)

Figure 2.2-48 User Profile (part 2)

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin cá nhân	userDeatilInformation	panelGrid	Yes		
2	Thông tin công ty	companyInformation	panelGrid	No		
	Thay đổi		commandButton			

	Thêm thông tin công ty.		commandButton			
--	-------------------------	--	---------------	--	--	--

2.2.14.1.2 Case Exist Company Information

Figure 2.2-49 User Profile (part 1)

Figure 2.2-50 User Profile (part 2)

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin cá nhân	userDeatilInformation	panelGrid	Yes		
2	Thông tin công ty	companyInformation	panelGrid	No		

3	Thay đổi		commandButton			
4	Thay đổi		commandButton			

- Sequence Diagram

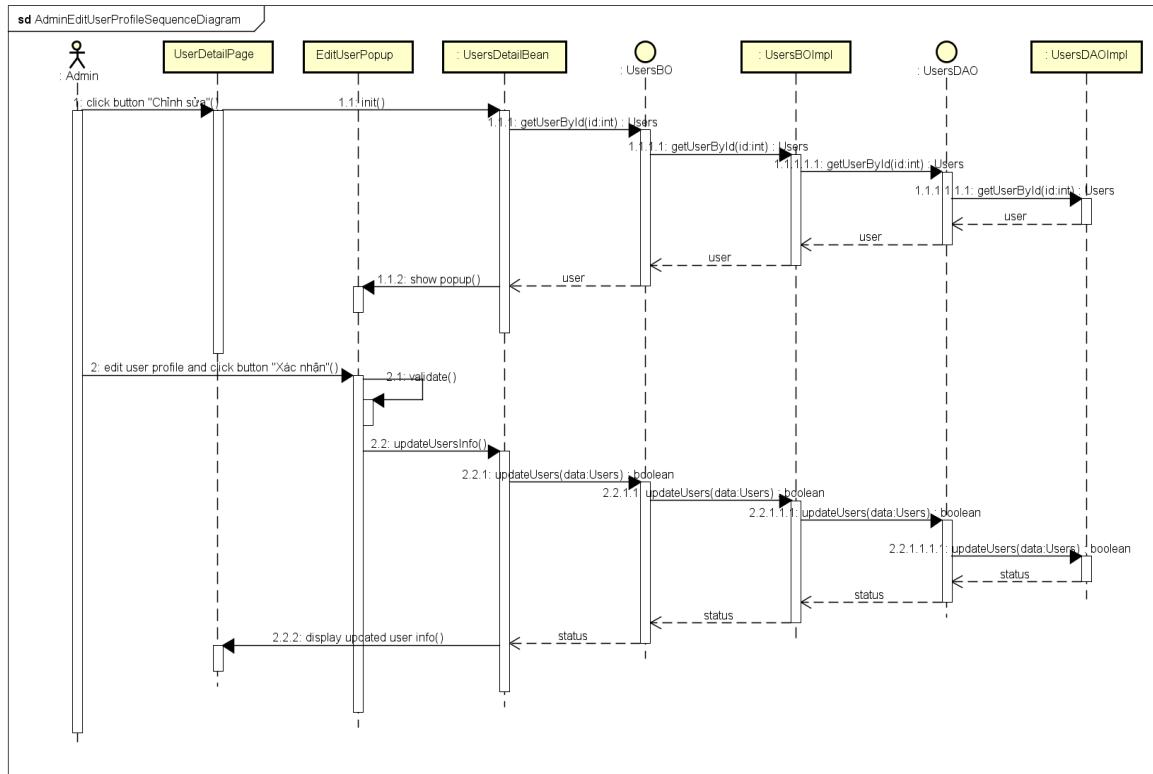


Figure 2.2-51 User Profile Sequence Diagram

2.2.15 Admin activate user

- Class Diagram

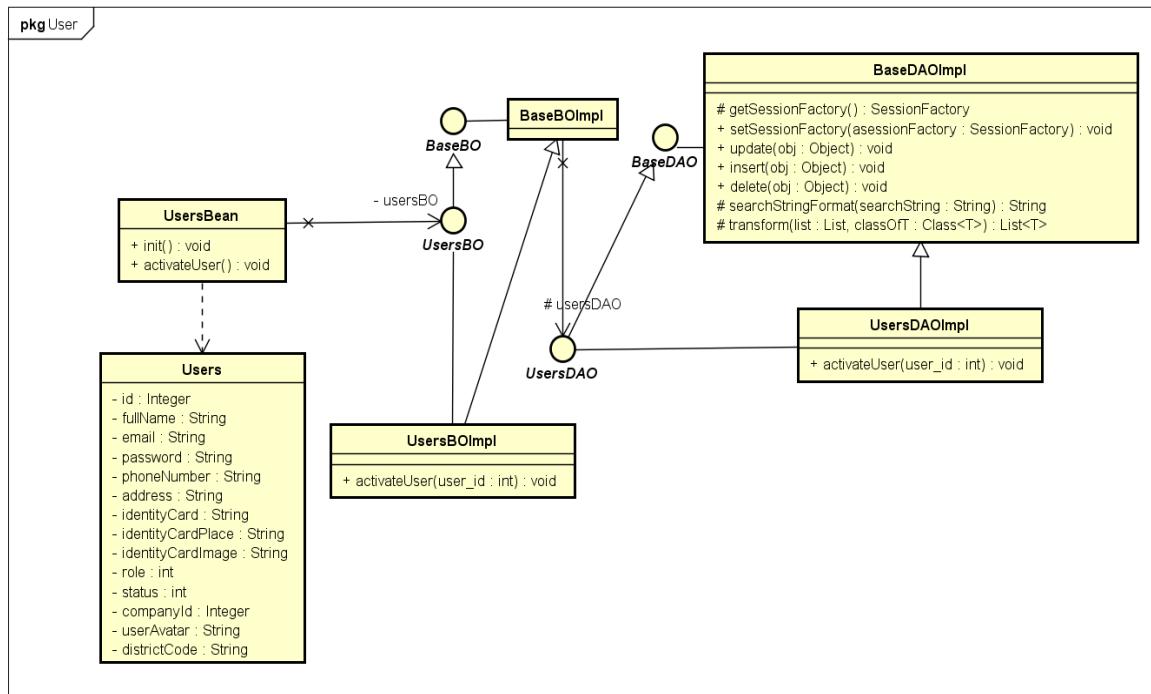


Figure 2.2-52 Active User Class Diagram

- Screen Design

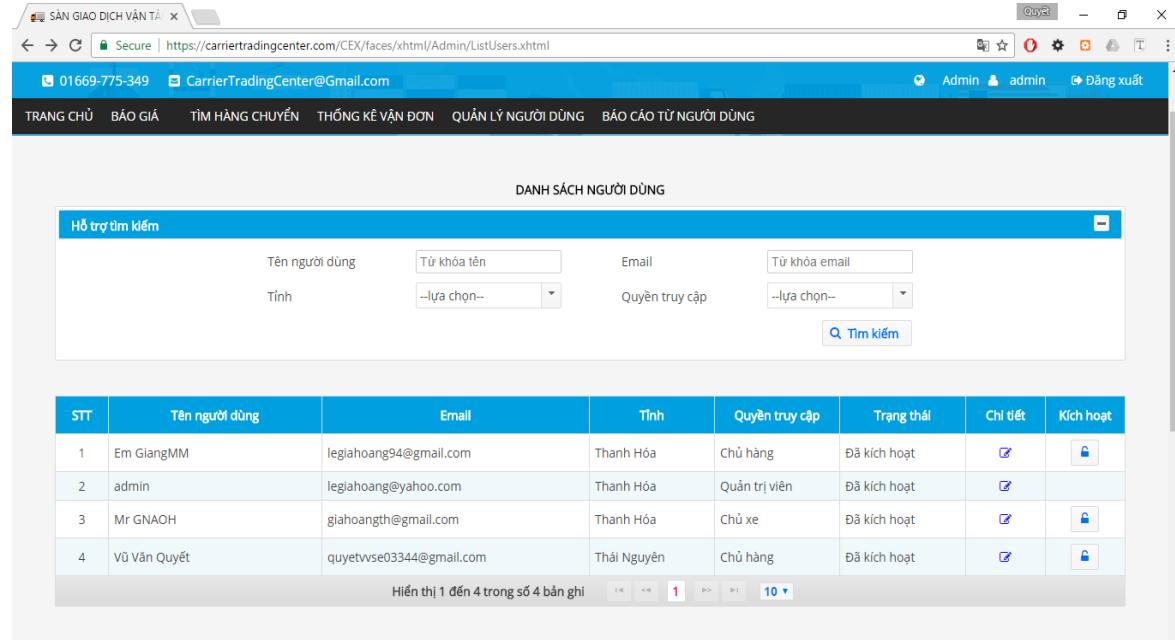


Figure 2.2-53 Activate User

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Tên người dùng	fullName	inputText	No		
2	Email	email	inputText	No		
3	Tỉnh	province	selectOneMenu	No		
4	Quyền truy cập	role	selectOneMenu	No		
5	Tìm kiếm	btn_search	btn_search			
6	Danh sách người dùng	table_users	table_users			
7	Kích hoạt	activate	commandButton			
8	Ngưng kích hoạt	deactivate	commandButton			

- Sequence Diagram

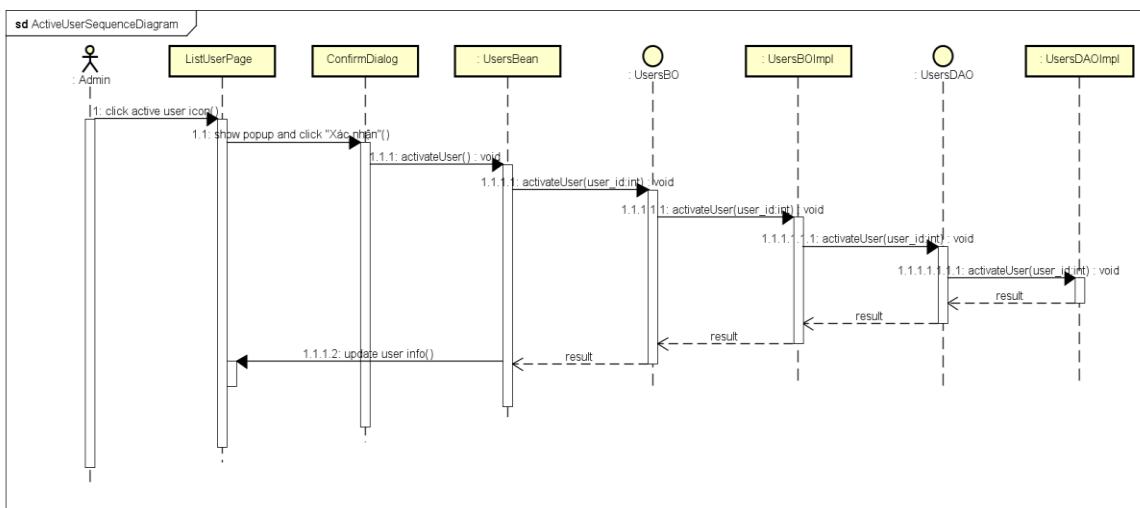


Figure 2.2-54 Activate users Sequence Diagram

2.2.16 Admin deactivate user

- Class Diagram

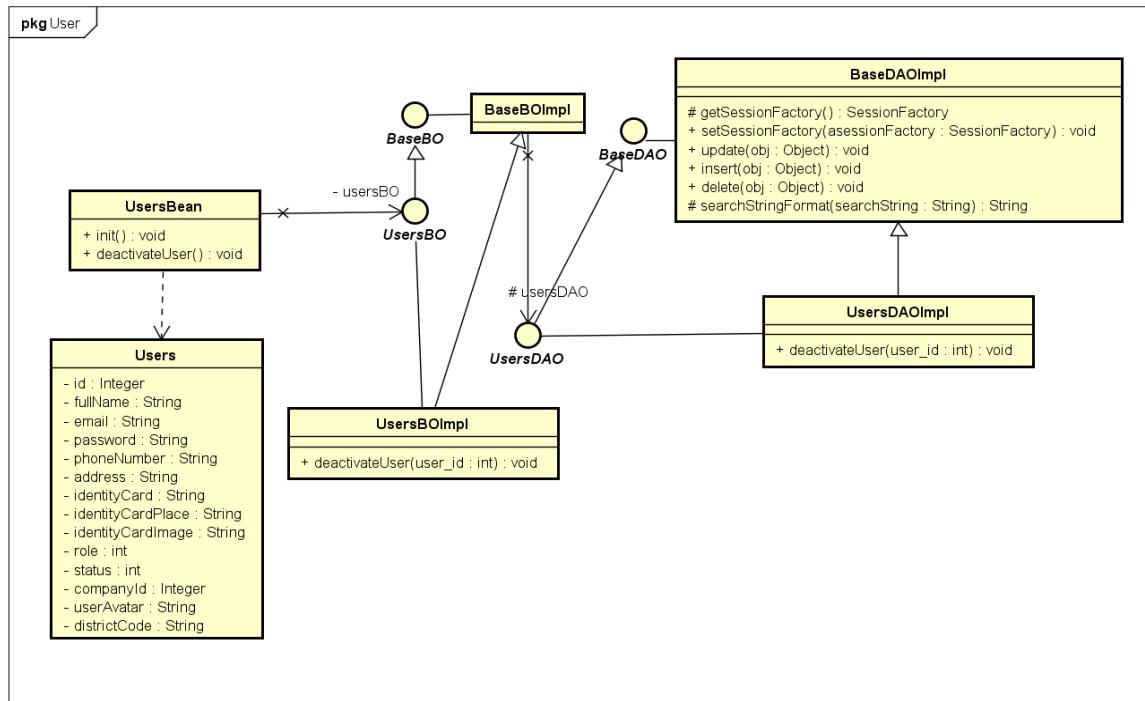


Figure 2.2-55 Deactivate Users Class Diagram

- Screen Design

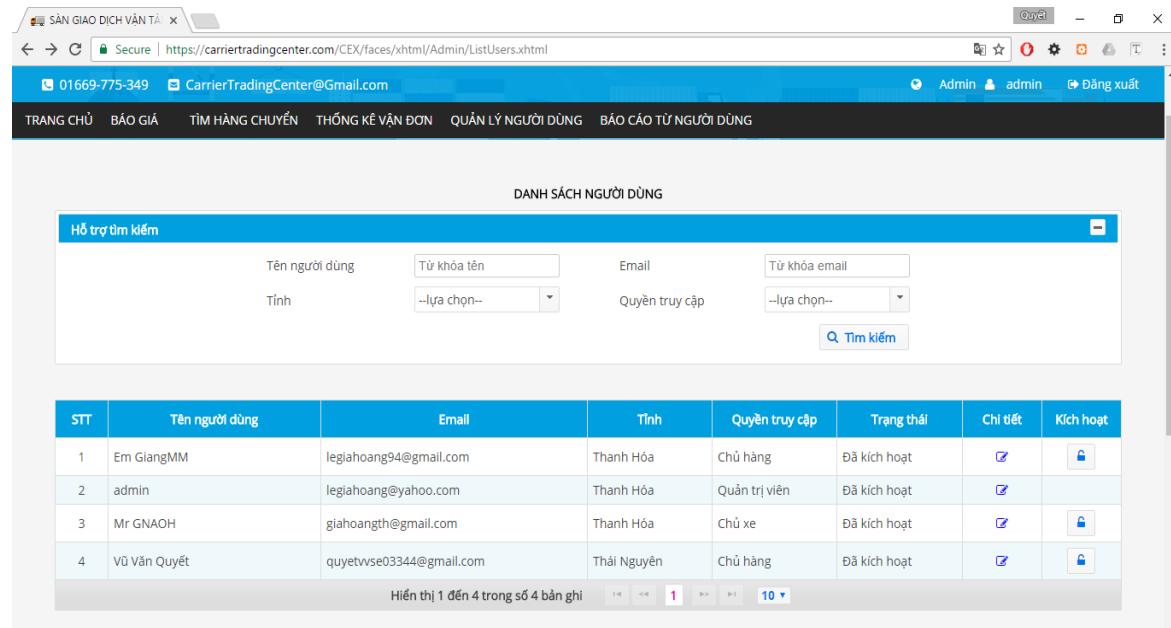


Figure 2.2-56 Activate User

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Tên người dùng	fullName	inputText	No		
2	Email	email	inputText	No		
3	Tỉnh	province	selectOneMenu	No		
4	Quyền truy cập	role	selectOneMenu	No		
5	Tìm kiếm	btn_search	btn_search			
6	Danh sách người dùng	table_users	table_users			
7	Kích hoạt	activate	commandButton			
8	Ngưng kích hoạt	deactivate	commandButton			

- Sequence Diagram

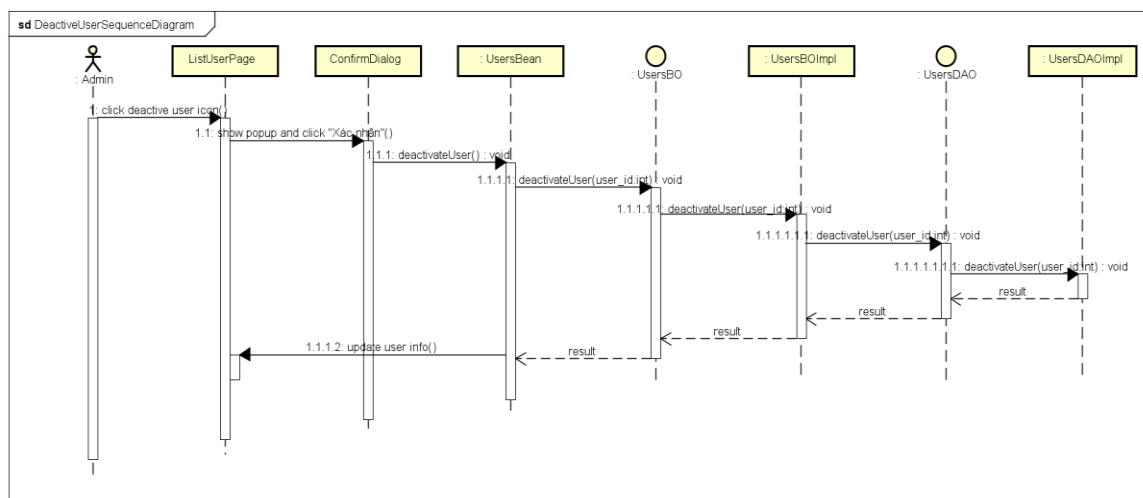


Figure 2.2-57 Deactivate Users Sequence Diagram

2.2.17 Admin view price list

- Class Diagram

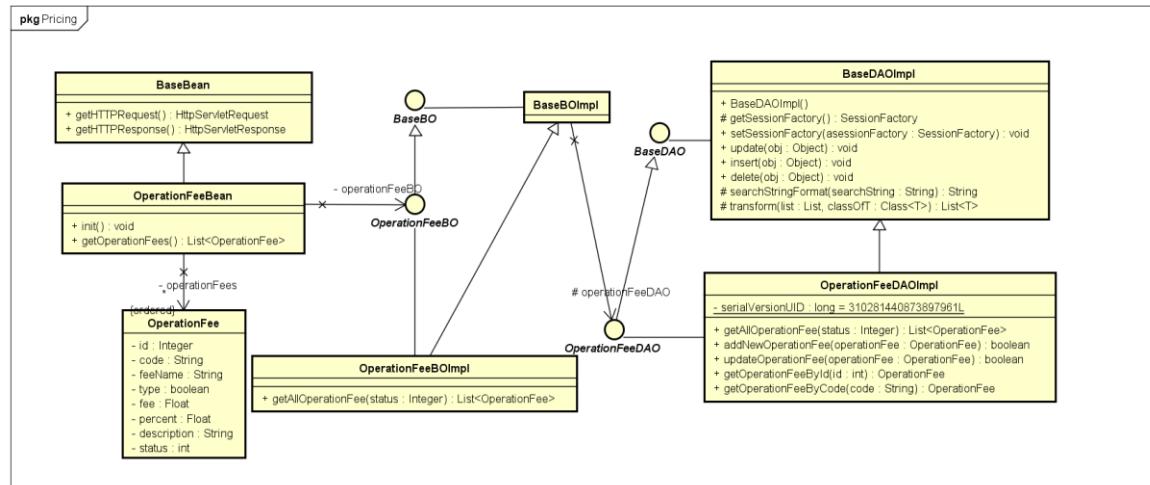


Figure 2.2-58 Price List Class Diagram

- Screen Design

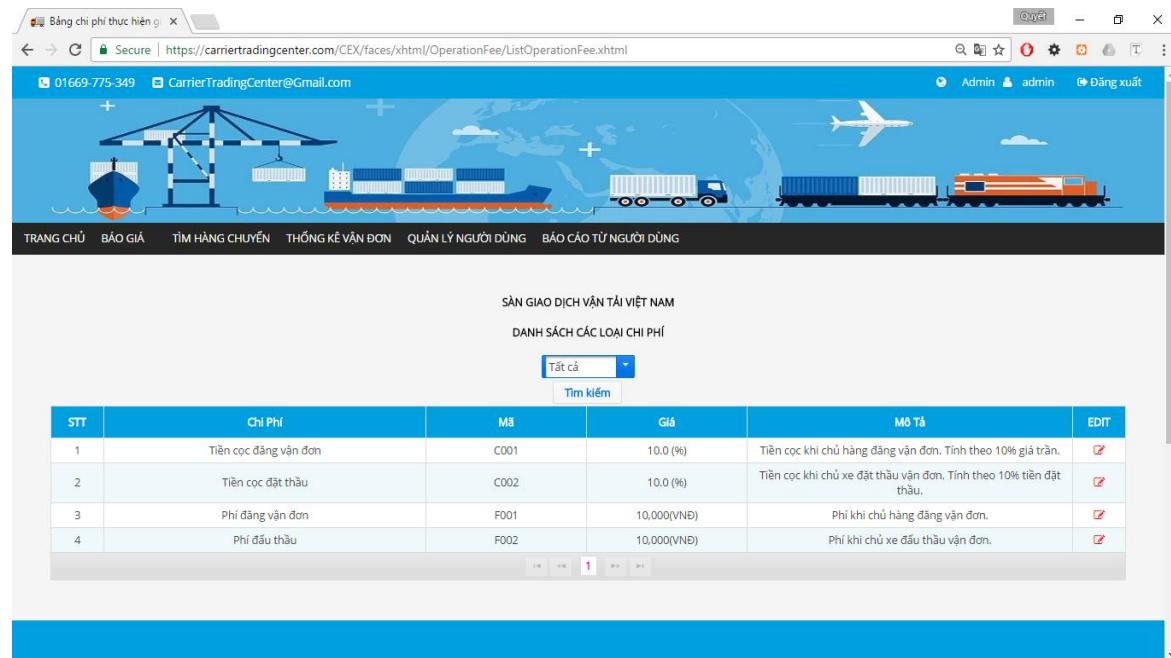


Figure 2.2-59 Price List

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Search condition		selectOneMenu			
2	Tìm kiếm	search	commandButton			
3	Danh sách các loại chi phí	feeDataTable	dataTable			

- **Sequence Diagram**

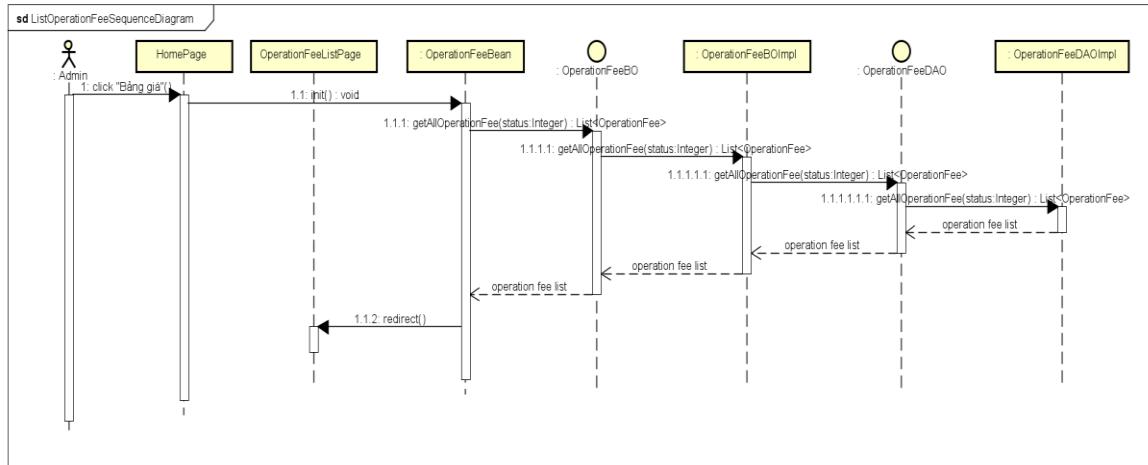


Figure 2.2-60 Price List Sequence Diagram

2.2.18 Admin edit price

- **Class Diagram**

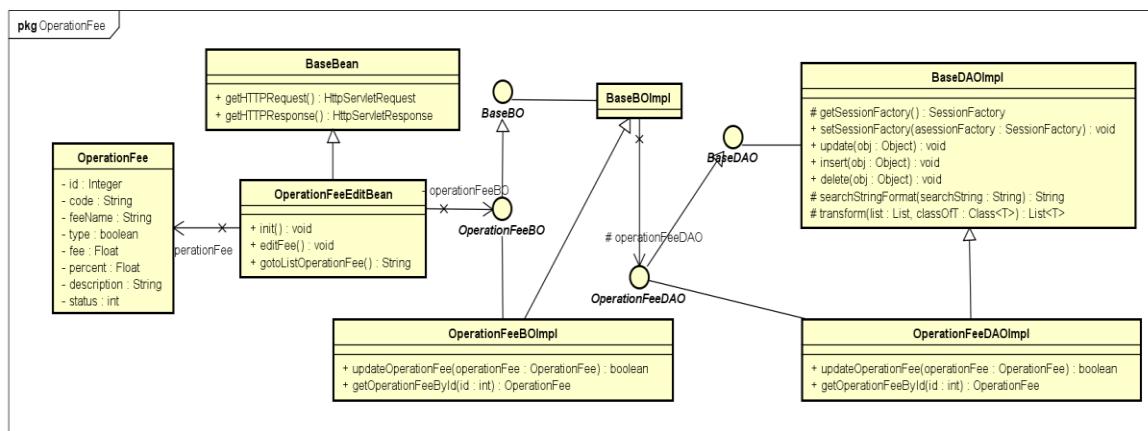


Figure 2.2-61 Edit Operation Fee Class Diagram

- Screen Design

Figure 2.2-62 Edit Operation Fee

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Bảng thông tin chi phí		panelGrid			
2	Tên chi phí	feeNameInput	inputText			
3	Mã chi phí	operationFeeCode	inputText			
4	Loại	type	selectOneRadio			
5	Chi phí	fee	inputNumber			
6	Tỉ lệ chi phí	feePercent	inputNumber			
7	Mô tả	descriptioin	inputTextarea			
8	Xác nhận	confirm	commandButton			
9	Hủy bỏ	cancel	commandButton			

- Sequence Diagram

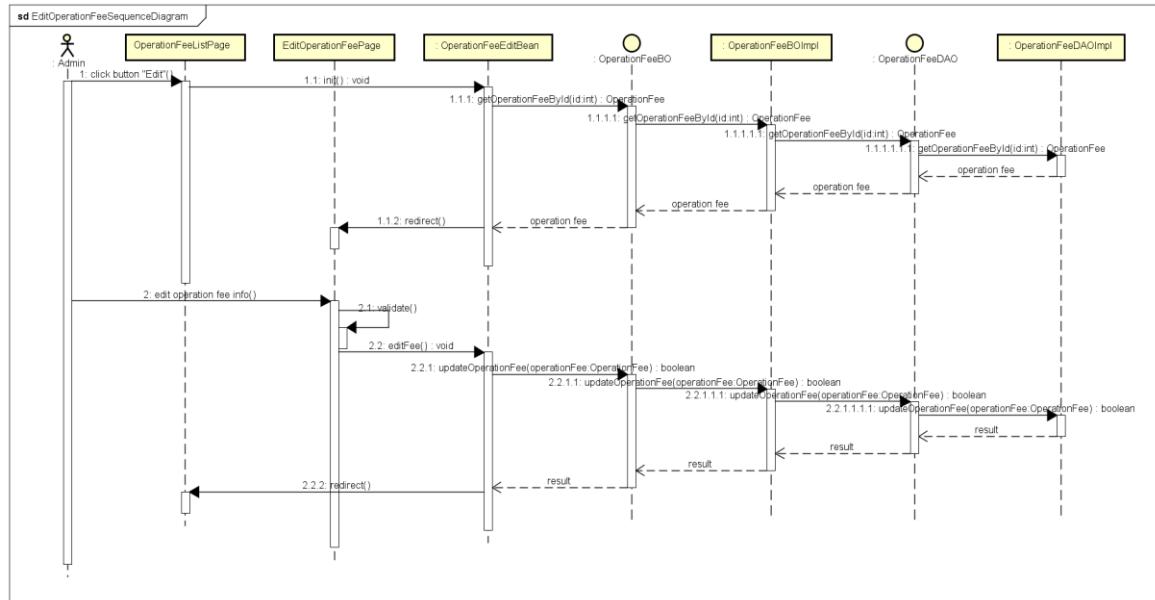


Figure 2.2-63 Edit Operation Fee Sequence Diagram

2.2.19 Admin edit reference price

- Class Diagram

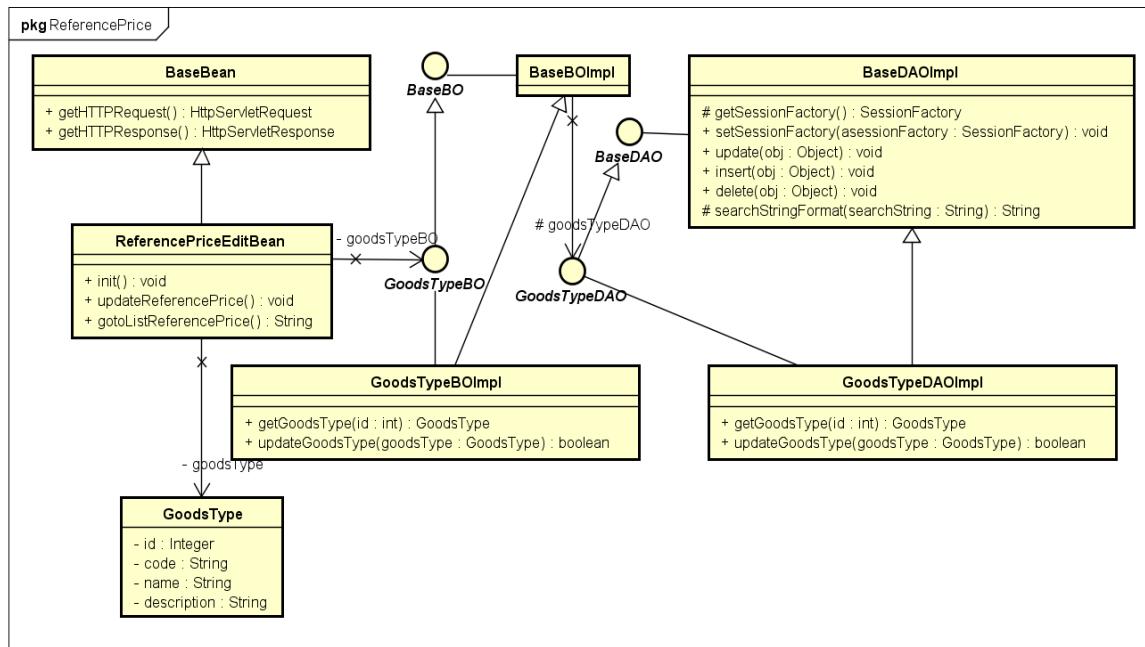


Figure 2.2-64 Edit Reference Price Class Diagram

- Screen Design

Figure 2.2-65 Edit reference price

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Loại hàng hóa	goodsType	outputLabel			
2	Giá tham chiếu	referencePrice	inputText			
3	Xác nhận	confirm	commandButton			
4	Hủy bỏ	cancel	commandButton			

- Sequence Diagram

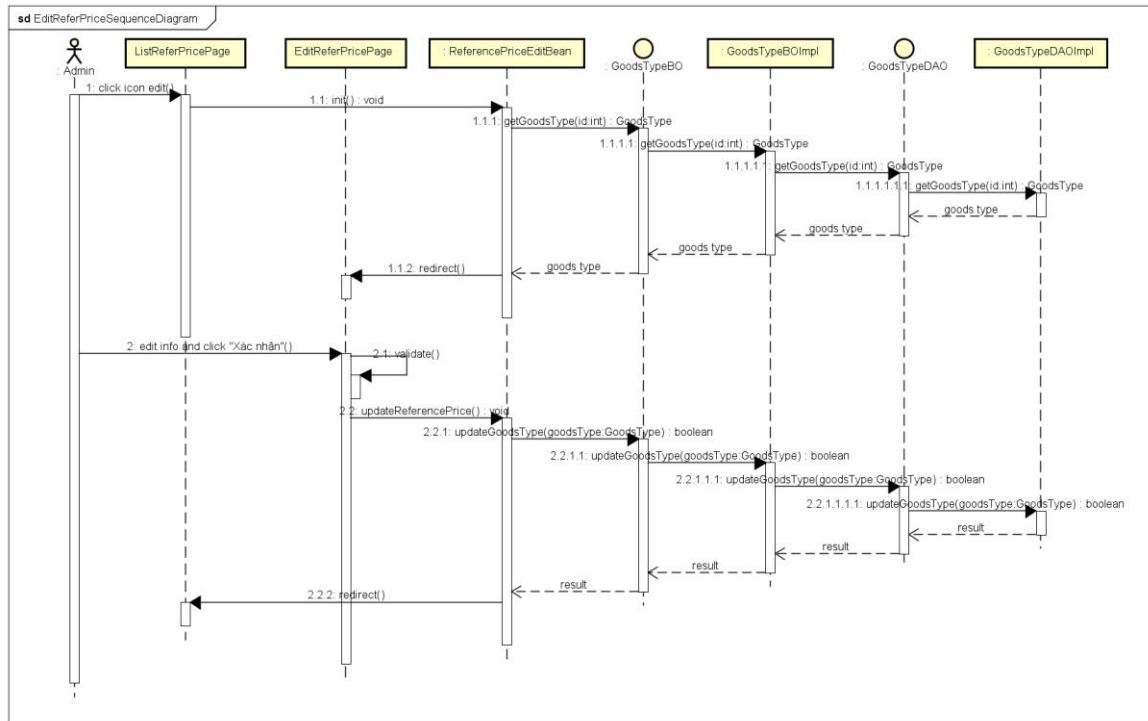


Figure 2.2-66 Edit Reference Price Sequence Diagram

2.2.20 Admin add new price

- Class Diagram

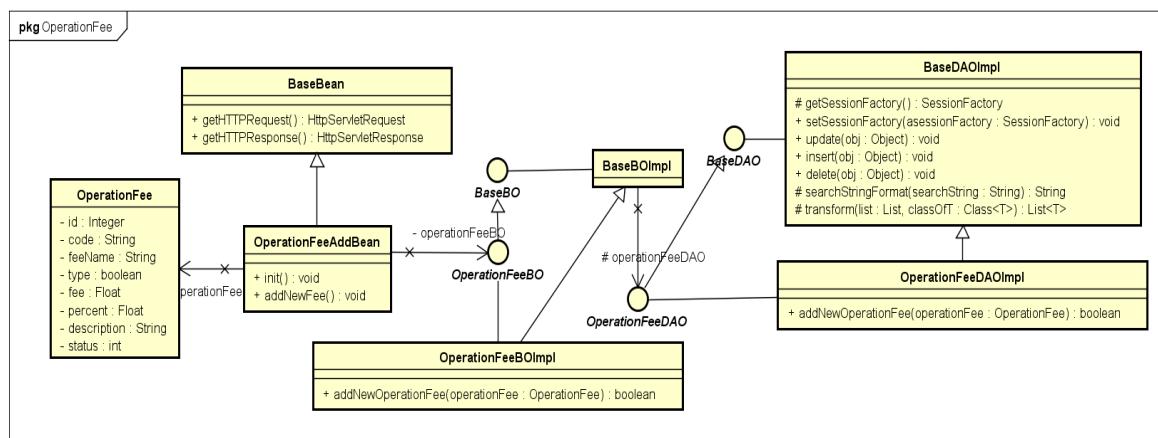


Figure 2.2-67 Add Operation Fee Class Diagram

- Screen Design

Figure 2.2-68 Add New Operation Fee

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Bảng thông tin chi phí		panelGrid			
2	Tên chi phí	feeNameInput	inputText			
3	Mã chi phí	operationFeeCode	inputText			
4	Loại	type	selectOneRadio			
5	Chi phí	fee	inputNumber			
6	Tỉ lệ chi phí	feePercent	inputNumber			
7	Mô tả	descriptioin	inputTextarea			
8	Thêm mới	confirm	commandButton			
9	Hủy bỏ	cancel	commandButton			

- Sequence Diagram

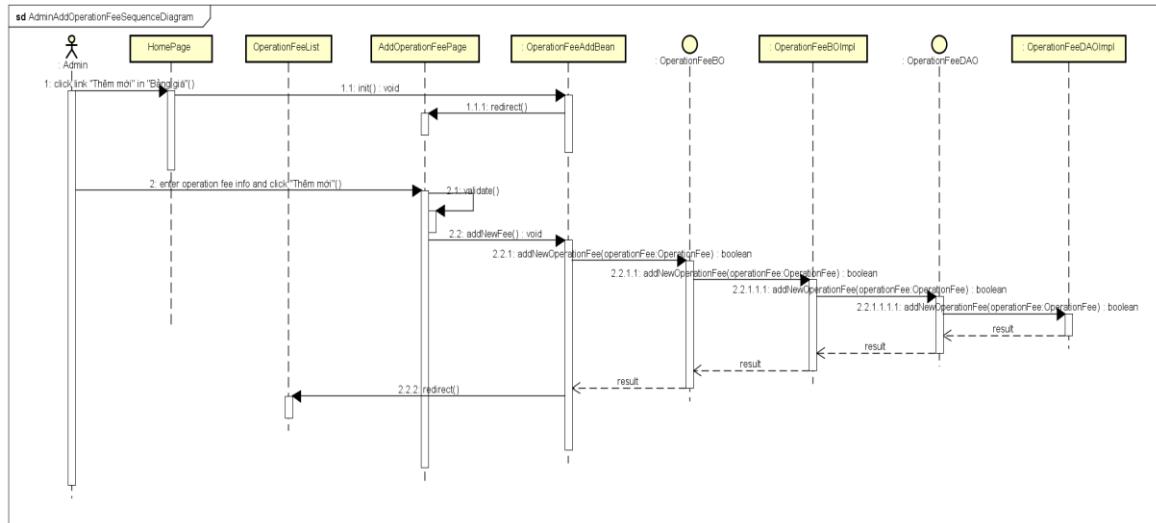


Figure 2.2-69 Add New Operation Fee Sequence Diagram

2.2.21 Admin search report

- Class Diagram

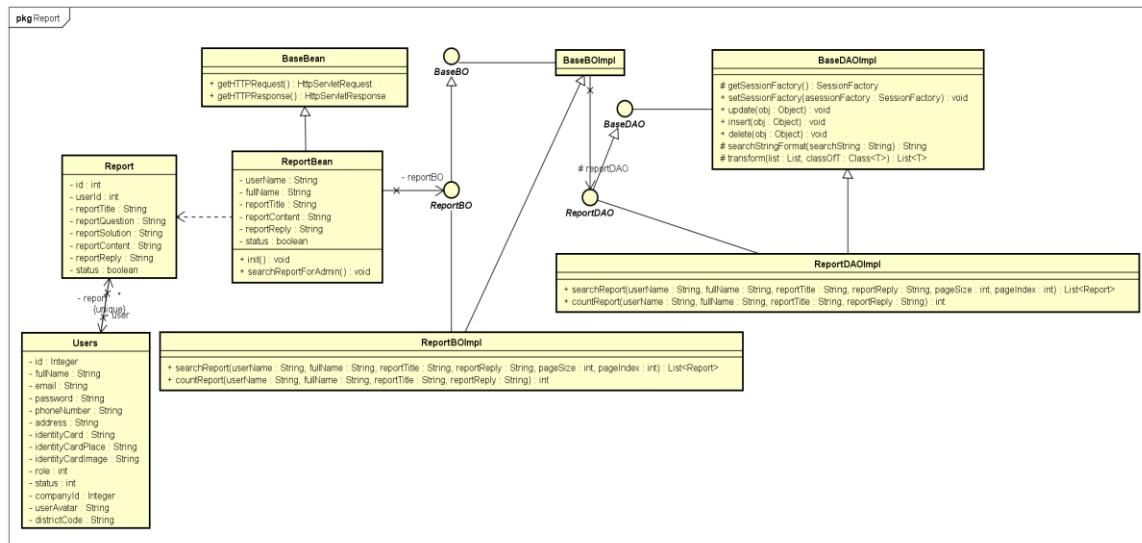


Figure 2.2-70 Search Report Class Diagram

- Screen Design

Figure 2.2-71 Search Report

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Hỗ trợ tìm kiếm	search_support	panelGrid			
2	Tên tài khoản	fullname	inputText			
3	Tiêu đề báo cáo	reportTitle	inputText			
4	Từ ngày	dateBegin	calendar			
5	Đến ngày	dateEnd	calendar			
6	Danh sách báo cáo	listReport	dataTable			

- Sequence Diagram

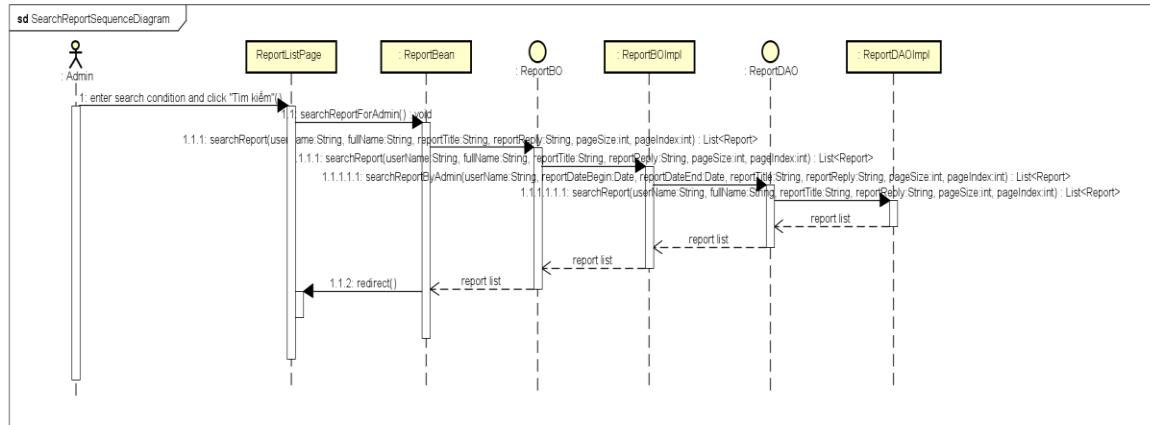


Figure 2.2-72 Search Report Sequence Diagram

2.2.22 Admin view list report

- Class Diagram

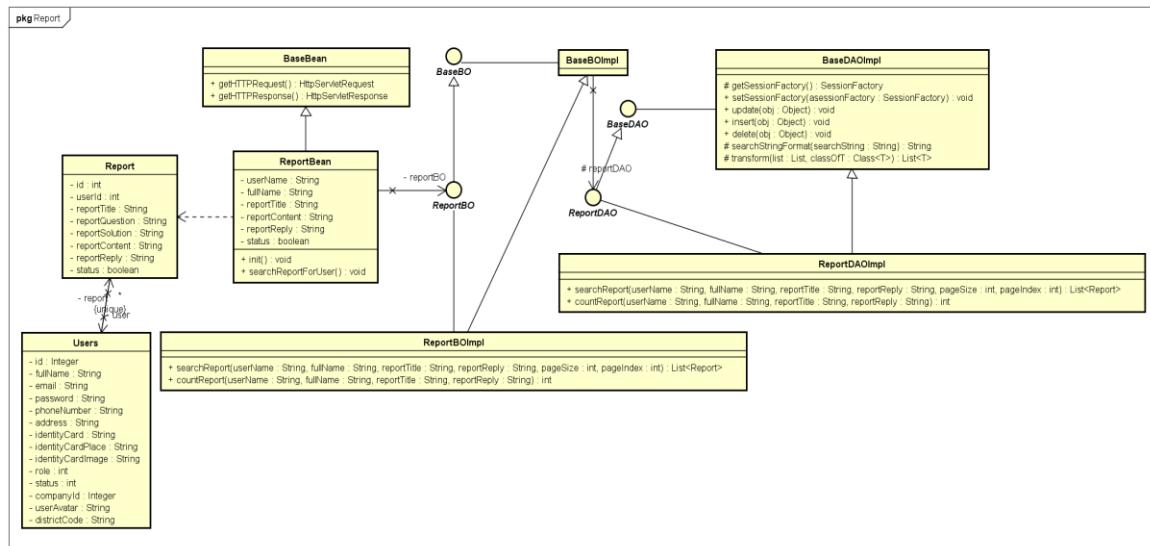


Figure 2.2-73 List Report Class Diagram

- Screen Design

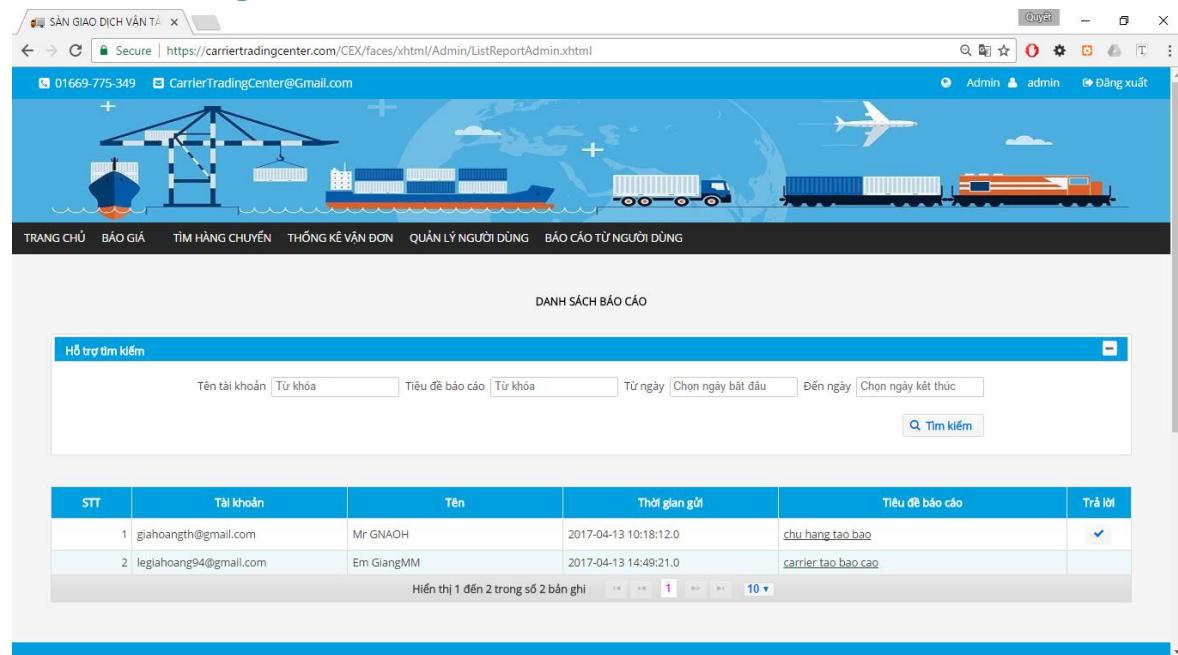


Figure 2.2-74 List Report

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Hỗ trợ tìm kiếm	search_support	panelGrid			
2	Tên tài khoản	fullname	inputText			
3	Tiêu đề báo cáo	reportTitle	inputText			
4	Từ ngày	dateBegin	calendar			
5	Đến ngày	dateEnd	calendar			
6	Danh sách báo cáo	listReport	dataTable			

- Sequence Diagram

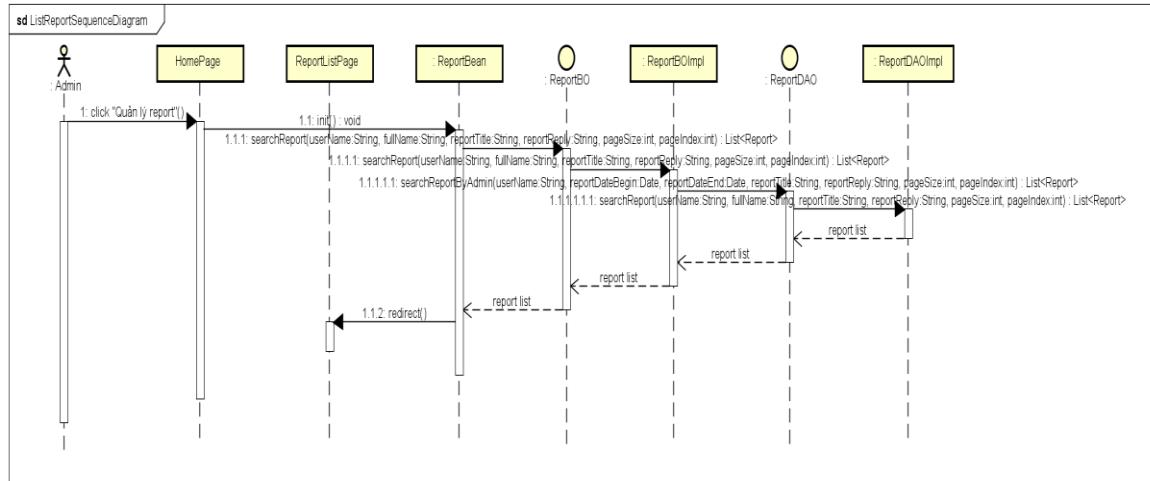


Figure 2.2-75 List Report Sequence Diagram

2.2.23 Admin response report

- Class Diagram

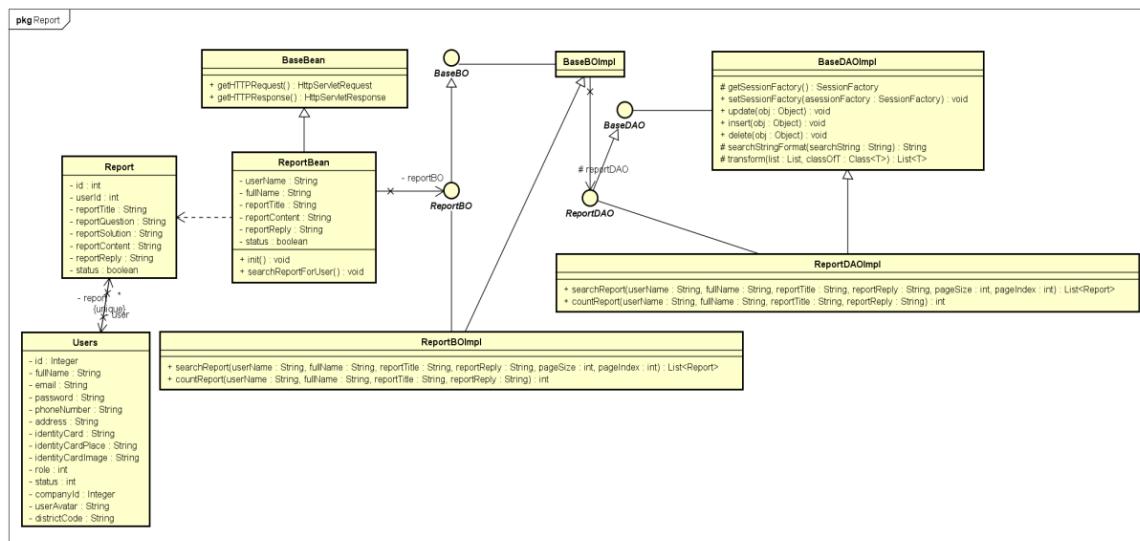


Figure 2.2-76 Response report

- Screen Design

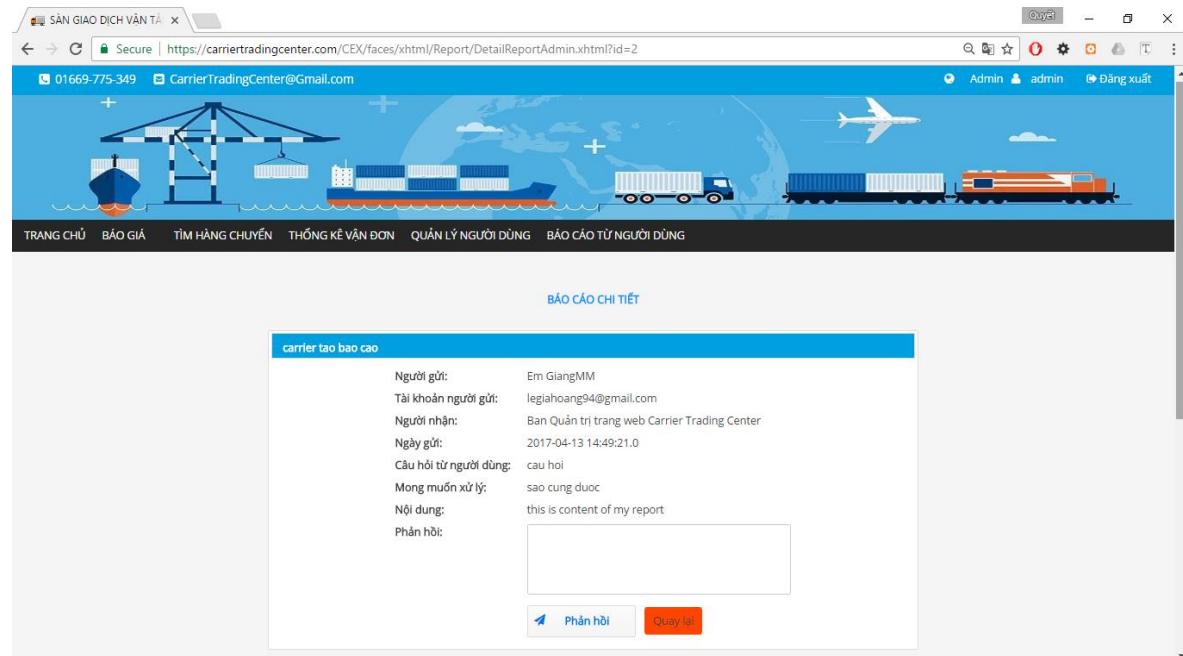


Figure 2.2-77 Response Report

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Báo cáo chi tiết	reportDetail	panelGrid			
2	Tiêu đề báo cáo	fullName	outputText			
3	Người gửi	userName	outputText			
4	Tài khoản người gửi	userName	outputText			
5	Người nhận		outputText			
6	Ngày gửi	reportDate	outputLabel			
7	Câu hỏi từ người dùng	reportQuestion	outputLabel			
8	Mong muốn xử lý	reportSolution	outputLabel			
9	Nội dung	reportContent	outputLabel			
10	Phản hồi	reportReply	inputTextarea			
11	Phản hồi	submit	commandButton			
12	Quay lại	goback	commandButton			

- Sequence Diagram

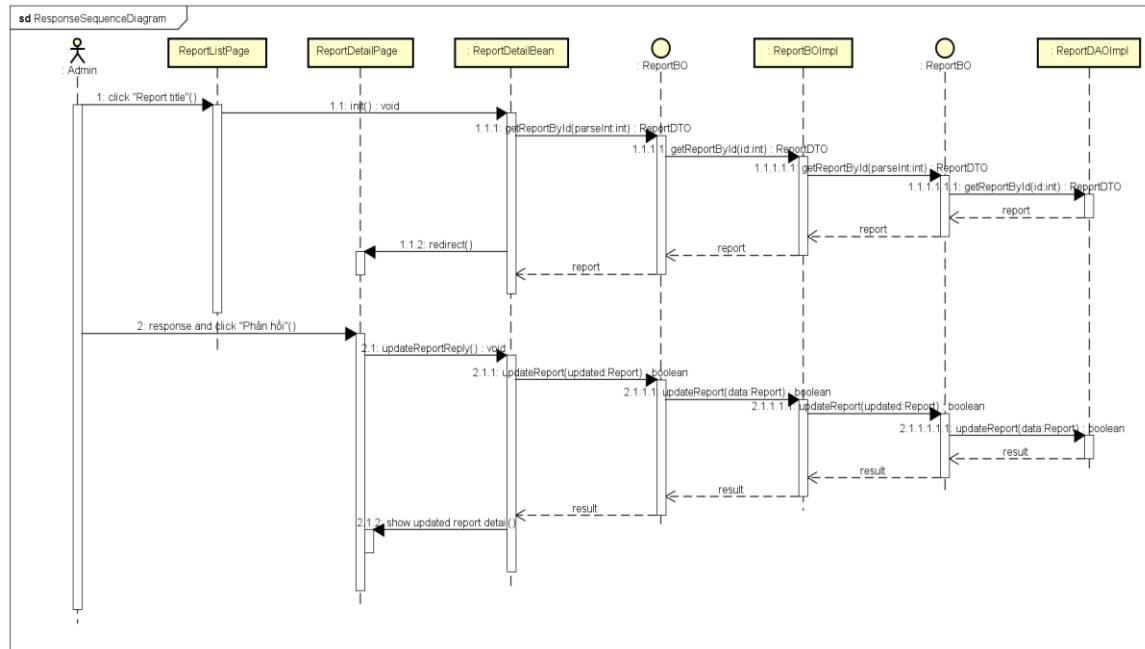


Figure 2.2-78 Response Report Sequence Diagram

2.2.24 Admin edit user profile

- Class Diagram

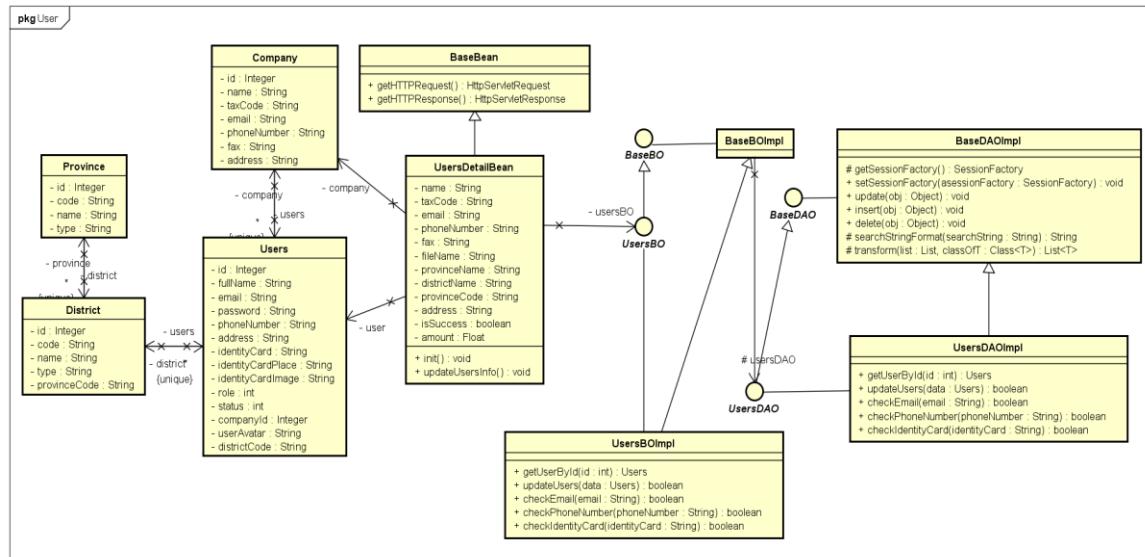


Figure 2.2-79 Edit User Profile Class Diagram

- Screen Design

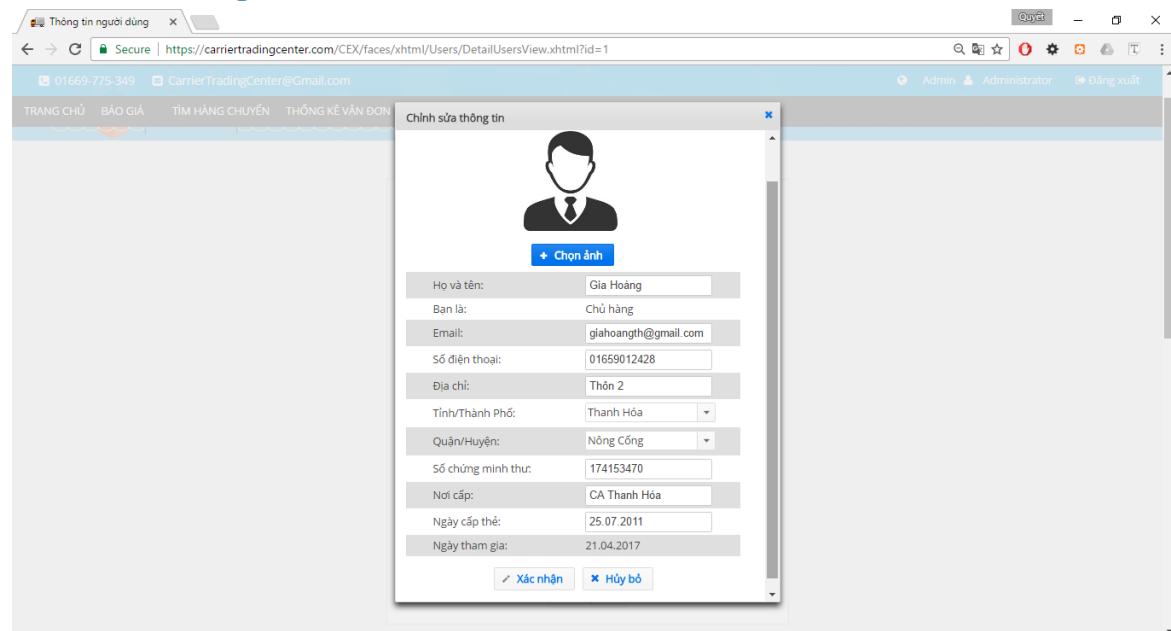


Figure 2.2-80 Edit User Profile

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	avatar	avatar	graphicImage			
2	Chọn ảnh	chooseImg	fileUpload			
3	Họ và tên	fullName	inputText			
4	Bạn là	role	outputtable			
5	Email	email	inputText			
6	Số điện thoại	phoneNumber	inputText			
7	Địa chỉ	address	inputText			
8	Tỉnh/Thành phố	province	selectOneMenu			
9	Quận/Huyện	district	selectOneMenu			
10	Số chứng minh thư	identityCard	inputText			
11	Nơi cấp	identityCardPlace	inputText			
12	Ngày cấp	identityCardDate	inputText			
13	Ngày tham gia	dateCreate	outputtable			
14	Lưu thay đổi	save	commandButton			
15	Hủy bỏ	cancel	commandButton			

- Sequence Diagram

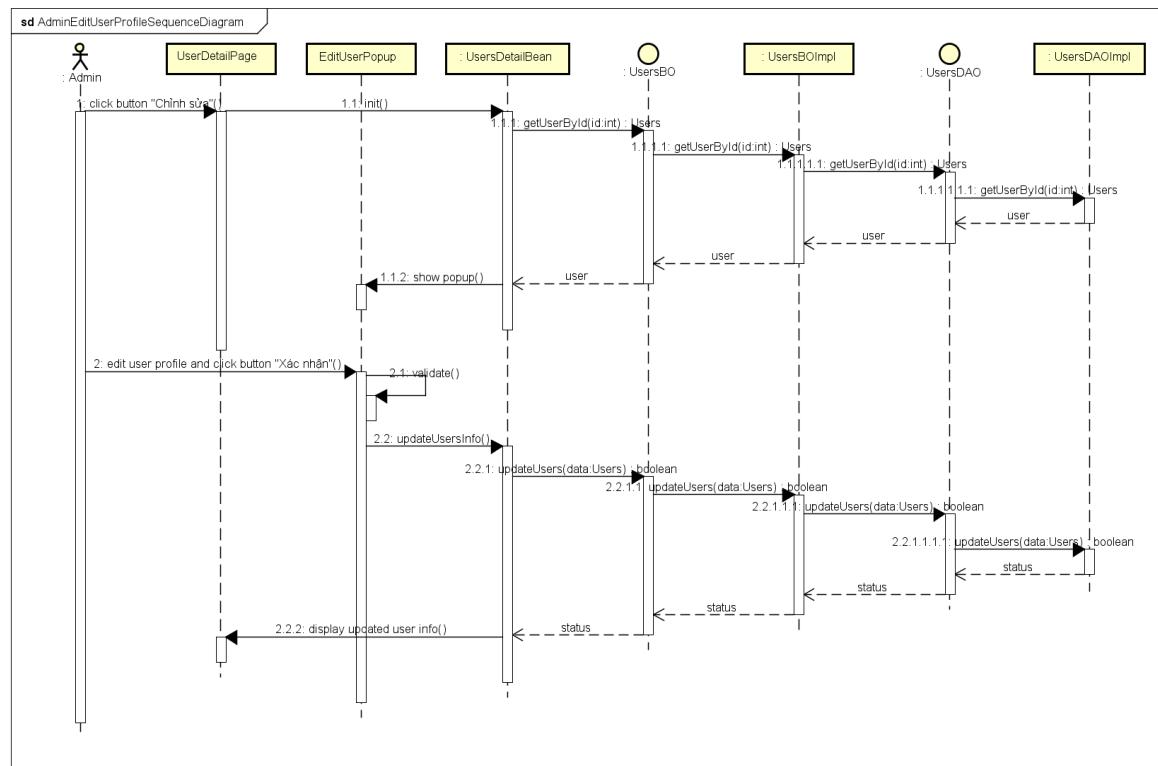


Figure 2.2-81 Edit User Profile Sequence Diagram

2.2.25 Admin change password

- Class Diagram

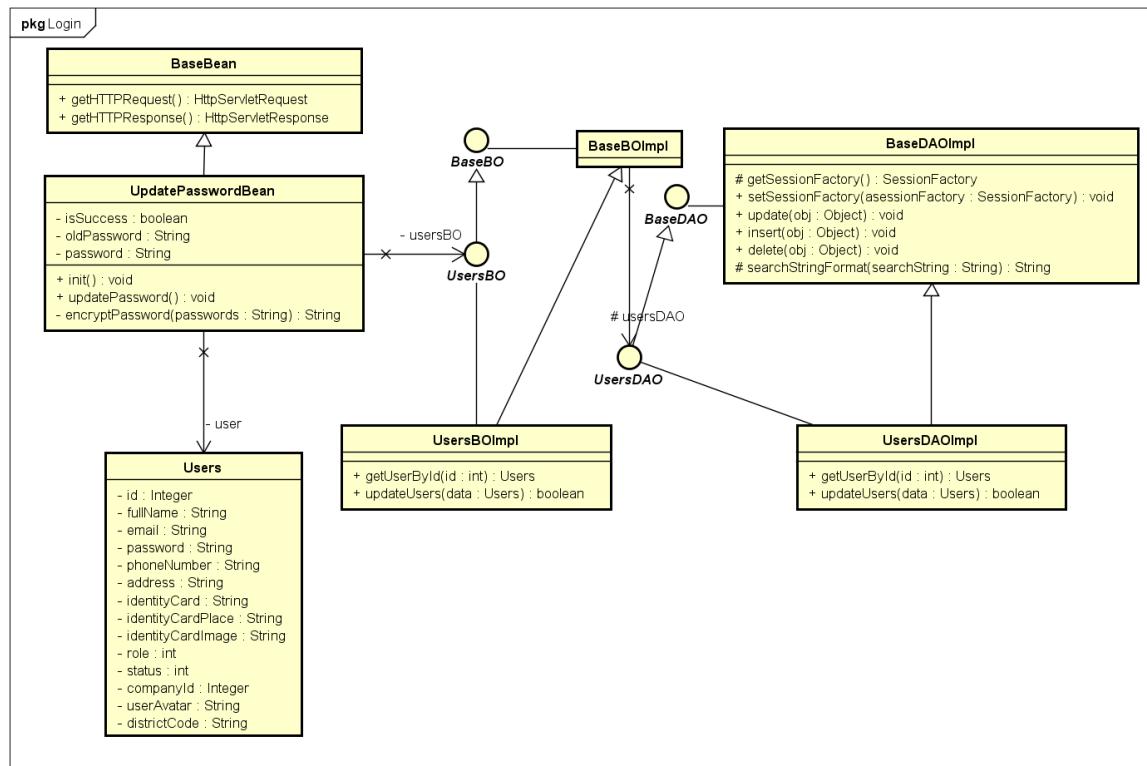


Figure 2.2-82 Change Password Class Diagram

- Screen Design

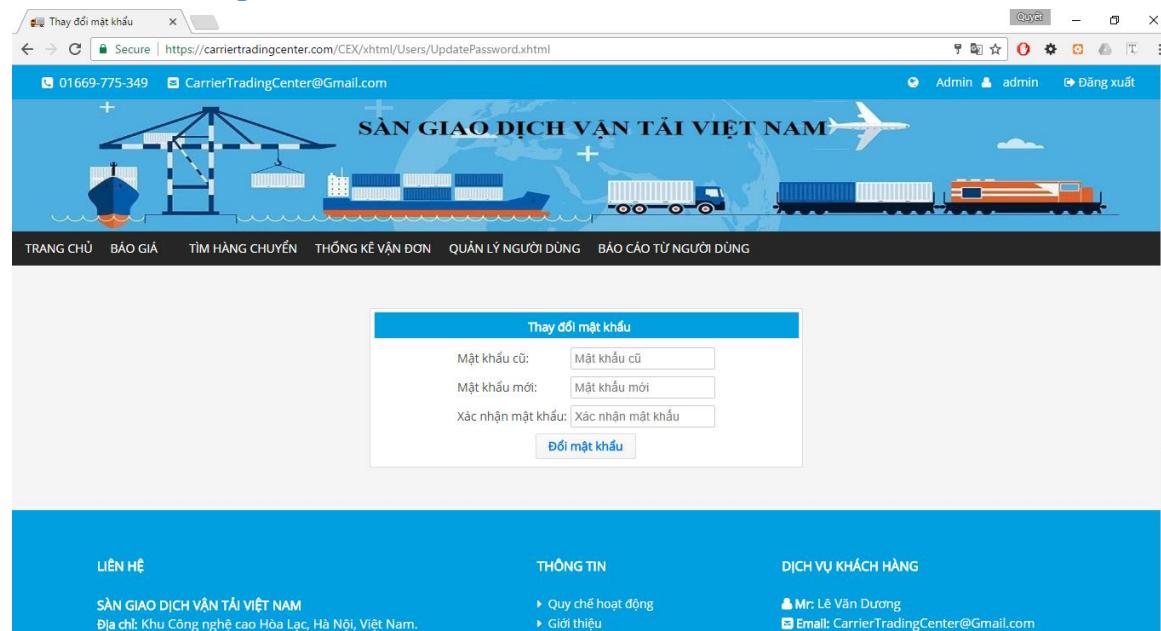


Figure 2.2-83 Update Password

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thay đổi mật khẩu	resetPassword	panelGrid			
2	Mật khẩu cũ	fullName	password			
3	Mật khẩu mới	role	password			
4	Xác nhận mật khẩu	email	password			
5	Đổi mật khẩu	phoneNumber	commandButton			

- Sequence Diagram

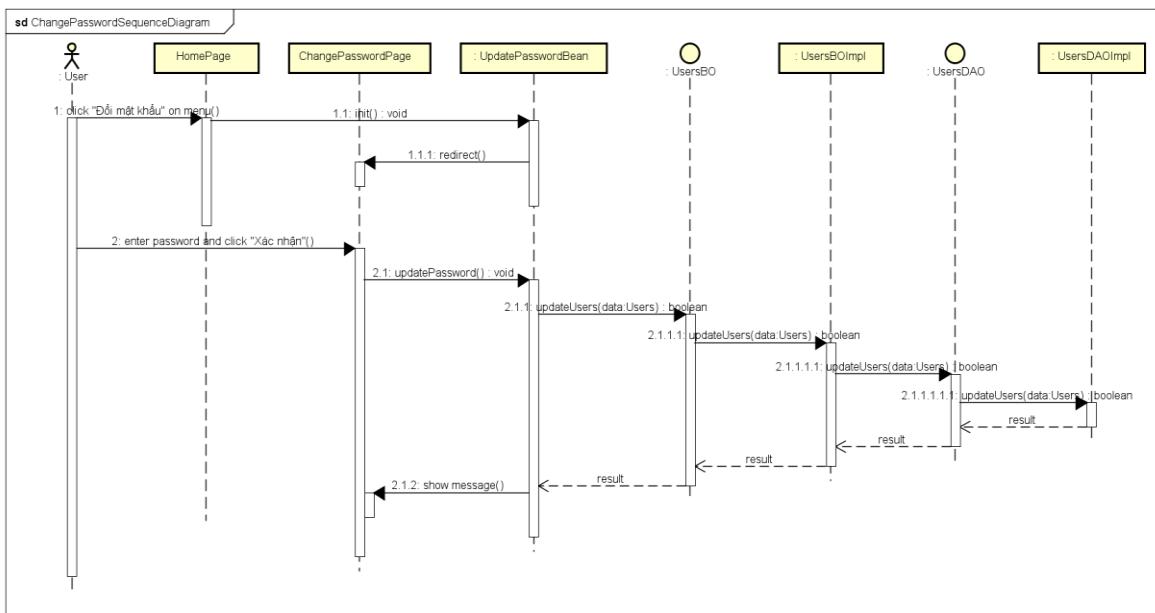


Figure 2.2-84 Update Password Sequence Diagram

2.2.26 Admin forgot password

- Class Diagram

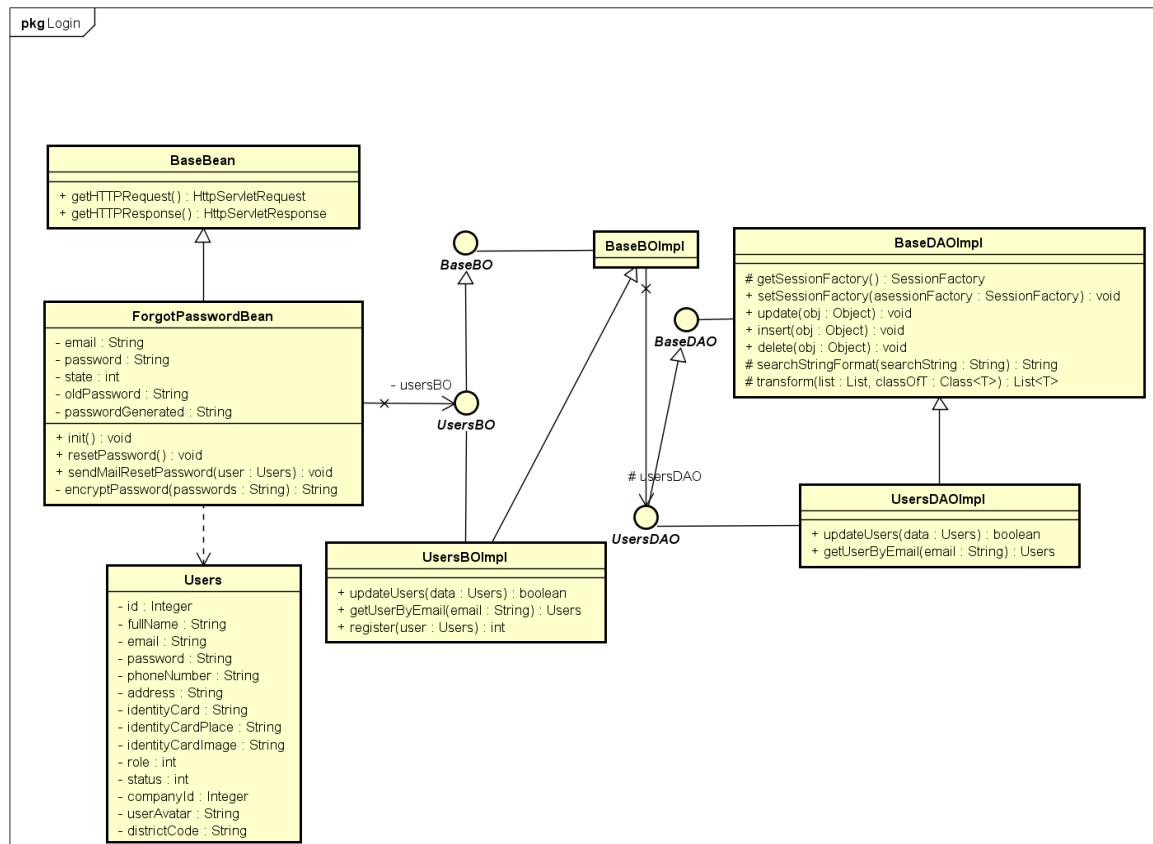


Figure 2.2-85 Forgot Password Class Diagram

- Screen Design

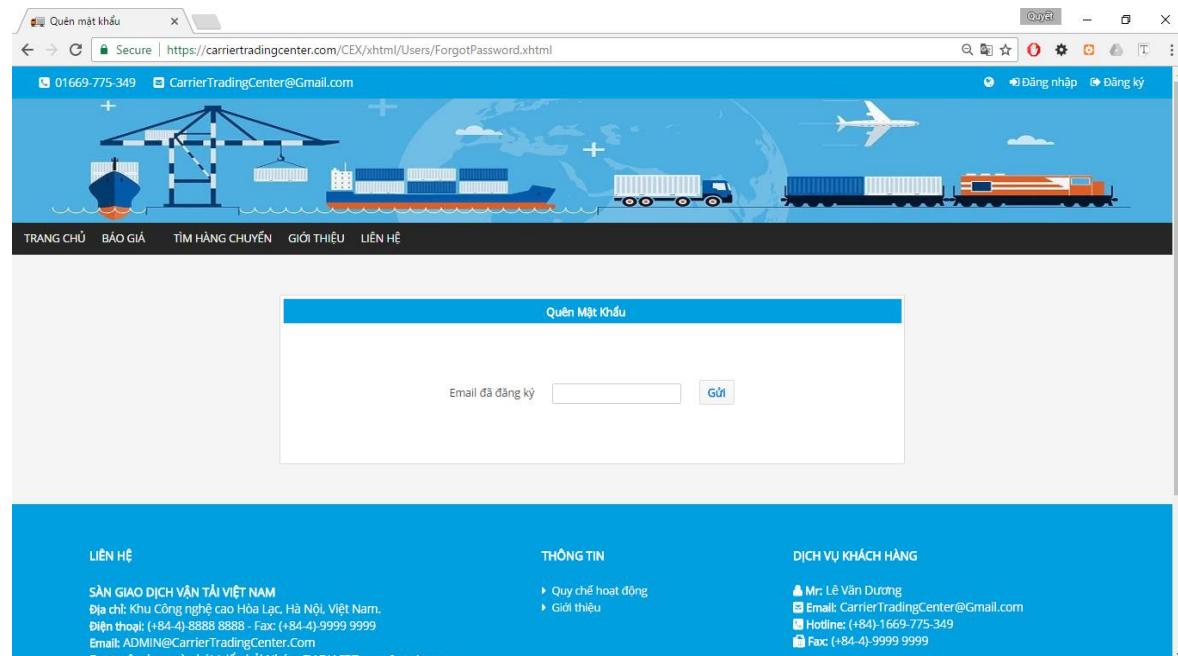


Figure 2.2-86 Forgot Password

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Quên mật khẩu	forgotPassword	panelGrid			
2	Email đã đăng ký	email	inputText			
3	Gửi	send	commandButton			

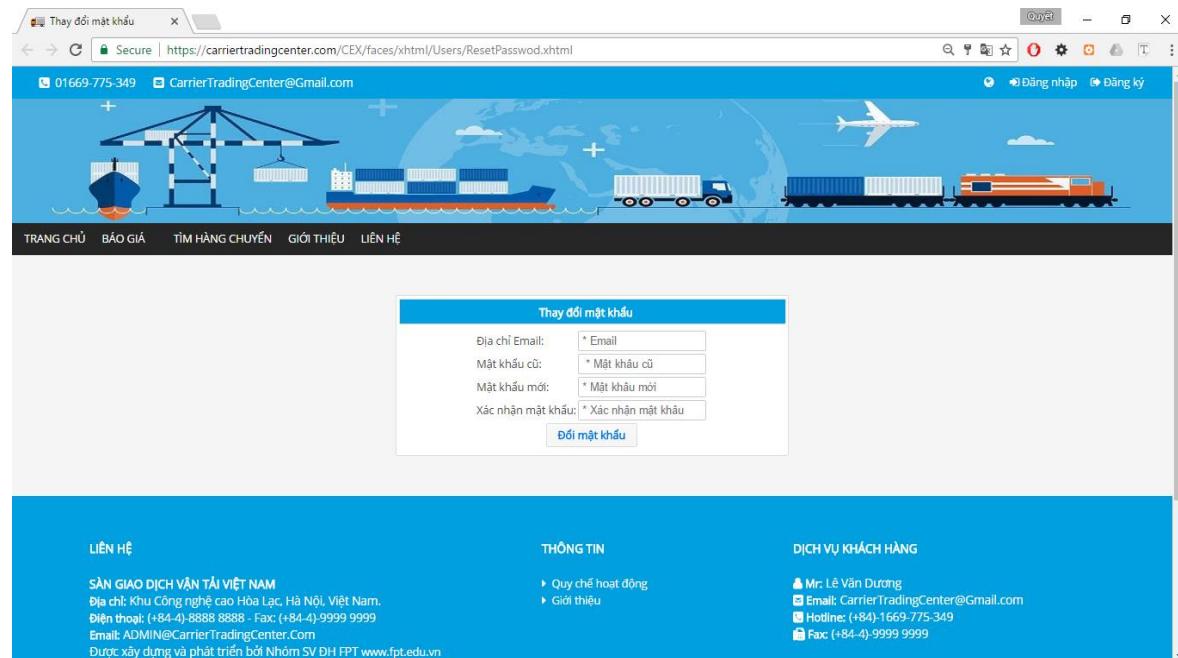


Figure 2.2-87 Reset Password

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thay đổi mật khẩu	resetPassword	panelGrid			
2	Địa chỉ email	chooseImg	inputText			
3	Mật khẩu cũ	fullName	password			
4	Mật khẩu mới	role	password			
5	Xác nhận mật khẩu	email	password			
6	Đổi mật khẩu	phoneNumber	commandButton			

- Sequence Diagram

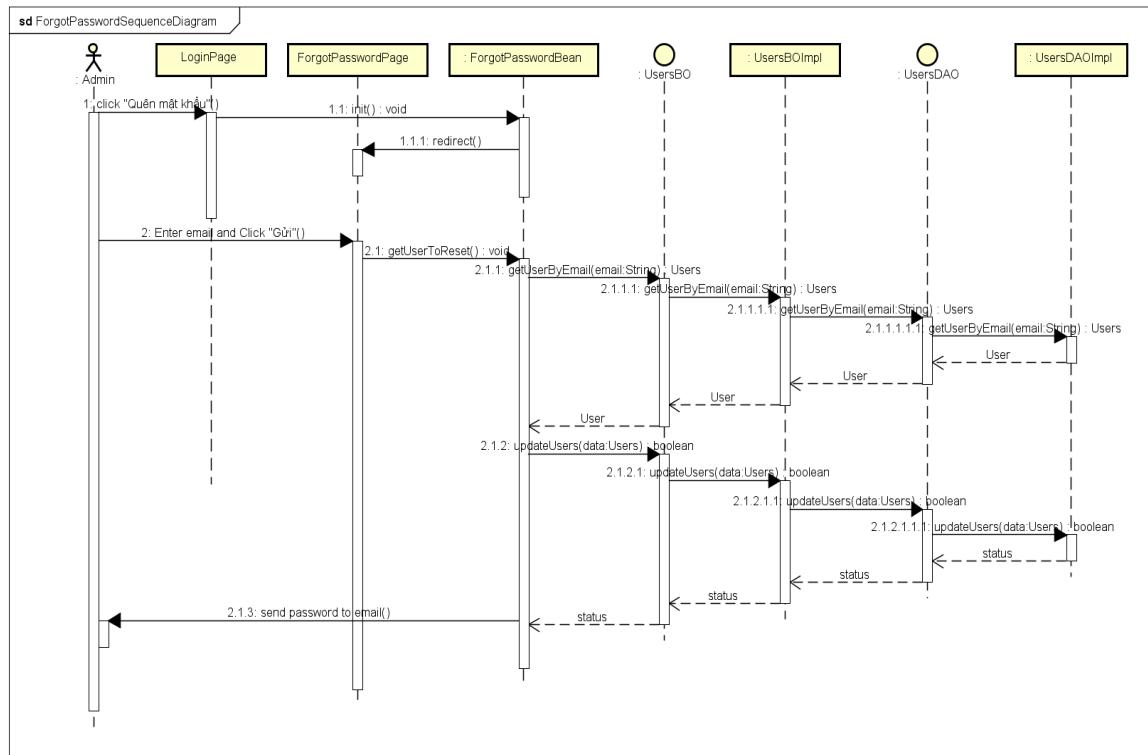


Figure 2.2-88 Forgot Password Sequence Diagram

2.2.27 Admin login

- **Class Diagram**

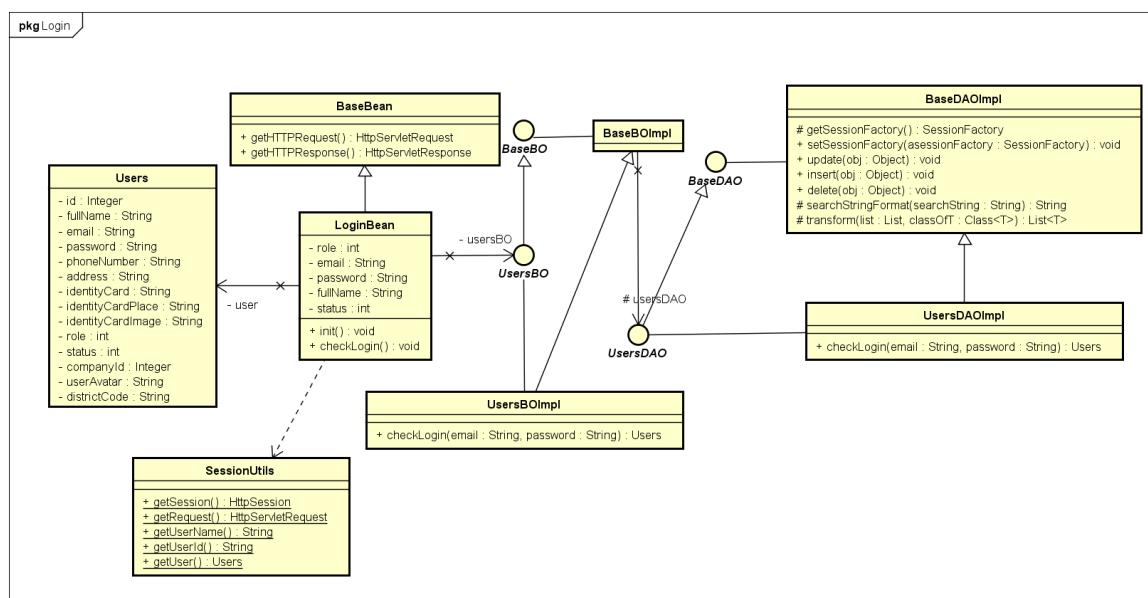


Figure 2.2-89 Login Class Diagram

- Screen Design

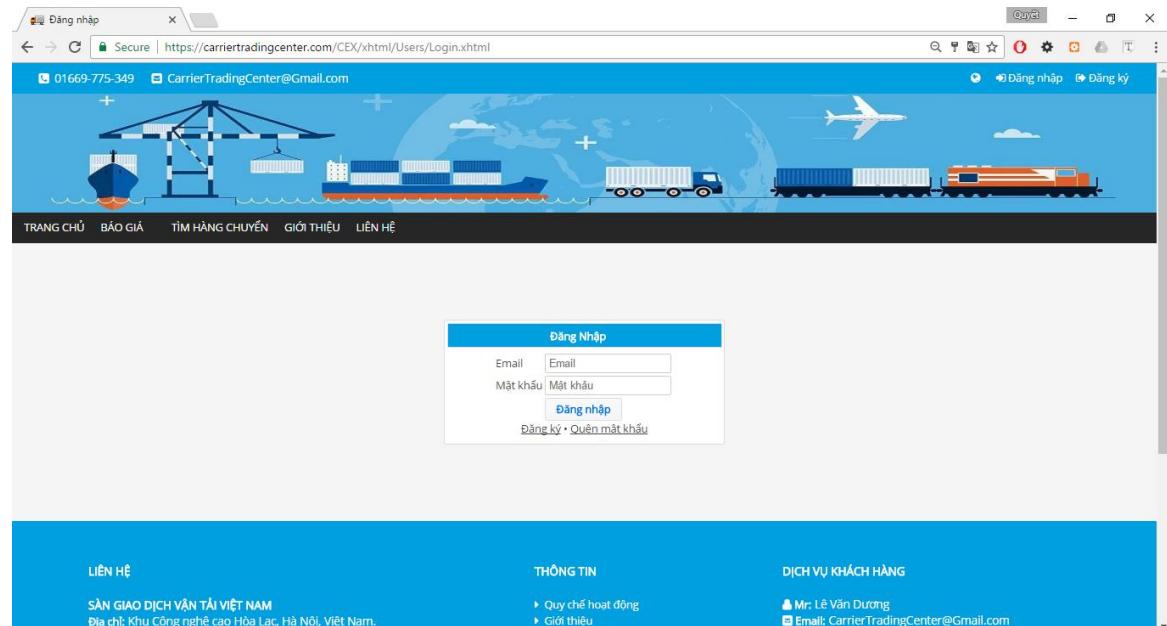


Figure 2.2-90 Login

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Email	email	inputText	Yes		
2	Mật khẩu	password	password	Yes		
3	Đăng nhập	login	commandButton			
4	Đăng ký	register	href link			
5	Quên mật khẩu	forgotPassword	href link			

- **Sequence Diagram**

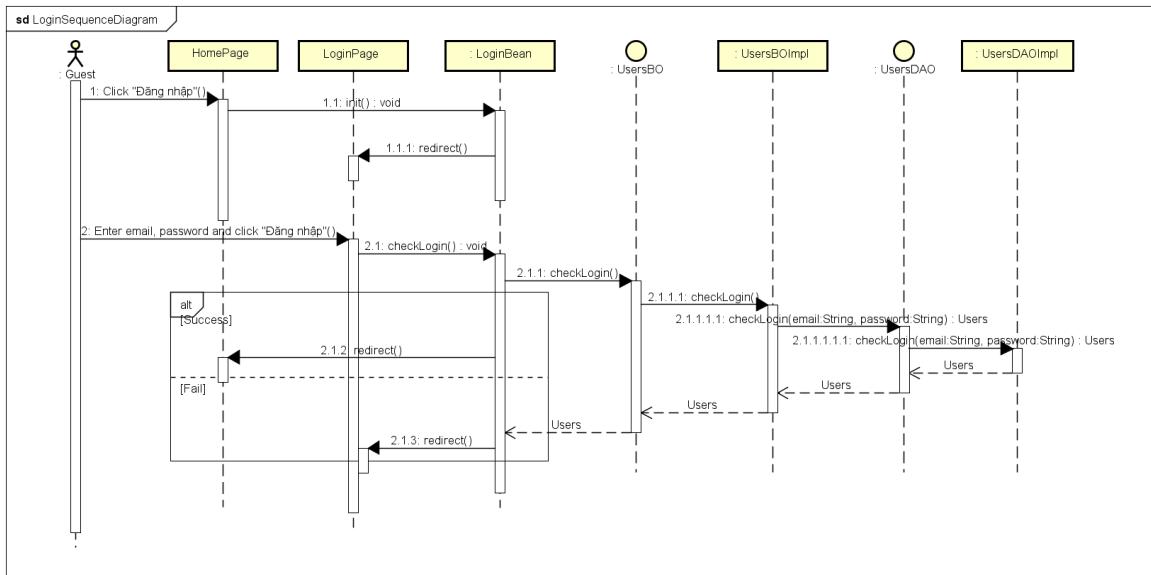


Figure 2.2-91 Login Sequence Diagram

2.2.28 Admin logout

- **Class Diagram**

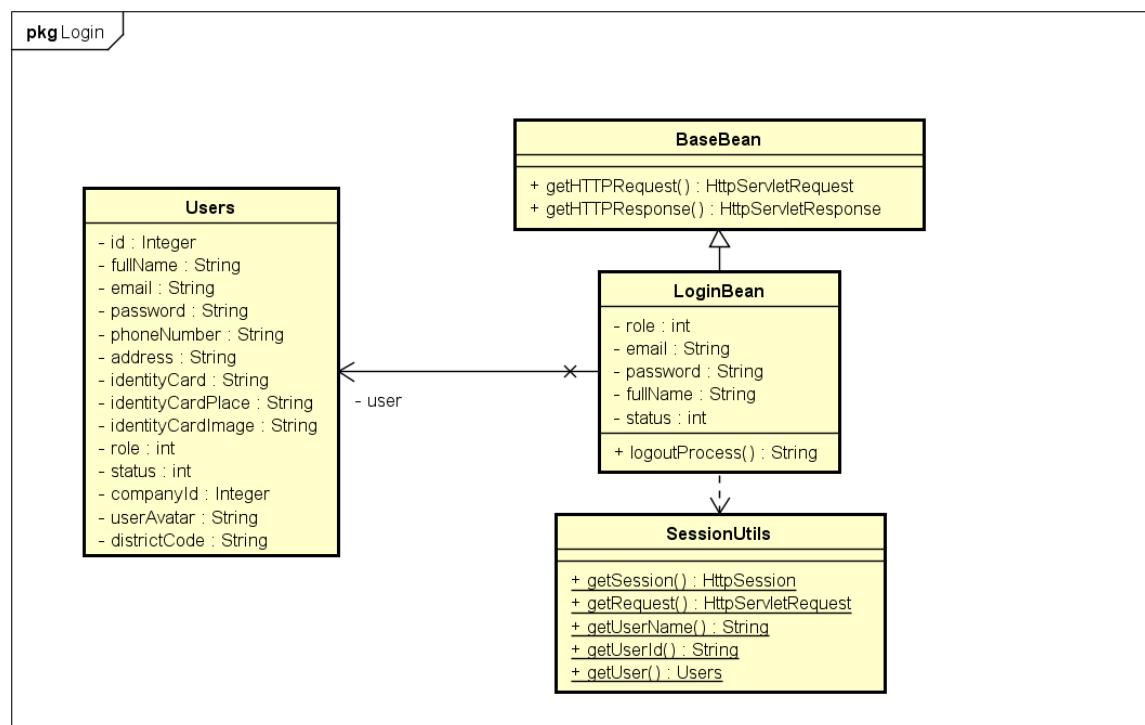
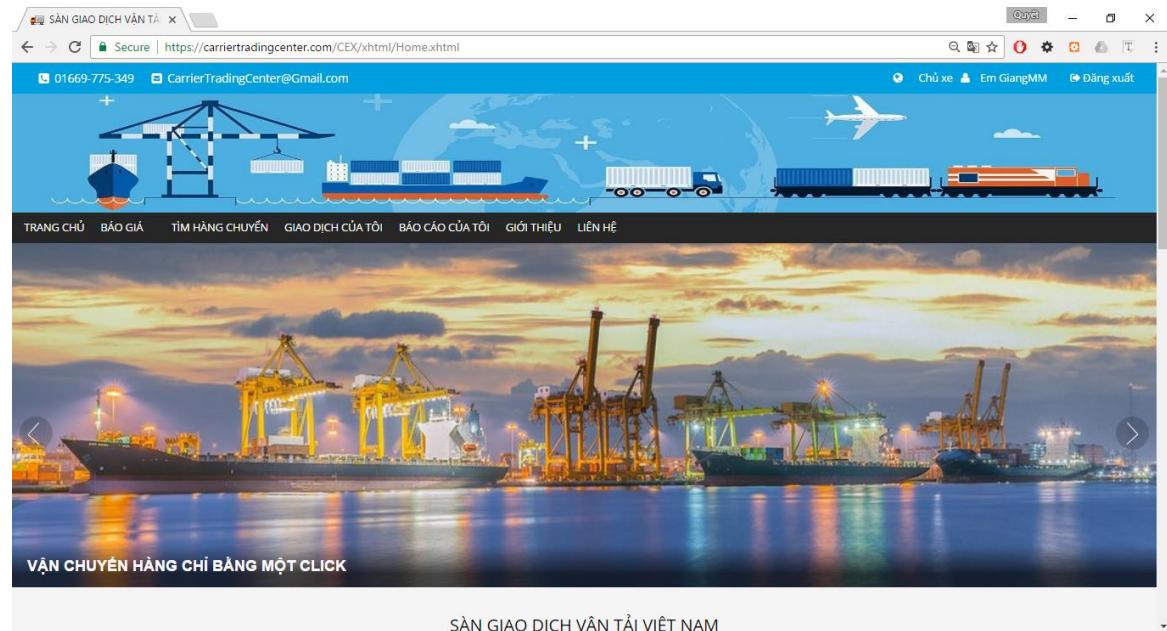


Figure 2.2-92 Logout Class Diagram

- **Screen Design**



SÀN GIAO DỊCH VẬN TẢI VIỆT NAM

Figure 2.2-93 Logout

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Đăng xuất	logout	commandLink			

- **Sequence Diagram**

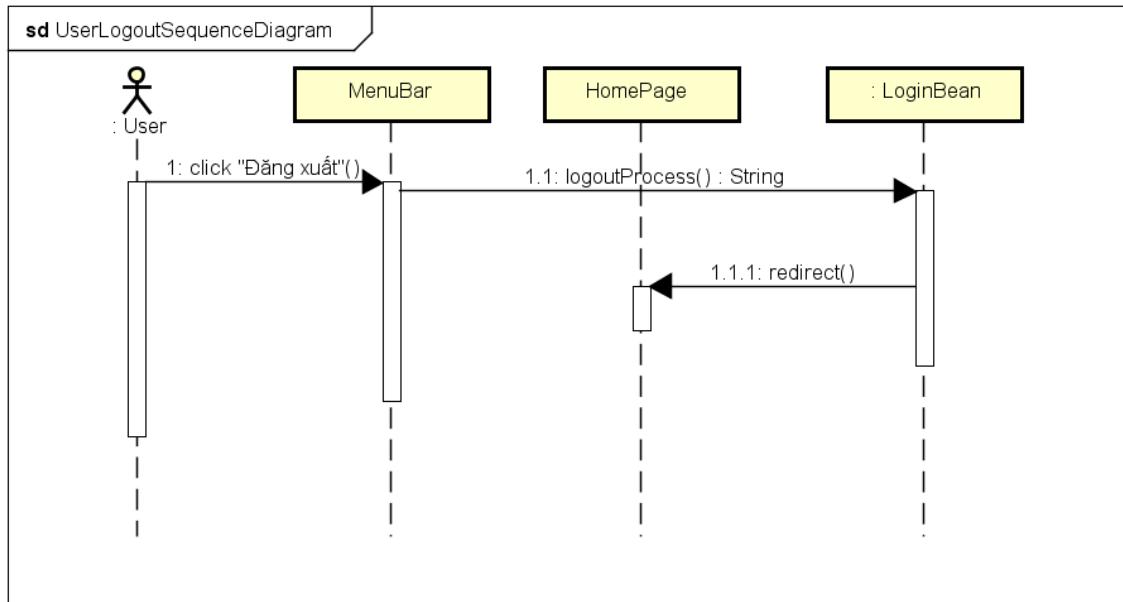


Figure 2.2-94 Logout Sequence Diagram

2.2.29 Admin view transaction history

- Class Diagram

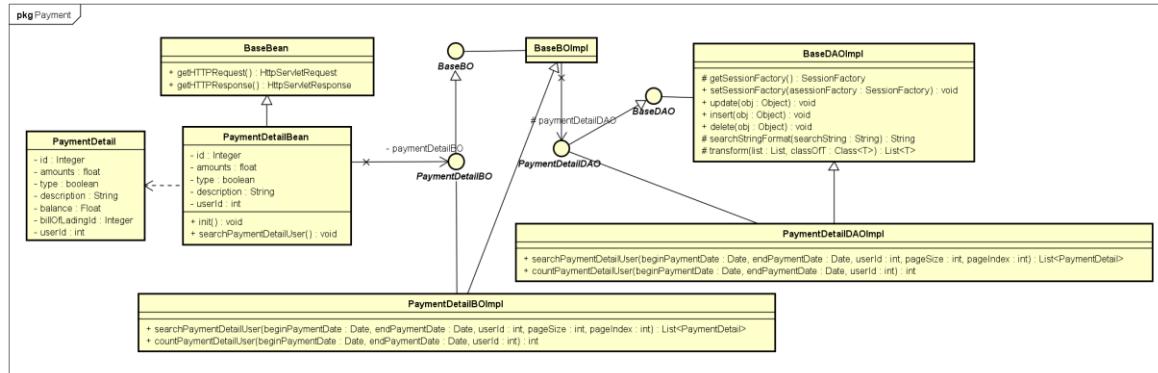


Figure 2.2-95 View Transaction History Class Diagram

- Screen Design

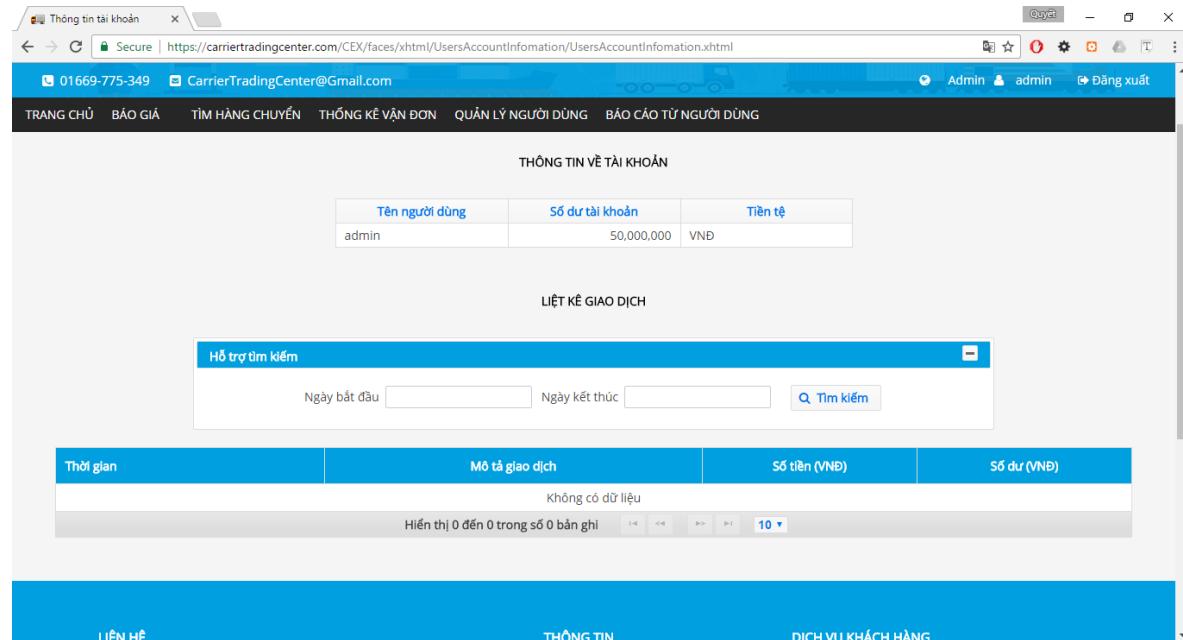


Figure 2.2-96 Payment Detail

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin về tài khoản	accountInformation	panelGrid	Yes		
2	Hỗ trợ tìm kiếm	searchPanel	panel	No		
3	Ngày bắt đầu	departureDate	calendar	No		
4	Ngày kết thúc	arrivalDate	calendar	No		
5	Tìm kiếm	search	commandButton			

6	Liệt kê giao dịch	tablePaymentDetail	dataTable			
---	-------------------	--------------------	-----------	--	--	--

- Sequence Diagram

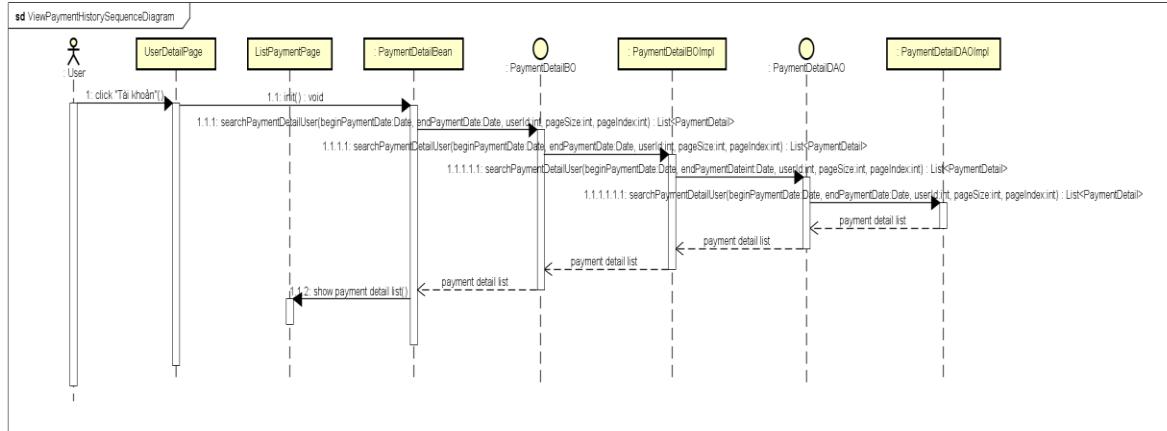


Figure 2.2-97 View Transaction History Sequence Diagram

2.2.30 Admin view price table history

- Class Diagram

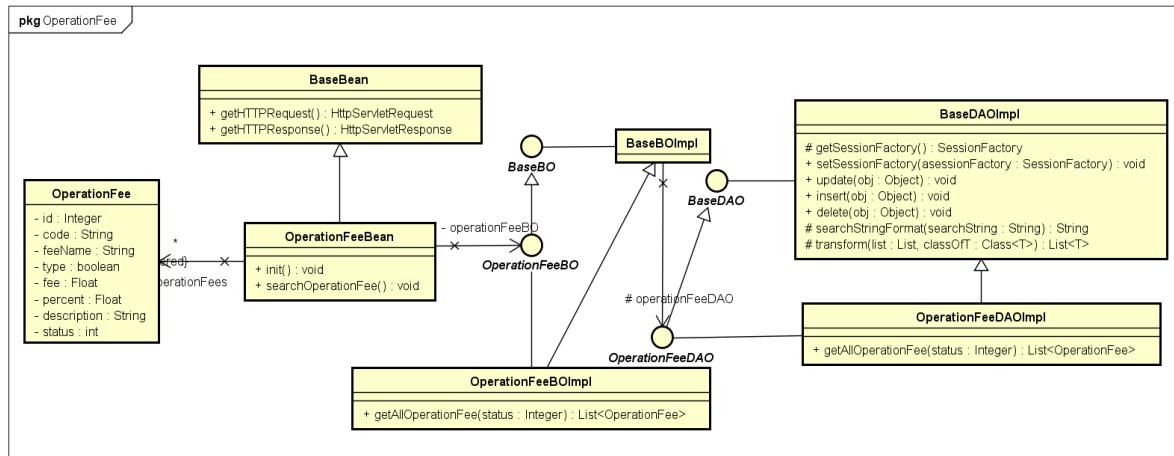


Figure 2.2-98 View Price Table History Class Diagram

- Screen Design

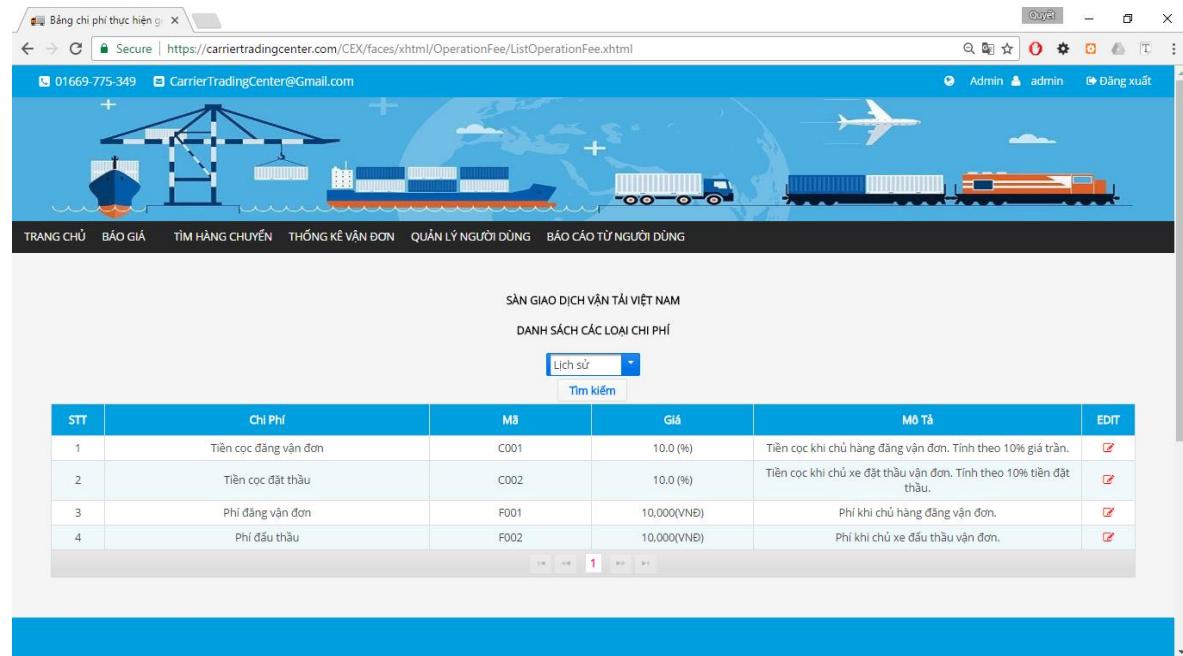


Figure 2.2-99 History Price

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Search condition		selectOneMenu			
2	Tìm kiếm	search	commandButton			
3	Danh sách các loại chi phí	feeDataTable	dataTable			

- Sequence Diagram

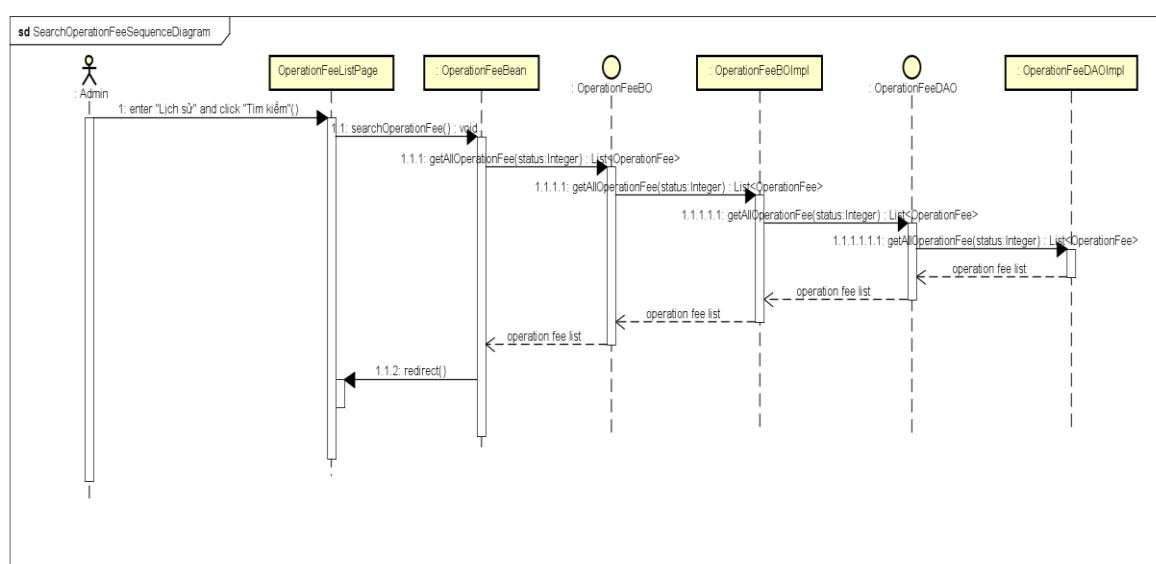


Figure 2.2-100 History price Sequence Diagram

2.2.31 Admin recharge for user

- Class Diagram

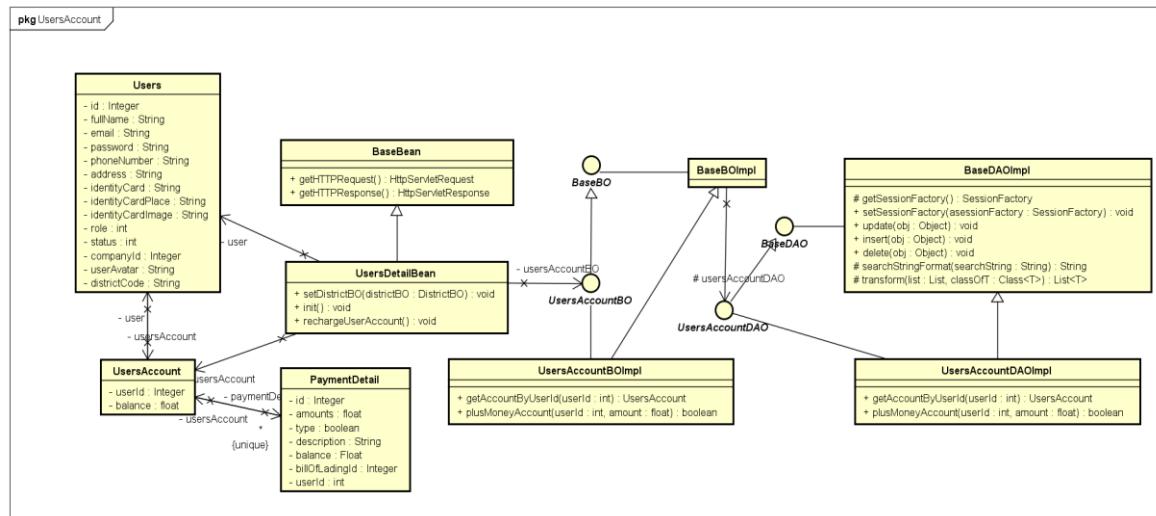


Figure 2.2-101 Account Recharge Class Diagram

- Screen Design

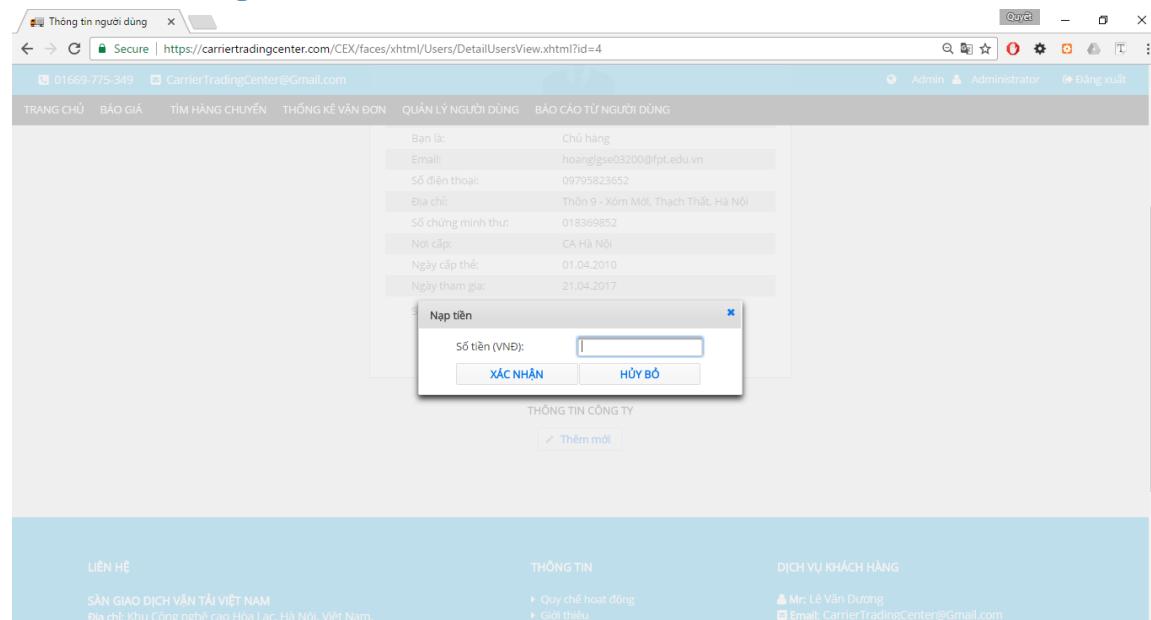


Figure 2.2-102 Recharger Account

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Số tiền(VND)	amount	inputText			
2	Xác nhận	confirm	commandButton			
3	Hủy bỏ	cancel	commandButton			

- Sequence Diagram

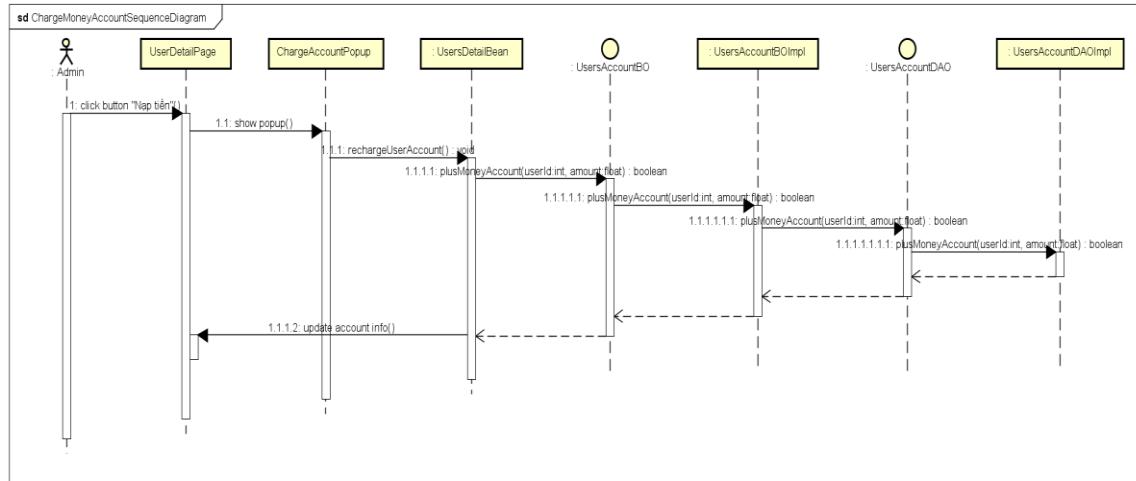


Figure 2.2-103 Recharge Account Sequence Diagram

2.2.32 Admin add company information

- Class Diagram

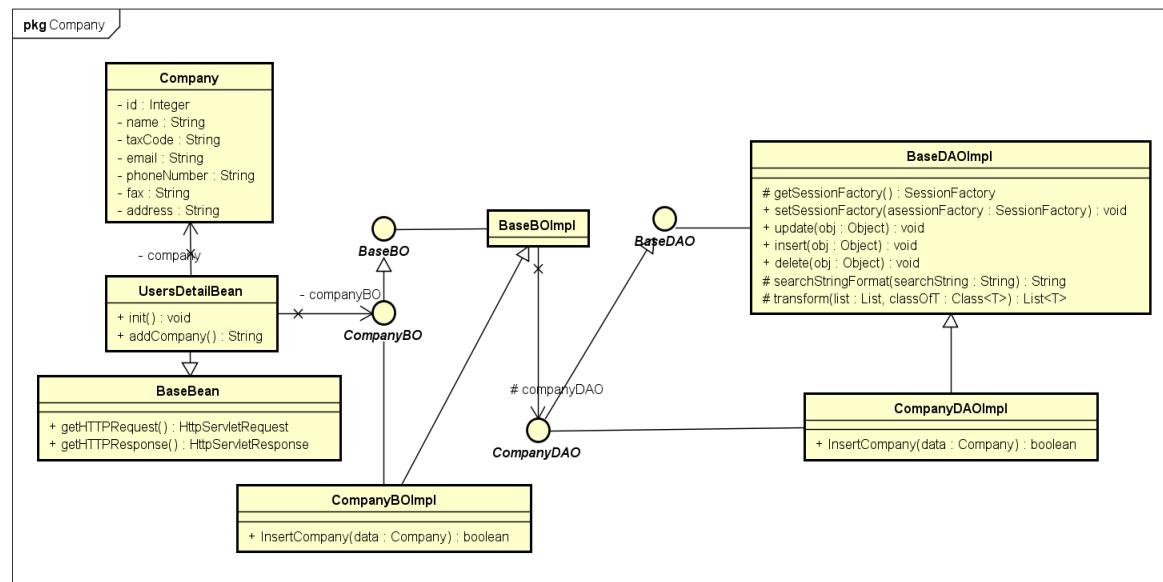


Figure 2.2-104

• Screen Design

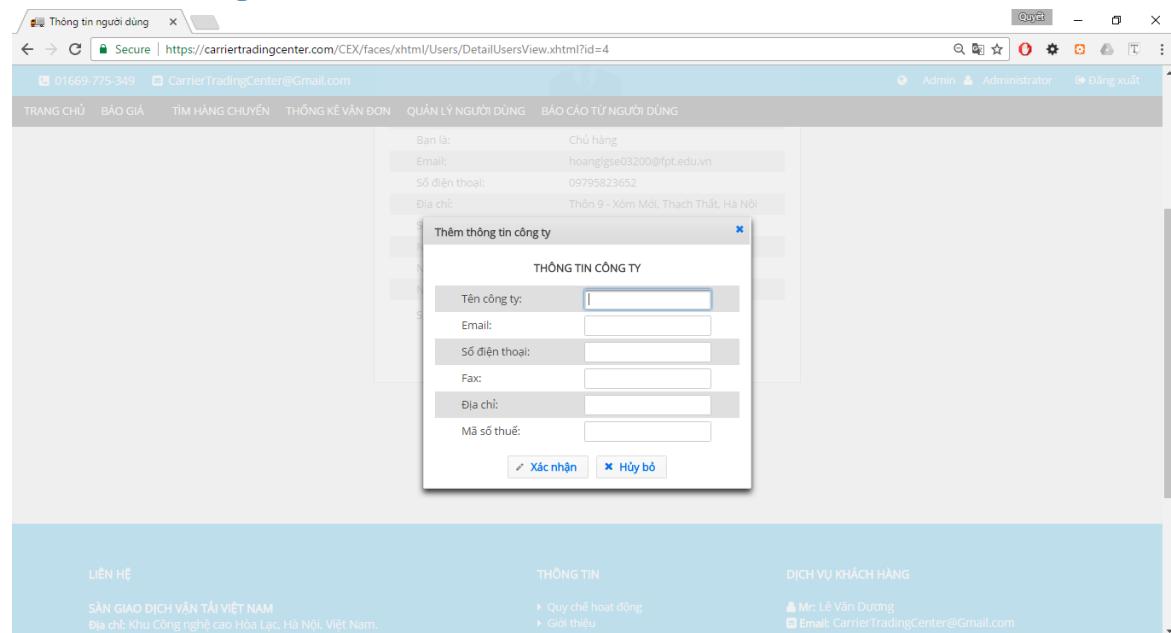


Figure 2.2-105 Add Company Class Diagram

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin công ty	companyInformation	panelGrid			
2	Tên công ty	comapnyName	inputText		100	
3	Email	email	inputText		50	
4	Số điện thoại	phoneNumber	inputText		11	
5	Fax	fax	inputText		20	
6	Địa chỉ	address	inputText		100	
7	Mã số thuế	taxCode	inputText		20	
8	Lưu thay đổi	confirm	commandButton			
9	Hủy bỏ	cancel	commandButton			

- **Sequence Diagram**

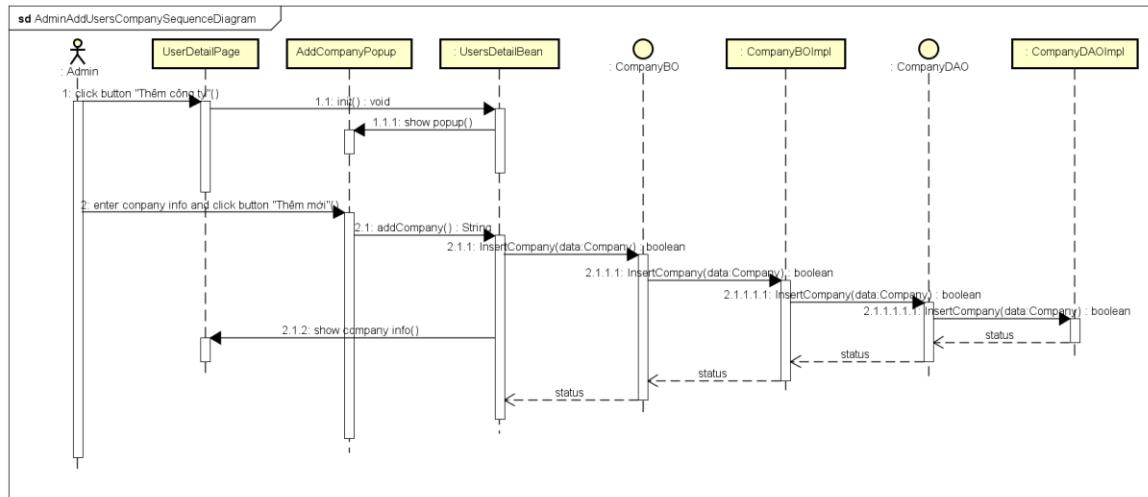


Figure 2.2-106 Add Company Sequence Diagram

2.2.33 Admin edit company information

- **Class Diagram**

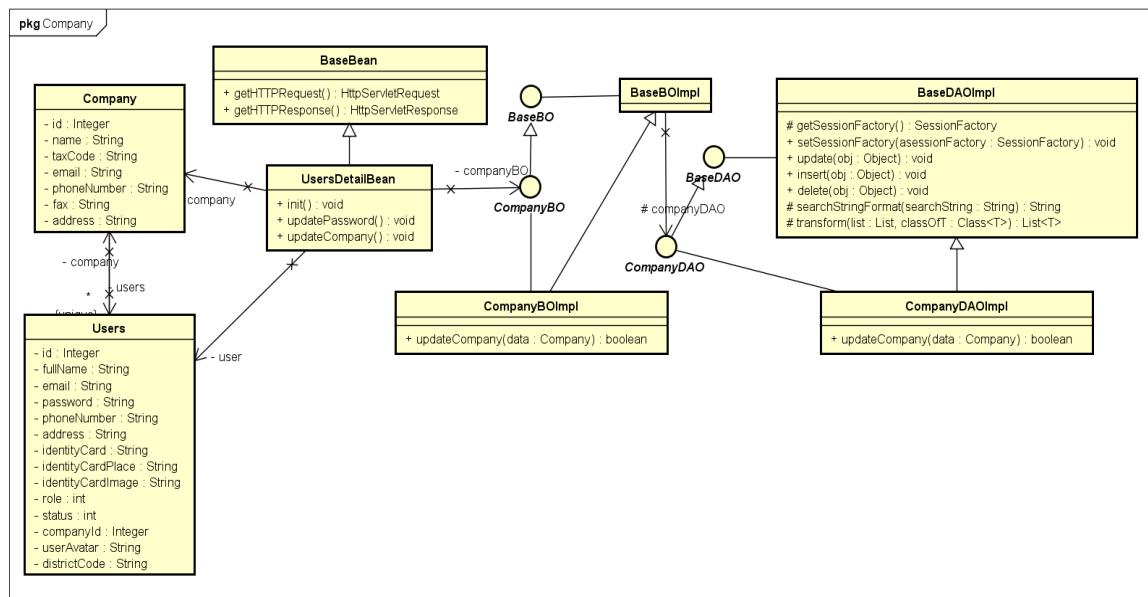


Figure 2.2-107 Edit Company Information's Class Diagram

2.2.34 Admin view profile

- Class Diagram

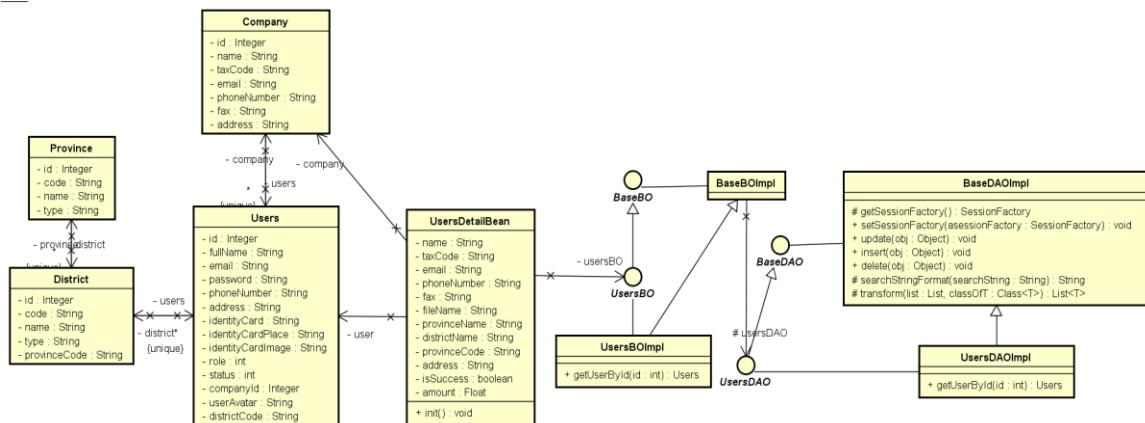


Figure 2.2-108 View Profile Class Diagram

- Screen Design

2.2.34.1.1 Case does not Exist Company Information

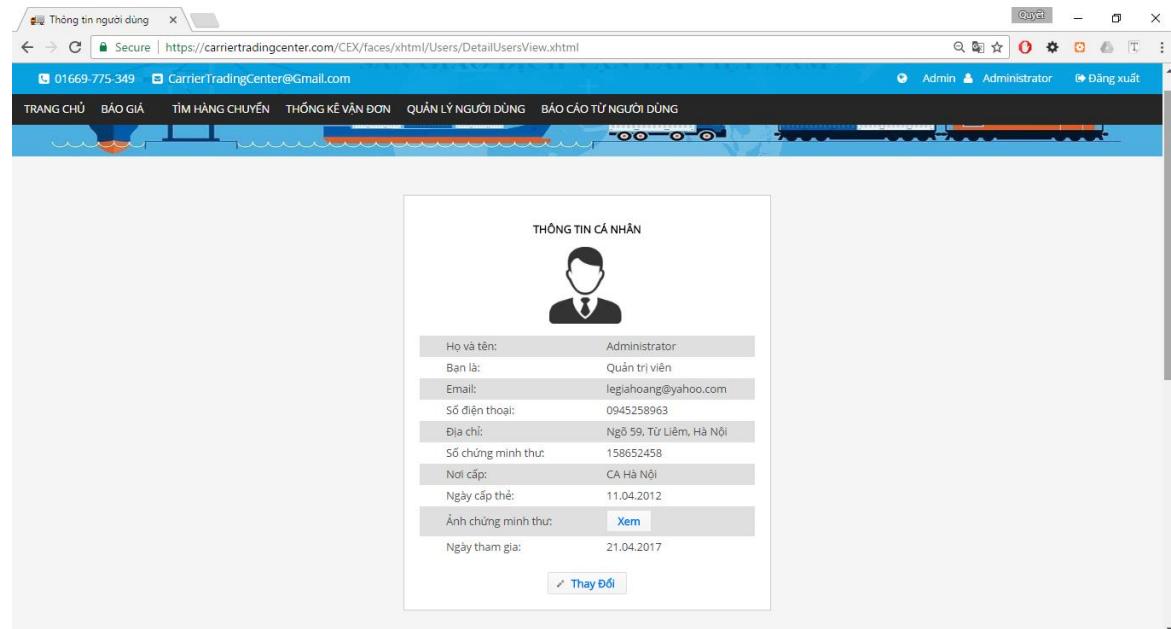
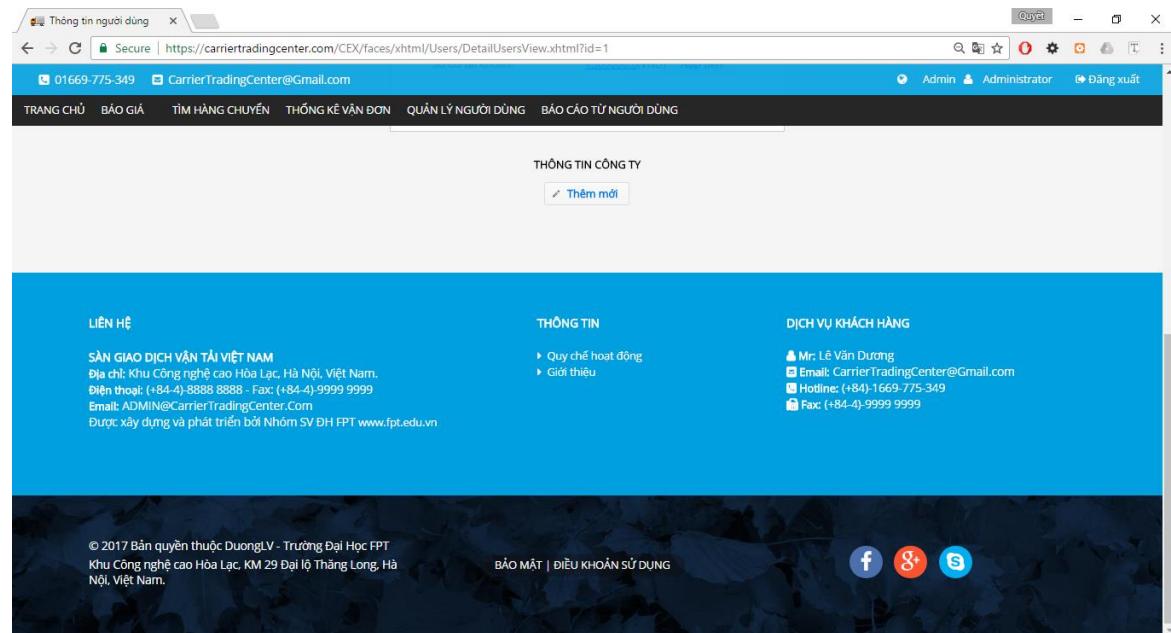


Figure 2.2-109 Profile (part 1)



No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin cá nhân	userDeatilInformation	panelGrid	Yes		
2	Thông tin công ty	companyInformation	panelGrid	No		
	Thay đổi		commandButton			
	Thêm thông tin công ty.		commandButton			

2.2.34.1.2 Case Exist Company Information

THÔNG TIN CÁ NHÂN

Họ và tên: Administrator
 Bạn là: Quản trị viên
 Email: legiahoang@yahoo.com
 Số điện thoại: 0945258963
 Địa chỉ: Ngõ 59, Từ Liêm, Hà Nội
 Số chứng minh thư: 158652458
 Nơi cấp: CA Hà Nội
 Ngày cấp thẻ: 11.04.2012
 Ánh chứng minh thư: [Xem](#)
 Ngày tham gia: 21.04.2017
[Thay đổi](#)

Figure 2.2-110 Profile (part 1)

THÔNG TIN CÔNG TY

Tên công ty: Fpt Software
 Email: fsoft@fpt.com.vn
 Số điện thoại: 8437683683
 Fax: 1-843-683-683
 Địa chỉ: Km 28 Đại Lộ Thăng Long
 Mã số thuế: 0107812558
[Thay đổi](#)

LIÊN HỆ

SÀN GIAO DỊCH VẬN TẢI VIỆT NAM
 Địa chỉ: Khu Công nghệ cao Hòa Lạc, Hà Nội, Việt Nam.
 Điện thoại: (+84-4)-8888 8888 - Fax: (+84-4)-9999 9999
 Email: ADMIN@CarrierTradingCenter.Com
 Được xây dựng và phát triển bởi Nhóm SV DH FPT www.fpt.edu.vn

THÔNG TIN

Quy chế hoạt động
 Giới thiệu

DỊCH VỤ KHÁCH HÀNG

Mr. Lê Văn Dương
 Email: CarrierTradingCenter@gmail.com
 Hotline: (+84)-1669-775-349
 Fax: (+84-4)-9999 9999

Figure 2.2-111 Profile (part 2)

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin cá nhân	userDeatilInformation	panelGrid	Yes		
2	Thông tin công ty	companyInformation	panelGrid	No		
3	Thay đổi		commandButton			

4	Thay đổi	commandButton			
---	----------	---------------	--	--	--

- Sequence Diagram

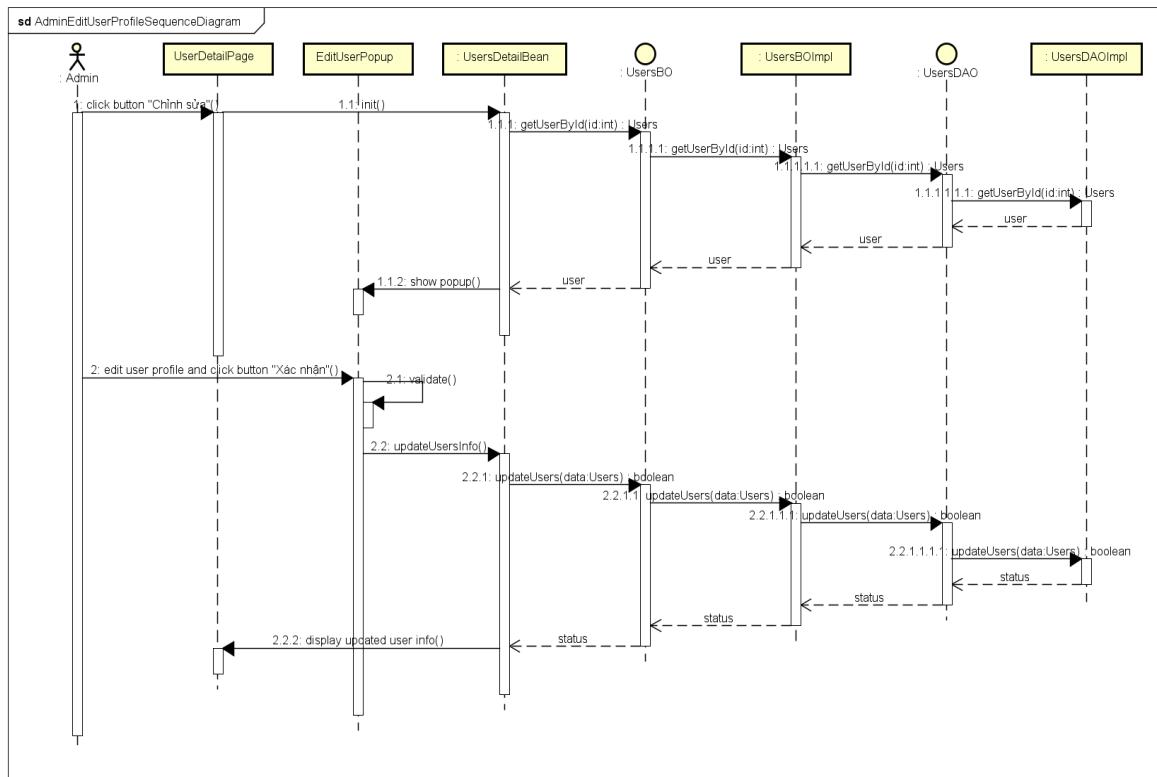


Figure 2.2-112 User Profile Sequence Diagram

- Screen Design

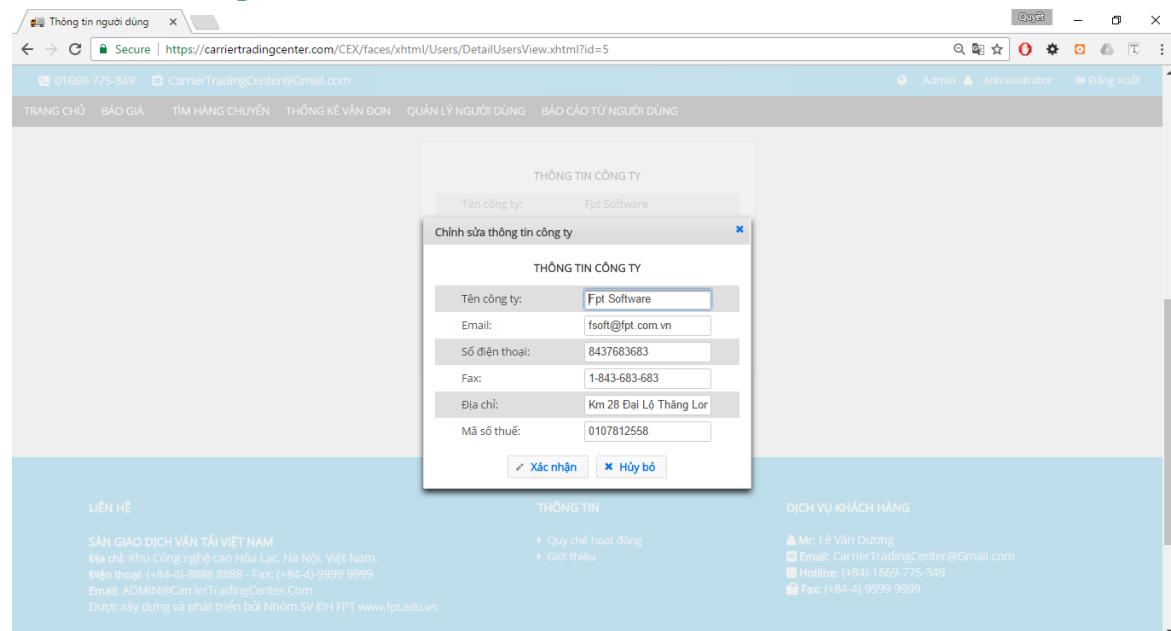


Figure 2.2-113 Edit Company Information's

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin công ty	companyInformation	panelGrid			
2	Tên công ty	comapnyName	inputText		100	
3	Email	email	inputText		50	
4	Số điện thoại	phoneNumber	inputText		11	
5	Fax	fax	inputText		20	
6	Địa chỉ	address	inputText		100	
7	Mã số thuế	taxCode	inputText		20	
8	Lưu thay đổi	confirm	commandButton			
9	Hủy bỏ	cancel	commandButton			

- Sequence Diagram

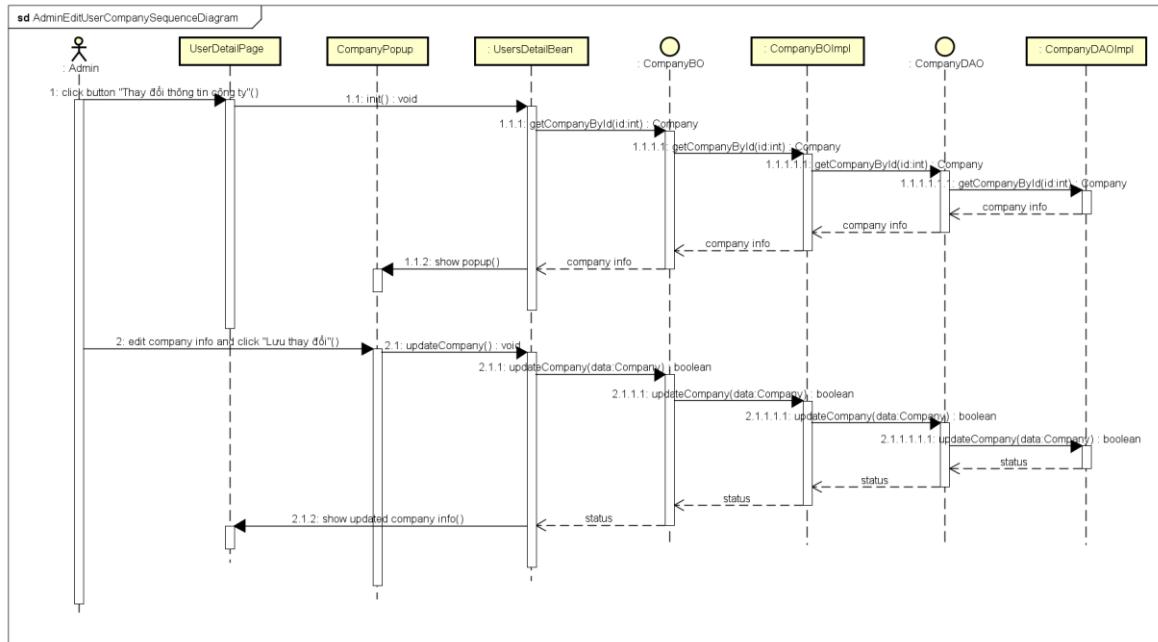


Figure 2.2-114 Edit Company Information's Sequence Diagram

2.2.35 Admin edit profile

- Class Diagram

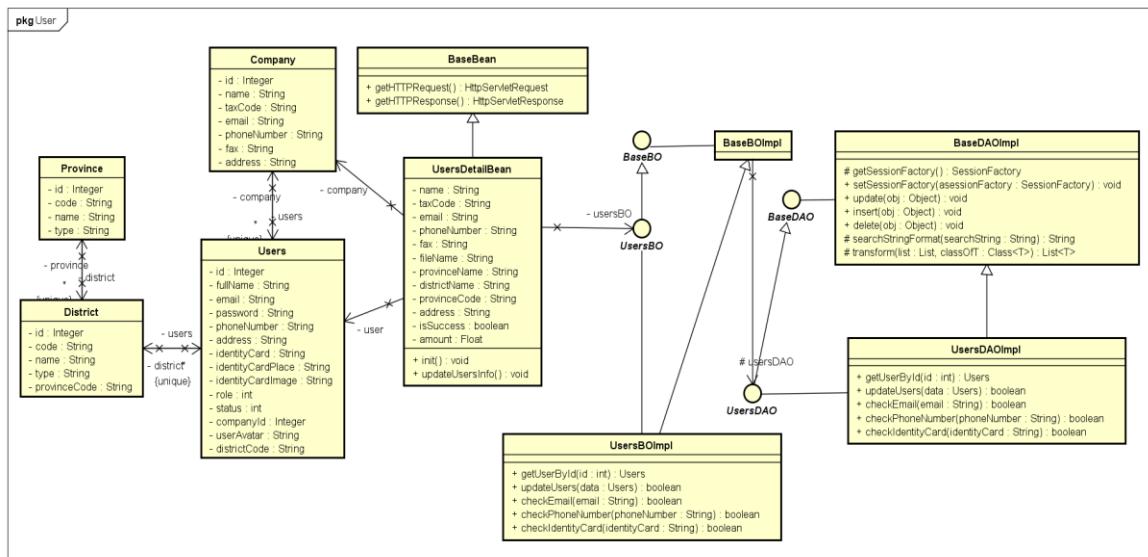


Figure 2.2-115 Edit User Profile Class Diagram

- Screen Design

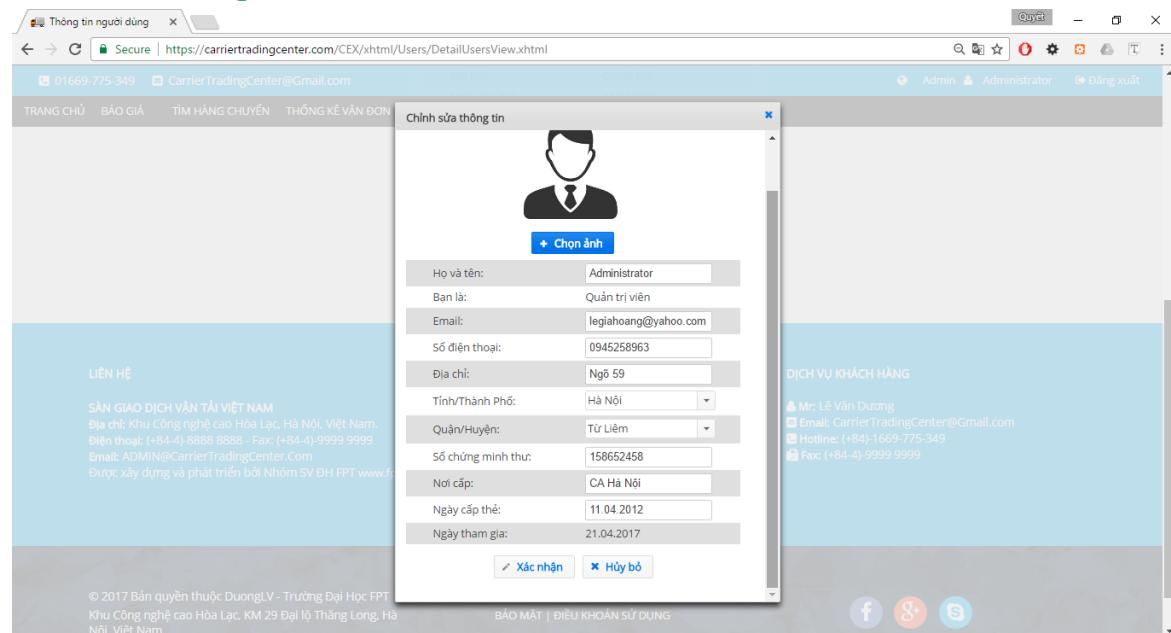


Figure 2.2-116 Edit User Profile

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	avatar	avatar	graphicImage			
2	Chọn ảnh	chooseImg	fileUpload			
3	Họ và tên	fullName	inputText			
4	Bạn là	role	outputable			
5	Email	email	inputText			
6	Số điện thoại	phoneNumber	inputText			
7	Địa chỉ	address	inputText			
8	Tỉnh/Thành phố	province	selectOneMenu			
9	Quận/Huyện	district	selectOneMenu			
10	Số chứng minh thư	identityCard	inputText			
11	Nơi cấp	identityCardPlace	inputText			
12	Ngày cấp	identityCardDate	inputText			
13	Ngày tham gia	dateCreate	outputable			
14	Lưu thay đổi	save	commandButton			
15	Hủy bỏ	cancel	commandButton			

- Sequence Diagram

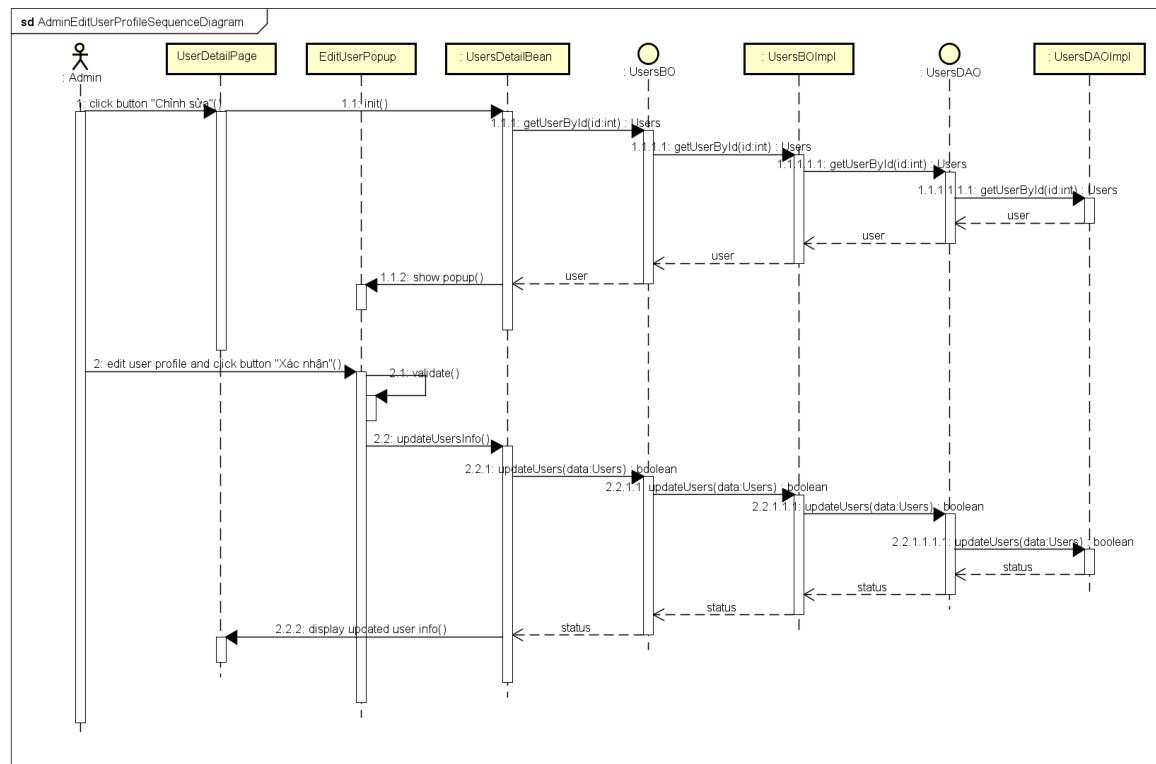


Figure 2.2-117 Edit User Profile Sequence Diagram

2.2.36 Admin reference price

- Class Diagram

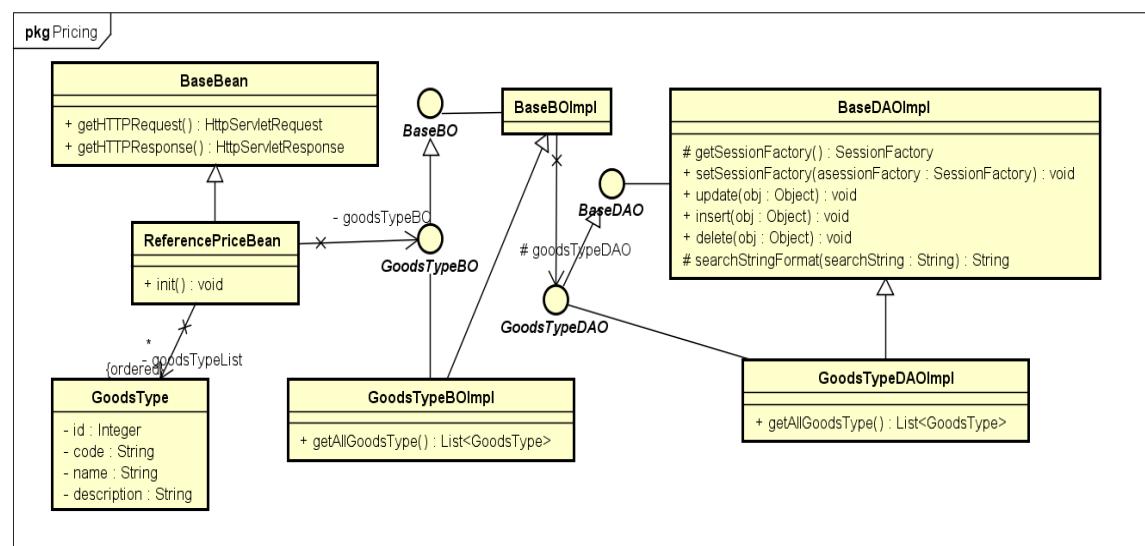


Figure 2.2-118 View Reference Price Class Diagram

- Screen Design

STT	Loại hàng	Khối lượng	Quảng đường	Giá tham chiếu (VND)
1	Bàn ghế/giường tú	100 (kg)	10 (km)	10,000
2	Đồ uống	100 (kg)	10 (km)	10,000
3	Động vật	100 (kg)	10 (km)	10,000
4	Hàng điện tử	100 (kg)	10 (km)	10,000
5	Hóa chất	100 (kg)	10 (km)	10,000
6	Hoá quả	100 (kg)	10 (km)	10,000
7	Kim loại - nguyên liệu	100 (kg)	10 (km)	10,000
8	Máy móc - cơ khí	100 (kg)	10 (km)	10,000
9	Sức khỏe - làm đẹp	100 (kg)	10 (km)	10,000
10	Thể thao	100 (kg)	10 (km)	10,000
11	Thực phẩm khô	100 (kg)	10 (km)	10,000
12	Thực phẩm tươi	100 (kg)	10 (km)	10,000
13	Văn phòng phẩm	100 (kg)	10 (km)	10,000
14	Vật liệu xây dựng	100 (kg)	10 (km)	10,000

Dưới đây là bảng giá cước tham khảo theo mặt bằng chung của các đơn vị vận tải hàng hóa tham gia trên hệ thống sàn giao dịch vận tải.

Figure 2.2-119 Reference Price (part 1)

H.C.M	Từ 100 - 500 kg	Từ 500 - 1.000 kg	Từ 1.000 đến 2.5 tấn	Từ 2.5 đến 5 tấn	Từ 5 đến 10 tấn	Từ 10 đến 20 tấn	Từ 20 đến 30 tấn	Từ 30 đến 40 tấn	Ghi chú
	Cần Thơ	650	600	550	500	450	380	300	225.000
Vũng Tàu	650	600	550	500	450	380	300	225.000	165.000
Tiền Giang	850	600	600	550	500	380	300	225.000	165.000
Vĩnh Long	850	600	600	550	500	380	300	225.000	165.000
Nha Trang	1.500	1.000	850	800	750	700	650	270.000	225.000
Gia Lai	1.500	1.000	850	800	750	700	650	270.000	225.000
An Giang	1.500	1.000	850	800	750	700	650	270.000	225.000
Bình Thuận	1.500	1.000	850	800	750	700	650	270.000	225.000
Ninh Thuận	1.500	1.000	850	800	750	700	650	270.000	225.000
Cà Mau	1.500	1.000	850	800	750	750	750	320.000	270.000
Kiên Giang	1.500	1.000	850	800	750	750	750	320.000	270.000
Bạc Liêu	1.500	1.000	850	800	750	750	750	320.000	270.000
Sóc Trăng	1.500	1.000	850	800	750	750	750	320.000	270.000
Đăk Lăk	1.500	1.000	850	800	750	750	750	320.000	270.000

HÀ NỘI	500 – 1.000 (Kg)	1.000 – 2.500 (Kg)	2.500 (Kg)	lên (Kg)	5.000 – 10.000 (Kg)	10.000 (Kg)	trở lên
Hải Phòng	1100	800	600	500	350		
Lai Châu	3300	2800	2300	2100	1900		
Điện Biên	4.000	3.000	2.500	2.300	2.100		
Sơn La	3.000	2.500	1.900	1.700	1.500		
Hòa Bình	1.100	800	600	500	400		
Hà Giang	2.000	1.700	1.500	1.300	1.200		
Cao Bằng	2.000	1.700	1.500	1.300	1.200		
Lào Cai	2.000	1.700	1.500	1.300	1.200		

Figure 2.2-120 Reference Price (part 2)

HA NOI	500 – 1.000 (Kg)	1.000 – 2.500 (Kg)	2.500 trở lên (Kg)	5.000 – 10.000 (Kg)	10.000 (Kg) trở lên
Hải Phòng	1100	800	600	500	350
Lai Châu	3300	2800	2.300	2.100	1.900
Điện Biên	4.000	3.000	2.500	2.300	2.100
Sơn La	3.000	2.500	1.900	1.700	1.500
Hòa Bình	1.100	800	600	500	400
Ha Giang	2.000	1.700	1.500	1.300	1.200
Cao Bằng	2.000	1.700	1.500	1.300	1.200
Lào Cai	2.000	1.700	1.500	1.300	1.200
Yên Bái	1.600	1.200	900	800	700
Tuyên Quang	1.400	1.100	800	700	600
Bắc Kạn	1.600	1.200	900	800	700
Thái Nguyên	900	700	500	400	350
Lang Sơn	1.600	1.200	900	800	700
Việt Trì	1.100	800	600	500	400
Bắc Giang	1.200	900	700	600	500
Hà Giang	1.600	1.200	900	800	700
Vĩnh Phúc	700	500	400	350	300

Lưu ý: Bảng giá trên mang tính chất tham khảo

Figure 2.2-121 Reference Price (part 3)

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Bảng giá tham chiếu chi phí vận chuyển	goodsTypeList	dataTable			
2	Bảng giá cước vận chuyển hàng hóa đường bộ từ TP.HCM đi các tỉnh		graphicImage			
3	Bảng giá cước vận chuyển hàng hóa đường bộ từ Hà Nội đi các tỉnh		graphicImage			

• Sequence Diagram

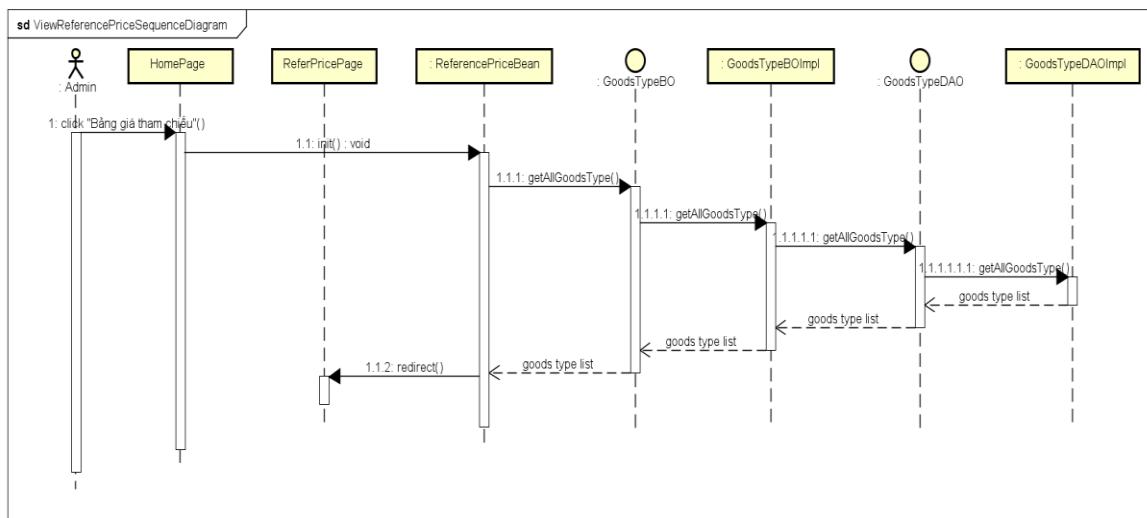


Figure 2.2-122 View Reference Price Sequence Diagram

2.2.37 Goods owner view list bill of lading

• Class Diagram

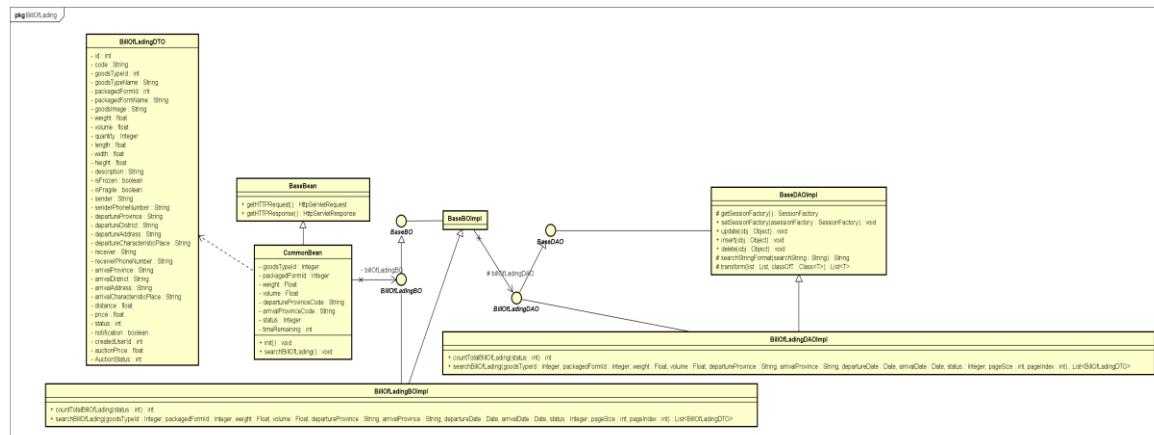


Figure 2.2-123 Goods Owner View List Bills of Lading

- **Screen Design**

SẢN GIAO DỊCH VẬN TẢI

Secure | https://carriertradingcenter.com/CEX/faces/xhtml/BillOfLading/Common.xhtml

01669-775-349 CarrierTradingCenter@Gmail.com

Chủ hàng Gia Hoàng Đăng xuất

SẢN GIAO DỊCH VẬN TẢI VIỆT NAM

TRANG CHỦ BÁO GIÁ TÌM HÀNG CHUYỂN GIAO DỊCH CỦA TÔI TẠO VĂN ĐƠN BÁO CÁO CỦA TÔI GIỚI THIỆU LIÊN HỆ

Loại hàng: -lựa chọn- Hình thức đóng gói: -lựa chọn- Khối lượng < (kg) Thể tích < (m³)

Địa điểm đi: -lựa chọn- Địa điểm đến: -lựa chọn- Thời gian chuyền: Thời gian nhận:

DANH SÁCH ĐƠN HÀNG

STT	Hình ảnh	Loại hàng	Hình thức đóng gói	Lộ trình	Khối lượng	Thể tích	Thời gian còn lại	Giá tham chiếu	XEM
1		Đồ uống	Thùng cát tông	Sơn Đồng, Bắc Giang - Tiền Hải, Thái Bình 04.05.2017 22:30:33 - 19.05.2017 22:30:33	12000.0 (kg)	100.0 (m ³)	19 ngày	50,000,000 (VND)	
2		Đồng vật	Thùng gỗ	Kim Bảng, Hà Nam - Đăk Đoa, Gia Lai 05.05.2017 22:30:33 - 19.05.2017 22:30:33	21000.0 (kg)	200.0 (m ³)	21 ngày	20,000,000 (VND)	
3		Hàng điện tử	Cuộn	Kim Bảng, Hà Nam - Đăk Đoa, Hà Nội 05.05.2017 22:30:33 - 20.05.2017 22:30:33	3200.0 (kg)	100.0 (m ³)	19 ngày	20,000,000 (VND)	

Figure 2.2-124 List Bills of Lading

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Loại Hàng	goodTypeId	selectOneMenu	No		
2	Hình thức đóng gói	packageFormId	selectOneMenu	No		
3	Khối lượng	weight	inputText	No		

4	Thể tích	volume	inputText	No		
5	Địa điểm đi	slbDepartureProvinceID	selectOneMenu	No		
6	Địa điểm đến	slbArrivalProvinceID	selectOneMenu	No		
7	Thời gian đi	departureDate	calendar	No		
8	Thời gian đến	arrivalDate	calendar	No		
9	Tìm kiếm	search	commandButton			
10	Danh sách đơn hàng	table_billoflading	dataTable			

- Sequence Diagram

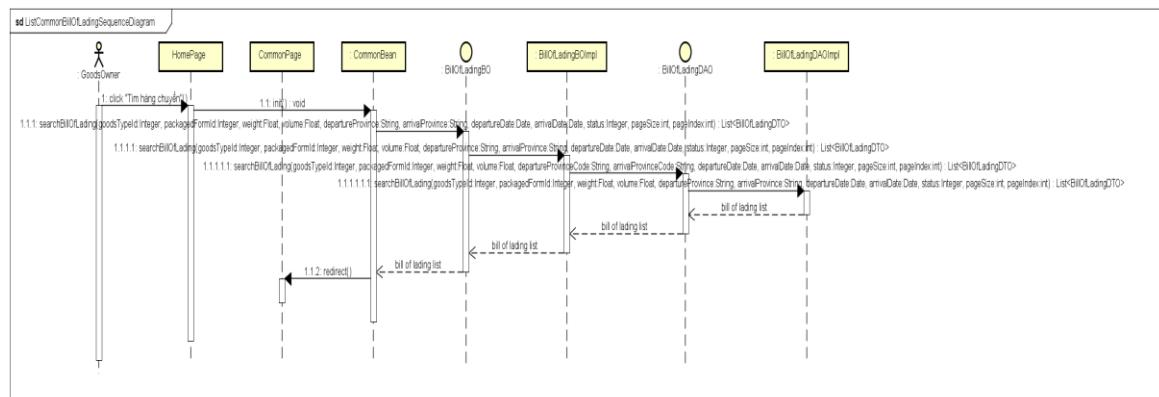


Figure 2.2-125 List Bill of Lading Sequence Diagram

2.2.38 Goods owner view detail bill of lading

- **Class Diagram**

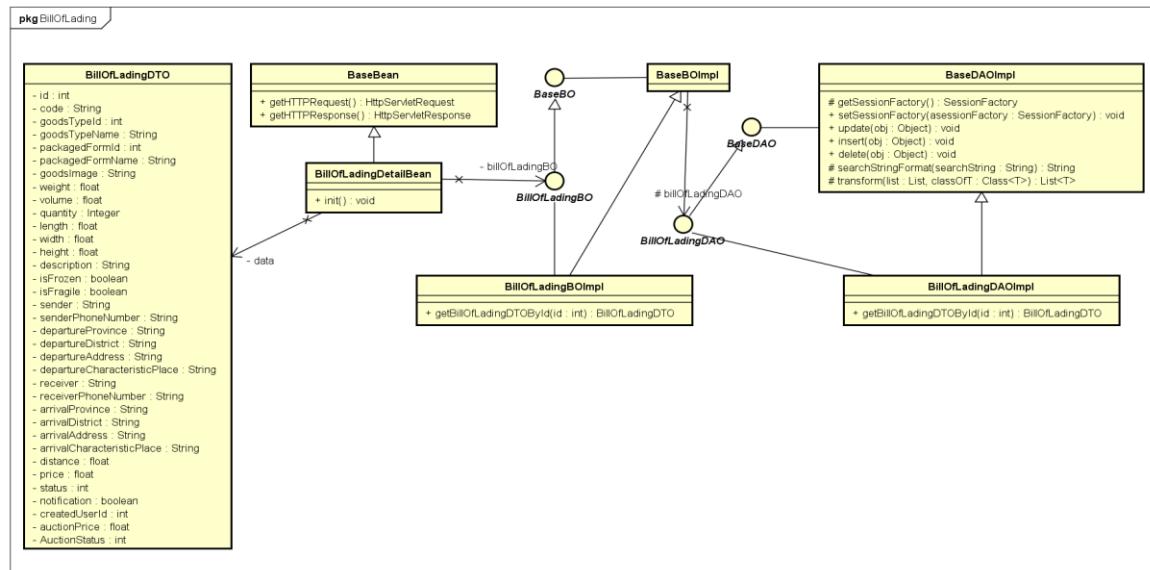


Figure 2.2-126 Detail Bills of Lading

- **Screen Design**

2.2.38.1.1 Owned

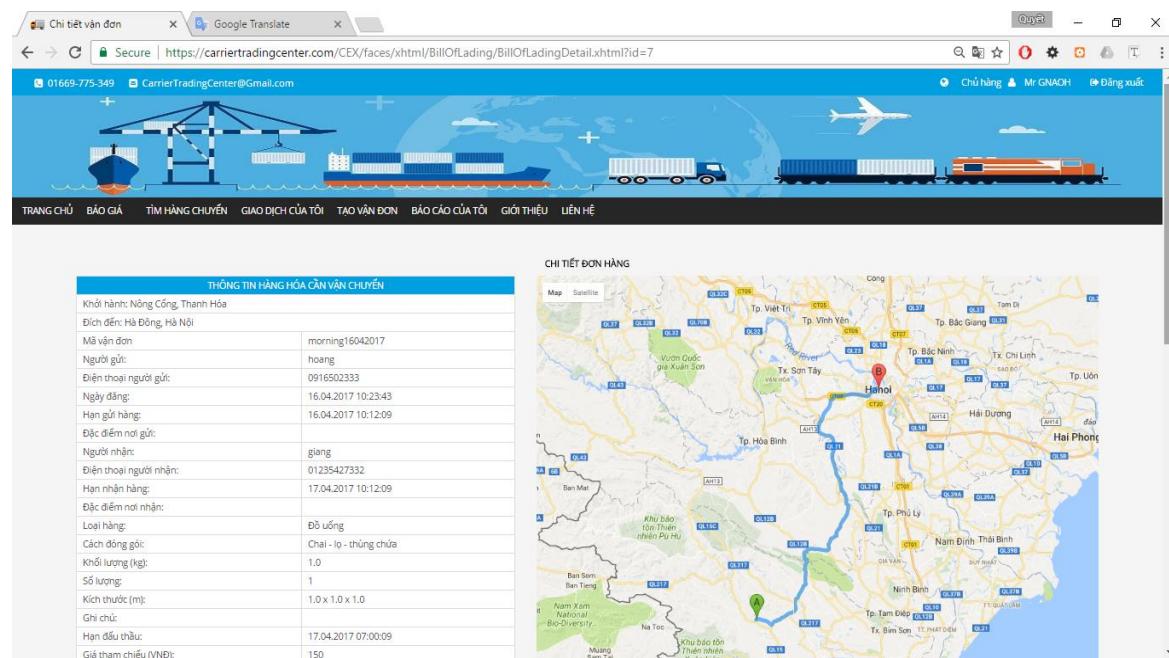


Figure 2.2-127 Detail Bills of Lading (part 1)

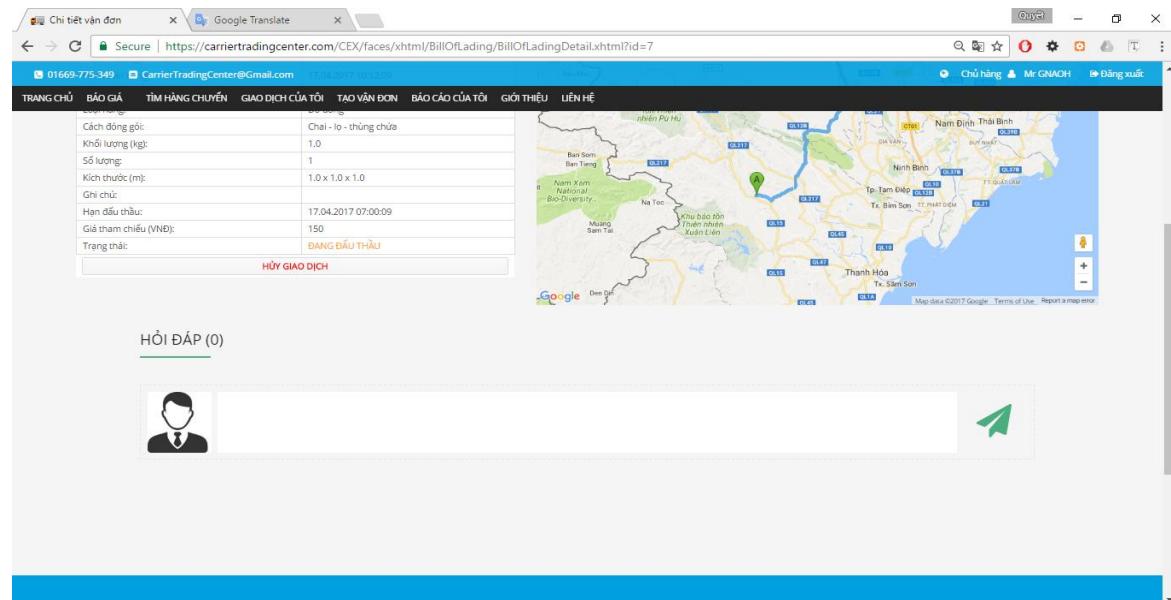


Figure 2.2-128 Detail Bills of Lading (part 2)

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin hàng hóa cần vận chuyển	goodInformation	selectOneMenu			
2	Google Map	map	javaScript			
3	Hủy giao dịch	cancelBillOfLading	commandButton			
4	Hỏi đáp		panelGroup			

2.2.38.1.2 Other

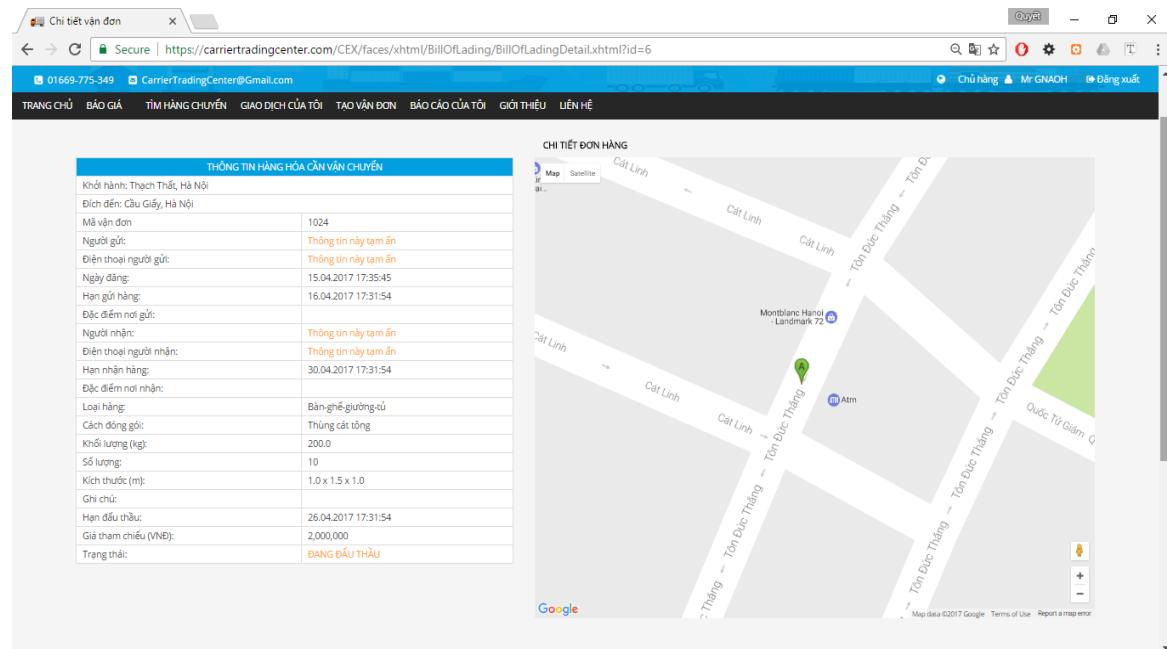


Figure 2.2-129 Detail Bills of Lading

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin hàng hóa cần vận chuyển	goodInformation	selectOneMenu			
2	Google Map	map	javaScript			

• Sequence Diagram

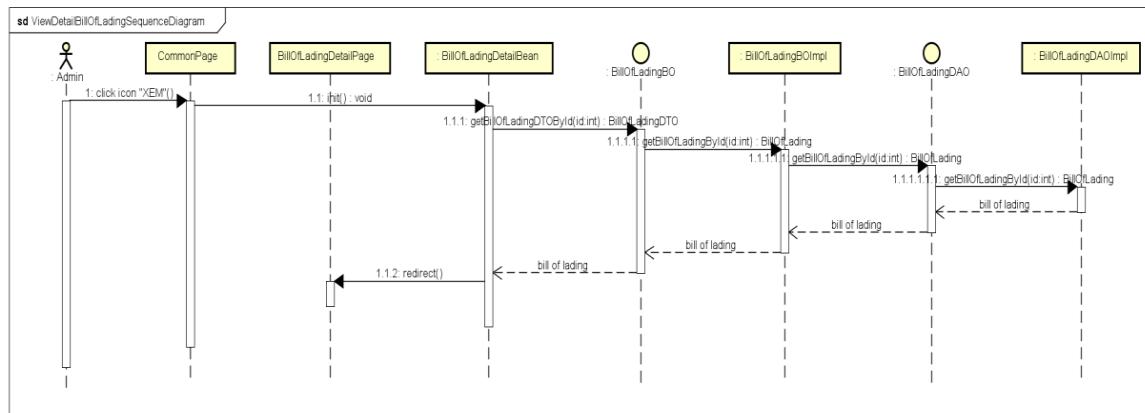


Figure 2.2-130 Detail Bills of Lading Sequence Diagram

2.2.39 Goods owner search bill of lading

- **Class Diagram**

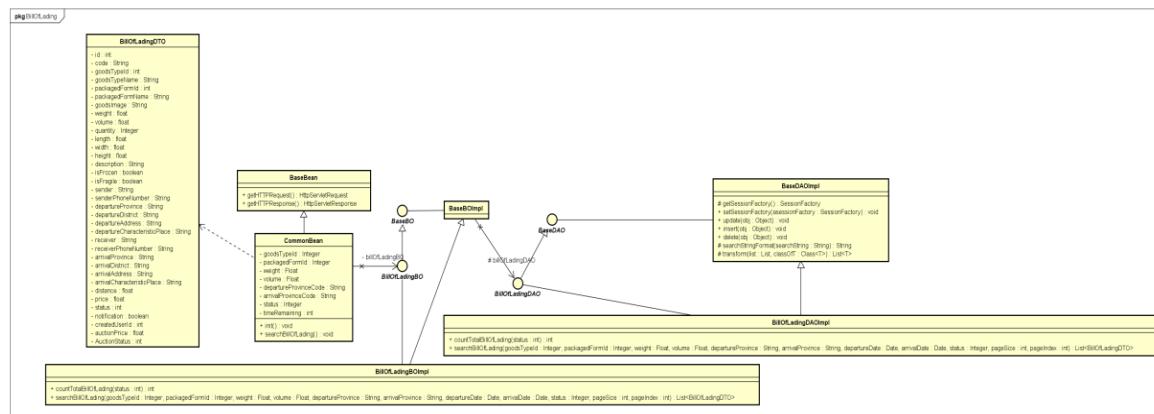


Figure 2.2-131 Search Bill of Lading class Diagram

• Screen Design

SẢN GIAO DỊCH VĂN TÀI

Secure | https://carriertradingcenter.com/CEX/faces/xhtml/BillOfLading/Common.xhtml

01669-775-349 CarrierTradingCenter@Gmail.com

Chủ hàng Mr GNACH Đăng xuất



Trang chủ

TRANG CHỦ BÁO GIÁ TÌM HÀNG CHUYỂN GIAO DỊCH CỦA TÔI TẠO VĂN ĐƠN BÁO CÁO CỦA TÔI GIỚI THIỆU LIÊN HỆ

SẢN GIAO DỊCH VĂN TÀI VIỆT NAM

Loại hàng	–lựa chọn–	Hình thức đóng gói	–lựa chọn–	Khối lượng <	(kg)	Thể tích <	(m ³)
Địa điểm đi	–lựa chọn–	Địa điểm đến	–lựa chọn–	Thời gian đi		Thời gian đến	

Tìm kiếm

DANH SÁCH ĐƠN HÀNG

STT	Hình ảnh	Loại hàng	Hình thức đóng gói	Lô trình	Khối lượng	Thể tích	Thời gian còn lại	Giá tham chiếu	XEM
1		Bàn-ghế-giường-tủ	Thùng cát tông	Thạch Thất, Hà Nội - Cầu Giẽ, Hà Nội 16.04.2017 17:31:54 - 30.04.2017 17:31:54	200.0 (kg)	1.5 (m ³)	10 ngày	2,000,000 (VNĐ)	
2		Đồ uống	Chai - lọ - thùng chứa	Nông Cống, Thanh Hóa - Huyện Đông, Hà Nội 16.04.2017 10:12:09 - 17.04.2017 10:12:09	1.0 (kg)	1.0 (m ³)	09:00:38	150 (VNĐ)	
3		Thực phẩm khô	Thùng cát tông	Nông Cống, Thanh Hóa - Tú Liêm, Hà Nội 16.04.2017 10:33:47 - 22.04.2017 10:33:47	1.0 (kg)	1.0 (m ³)	3 ngày	200 (VNĐ)	

Hiển thị 1 đến 3 trong số 3 bản ghi

Figure 2.2-132 Search Bills of Lading

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Loại Hàng	goodTypeId	selectOneMenu	No		
2	Hình thức đóng gói	packageFormId	selectOneMenu	No		
3	Khối lượng	weight	inputText	No		
4	Thể tích	volume	inputText	No		
5	Địa điểm đi	slbDepartureProvinceID	selectOneMenu	No		

6	Địa điểm đến	slbArrivalProvinceID	selectOneMenu	No		
7	Thời gian đi	departureDate	calendar	No		
8	Thời gian đến	arrivalDate	calendar	No		
9	Tìm kiếm	search	commandButton			
10	Danh sách đơn hàng	table_billoflading	dataTable			

- Sequence Diagram

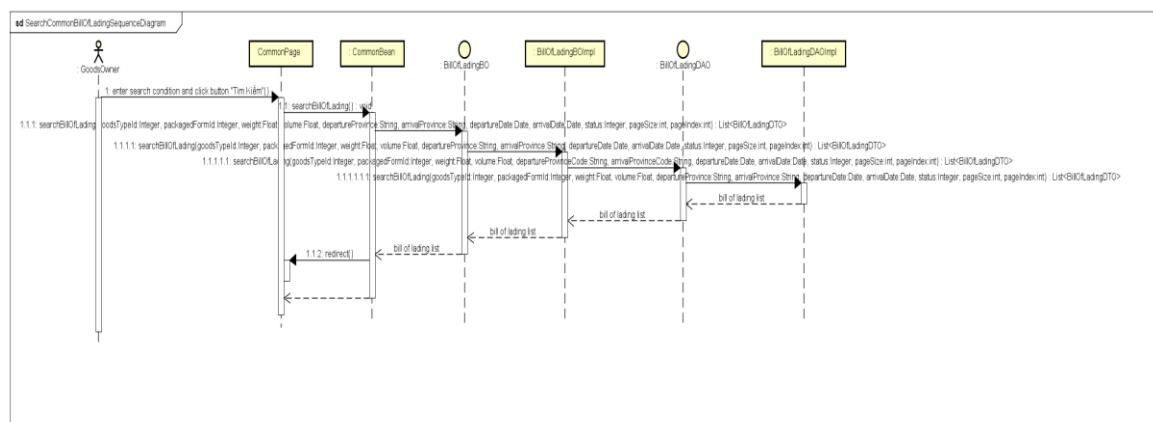


Figure 2.2-133 Search Bill of Lading Sequence Diagram

2.2.40 Goods owner view carrier auction success

- Class Diagram

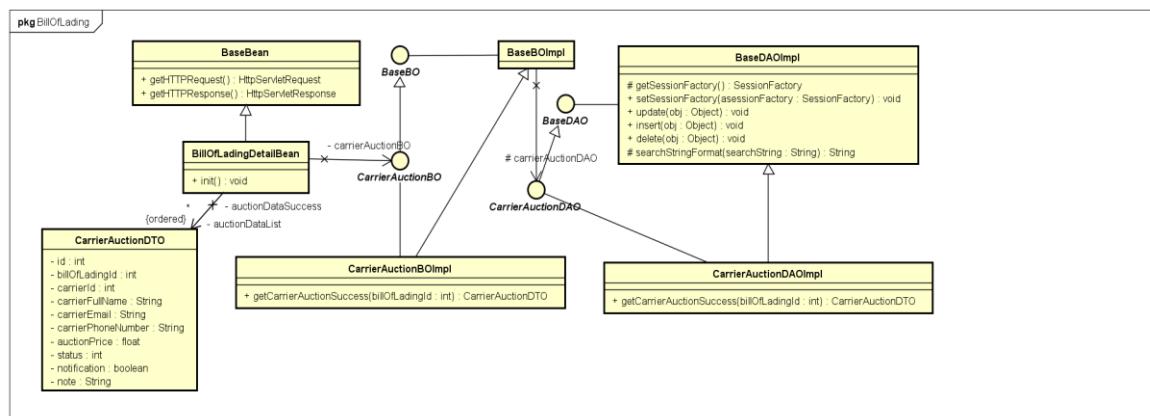


Figure 2.2-134 View Auction Success Class Diagram

• Screen Design

The screenshot shows a web-based application for managing shipping documents. At the top, there is a navigation bar with links for 'Chi tiết vận đơn', 'Secure', '01669-775-349', 'CarrierTradingCenter@gmail.com', 'Quay lại', and 'Đóng'. The main content area is divided into several sections:

- Thông tin hàng:** A table with fields like 'Hạn gửi hàng:', 'Địa điểm nơi gửi:', 'Người nhận:', 'Điện thoại người nhận:', 'Hạn nhận hàng:', 'Địa điểm nơi nhận:', 'Loại hàng:', 'Cách đóng gói:', 'Khối lượng (kg):', 'Số lượng:', 'Kích thước (m):', 'Ghi chú:', 'Hạn đấu thầu:', 'Giá tham chiếu (VND):', and 'Trạng thái: ĐẦU THẦU THÀNH CÔNG'.
- MAP:** A map of Vietnam showing major cities like Ho Chi Minh City, Vung Tau, and Phan Thiet, along with rivers and roads.
- Thông tin nhà thầu:** A table with fields for 'Tên nhà thầu:', 'Email:', 'Số điện thoại:', and 'Giá đấu thầu (VND)'.
- HỎI ĐÁP (0):** A section for questions and answers.

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin hàng hóa cần vận chuyển	goodInformation	selectOneMenu			
2	Google Map	map	javaScript			
3	Hủy giao dịch	cancelBillOfLading	commandButton			
4	Hỏi đáp		panelGroup			

• Sequence Diagram

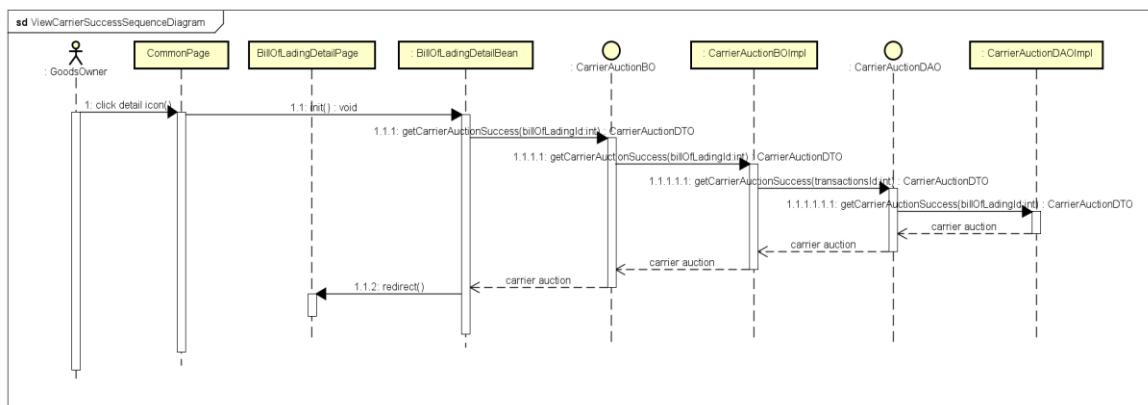


Figure 2.2-135 View Auction Success Sequence Diagram

2.2.41 Goods owner view transaction history

- Class Diagram

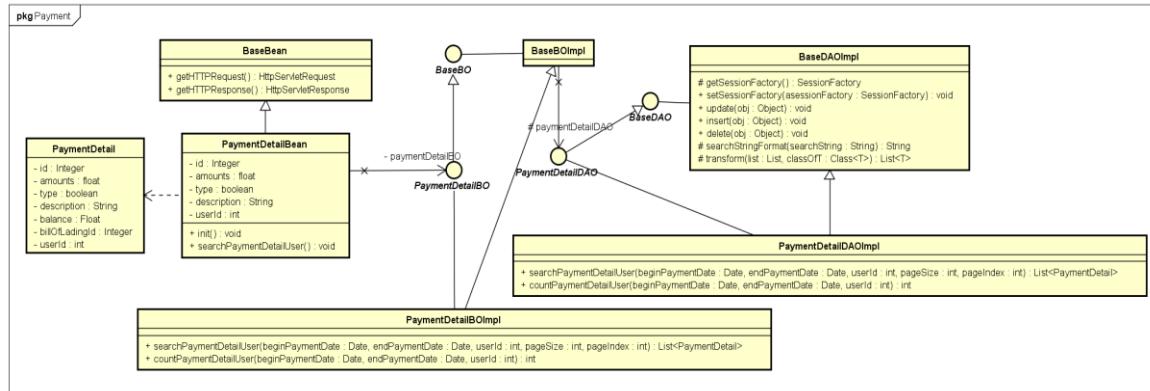


Figure 2.2-136 View Transaction History Class Diagram

- Screen Design

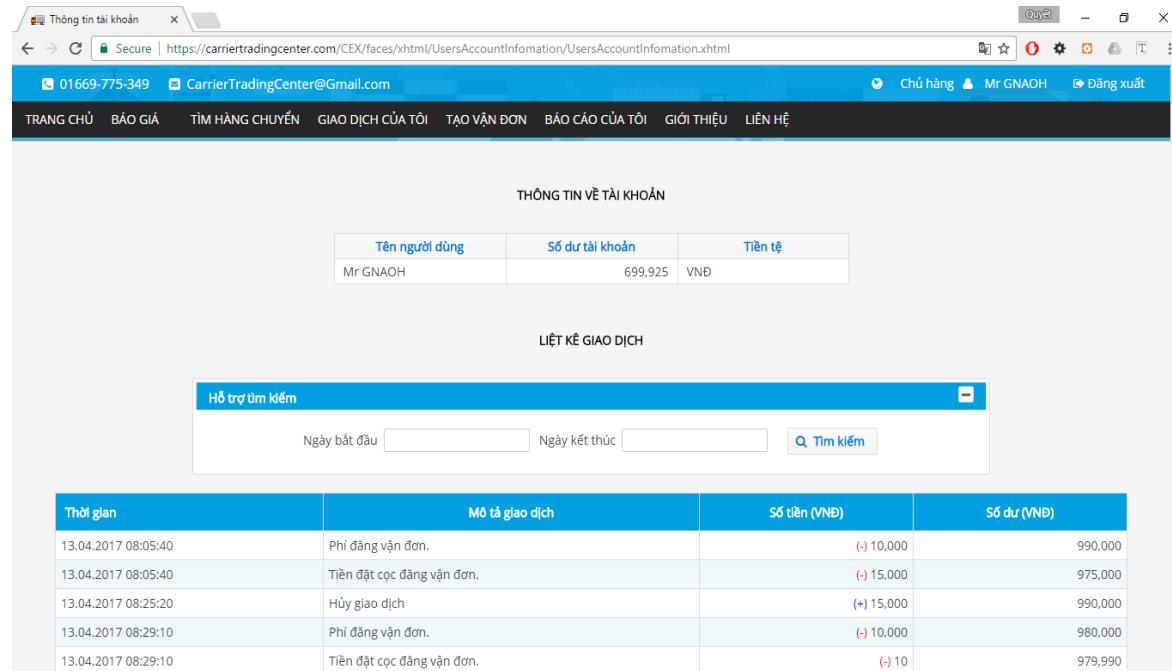


Figure 2.2-137 Payment Detail

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin về tài khoản	accountInformation	panelGrid	Yes		
2	Hỗ trợ tìm kiếm	searchPanel	panel	No		
3	Ngày bắt đầu	departureDate	calendar	No		
4	Ngày kết thúc	arrivalDate	calendar	No		
5	Tìm kiếm	search	commandButton			

6	Liệt kê giao dịch	tablePaymentDetail	dataTable			
---	-------------------	--------------------	-----------	--	--	--

- Sequence Diagram

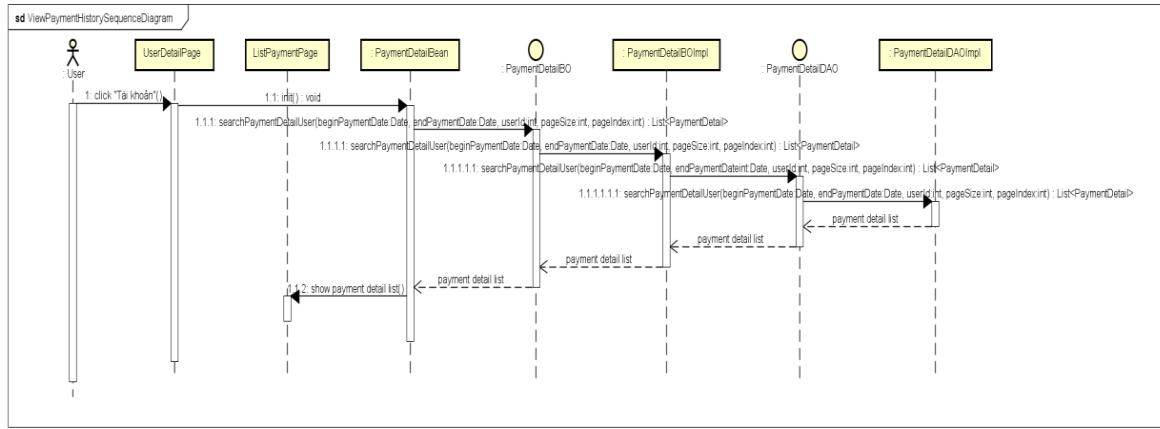


Figure 2.2-138 View Transaction History Sequence Diagram

2.2.42 Goods owner register a new bill of lading

- Class Diagram

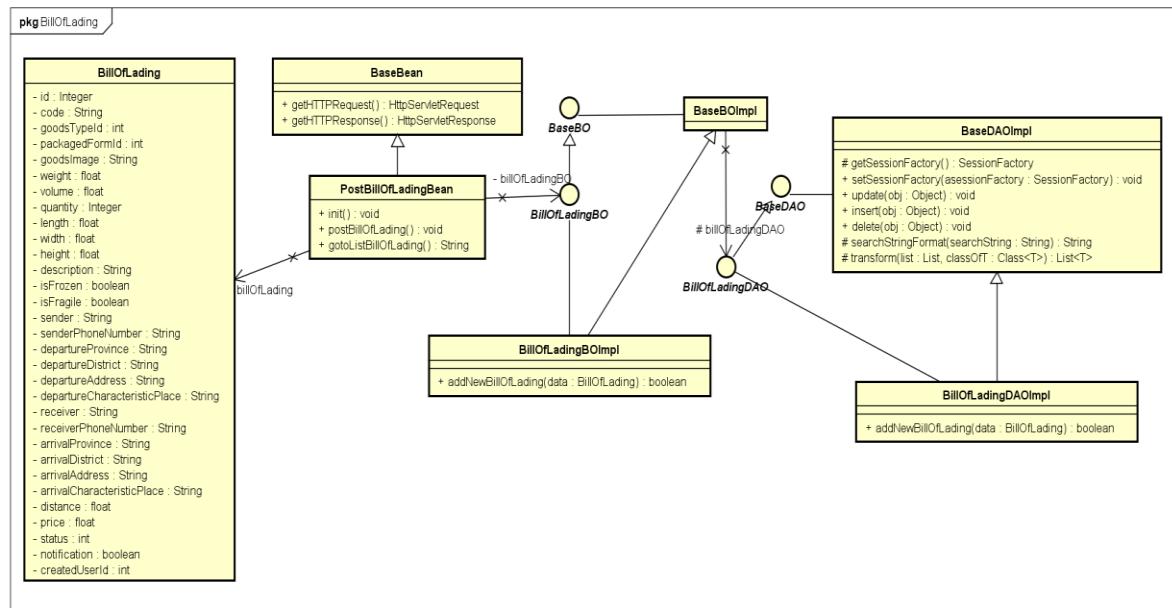


Figure 2.2-139 Register new Bill of Lading

● Screen Design

ĐĂNG HÀNG CẨM CHUYỂN

1 TỔNG QUAN

Mã vận đơn

Loại hàng (*):

Hình thức đóng gói (*):

--lựa chọn--

2 THÔNG TIN LIÊN HỆ

Họ và tên người gửi (*):

Số điện thoại (*):

Phone number

Họ và tên người nhận (*):

Số điện thoại (*):

Phone number

3 THÔNG TIN VẬN CHUYỂN

Địa điểm gửi (*):

Địa điểm nhận (*):

--lựa chọn--

--lựa chọn--

Figure 2.2-140 Post Bill of Lading (part 1)

Địa điểm gửi (*):

Địa điểm nhận (*):

Đi từ quận/huyện (*):

Đến quận/huyện (*):

Địa chỉ nơi gửi (*):

Địa chỉ nơi nhận (*):

Đặc điểm nơi gửi:

Đặc điểm nơi nhận:

Ngày gửi (*):

Ngày nhận (*):

Quãng đường (km) (*):

(km)

4 THÔNG TIN HÀNG HÓA

Figure 2.2-141 Post Bill of Lading (part 2)

4 THÔNG TIN HÀNG HÓA

Khối lượng (kg) (*):

Số lượng:

Dài (*): (m)

Rộng (*): (m)

Cao (*): (m)

Hàng đông lạnh

Hàng dễ vỡ

Hình ảnh:

Mô tả

Map showing northern Vietnam with cities like Hanoi, Haiphong, and Lao Cai.

Figure 2.2-142 Post Bill of Lading (part 3)

5 THÔNG TIN ĐẦU GIÁ

Giá đề xuất (*) (VND): (VND)

Thời gian kết thúc đầu giá (*):

Bạn có thể tham chiếu giá cước vận tải theo từng mặt hàng tại đây!

Figure 2.2-143 Post Bill of Lading (part 4)

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Mã vận đơn	Code	inputText	No	20	
2	Loại hàng	goodsType	selectOneMenu	Yes		
3	Hình thức đóng gói.	packageForm	selectOneMenu	Yes		
4	Họ và tên người gửi	sender	inputText	Yes	50	
5	Số điện thoại	sender PhoneNumber	inputText	Yes	12	
6	Họ và tên người nhận	receiver	inputText	Yes	50	
7	Số điện thoại	receiverPhoneNumber	inputText	Yes	12	

		r				
8	Địa điểm gửi	departureProvince	selectOneMenu	Yes		
9	Địa điểm nhận	arrivalProvince	selectOneMenu	Yes		
10	Đi từ quận/huyện	departureDistrict	selectOneMenu	Yes		
11	Đến quận/huyện	arrivalDistrict	selectOneMenu	Yes		
12	Địa chỉ nơi gửi	departureAddress	inputText	Yes	100	
13	Địa chỉ nơi nhận	arrivalAddress	inputText	Yes	100	
14	Đặc điểm nơi gửi	departureCharacteristicPlace	inputText	No	100	
15	Đặc điểm nơi nhận	arrivalCharacteristicPlace	inputText	No	100	
16	Ngày gửi	departureDate	calendar	Yes		
17	Ngày nhận	arrivalDate	calendar	Yes		
18	Quãng đường	distance	inputNumber	Yes		
19	Khối lượng	weight	inputNumber	Yes		
20	Số lượng	quantity	inputNumber	No		
21	Dài	length	inputNumber	Yes		
22	Rộng	width	inputNumber	Yes		
23	Cao	height	inputNumber	Yes		
24	Hàng đông lạnh	isFrozen	selectBooleanCheck	No		
25	Hàng dễ vỡ	isFragile	selectBooleanCheck	No		
26	Hình ảnh	goodsImage	fileUpload	No	255	
27	Mô tả	description	inputTextarea	No	200	
28	Giá đề xuất	price	inputNumber	Yes		
29	Thời gian kết thúc đấu giá	currentDate	calendar	Yes		
30	Đăng ký		commandButton			
31	Hủy bỏ		commandButton			

- Sequence Diagram

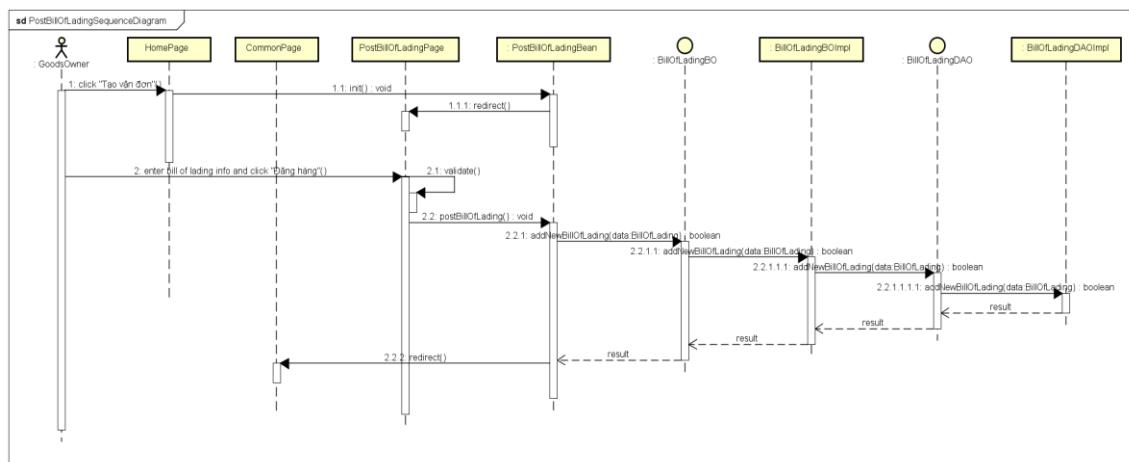


Figure 2.2-144 Post Bill of Lading Sequence Diagram

2.2.43 Goods owner cancel bill of Lading

- **Class Diagram**

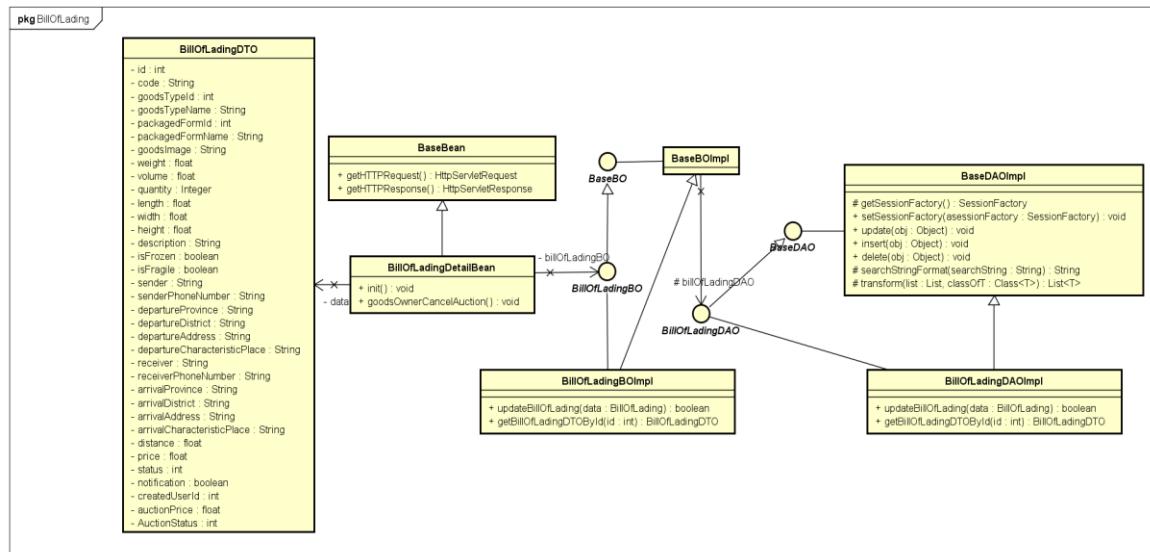


Figure 2.2-145 Cancel Bill of Lading Class Diagram

• Screen Design

Chi tiết vận đơn

Secure | https://carriertradingcenter.com/CEX/faces/xhtml/BillOfLading/BillOfLadingDetail.xhtml?id=7

01669-775-349 CarrierTradingCenter@gmail.com

Chủ hàng Mr GNAOH Đăng xuất

TRANG CHỦ BÁO GIÁ TÌM HÀNG CHUYỂN GIAO DỊCH CỦA TÔI TẠO VẬN ĐƠN BÁO CÁO CỦA TÔI GIỚI THIỆU LIÊN HỆ

Dịch vụ: Hà Đông, Hà Nội

Mã vận đơn	morning16042017
Người gửi:	hoang
Điện thoại người gửi:	0916502333
Ngày đăng:	16.04.2017 10:23:43
Hạn gửi hàng:	16.04.2017 10:12:09
Địa điểm nơi gửi:	
Người nhận:	giang
Điện thoại người nhận:	01235427332
Hạn nhận hàng:	17.04.2017 10:12:09
Địa điểm nơi nhận:	
Loại hàng:	Đồ uống
Cách đóng gói:	Chai - lọ - thùng chứa
Khối lượng (kg):	1.0
Số lượng:	1
Kích thước (m):	1.0 x 1.0 x 1.0
Ghi chú:	
Hạn đấu thầu:	17.04.2017 07:00:09
Giá tham chiếu (VNĐ):	150
Trạng thái:	BẮNG ĐẦU THẦU

HỦY GIAO DỊCH

Figure 2.2-146 Cancel Bill of Lading

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin hàng hóa cần vận chuyển	goodInformation	selectOneMenu			
2	Google Map	map	javaScript			

3	Hủy giao dịch	cancelBillOfLading	commandButton			
4	Hỏi đáp		panelGroup			

- Sequence Diagram

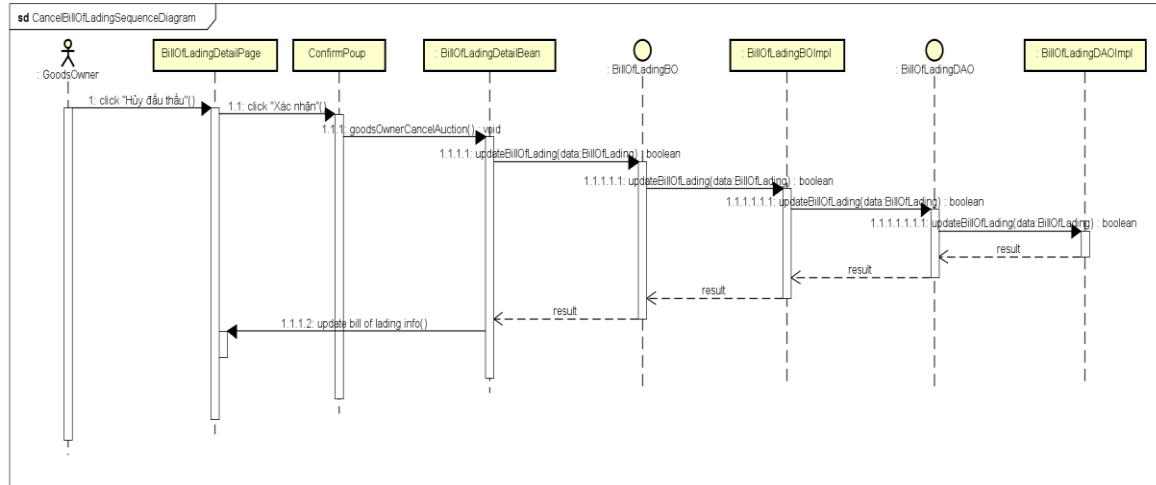


Figure 2.2-147 Cancel Bill of Lading Sequence Diagram

2.2.44 Goods owner edit profile

- Class Diagram

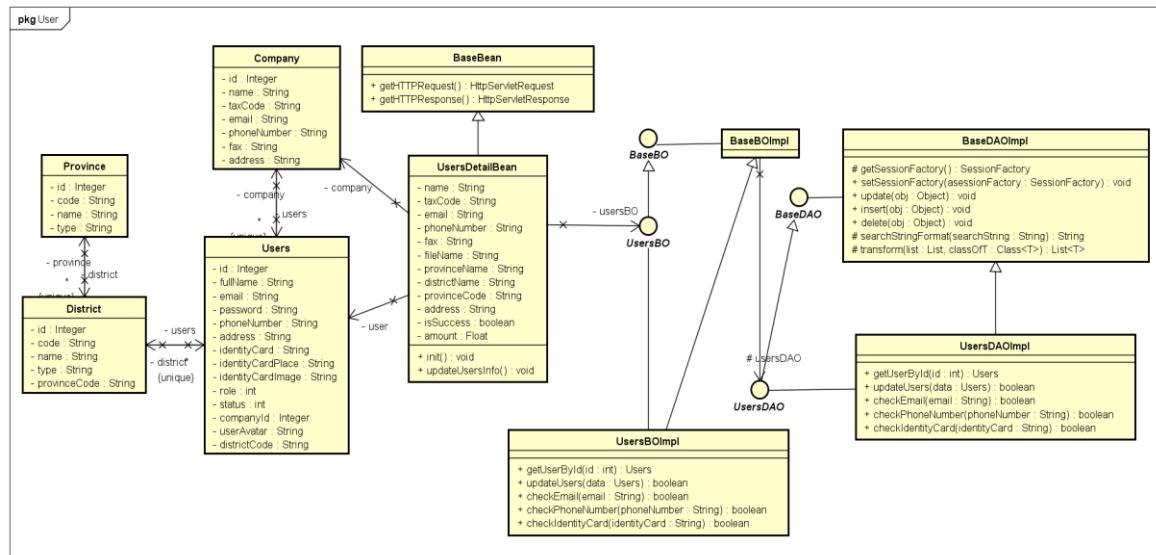


Figure 2.2-148 Edit Profile Class Diagram

- Screen Design

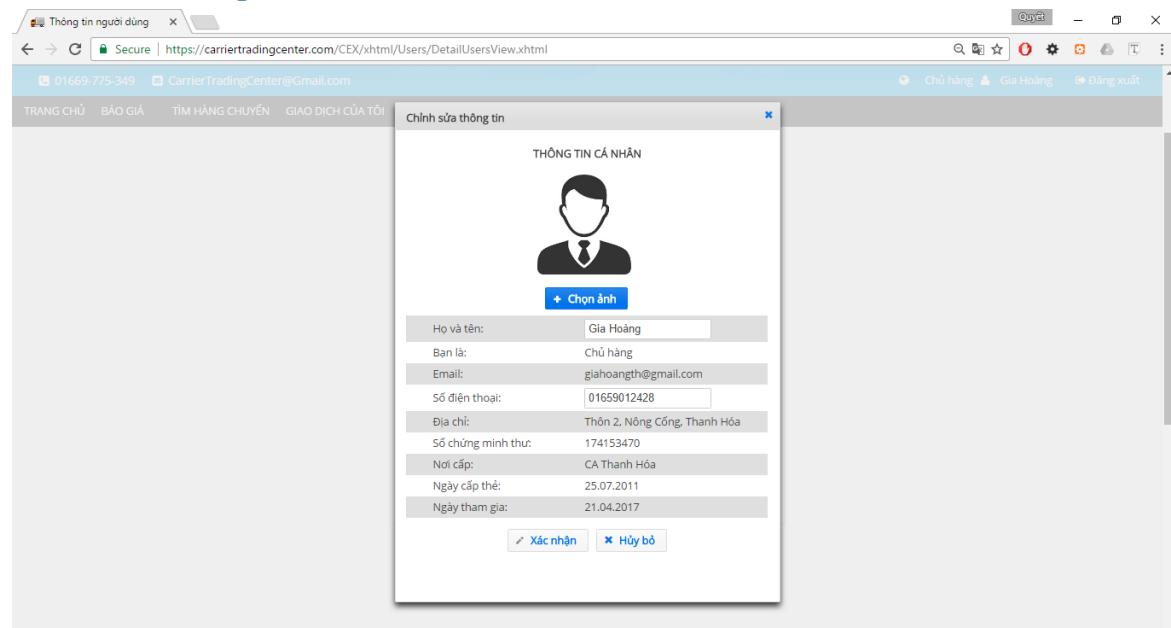


Figure 2.2-149 Edit profile

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	avatar	avatar	graphicImage			
2	Chọn ảnh	chooseImg	fileUpload			
3	Họ và tên	fullName	inputText			
4	Bạn là	role	outputlable			
5	Email	email	outputlable			
6	Số điện thoại	phoneNumber	inputText			
7	Địa chỉ	address	outputlable			
8	Tỉnh/Thành phố	province	outputlable			
9	Quận/Huyện	district	outputlable			
10	Số chứng minh thư	identityCard	outputlable			
11	Nơi cấp	identityCardPlace	outputlable			
12	Ngày cấp	identityCardDate	outputlable			
13	Ngày tham gia	dateCreate	outputlable			
14	Lưu thay đổi	save	commandButton			
15	Hủy bỏ	cancel	commandButton			

- Sequence Diagram

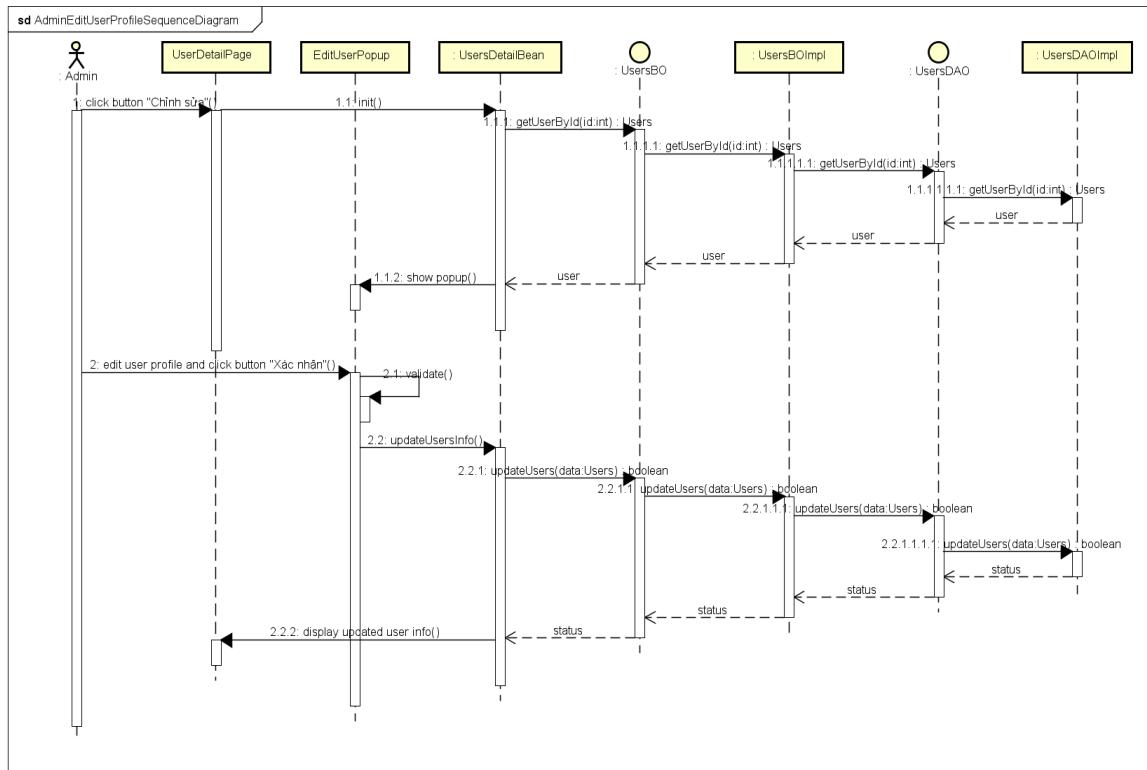
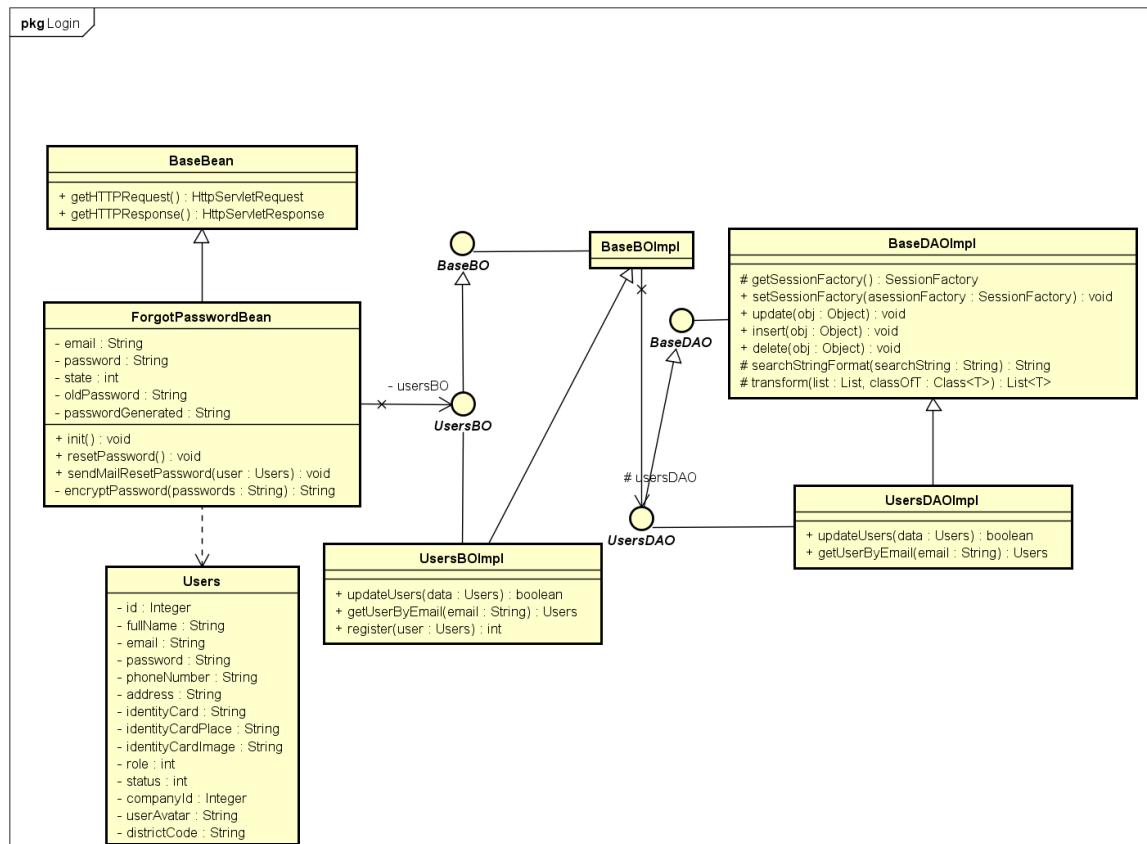


Figure 2.2-150 Edit Profile Sequence Diagram

2.2.45 Goods owner forgot password

- Class Diagram



- Screen Design

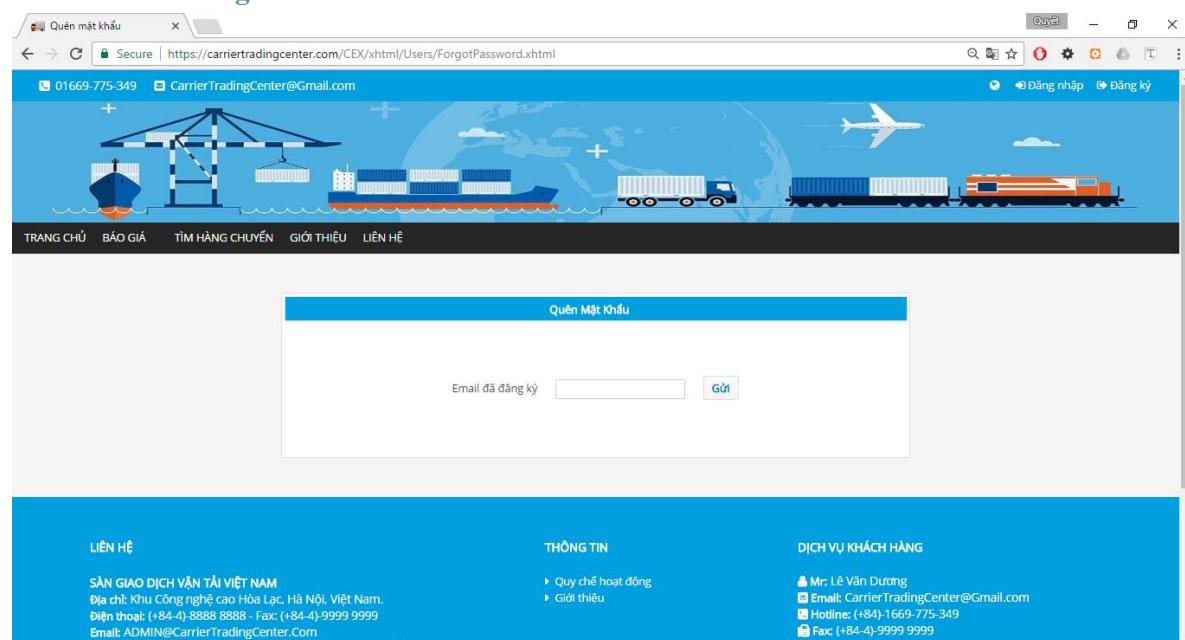


Figure 2.2-152 Send Mail Reset Password

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Quên mật khẩu	forgotPassword	panelGrid			
2	Email đã đăng ký	email	inputText			
3	Gửi	send	commandButton			

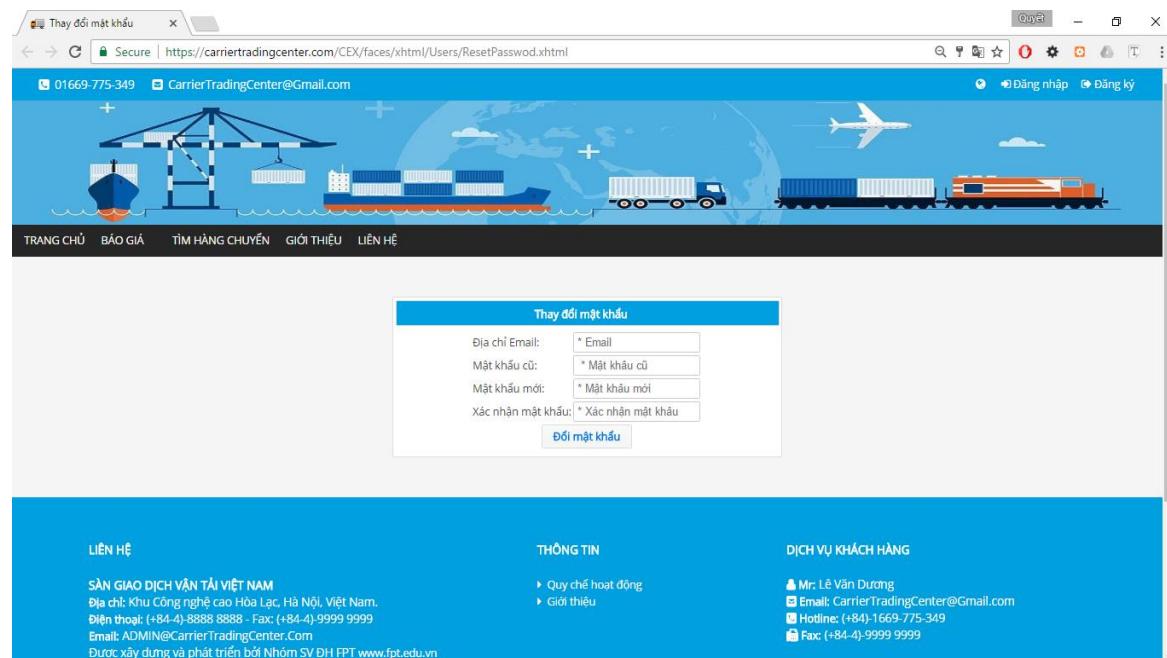


Figure 2.2-153 Reset Password

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thay đổi mật khẩu	resetPassword	panelGrid			
2	Địa chỉ email	chooseImg	inputText			
3	Mật khẩu cũ	fullName	password			
4	Mật khẩu mới	role	password			
5	Xác nhận mật khẩu	email	password			
6	Đổi mật khẩu	phoneNumber	commandButton			

- **Sequence Diagram**

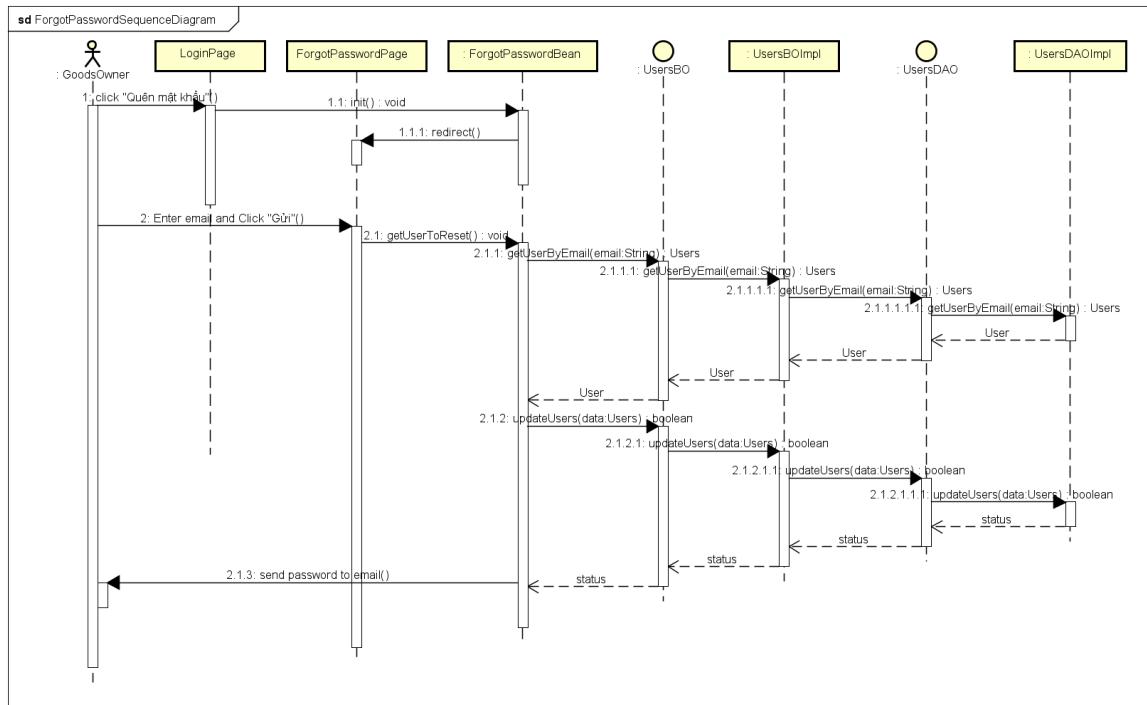


Figure 2.2-154 Forgot Password Sequence Diagram

2.2.46 Goods owner change password

- **Class Diagram**

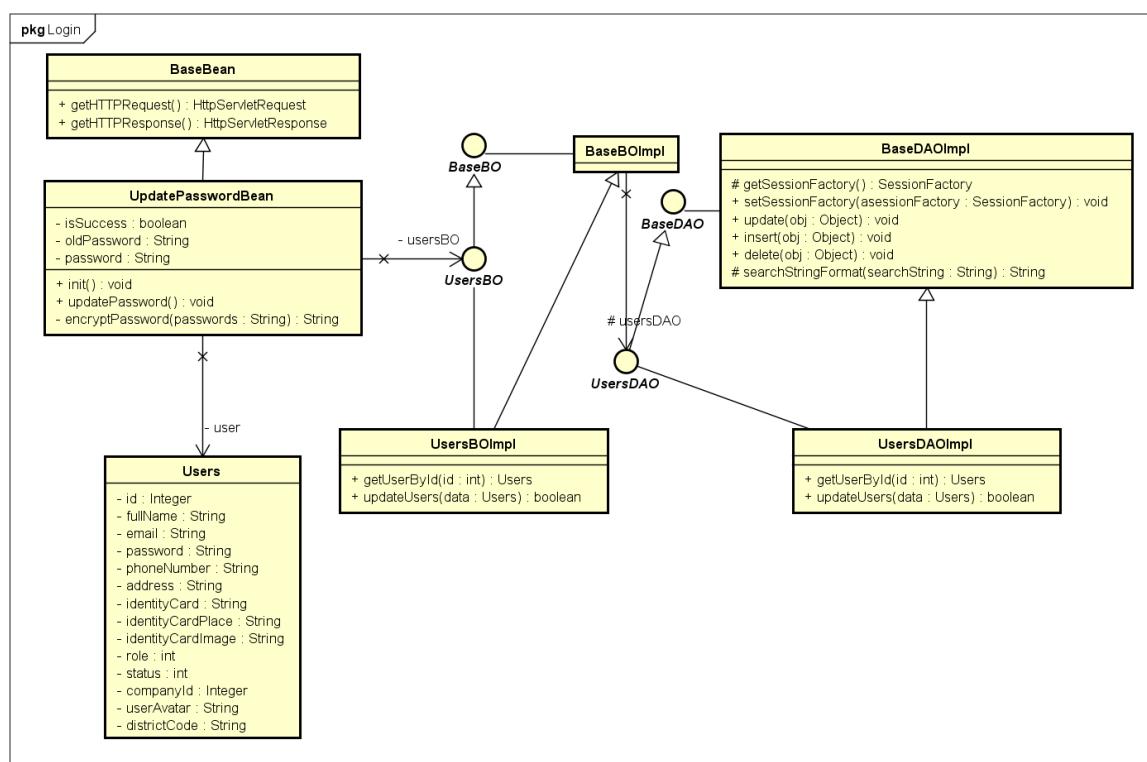


Figure 2.2-155 Change Password Class Diagram

• Screen Design

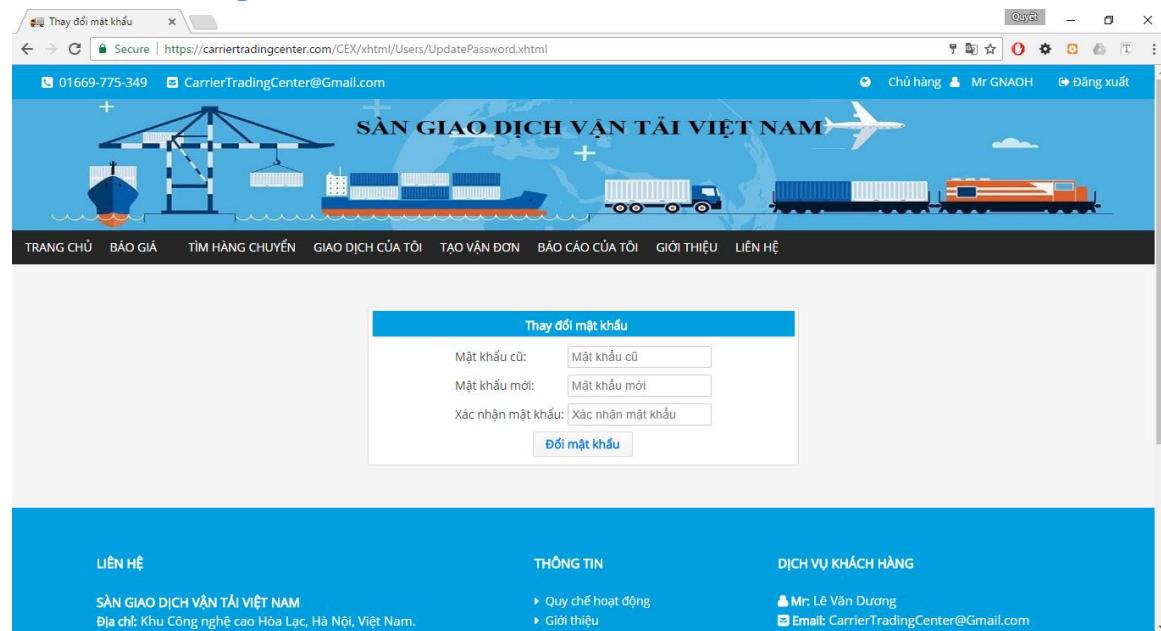


Figure 2.2-156 Update Password

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thay đổi mật khẩu	resetPassword	panelGrid			
2	Mật khẩu cũ	fullName	password			
3	Mật khẩu mới	role	password			
4	Xác nhận mật khẩu	email	password			
5	Đổi mật khẩu	phoneNumber	commandButton			

- **Sequence Diagram**

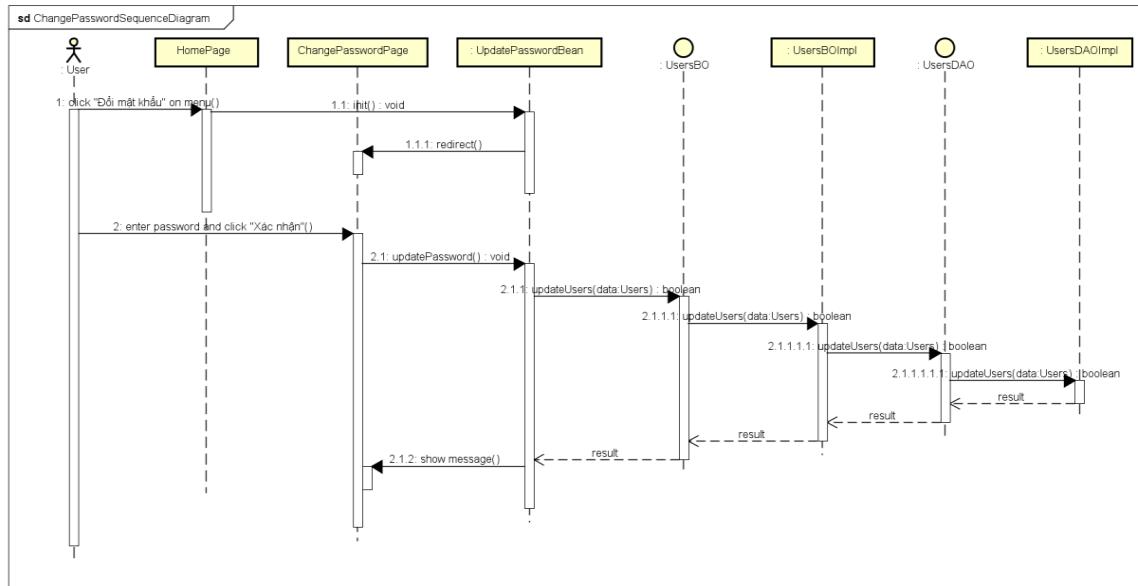


Figure 2.2-157 Update Password Sequence Diagram

2.2.47 Goods owner send report

- **Class Diagram**

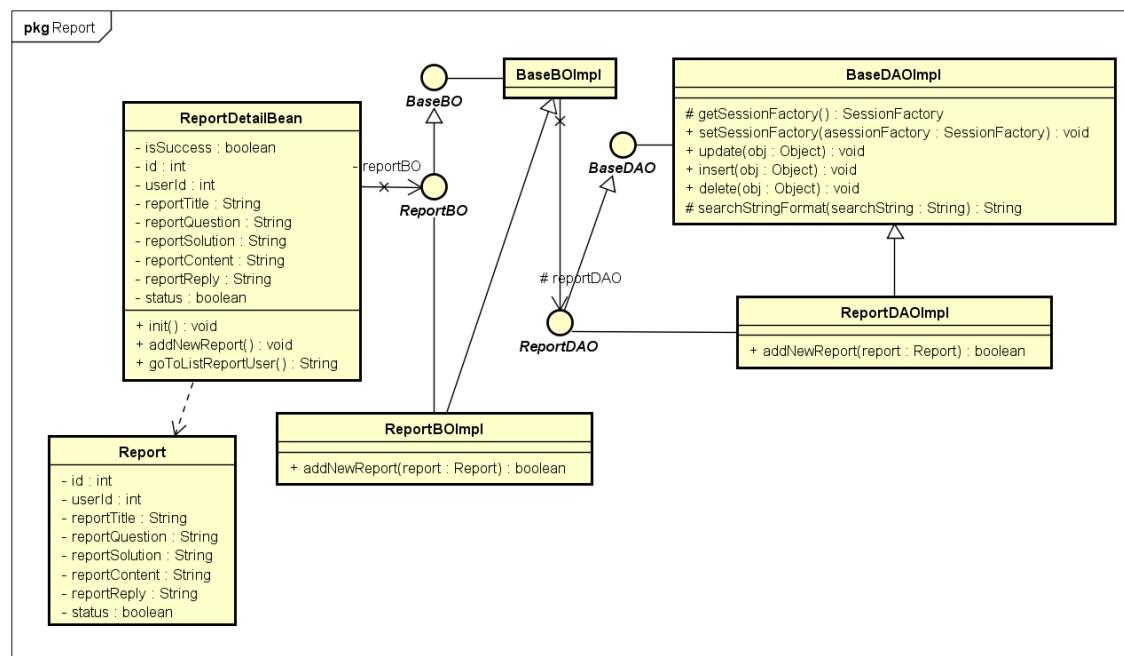


Figure 2.2-158 Send Report Class Diagram

- Screen Design

Figure 2.2-159 Add new Report

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Chủ đề bạn muốn báo cáo là gì?	reportTitle	inputText			
2	Câu hỏi của bạn là gì?	reportQuestion	inputText			
3	Bạn mong muốn xử lý như thế nào	reportSolution	outputText			
4	Nội dung báo cáo của bạn	reportContent	outputText			
5	Gửi báo cáo	addNewReport	commandButton			
6	Quay lại	goback	commandButton			

- Sequence Diagram

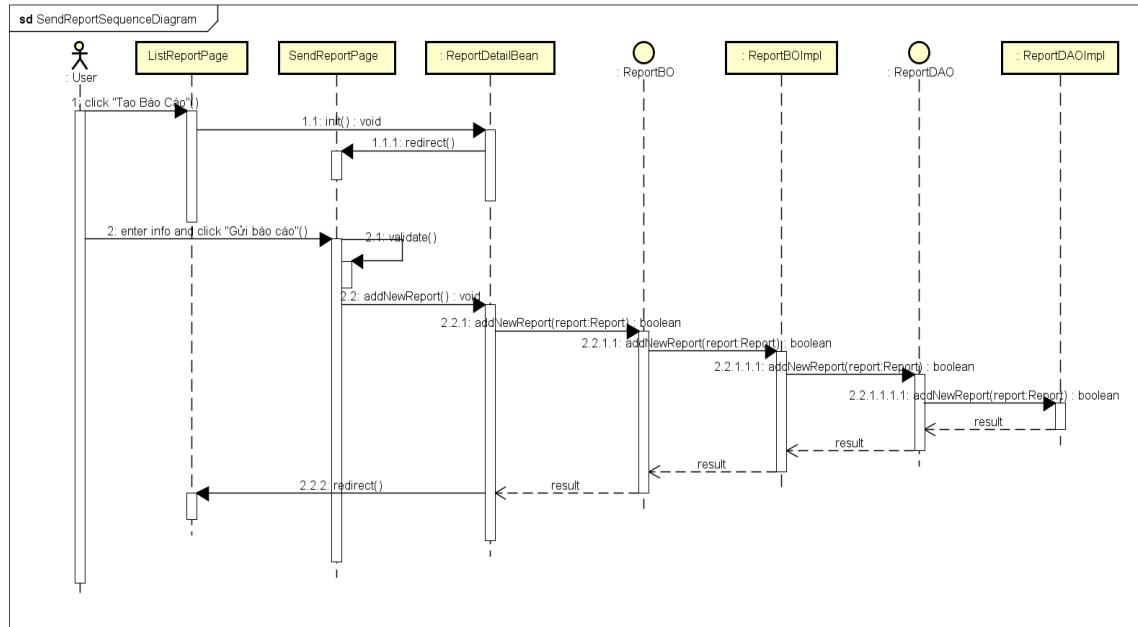


Figure 2.2-160 Send Report Sequence Diagram

2.2.48 Goods owner view Profile

- Class Diagram

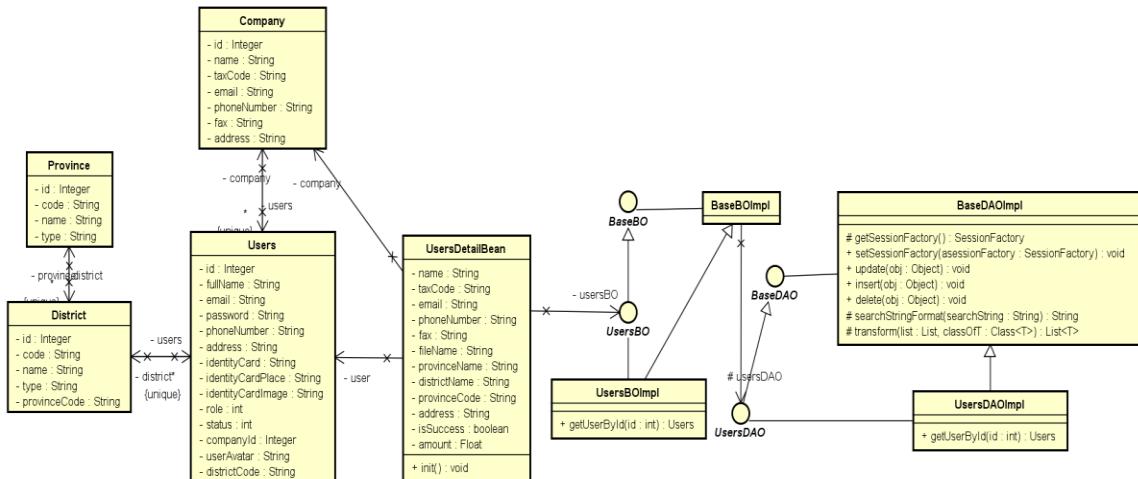


Figure 2.2-161 View User Profile Class Diagram

- Screen Design

2.2.48.1.1 Case does not Exist Company Information

Figure 2.2-162 User Profile

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin cá nhân	userDetailInformation	panelGrid	Yes		
2	Thông tin công ty	companyInformation	panelGrid	No		
3	Thay đổi		commandButton			
4	Thêm thông tin công ty.		commandButton			

2.2.48.1.2 Case Exist Company Information

THÔNG TIN CÁ NHÂN

Họ và tên:	Gia Hoàng
Ban là:	Chủ hàng
Email:	giaoangth@gmail.com
Số điện thoại:	01659012428
Địa chỉ:	Thôn 2, Nông Cống, Thanh Hóa
Số chứng minh thư:	174153470
Nơi cấp:	CA Thanh Hóa
Ngày cấp thẻ:	25.07.2011
Ngày tham gia:	21.04.2017
Số dư tài khoản:	1300000.0(VND)

Figure 2.2-163 User Profile (part 1)

THÔNG TIN CÔNG TY

Tên công ty:	Samsung
Email:	samsung@gmail.com
Số điện thoại:	8488885555
Fax:	1-844-8888-5555
Địa chỉ:	Cầu Giấy- Hà Nội
Mã số thuế:	1098215111

LIÊN HỆ

SẢN GIAO DỊCH VẬN TẢI VIỆT NAM
Địa chỉ: Khu Công nghệ cao Hòa Lạc, Hà Nội, Việt Nam.
Điện thoại: (+84-4)-8888 8888 - Fax: (+84-4)-9999 9999
Email: ADMIN@CarrierTradingCenter.Com
Được xây dựng và phát triển bởi Nhóm SV ĐH FPT www.fpt.edu.vn

THÔNG TIN

- Quy chế hoạt động
- Giới thiệu

DỊCH VỤ KHÁCH HÀNG

- Mr. Lê Văn Dương
- Email: CarrierTradingCenter@gmail.com
- Hotline: (+84)-1669-775-349
- Fax: (+84-4)-9999 9999

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin cá nhân	userDeatilInformation	panelGrid	Yes		
2	Thông tin công ty	companyInformation	panelGrid	No		
3	Thay đổi		commandButton			
4	Thay đổi		commandButton			

- Sequence Diagram

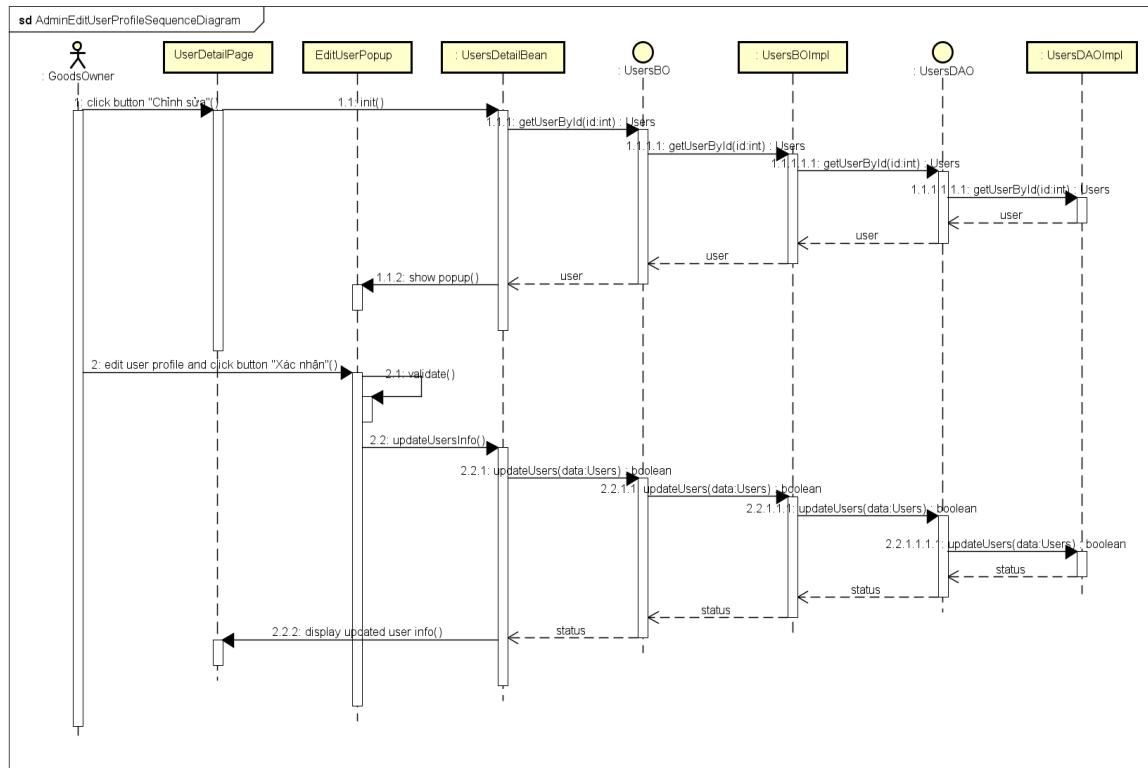


Figure 2.2-164 User Profile Sequence Diagram

2.2.49 Goods owner view report list

- Class Diagram

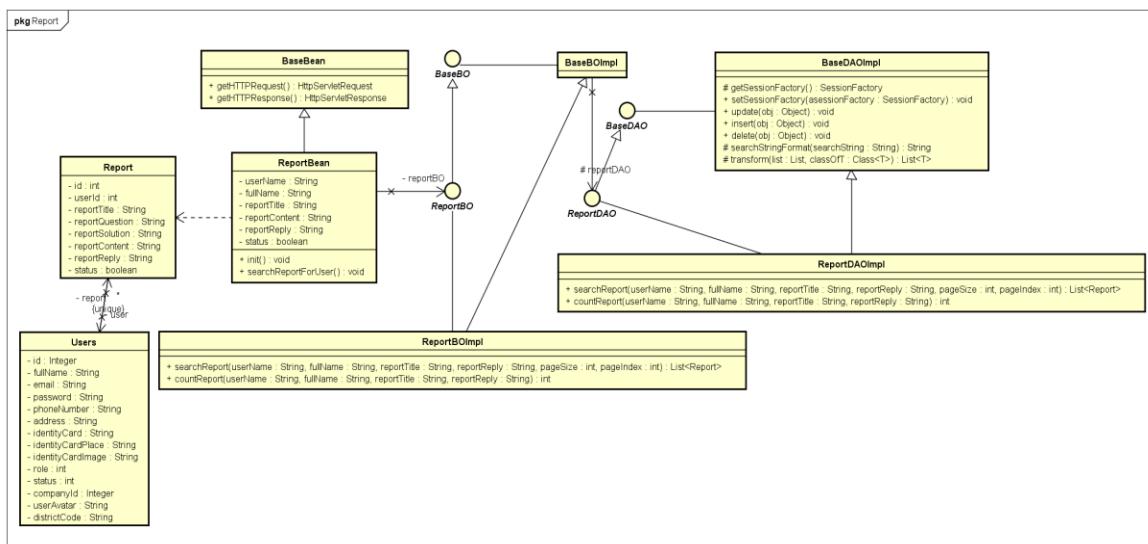


Figure 2.2-165 View Report list

• Screen Design

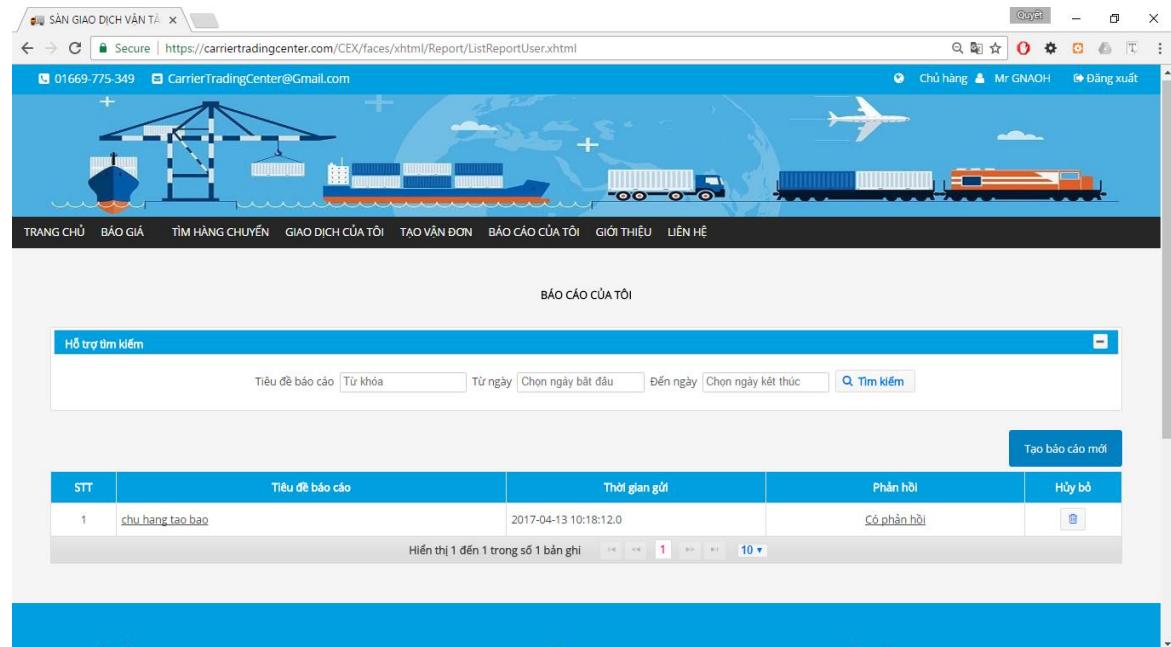


Figure 2.2-166 List Report

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Hỗ trợ tìm kiếm		panelGrid			
2	Tiêu đề báo cáo	reportTitle	inputText	No	75	
3	Từ ngày	reportDateBegin	calendar	No		
4	Đến ngày	reportDateEnd	calendar	No		
5	Tìm kiếm	search	commandButton			
6	Danh sách báo cáo	litsReport	dataTable			

- Sequence Diagram

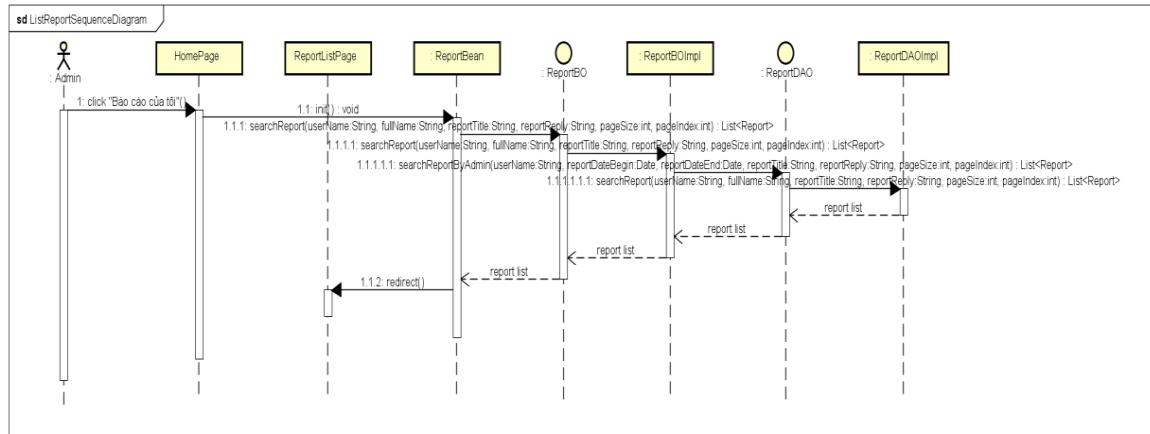


Figure 2.2-167 List Report Sequence Diagram

2.2.50 Goods owner search report

- Class Diagram

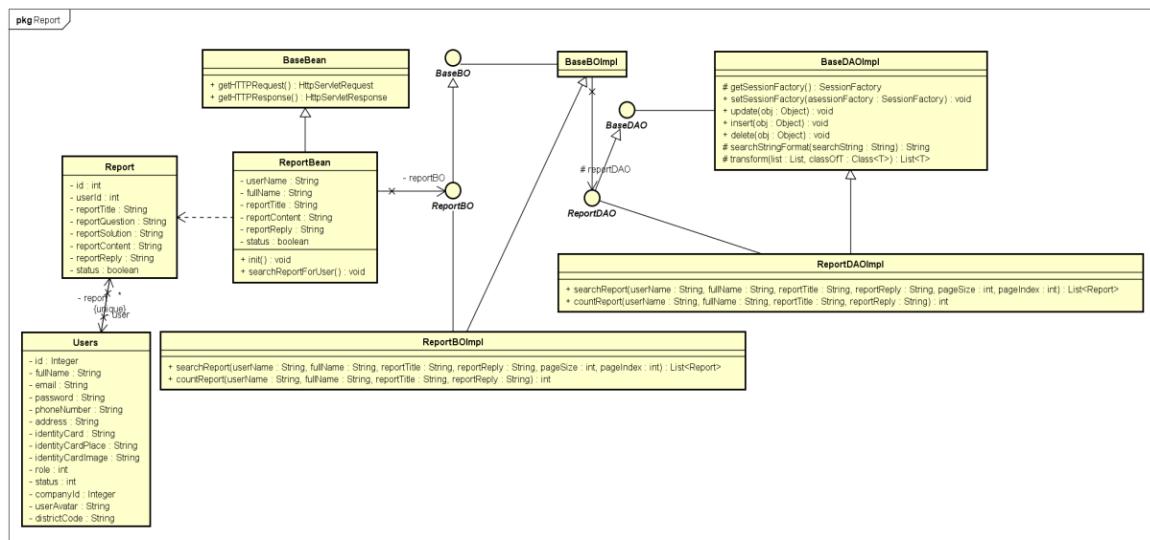


Figure 2.2-168 Search Report Class Diagram

- **Screen Design**

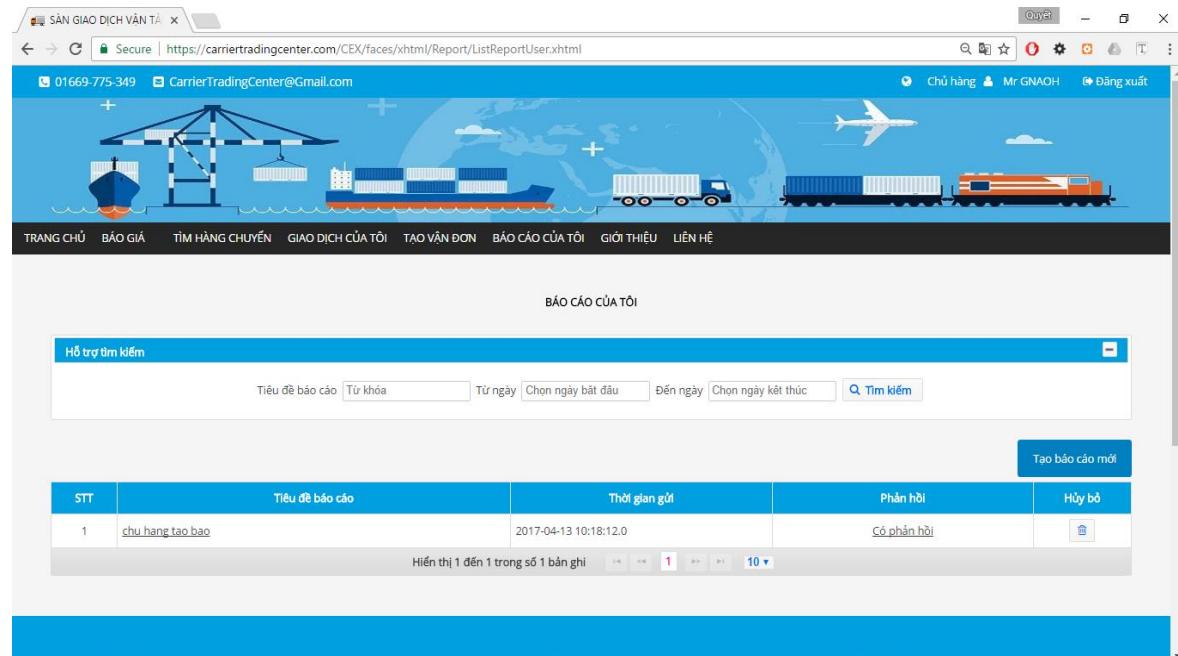


Figure 2.2-169 Search Report

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Hỗ trợ tìm kiếm		panelGrid			
2	Tiêu đề báo cáo	reportTitle	inputText	No	75	
3	Từ ngày	reportDateBegin	calendar	No		
4	Đến ngày	reportDateEnd	calendar	No		
5	Tìm kiếm	search	commandButton			
6	Danh sách báo cáo	litsReport	dataTable			

- Sequence Diagram

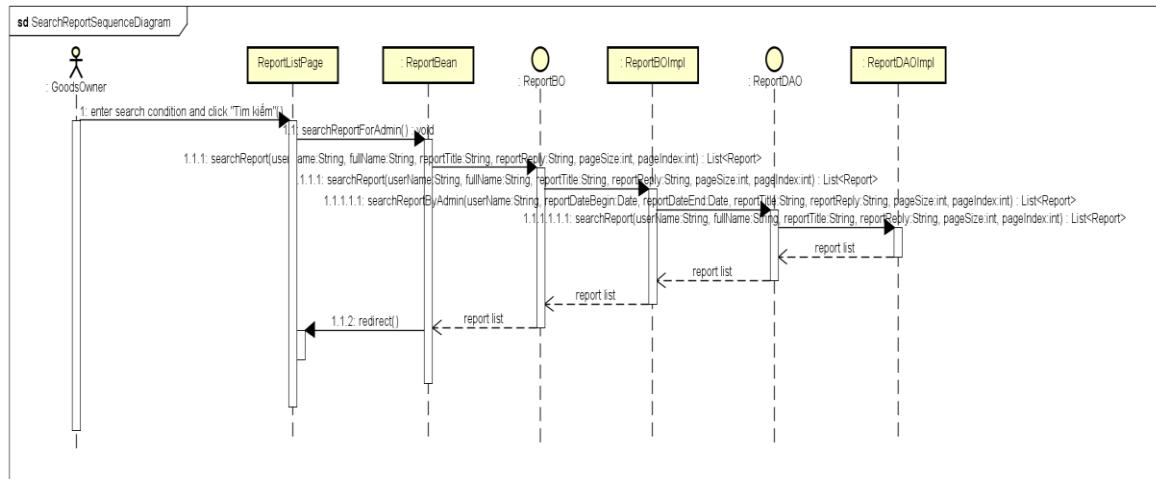


Figure 2.2-170 Search Report Sequence Diagram

2.2.51 Goods owner connect to carrier

- Goods owner comment to carrier

Class Diagram

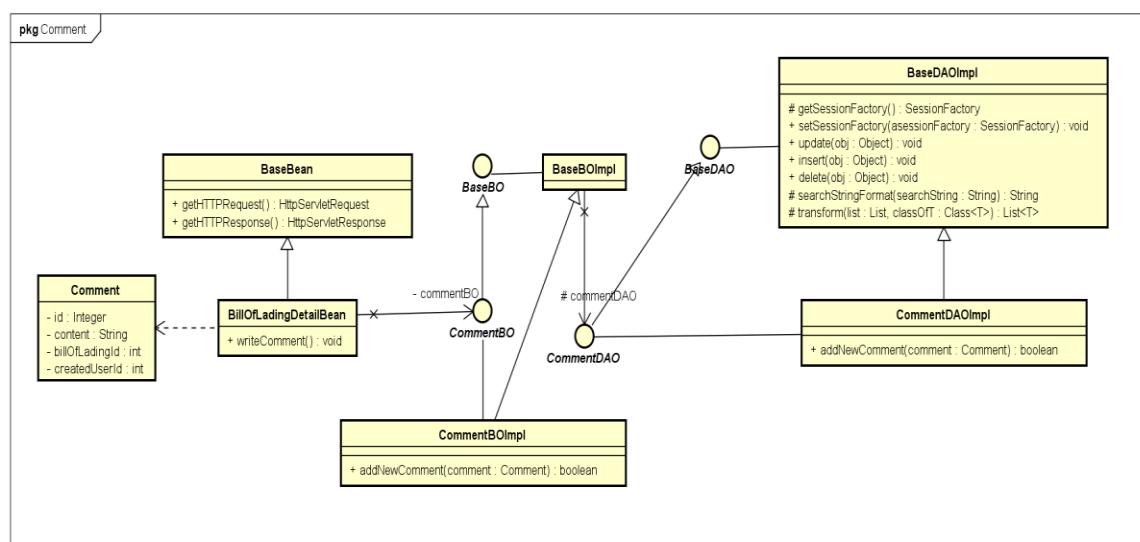
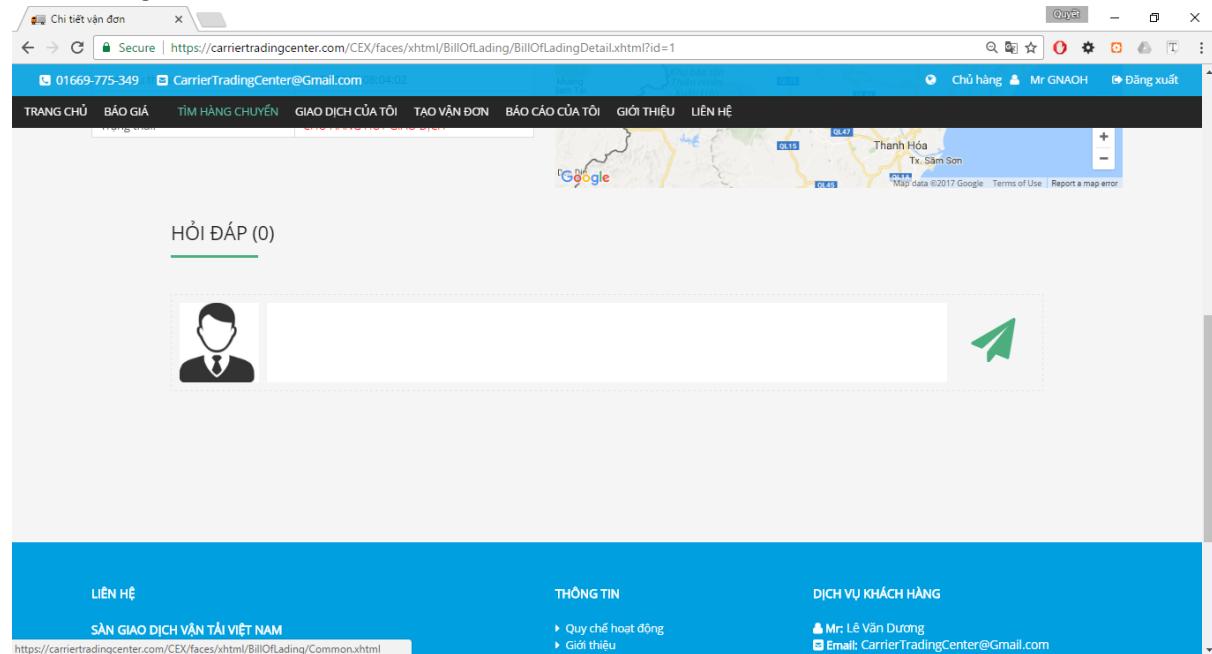


Figure 2.2-171 Comment to carrier Class Diagram

Screen Design



No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Hỏi đáp	questionAnswer	panelGroup			
2	Button Send	send	commandButton			

Sequence Diagram

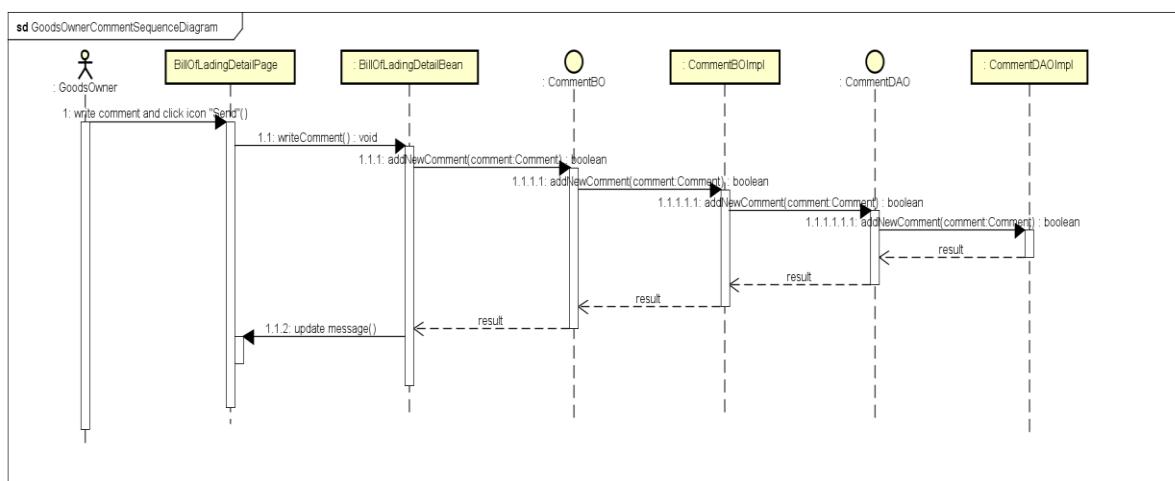


Figure 2.2-172 Write comment to Carrier Sequence Diagram

- Goods owner answer to carrier

Class Diagram

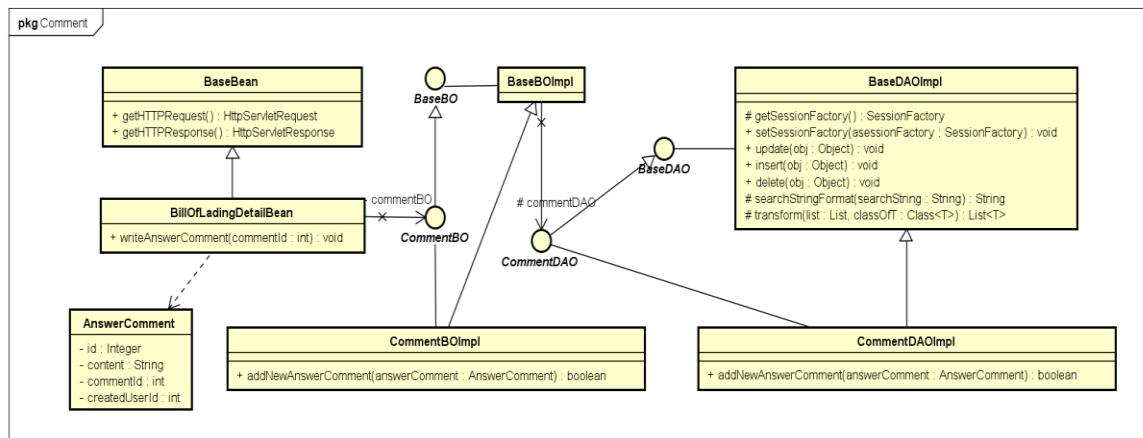


Figure 2.2-173 Answer to carrier

Screen Design

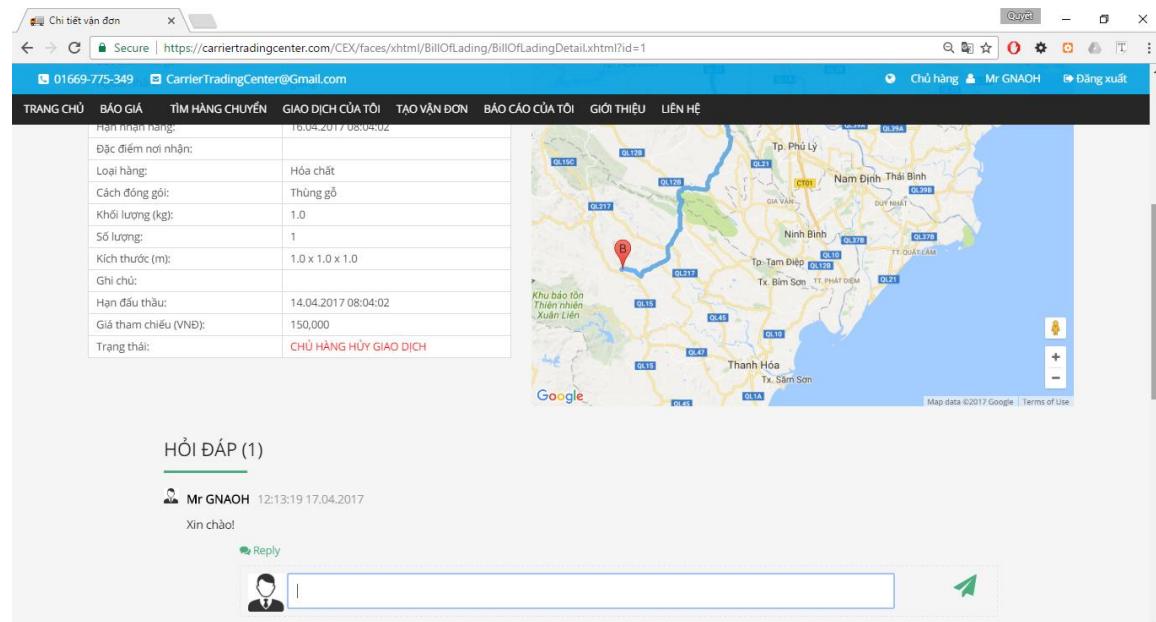


Figure 2.2-174 Goods Owner Answer Comment

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Hỏi đáp	questionAnswer	panelGroup			
2	Trả lời	reply	inputText			
3	Button Send	send	commandButton			

Sequence Diagram

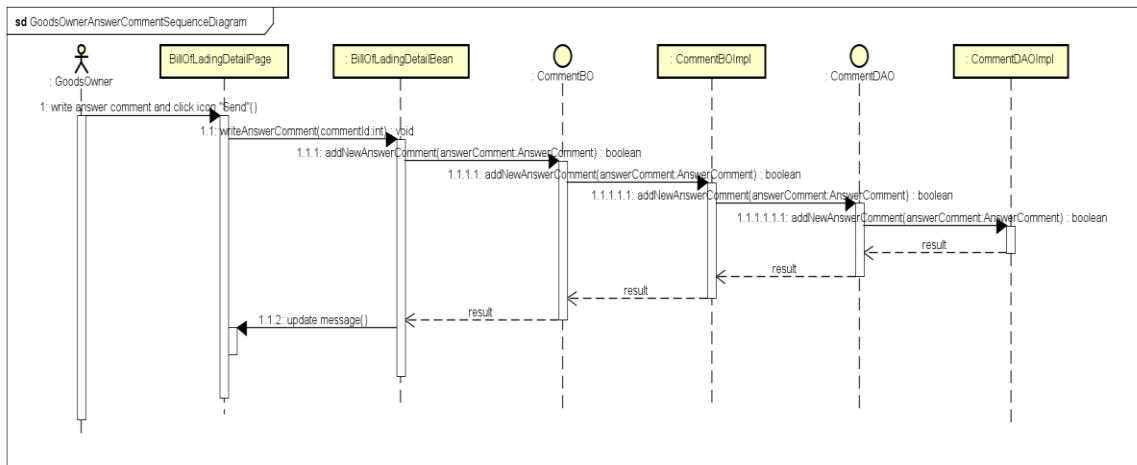


Figure 2.2-175 Answer comment Sequence Diagram

2.2.52 Goods owner account recharge

- Class Diagram

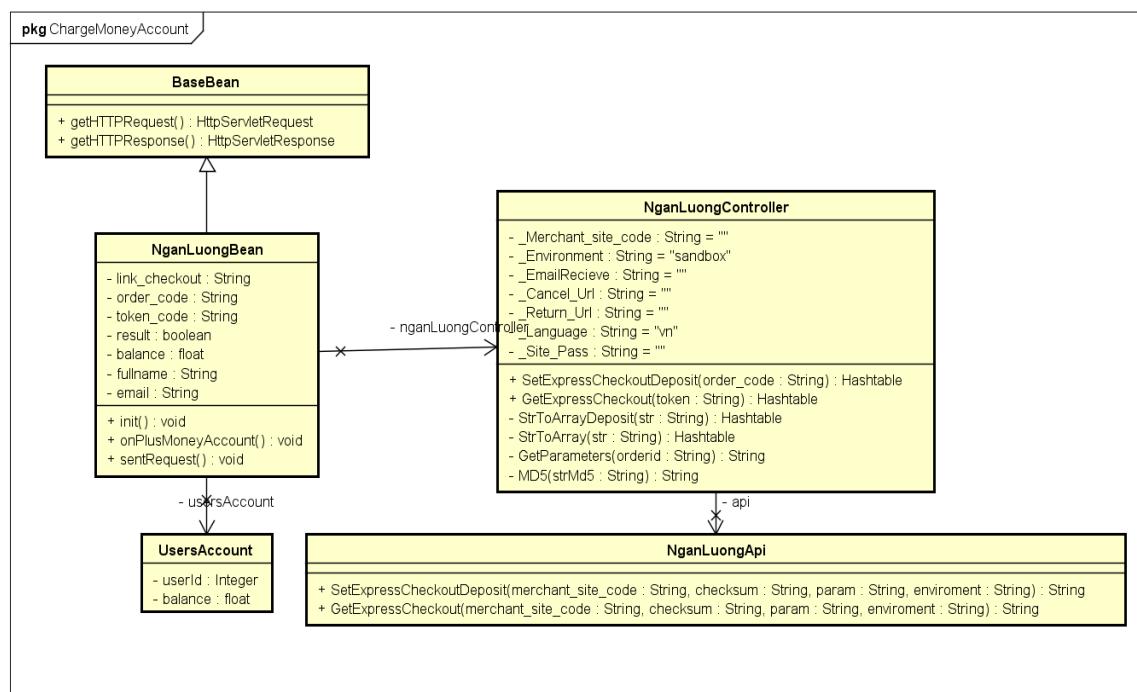


Figure 2.2-176 Goods Owner Account Recharge Class Diagram

- Screen Design

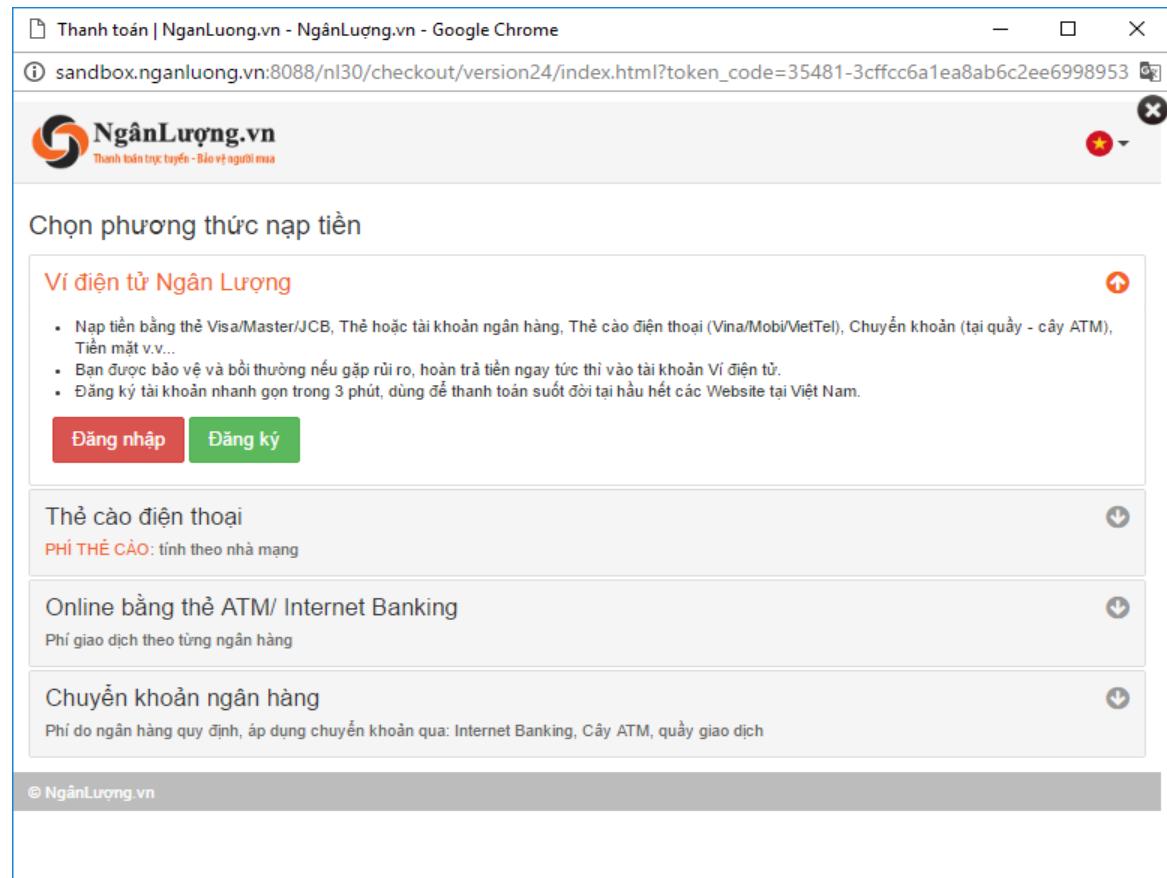


Figure 2.2-177 Account Recharge

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Nạp tiền vào tài khoản	accountRecharge	NganLuong API			

- Sequence Diagram

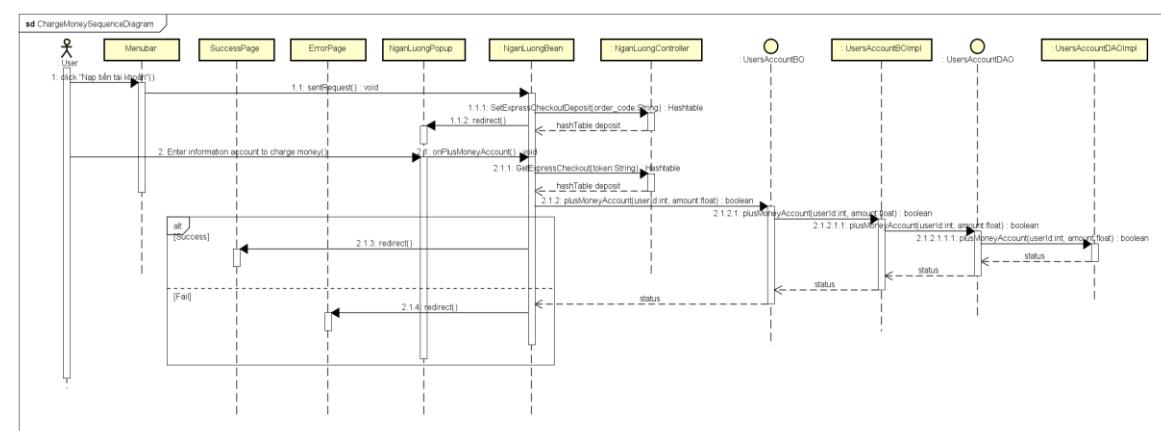


Figure 2.2-178 Account Recharge Sequence Diagram

2.2.53 Goods owner reference fee

- Class Diagram

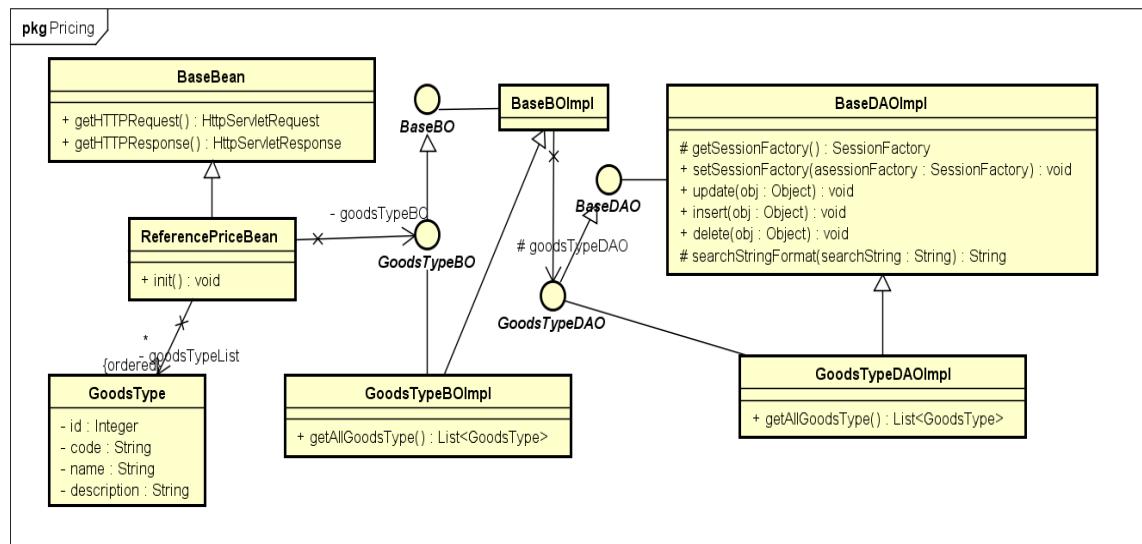


Figure 2.2-179 View Reference Fee Class Diagram

- Screen Design

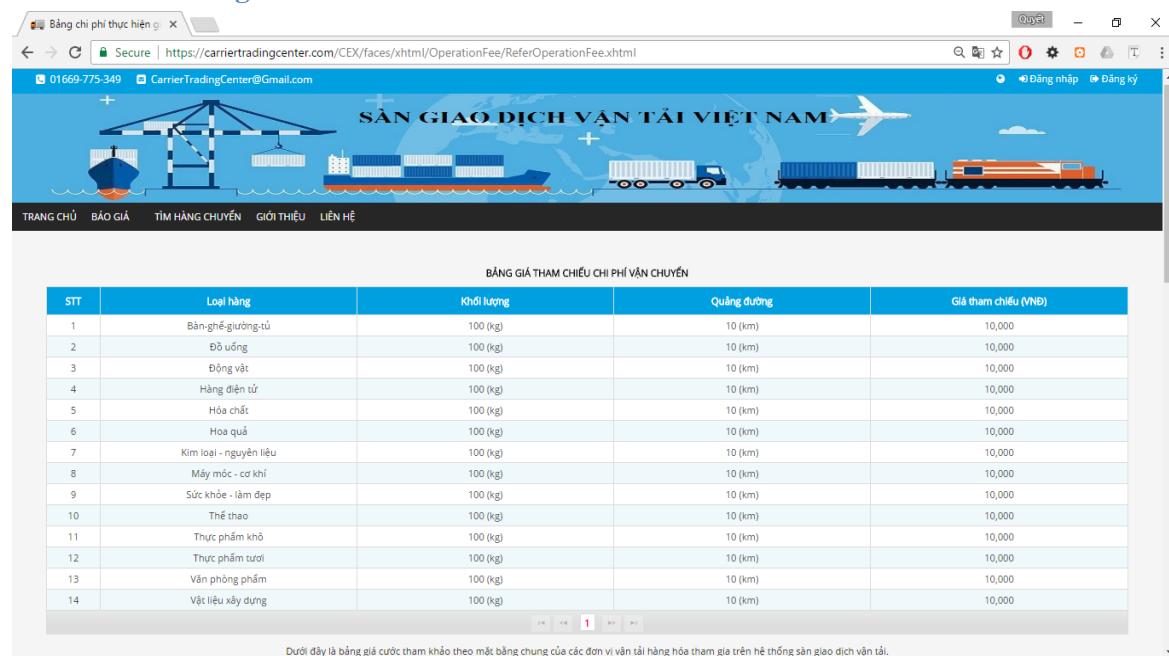
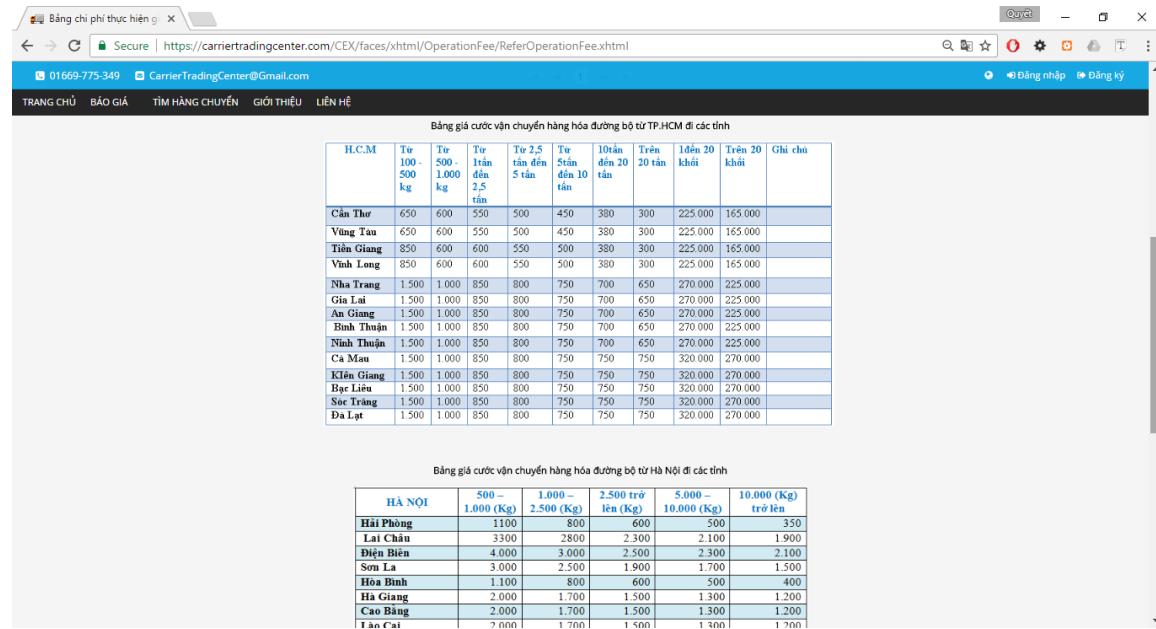


Figure 2.2-180 Reference Fee (part 1)



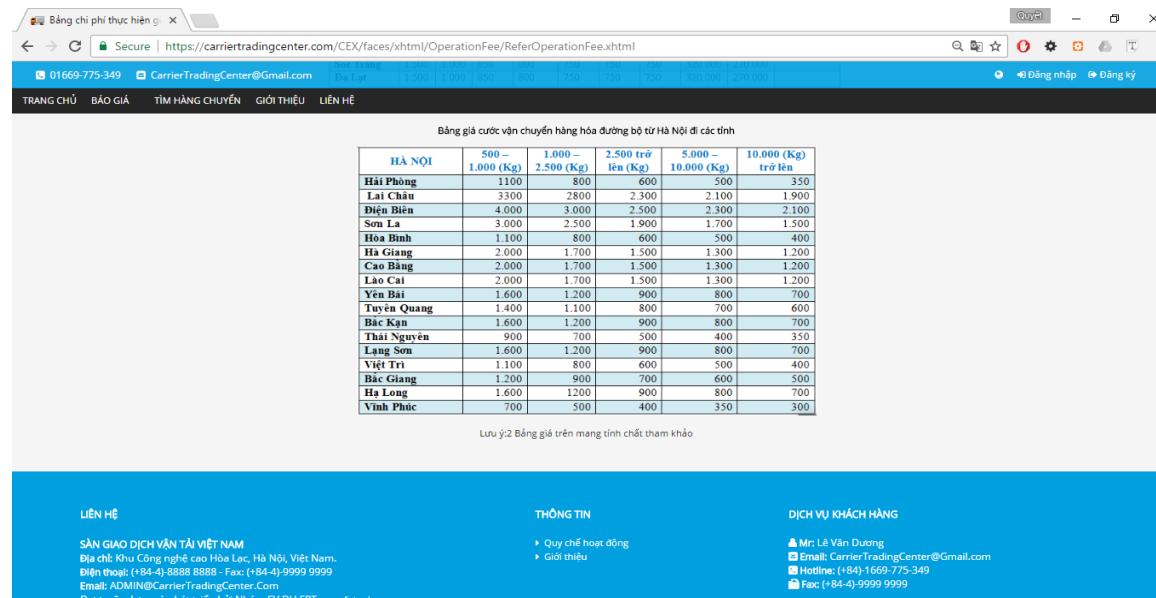
Bảng giá cước vận chuyển hàng hóa đường bộ từ TP.HCM đi các tỉnh

H.C.M	Từ 100 - 500 kg	Từ 500 - 1.000 kg	Từ 1tấn đến 2,5 tấn	Từ 2,5 tấn đến 5 tấn	Từ 5 tấn đến 10 tấn	Từ 10tấn đến 20 tấn	Tрен 20 tấn	1đến 20 khối	Tren 20 khối	Ghi chú
Cần Thơ	650	600	550	500	450	380	300	225.000	165.000	
Vũng Tàu	650	600	550	500	450	380	300	225.000	165.000	
Tiền Giang	850	600	600	550	500	380	300	225.000	165.000	
Vĩnh Long	850	600	600	550	500	380	300	225.000	165.000	
Nha Trang	1.500	850	800	750	700	650	270.000	225.000		
Gia Lai	1.500	1.000	850	800	750	700	650	270.000	225.000	
An Giang	1.500	1.000	850	800	750	700	650	270.000	225.000	
Bình Thuận	1.500	1.000	850	800	750	700	650	270.000	225.000	
Ninh Thuận	1.500	1.000	850	800	750	700	650	270.000	225.000	
Cà Mau	1.500	1.000	850	800	750	700	650	320.000	270.000	
Klênh Giang	1.500	1.000	850	800	750	700	650	320.000	270.000	
Bạc Liêu	1.500	1.000	850	800	750	700	650	320.000	270.000	
Sóc Trăng	1.500	1.000	850	800	750	700	650	320.000	270.000	
Đà Lạt	1.500	1.000	850	800	750	700	650	320.000	270.000	

Bảng giá cước vận chuyển hàng hóa đường bộ từ Hà Nội đi các tỉnh

HÀ NỘI	500 – 1.000 (Kg)	1.000 – 2.500 (Kg)	2.500 trở lên (Kg)	5.000 – 10.000 (Kg)	10.000 (Kg) trở lên
Hải Phòng	1100	800	600	500	350
Lai Châu	3300	2800	2300	2100	1900
Điện Biên	4.000	3.000	2.500	2.300	2.100
Sơn La	3.000	2.500	1.900	1.700	1.500
Hoa Bình	1.100	800	600	500	400
Hà Giang	2.000	1.700	1.500	1.300	1.200
Cao Bằng	2.000	1.700	1.500	1.300	1.200
Lào Cai	2.000	1.700	1.500	1.300	1.200
Yên Bái	1.600	1.200	900	800	700
Tuyên Quang	1.400	1.100	800	700	600
Bắc Kạn	1.600	1.200	900	800	700
Thái Nguyên	900	700	500	400	350
Lang Sơn	1.600	1.200	900	800	700
Việt Trì	1.100	800	600	500	400
Bắc Giang	1.200	900	700	600	500
Hà Long	1.600	1200	900	800	700
Vĩnh Phúc	700	500	400	350	300

Figure 2.2-181 Reference Fee (part 2)



Bảng giá cước vận chuyển hàng hóa đường bộ từ Hà Nội đi các tỉnh

HÀ NỘI	500 – 1.000 (Kg)	1.000 – 2.500 (Kg)	2.500 trở lên (Kg)	5.000 – 10.000 (Kg)	10.000 (Kg) trở lên
Hải Phòng	1100	800	600	500	350
Lai Châu	3300	2800	2300	2100	1900
Điện Biên	4.000	3.000	2.500	2.300	2.100
Sơn La	3.000	2.500	1.900	1.700	1.500
Hoa Bình	1.100	800	600	500	400
Hà Giang	2.000	1.700	1.500	1.300	1.200
Cao Bằng	2.000	1.700	1.500	1.300	1.200
Lào Cai	2.000	1.700	1.500	1.300	1.200
Yên Bái	1.600	1.200	900	800	700
Tuyên Quang	1.400	1.100	800	700	600
Bắc Kạn	1.600	1.200	900	800	700
Thái Nguyên	900	700	500	400	350
Lang Sơn	1.600	1.200	900	800	700
Việt Trì	1.100	800	600	500	400
Bắc Giang	1.200	900	700	600	500
Hà Long	1.600	1200	900	800	700
Vĩnh Phúc	700	500	400	350	300

Lưu ý: Bảng giá trên mang tính chất tham khảo

Figure 2.2-182 Reference Price (part 3)

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Bảng giá tham chiếu chi phí vận chuyển	goodsTypeList	dataTable			
2	Bảng giá cước vận chuyển hàng hóa đường bộ từ TP.HCM đi các tỉnh		graphicImage			
3	Bảng giá cước vận chuyển hàng hóa đường bộ từ Hà Nội		graphicImage			

	đi các tinh					
--	-------------	--	--	--	--	--

- Sequence Diagram

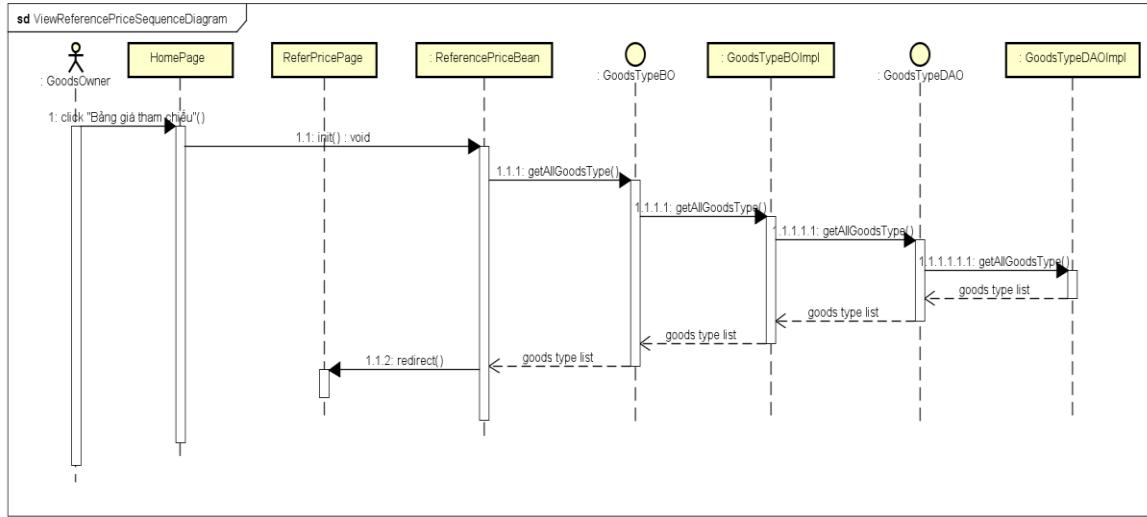


Figure 2.2-183 View Reference Fee Sequence Diagram

2.2.54 Goods owner confirm complete transaction

- Class Diagram

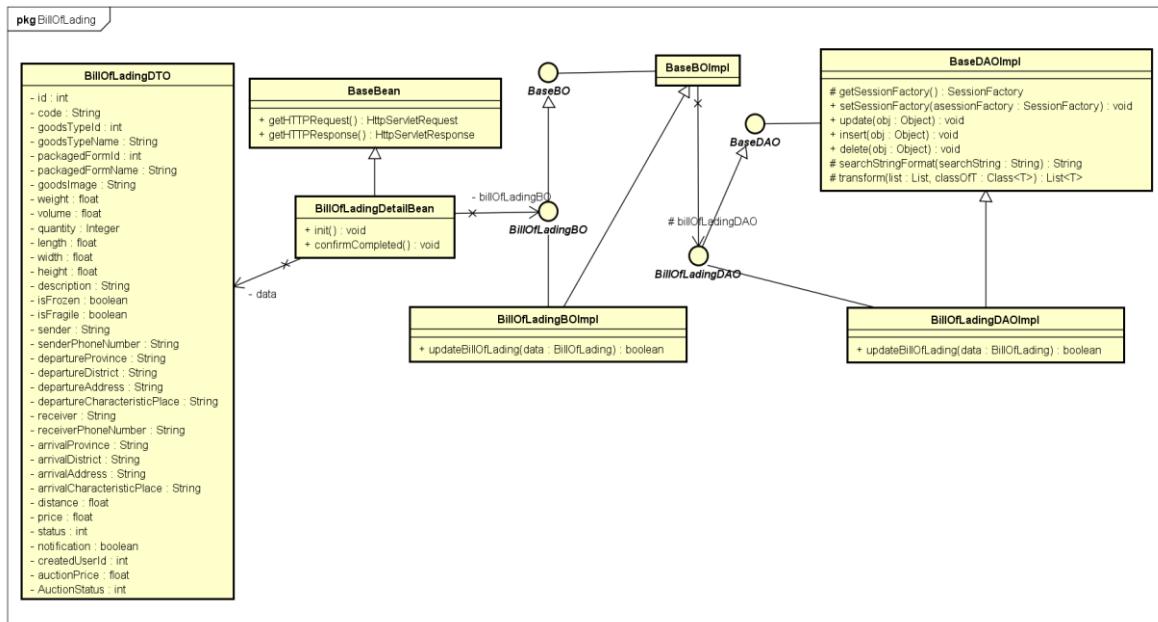


Figure 2.2-184 Confirm Complete Transaction Class Diagram

- Screen Design

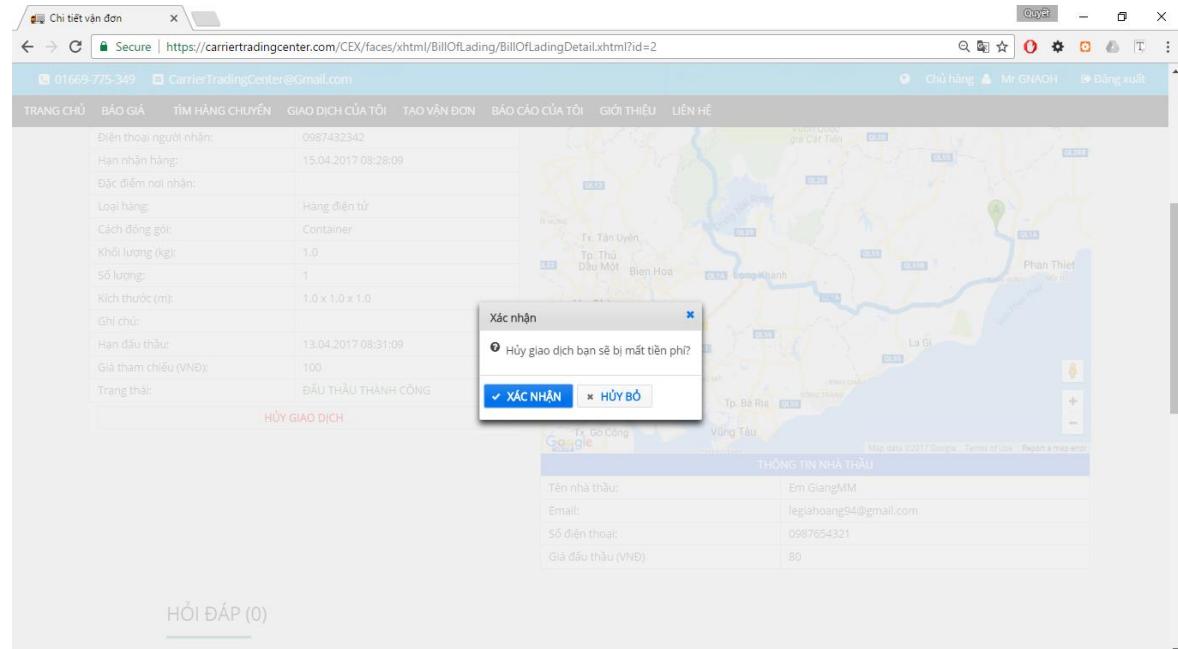


Figure 2.2-185 Confirm Dialog

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Xác nhận	confirm	commandButton			
2	Hủy bỏ	cancel	commandButton			

- Sequence Diagram

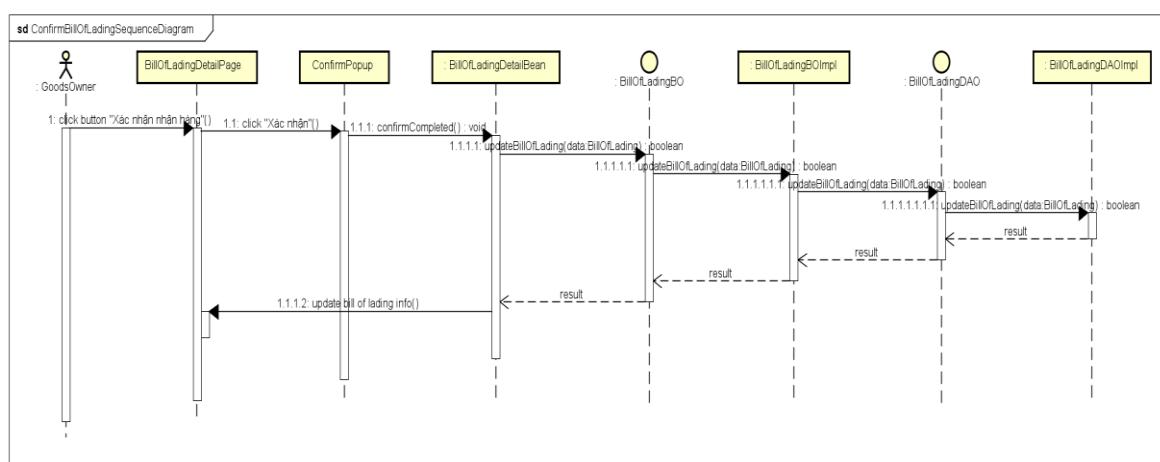


Figure 2.2-186 Confirm Complete Transaction Sequence Diagram

2.2.55 Goods owner add company

- **Class Diagram**

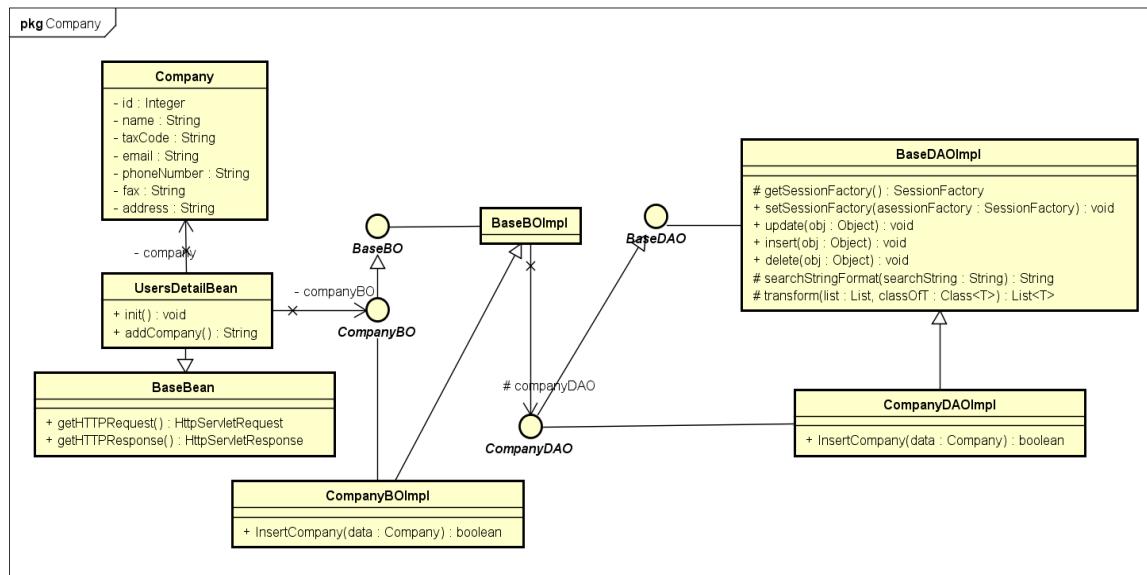


Figure 2.2-187 Goods Owner Add Company Class Diagram

• Screen Design

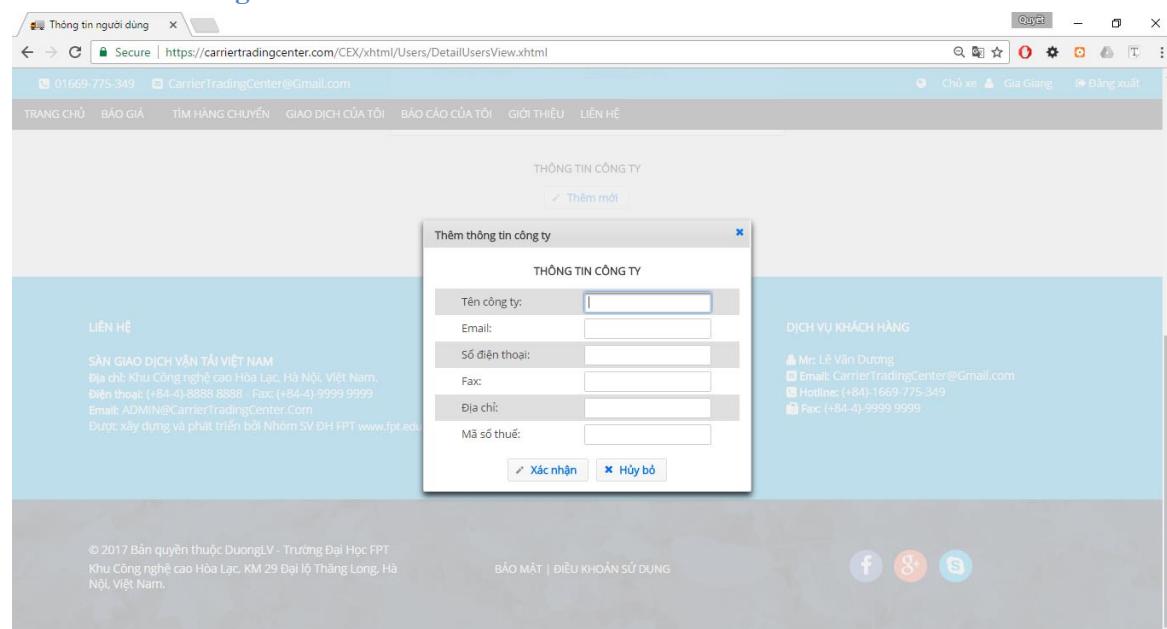


Figure 2.2-188 Add Company

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin công ty	companyInformation	panelGrid			
2	Tên công ty	comapnyName	inputText		100	
3	Email	email	inputText		50	

4	Số điện thoại	phoneNumber	inputText		11	
5	Fax	fax	inputText		20	
6	Địa chỉ	address	inputText		100	
7	Mã số thuế	taxCode	inputText		20	
8	Lưu thay đổi	confirm	commandButton			
9	Hủy bỏ	cancel	commandButton			

- Sequence Diagram

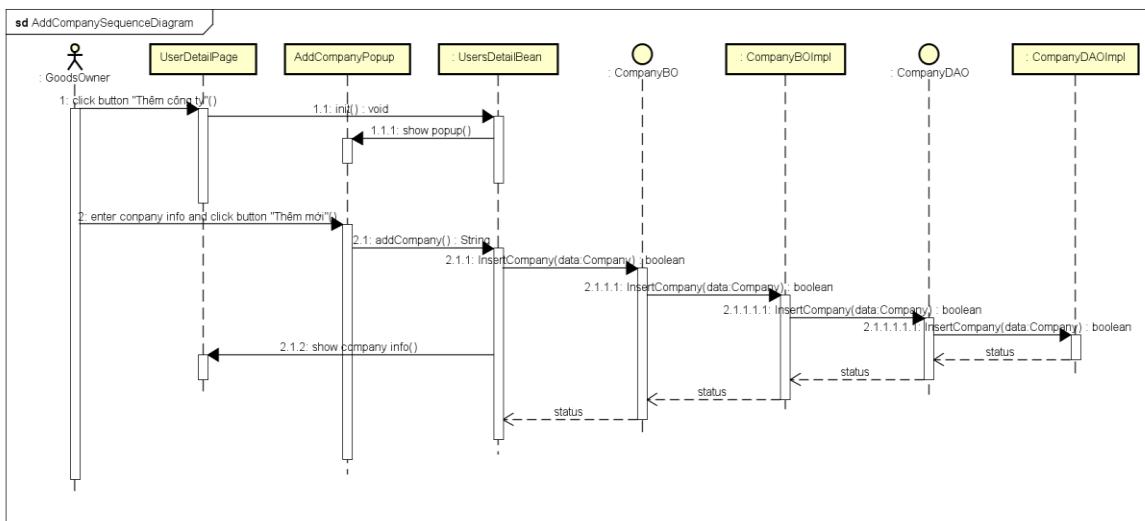


Figure 2.2-189 Add Company Information Sequence Diagram

2.2.56 Goods owner view fee list

- Class Diagram

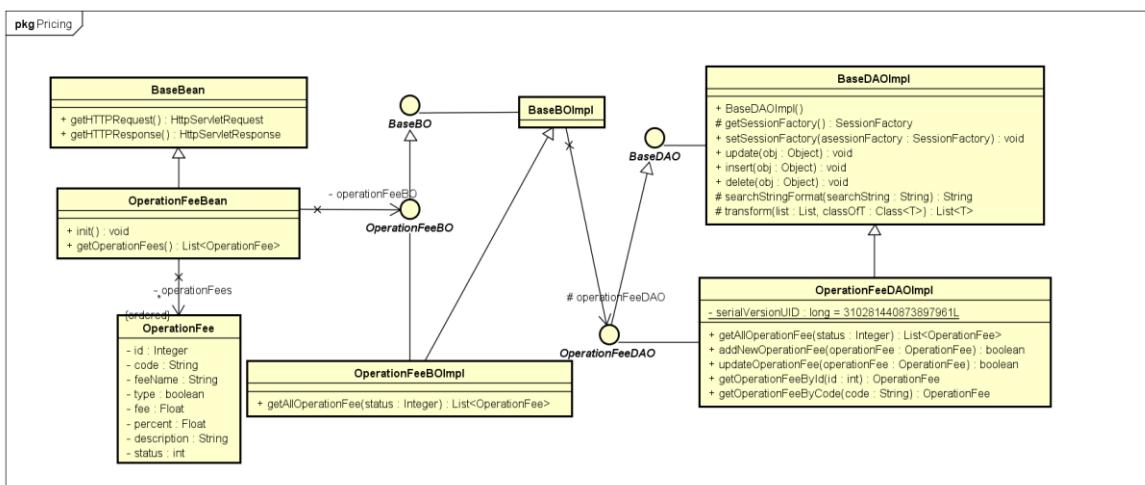


Figure 2.2-190 Price List Class Diagram

• Screen Design

Figure 2.2-191 Fee List

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Danh sách các loại chi phí	feeDataTable	dataTable			

• Sequence Diagram

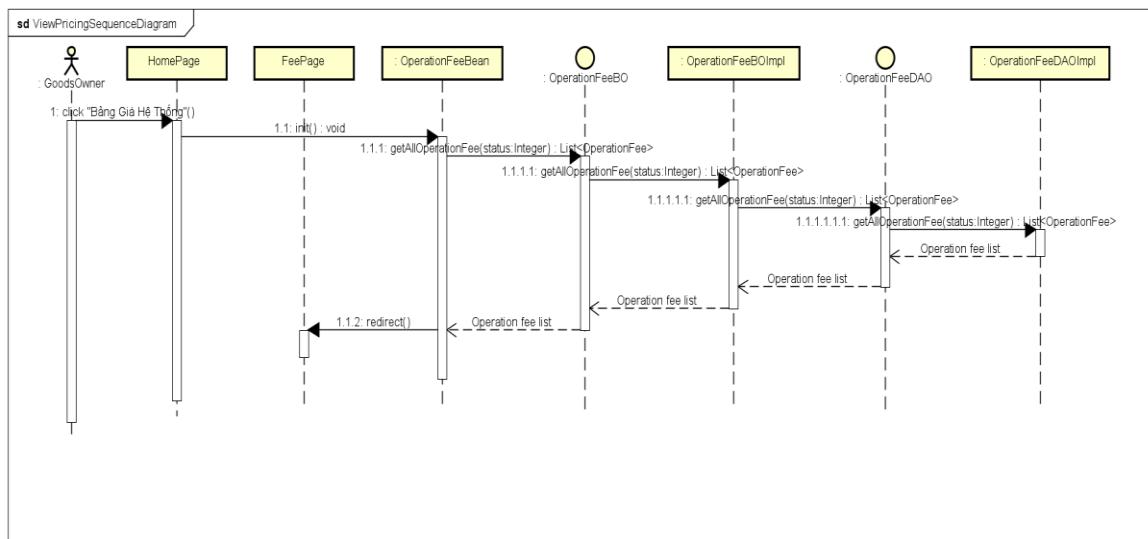


Figure 2.2-192 Fee List Sequence Diagram

2.2.57 Goods owner Login

- Class Diagram

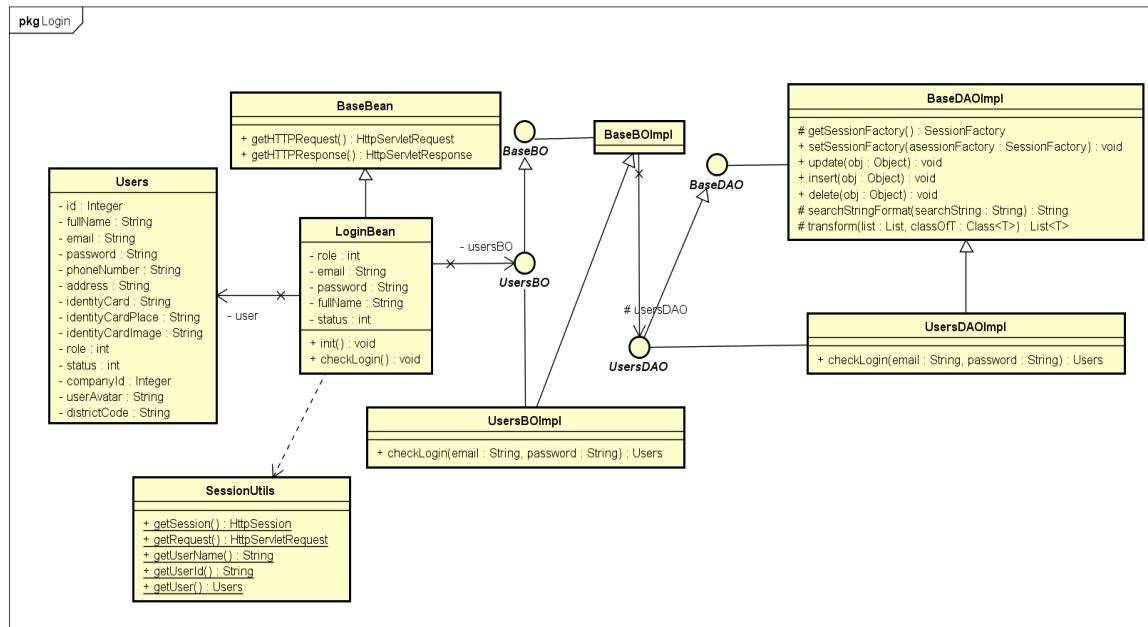


Figure 2.2-193 Login

- Screen Design

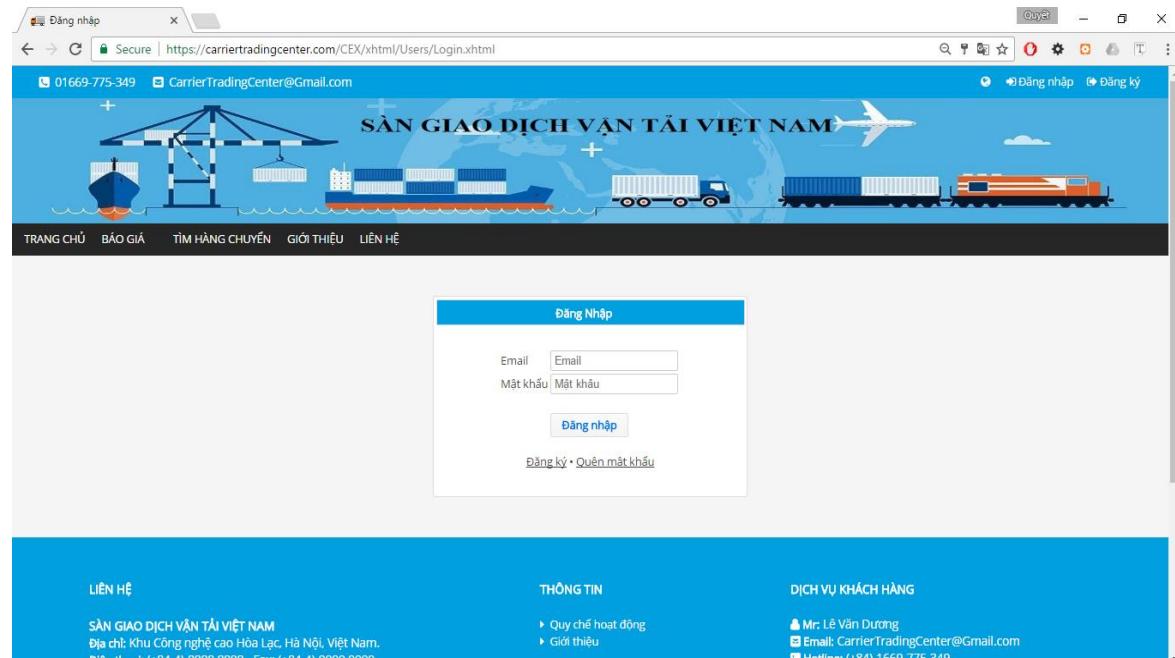


Figure 2.2-194 Login

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Email	email	inputText	Yes		

2	Mật khẩu	password	password	Yes		
3	Đăng nhập	login	commandButton			
4	Đăng ký	register	href link			
5	Quên mật khẩu	forgotPassword	href link			

- Sequence Diagram

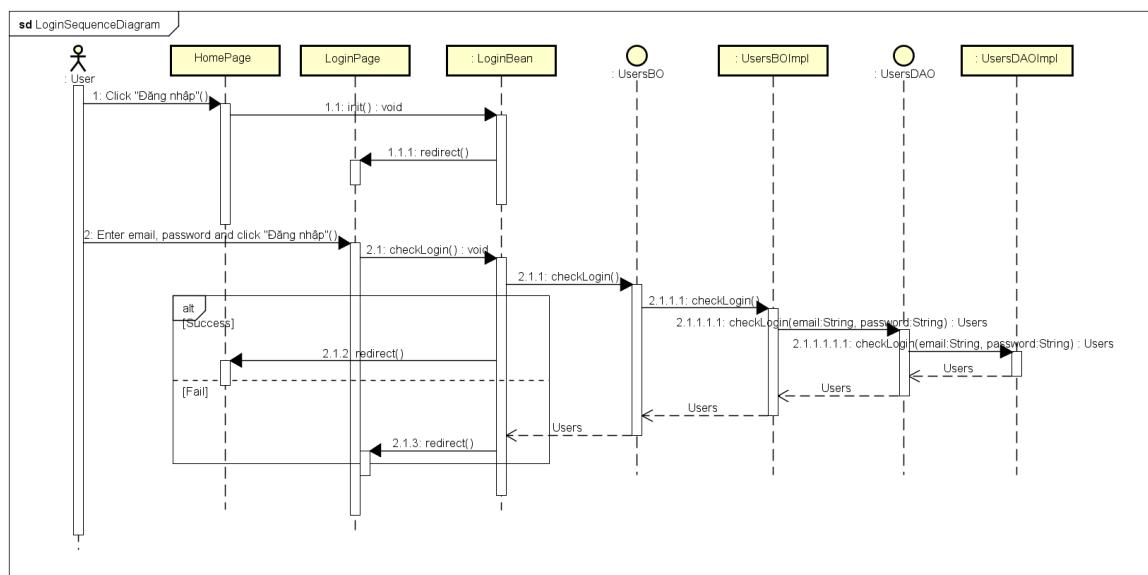


Figure 2.2-195 Login Sequence Diagram

2.2.58 Goods owner logout

- Class Diagram

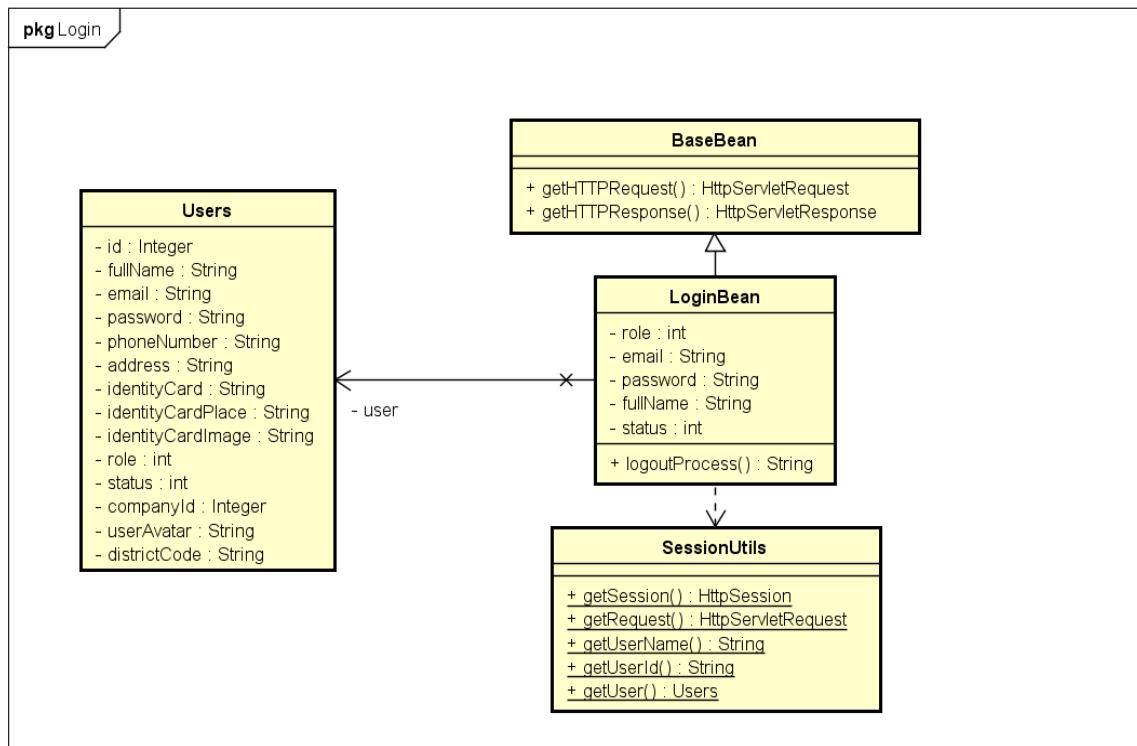


Figure 2.2-196 Logout Class Diagram

- Screen Design

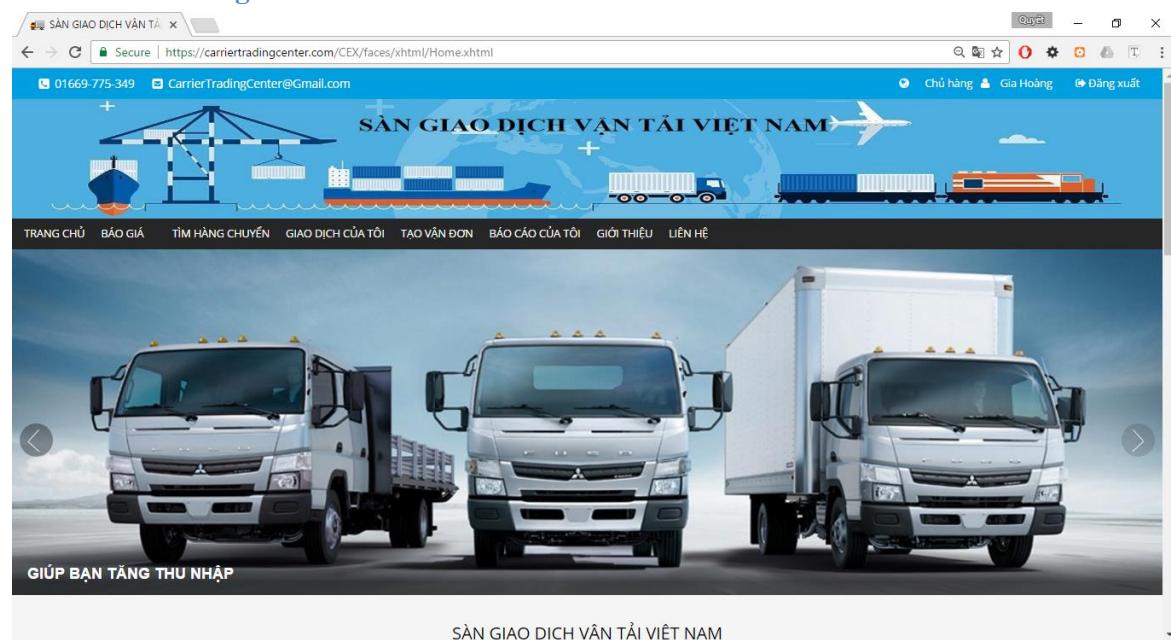


Figure 2.2-197 Logout

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
----	---------------------	--------------------------------	------	----------	--------	-------------

1	Đăng xuất	logout	commandLink			
---	-----------	--------	-------------	--	--	--

- Sequence Diagram

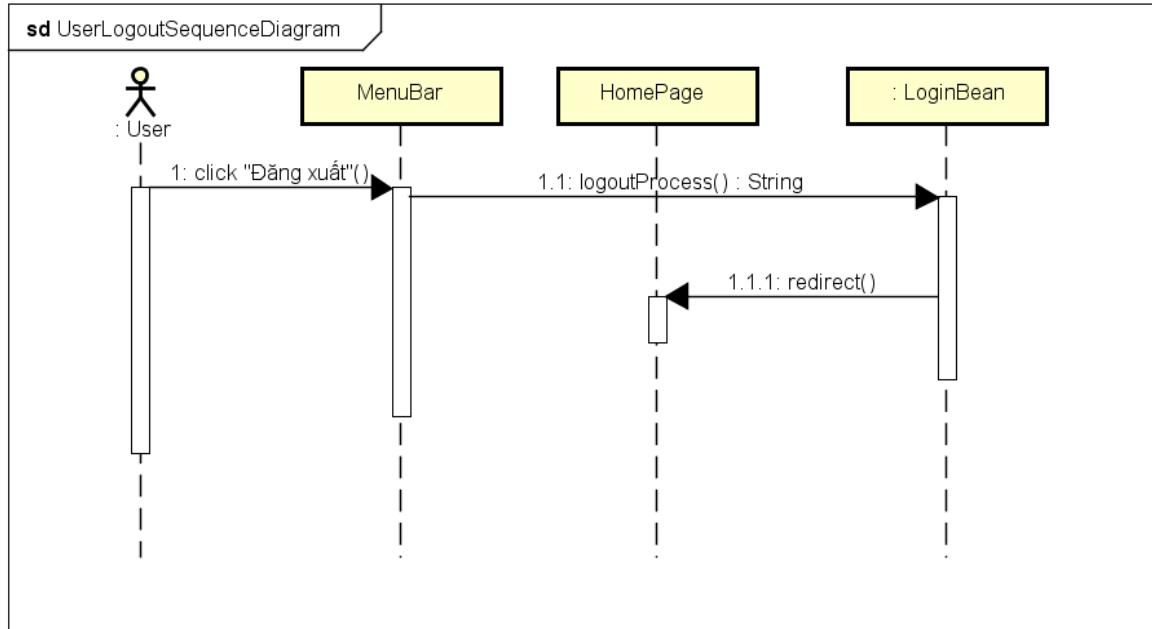


Figure 2.2-198 Logout Sequence Diagram

2.2.59 Goods owner cancel report

- Class Diagram

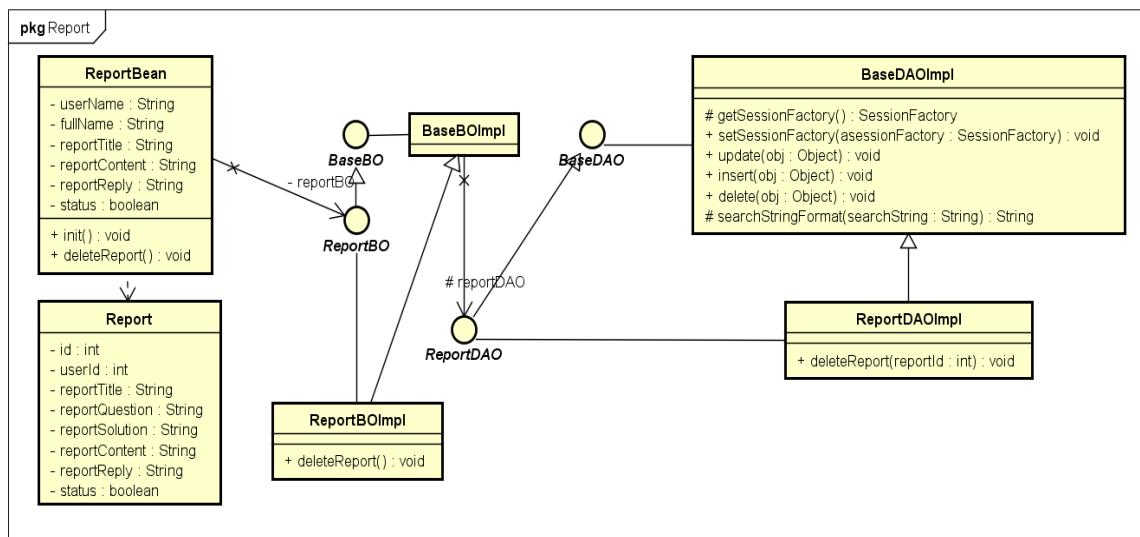


Figure 2.2-199 Cancel Report Class Diagram

• Screen Design

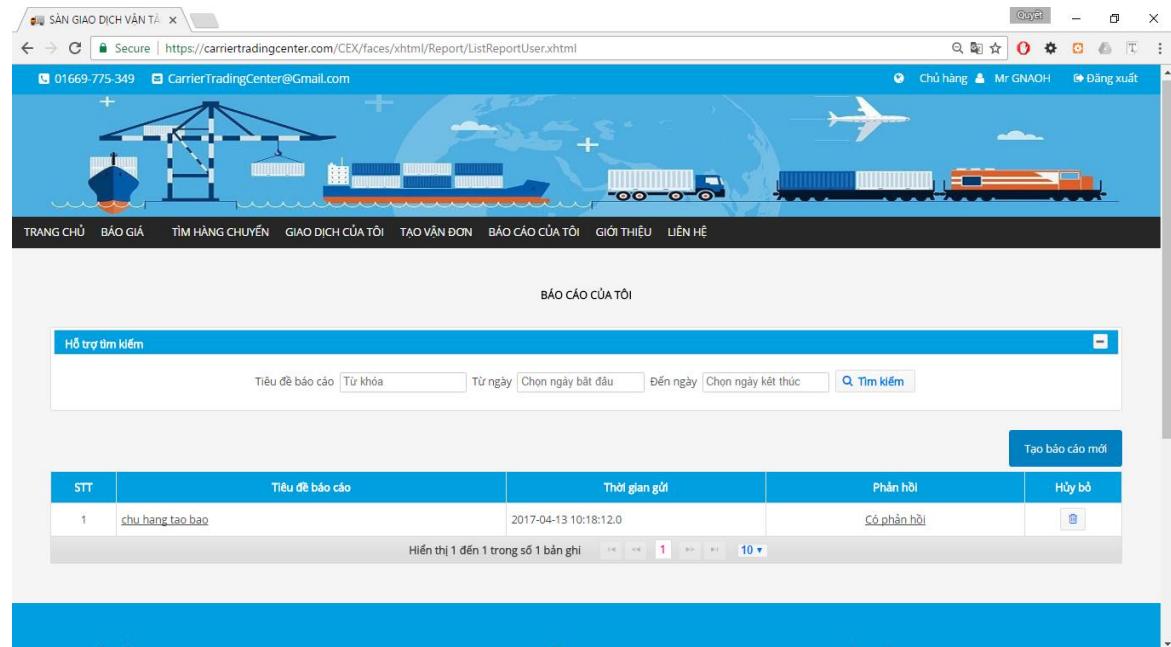


Figure 2.2-200 List Report

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Hỗ trợ tìm kiếm		panelGrid			
2	Tiêu đề báo cáo	reportTitle	inputText	No	75	
3	Từ ngày	reportDateBegin	calendar	No		
4	Đến ngày	reportDateEnd	calendar	No		
5	Tìm kiếm	search	commandButton			
6	Hủy bỏ	cancel	commandButton			
7	Danh sách báo cáo	litsReport	dataTable			

- Sequence Diagram

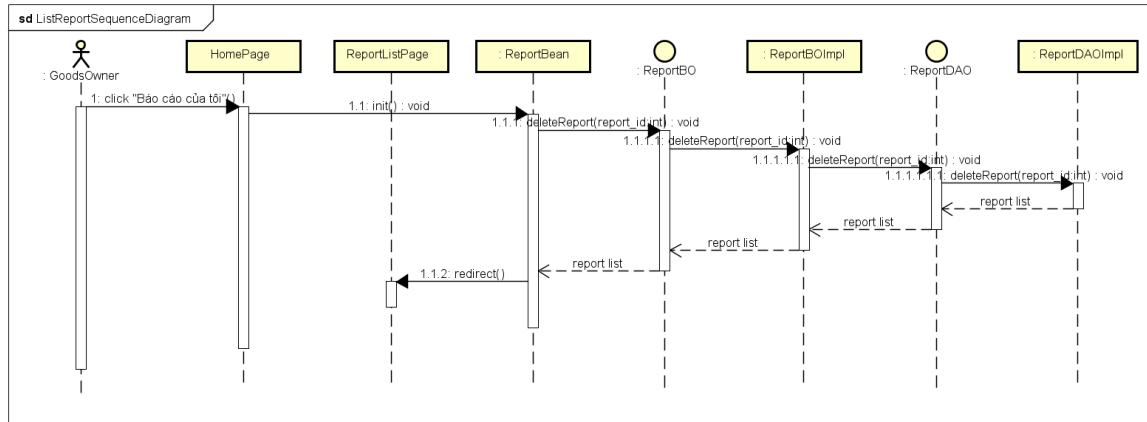


Figure 2.2-201 Cancel Report Sequence Diagram

2.2.60 Carrier view list bill of lading

- Class Diagram

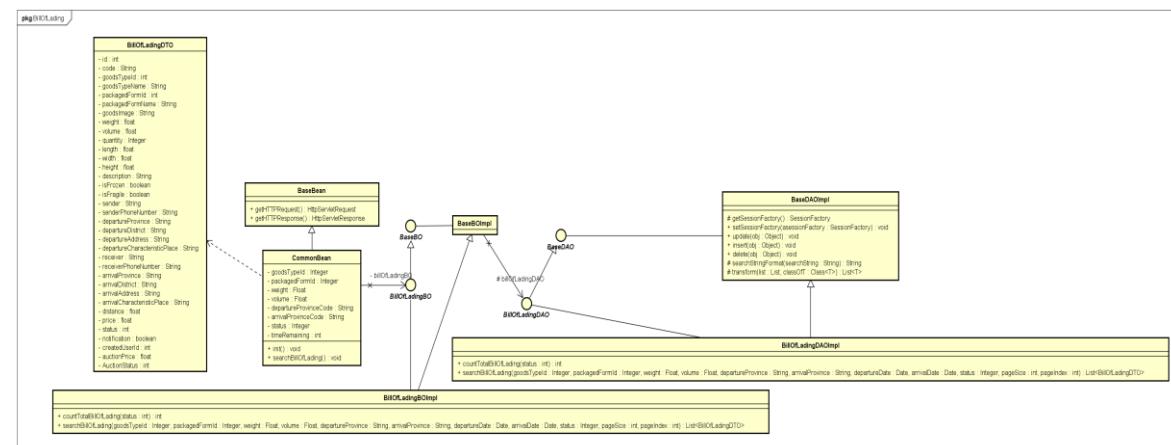


Figure 2.2-202 View List Bill of Lading

• Screen Design

STT	Hình ảnh	Loại hàng	Hình thức đóng gói	Lộ trình	Khối lượng	Thể tích	Thời gian còn lại	Giá tham chiếu	XEM
1		Đồ uống	Thùng cát tông	Sơn Đông, Bắc Giang - Tiền Hải, Thái Bình 04.05.2017 22:30:33 - 19.05.2017 22:30:33	12000.0 (kg)	100.0 (m³)	19 ngày	50,000,000 (VNĐ)	
2		Đông vật	Thùng gỗ	Kim Bảng, Hà Nam - Đăk Đoa, Gia Lai 05.05.2017 22:30:33 - 19.05.2017 22:30:33	21000.0 (kg)	200.0 (m³)	21 ngày	20,000,000 (VNĐ)	
3		Hàng điện tử	Cuộn	Kim Bảng, Hà Nam - Đăk Đoa, Hà Nội 05.05.2017 22:30:44 - 20.05.2017 22:30:44	3200.0 (kg)	100.0 (m³)	19 ngày	20,000,000 (VNĐ)	

Figure 2.2-203 List Bills of Lading

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Loại Hàng	goodTypeId	selectOneMenu	No		
2	Hình thức đóng gói	packageFormId	selectOneMenu	No		
3	Khối lượng	weight	inputText	No		
4	Thể tích	volume	inputText	No		
5	Địa điểm đi	slbDepartureProvinceID	selectOneMenu	No		
6	Địa điểm đến	slbArrivalProvinceID	selectOneMenu	No		
7	Thời gian đi	departureDate	calendar	No		
8	Thời gian đến	arrivalDate	calendar	No		
9	Tìm kiếm	search	commandButton			
10	Danh sách đơn hàng	table_billoflading	dataTable			

- **Sequence Diagram**

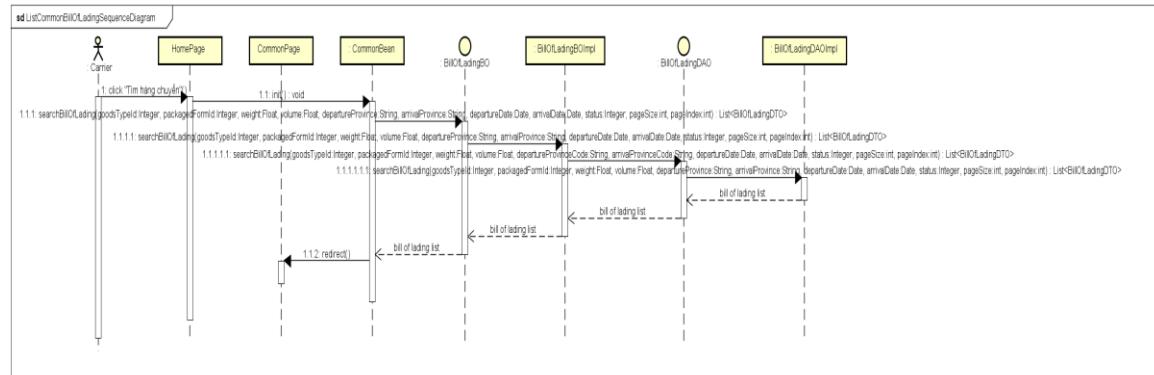


Figure 2.2-204 List Bill of Lading Sequence Diagram

2.2.61 Carrier view bill of lading detail

- **Class Diagram**

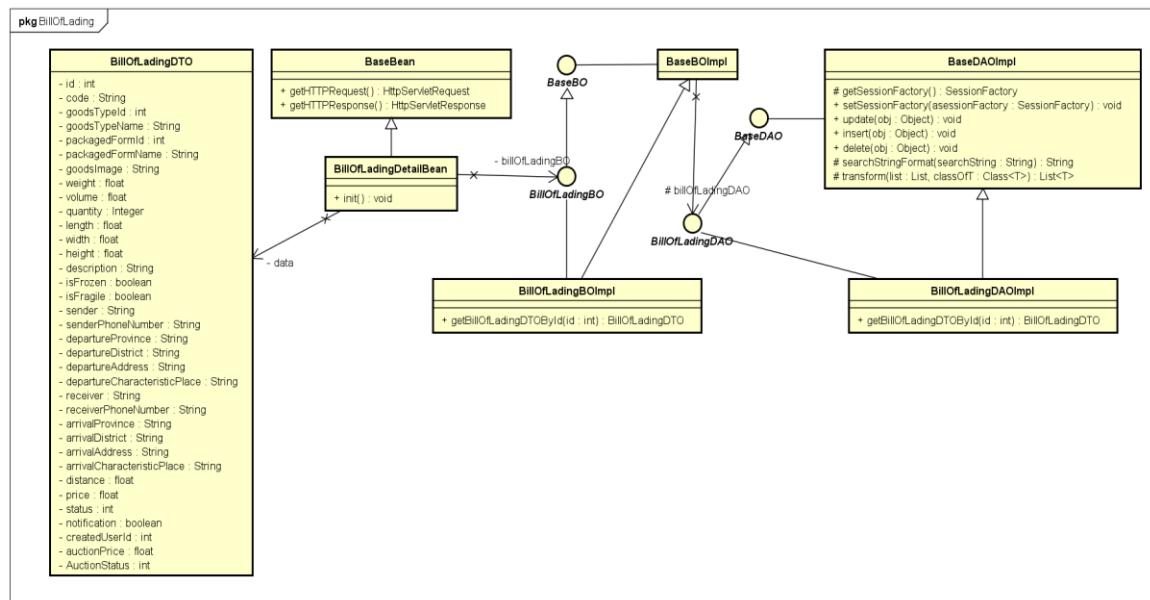


Figure 2.2-205 Detail Bills of Lading Class Diagram

- Screen Design

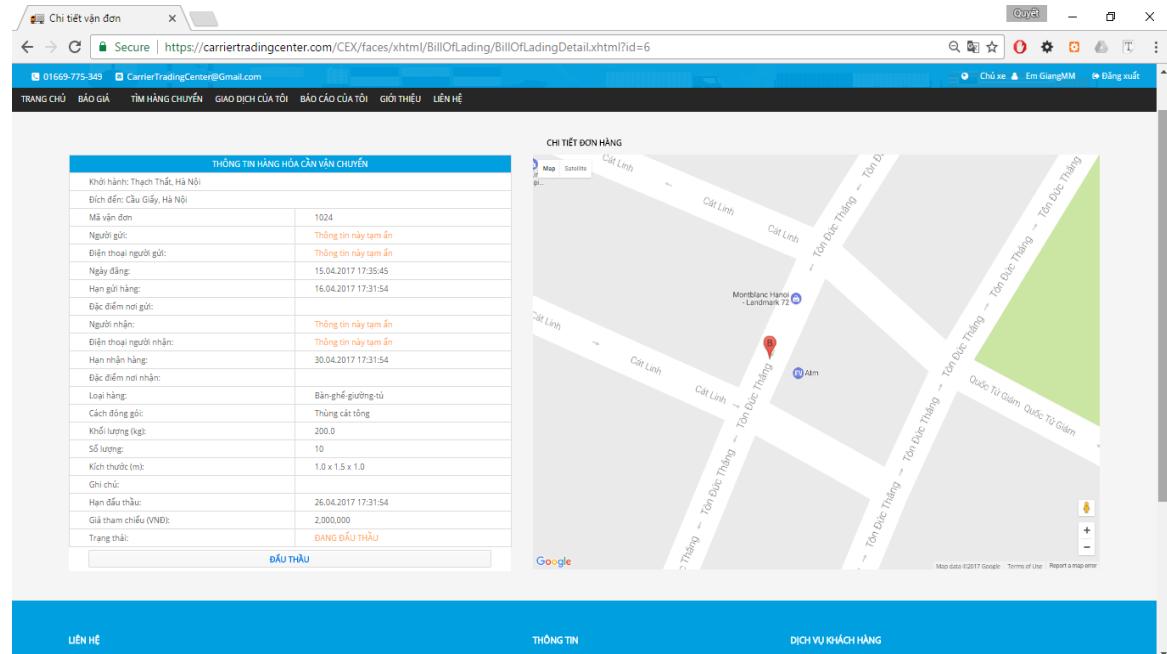


Figure 2.2-206 Detail Bills of Lading

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin hàng hóa cần vận chuyển	goodInformation	selectOneMenu			
2	Google Map	map	javaScript			
3	Đấu thầu	auction	commandButton			

- Sequence Diagram

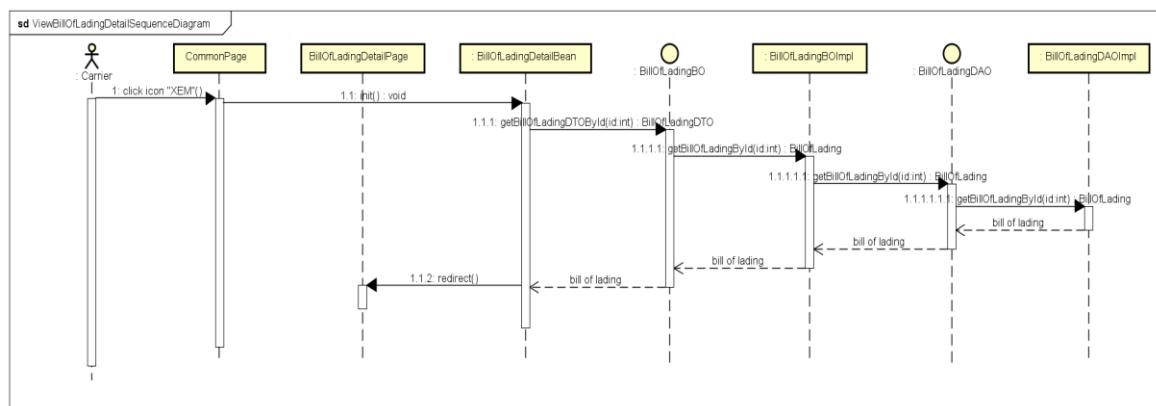


Figure 2.2-207 Detail Bills of Lading Sequence Diagram

2.2.62 Carrier auction bill of lading

- Class Diagram

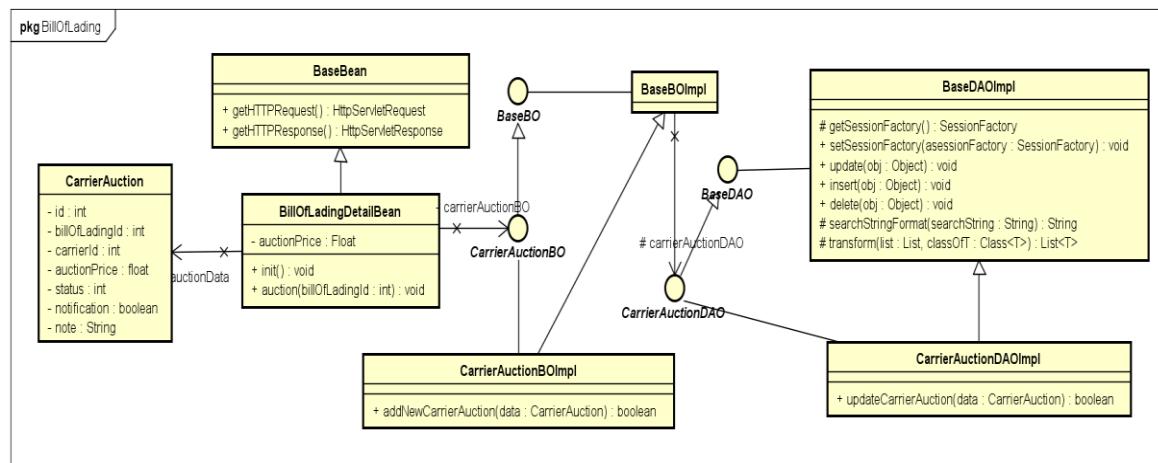


Figure 2.2-208 Auction Bill of Lading Class Diagram

- Screen Design

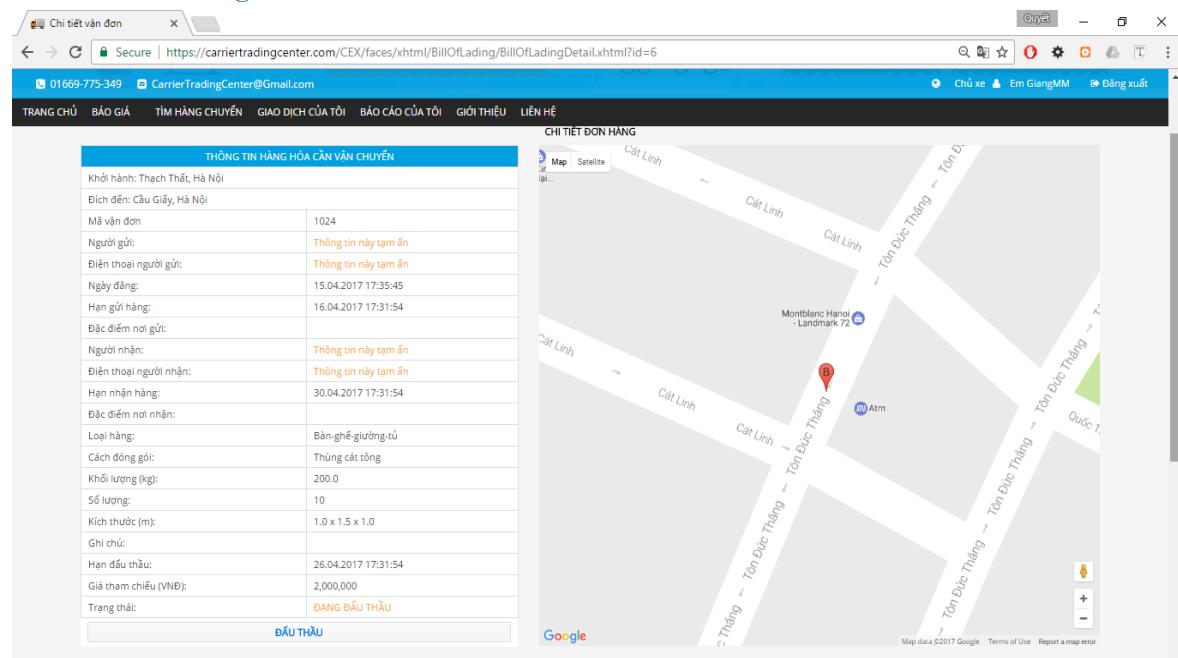


Figure 2.2-209 Auction Bills of Lading

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin hàng hóa cần vận chuyển	good_information	panelGrid			
2	Gmap	gmap	Java script			
3	Đầu thầu	auction	commandButton			

- Sequence Diagram

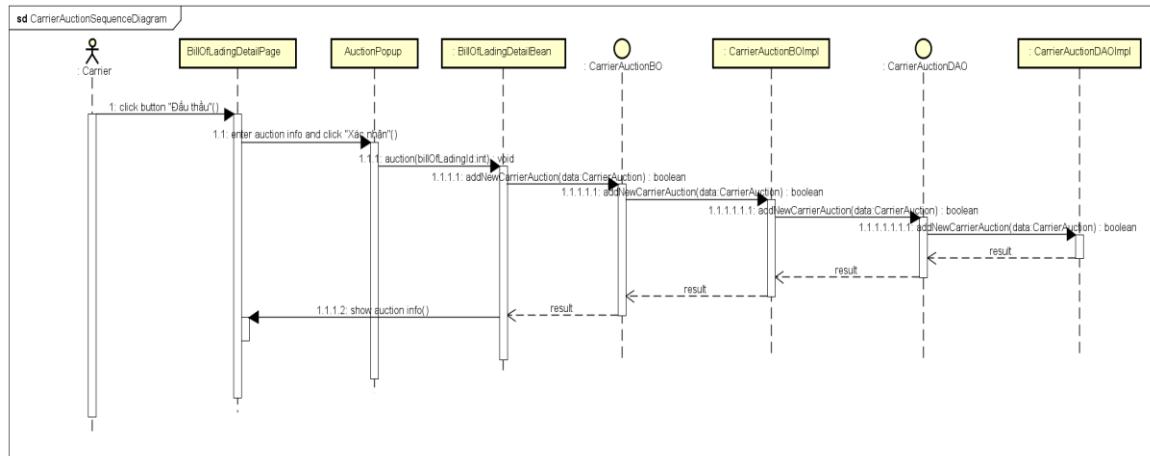


Figure 2.2-210 Auction Bill of Lading Sequence Diagram

2.2.63 Carrier account recharge

- Class Diagram

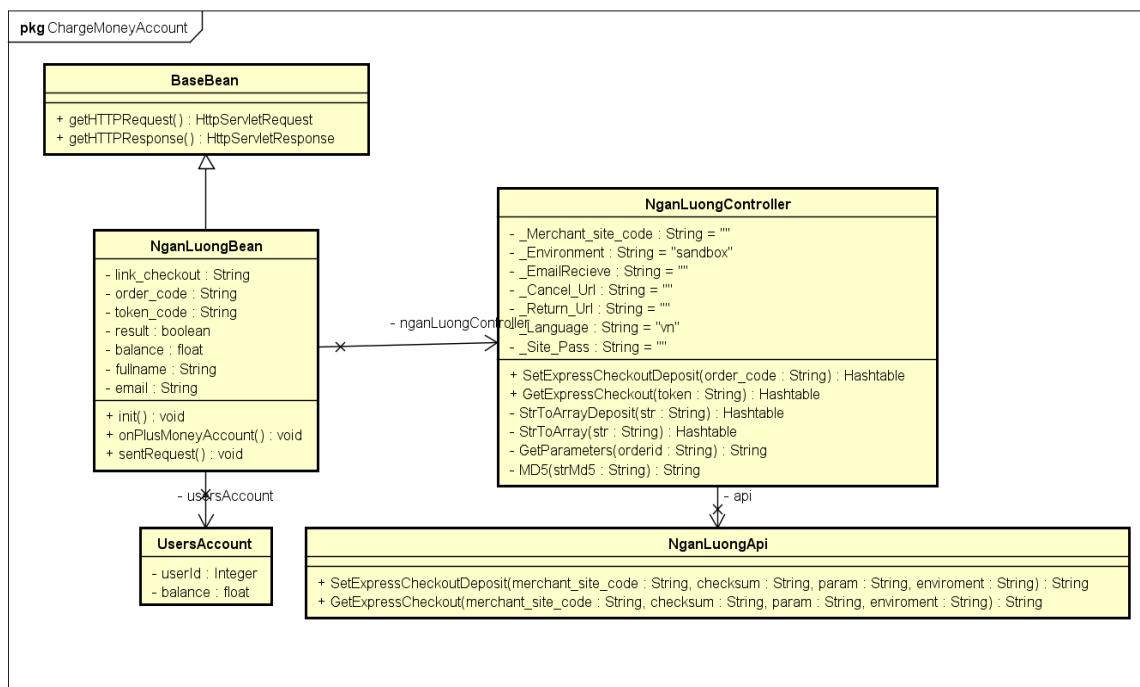


Figure 2.2-211 Account Recharge Class Diagram

- Screen Design

Figure 2.2-212 Account Recharge

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Nạp tiền vào tài khoản	accountRecharge	NganLuong API			

- Sequence Diagram

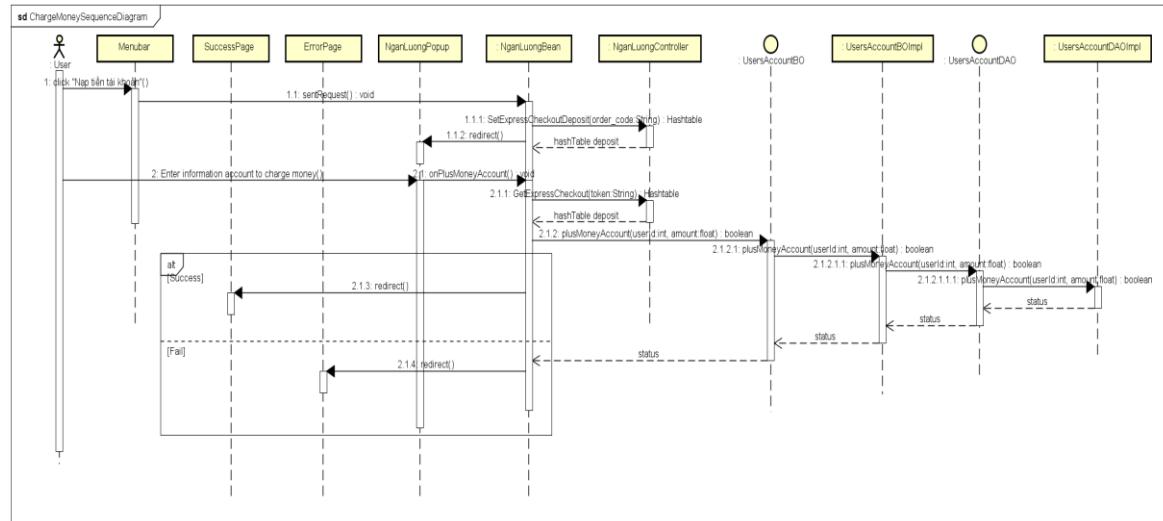


Figure 2.2-213 Account Recharge Sequence Diagram

2.2.64 Carrier search bill of lading

- Class Diagram

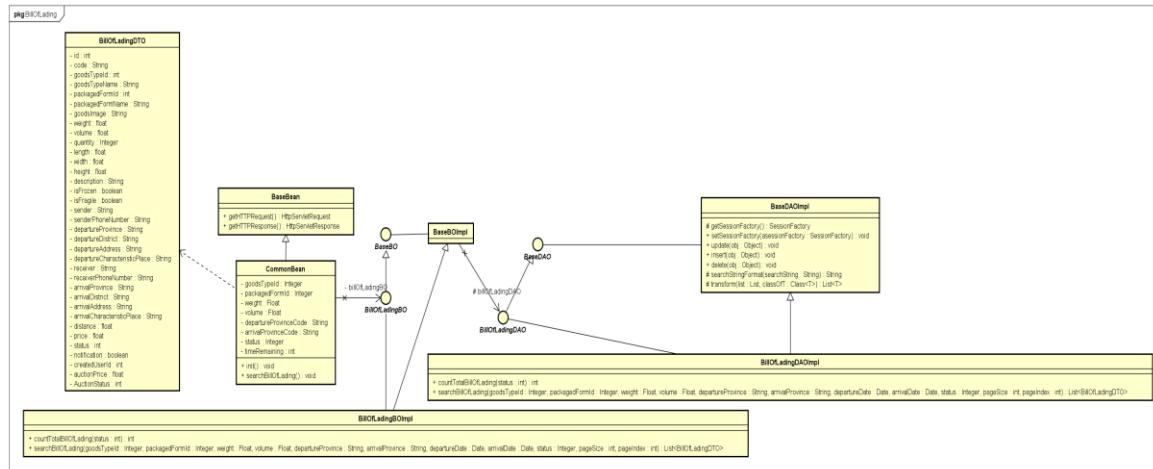


Figure 2.2-214 Search Bill of Lading Class Diagram

• Screen Design

SÀN GIAO ĐỊCH VẬN TẢI

01669-775-349 CarrierTradingCenter@Gmail.com Chủ xe Em GiangMM Đăng xuất

TRANG CHỦ BẢO GIÁ TÌM HÀNG CHUYỂN GIAO ĐỊCH CỦA TÔI BẢO CÁO CỦA TÔI GIỚI THIỆU LIÊN HỆ

SÀN GIAO ĐỊCH VẬN TẢI VIỆT NAM

Loại hàng: --lựa chọn-- Hình thức đóng gói: --lựa chọn-- Khối lượng < (kg) Thể tích < (m³)

Địa điểm đi: --lựa chọn-- Địa điểm đến: --lựa chọn-- Thời gian đi: Thời gian đến:

DANH SÁCH ĐƠN HÀNG

STT	Hình ảnh	Loại hàng	Hình thức đóng gói	Lộ trình	Khối lượng	Thể tích	Thời gian còn lại	Giá tham chiếu	XEM
1		Bàn ghế giường tủ	Thùng cát tông	Thạch Thất, Hà Nội - Cầu Giấy, Hà Nội 16.04.2017 17:31:54 - 30.04.2017 17:31:54	200.0 (kg)	1.5 (m ³)	10 ngày	2,000,000 (VNĐ)	
2		Thực phẩm khô	Thùng cát tông	Nông Cống, Thanh Hóa - Từ Liêm, Hà Nội 16.04.2017 10:33:47 - 22.04.2017 10:33:47	1.0 (kg)	1.0 (m ³)	2 ngày	200 (VNĐ)	

Hiển thị 1 đến 2 trong số 2 bản ghi

Figure 2.2-215 Search Bills of lading

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Loại Hàng	goodTypeId	selectOneMenu	No		
2	Hình thức đóng gói	packageFormId	selectOneMenu	No		
3	Khối lượng	weight	inputText	No		
4	Thể tích	volume	inputText	No		
5	Địa điểm đi	slbDepartureProvinceID	selectOneMenu	No		
6	Địa điểm đến	slbArrivalProvinceID	selectOneMenu	No		
7	Thời gian đi	departureDate	calendar	No		
8	Thời gian đến	arrivalDate	calendar	No		

- Sequence Diagram

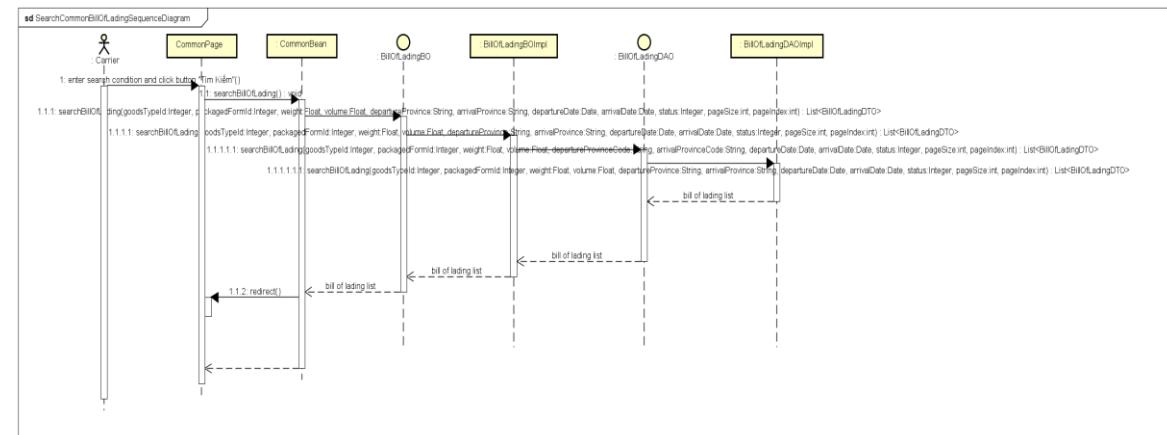


Figure 2.2-216 Search Bill of Lading Sequence Diagram

2.2.65 Carrier cancel bill of lading

- Class Diagram

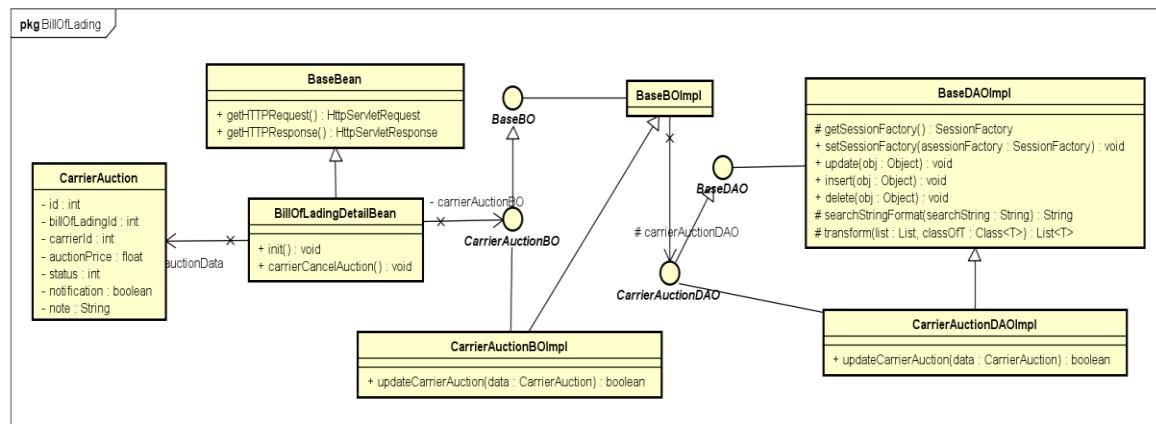
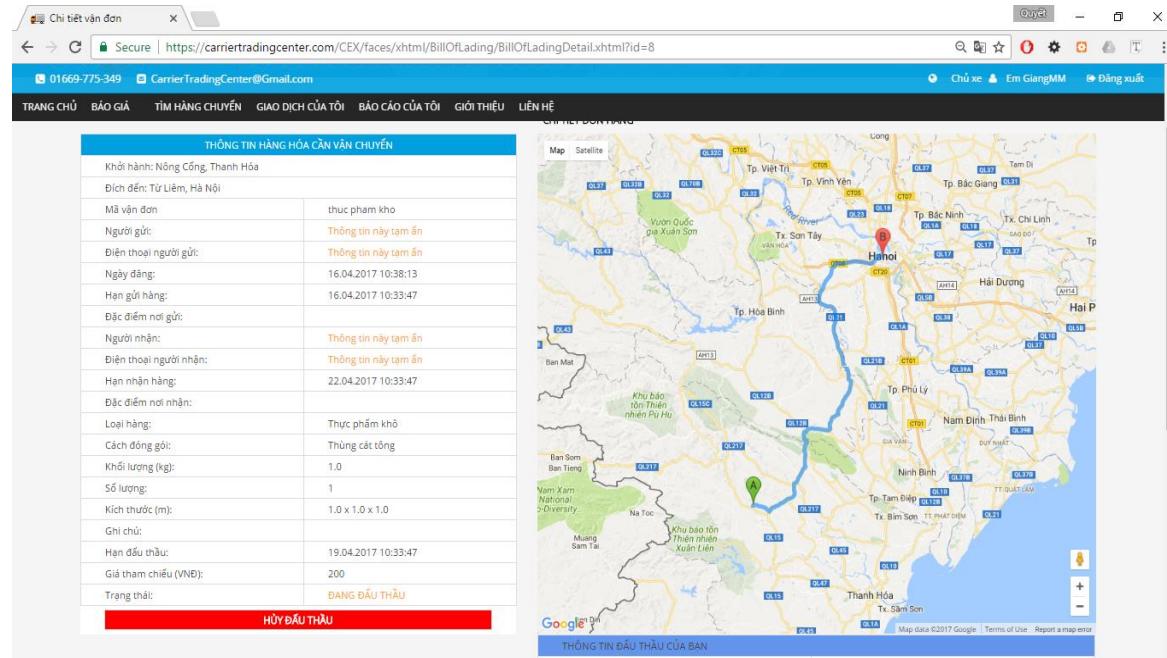


Figure 2.2-217 Cancel Bill of Lading Class Diagram

• Screen Design



No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin hàng hóa cần vận chuyển	good_information	panelGrid			
2	Gmap	gmap	Java script			
3	Hủy đấu thầu	cancelBillOfLading	commandButton			

• Sequence Diagram

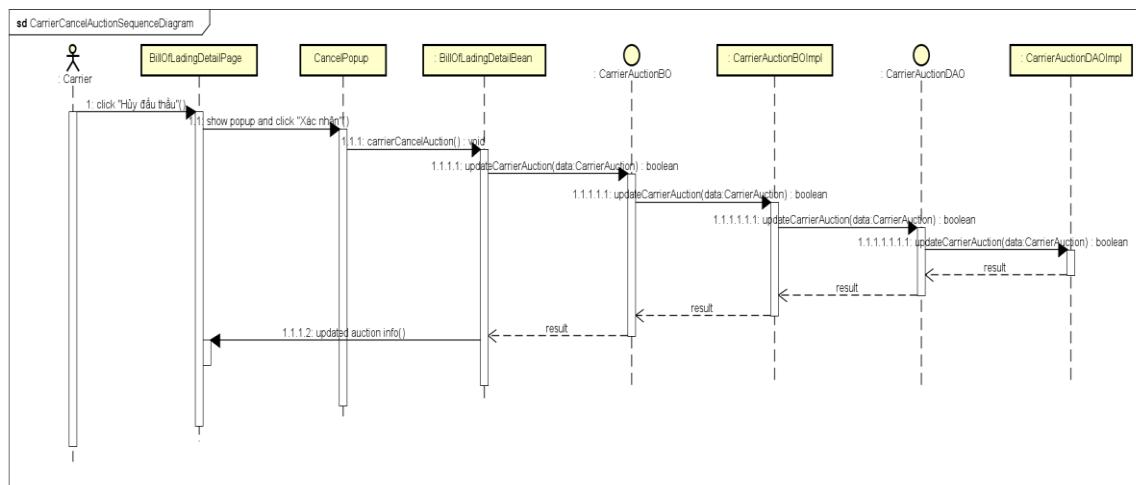


Figure 2.2-218 Carrier Cancel Bill of Lading Sequence Diagram

2.2.66 Carrier view profile

- Class Diagram

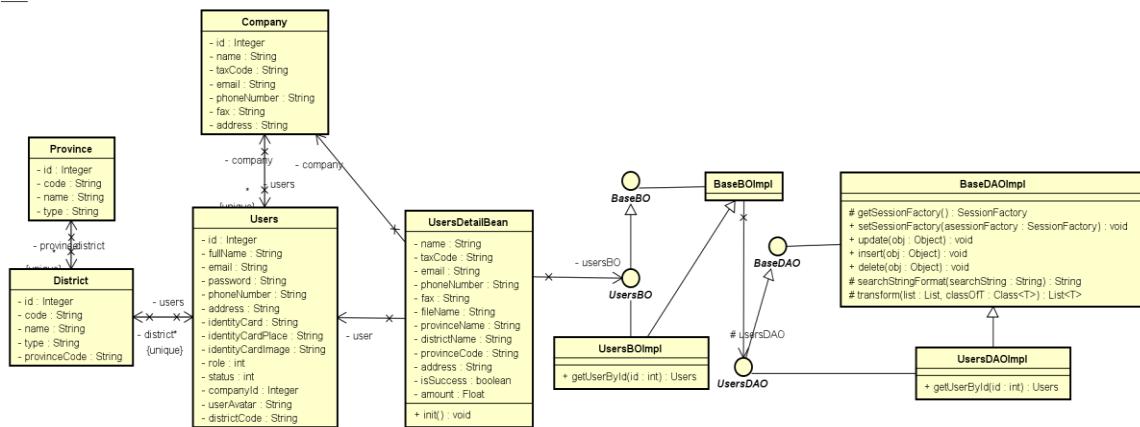


Figure 2.2-219 View Profile

- Screen Design

2.2.66.1.1 Case does not Exist Company Information

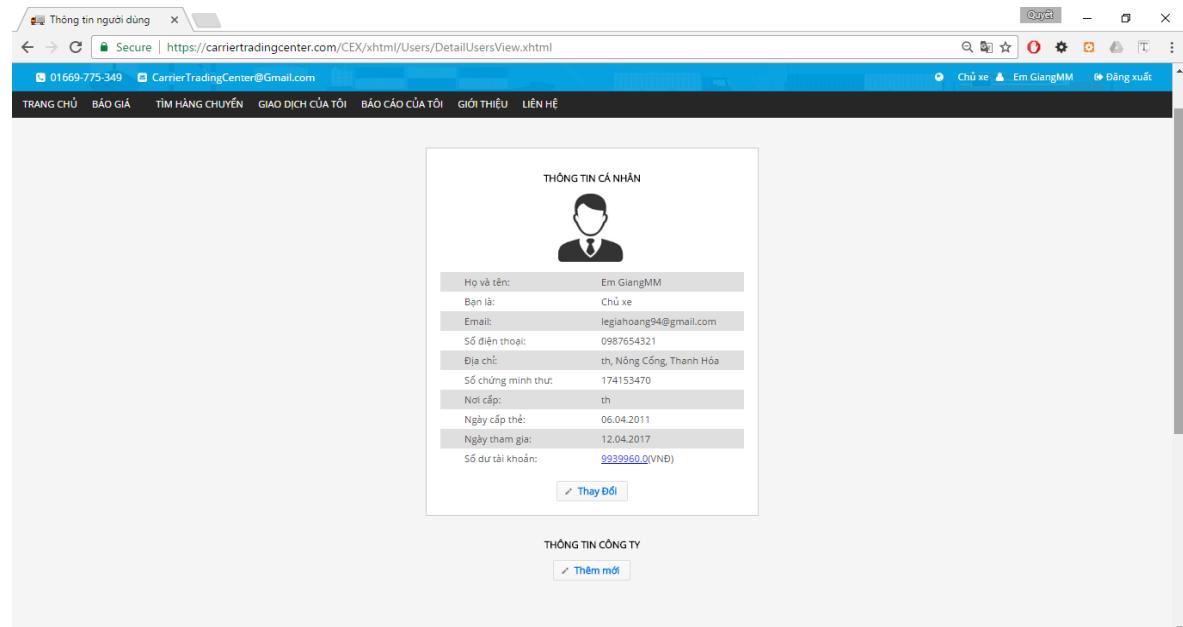


Figure 2.2-220 User Detail Information (part 1)

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin cá nhân	userDetailInformation	panelGrid	Yes		
2	Thông tin công ty	companyInformation	panelGrid	No		
3	Thay đổi	change	commandButton			
4	Thêm mới	addNew	commandButton			

2.2.66.1.2 Case Exist Company Information

Figure 2.2-221 User Detail Information (part 2.1)

Figure 2.2-222 User Detail Information (part 2.2)

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin cá nhân	userDetailInformation	panelGrid	Yes		
2	Thông tin công ty	companyInformation	panelGrid	No		
3	Thay đổi		commandButton			

4	Thay đổi		commandButton			
---	----------	--	---------------	--	--	--

- Sequence Diagram

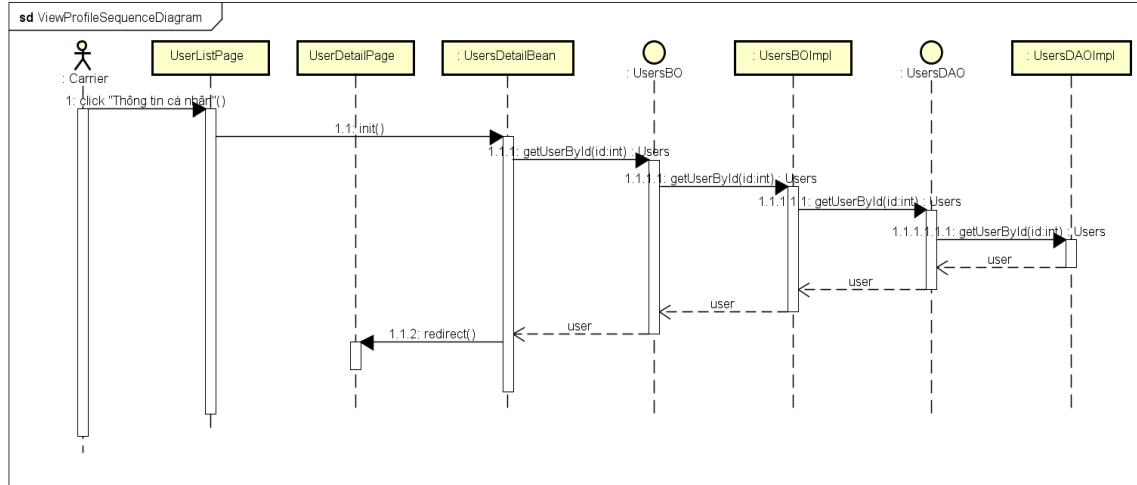


Figure 2.2-223 View Profile Sequence Diagram

2.2.67 Carrier edit profile

- Class Diagram

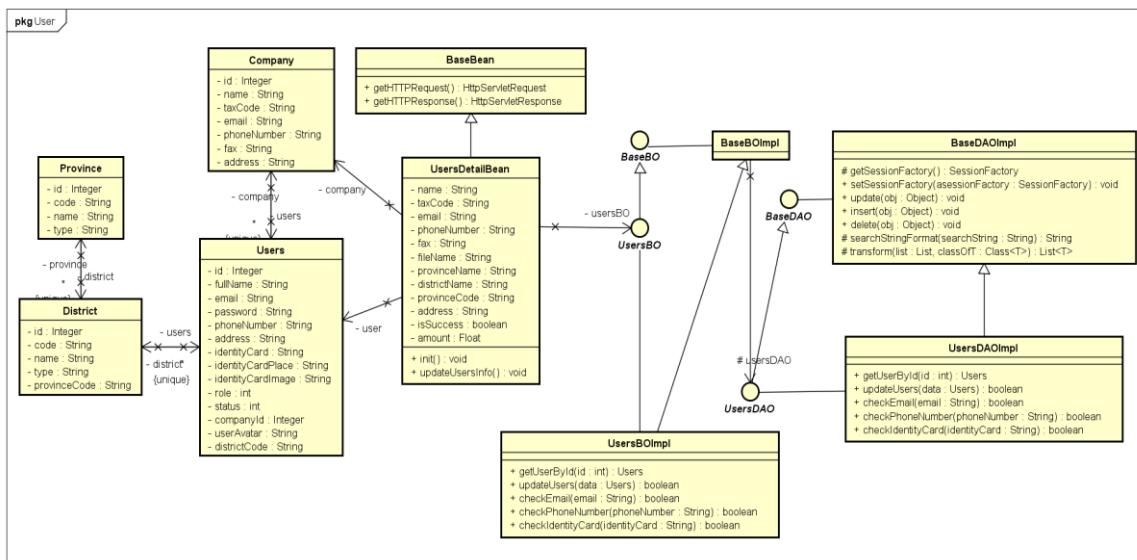


Figure 2.2-224 Edit Profile Class Diagram

• Screen Design

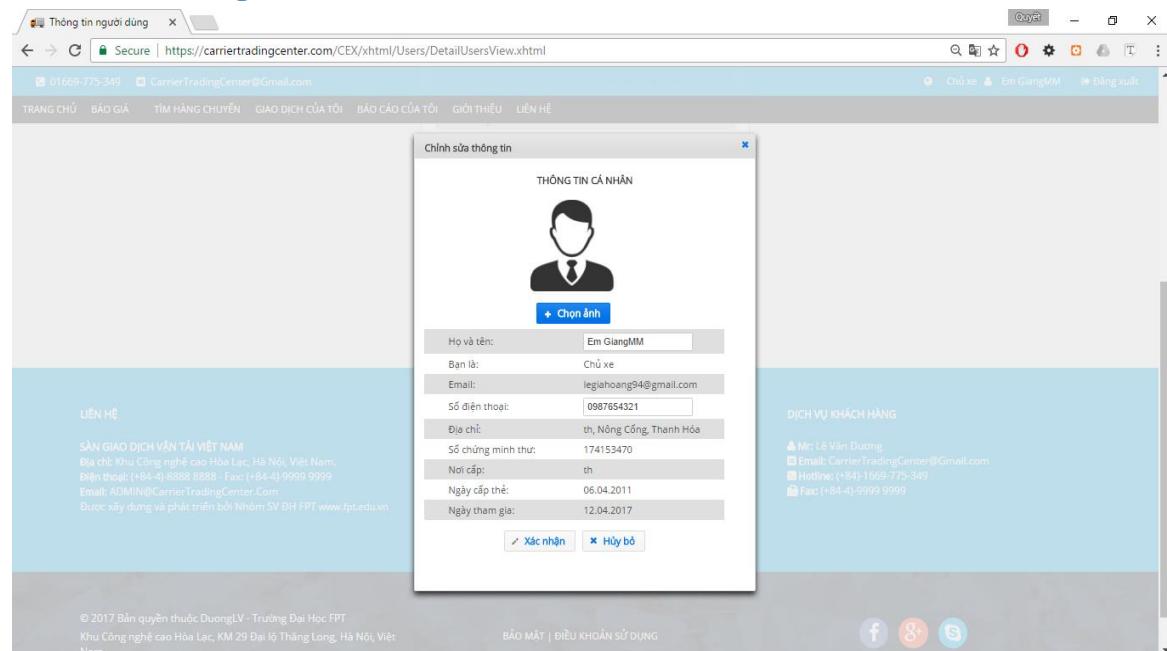


Figure 2.2-225 Edit Profile

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1.	avatar	avatar	graphicImage			
2.	Chọn ảnh	chooseImg	fileUpload			
3.	Họ và tên	fullName	inputText			
4.	Email	email	outputable			
5.	Số điện thoại	phoneNumber	inputText			
6.	Địa chỉ	address	outputable			
7.	Tỉnh/Thành phố	province	outputable			
8.	Quận/Huyện	district	outputable			
9.	Số chứng minh thư	identityCard	outputable			
10.	Nơi cấp	identityCardPlace	outputable			
11.	Ngày cấp	identityCardDate	outputable			
12.	Ngày tham gia	dateCreate	outputable			
13.	Lưu thay đổi	save	commandButton			
14.	Hủy bỏ	cancel	commandButton			

- **Sequence Diagram**

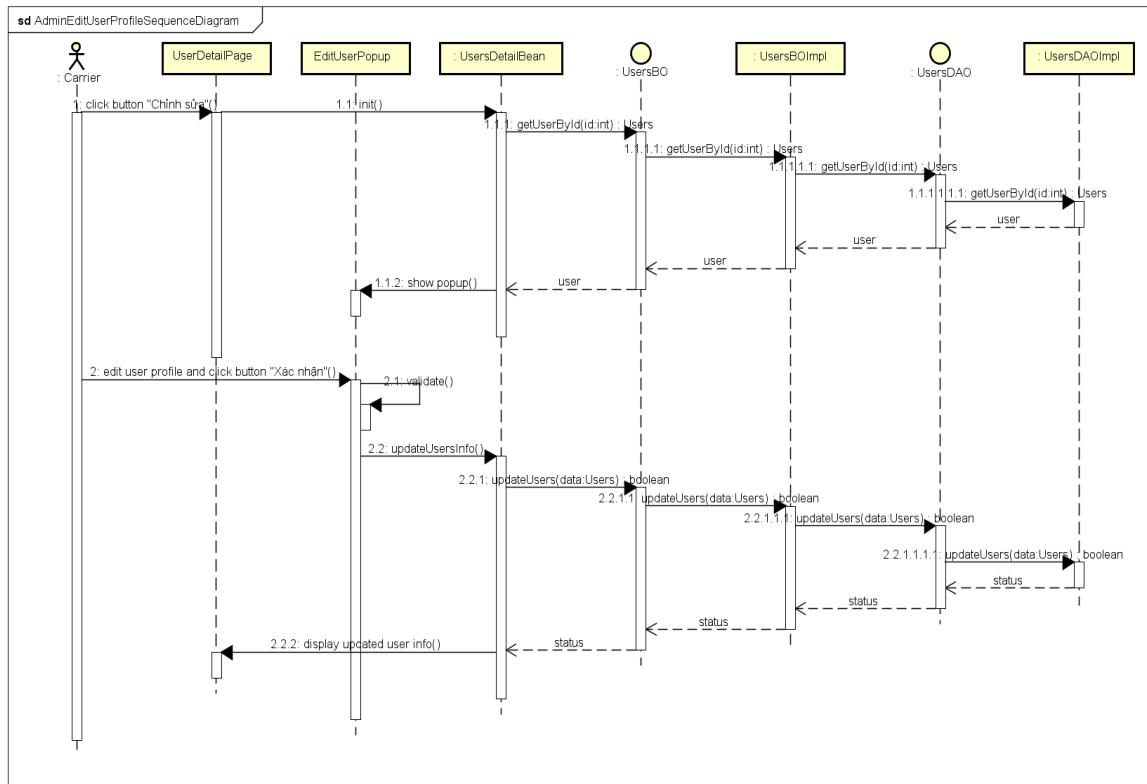


Figure 2.2-226 Edit profile Sequence Diagram

2.2.68 Carrier change password

- Class Diagram

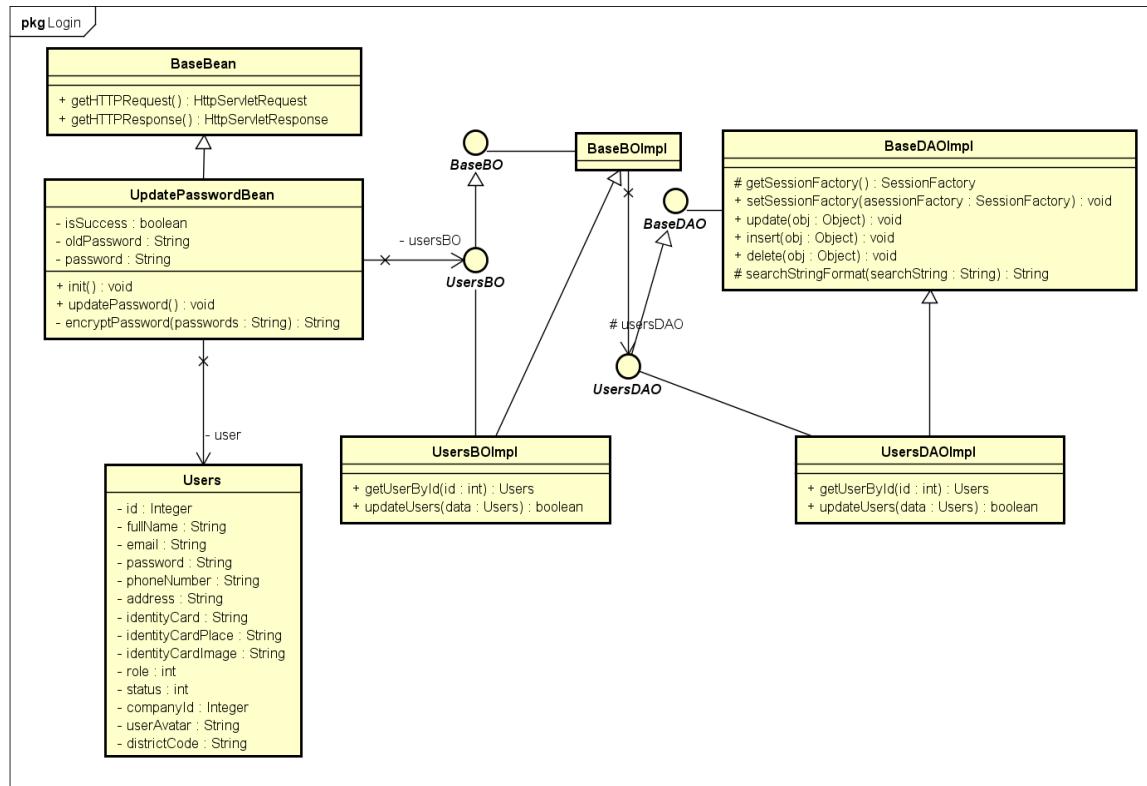


Figure 2.2-227 Change Password Class Diagram

- Screen Design

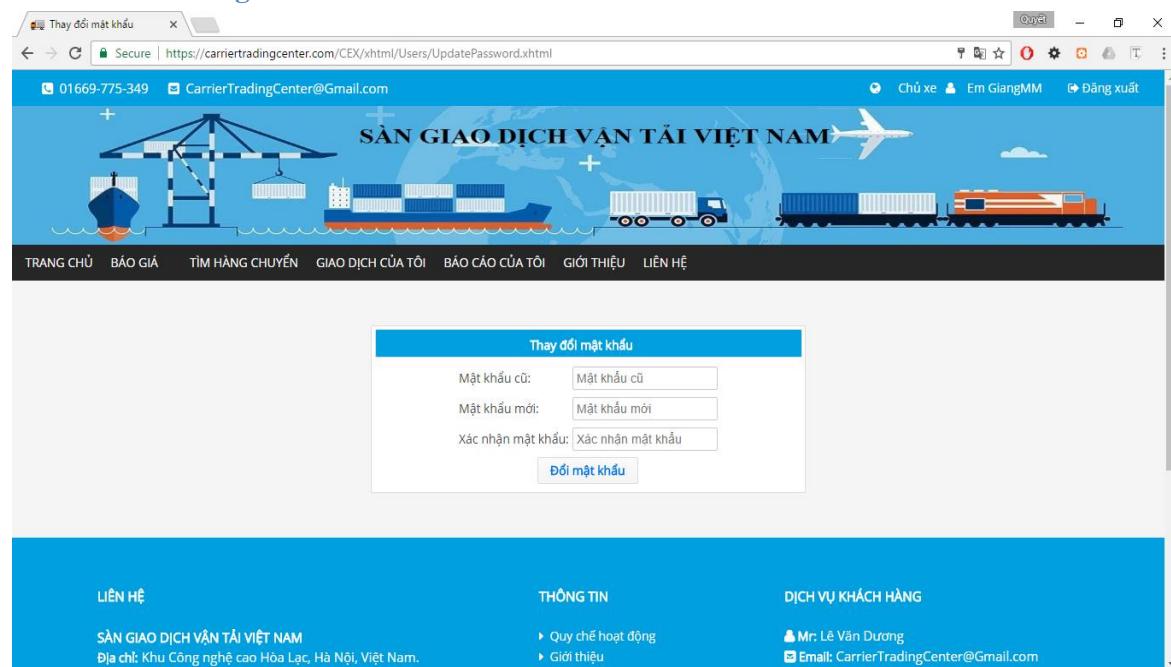


Figure 2.2-228 Update Password

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thay đổi mật khẩu	resetPassword	panelGrid			
2	Mật khẩu cũ	fullName	password			
3	Mật khẩu mới	role	password			
4	Xác nhận mật khẩu	email	password			
5	Đổi mật khẩu	phoneNumber	commandButton			

- Sequence Diagram

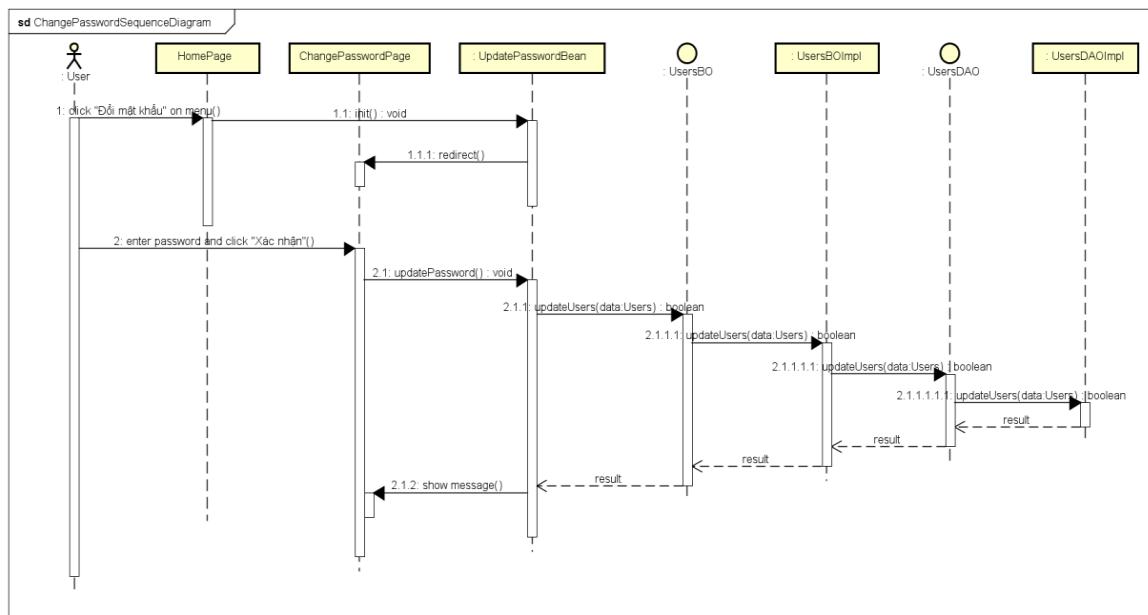


Figure 2.2-229 Update Password Sequence Diagram

2.2.69 Carrier forgot password

- **Class Diagram**

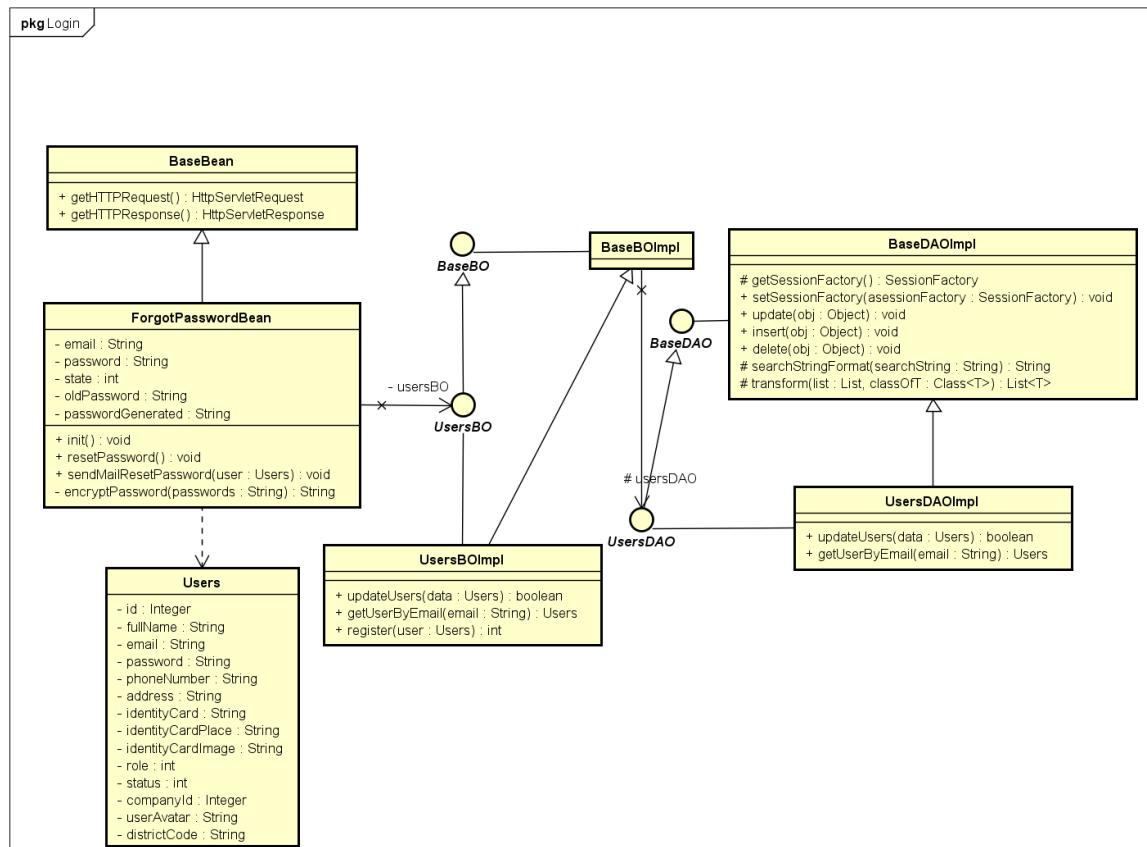


Figure 2.2-230 Forgot Password Class Diagram

- **Screen Design**

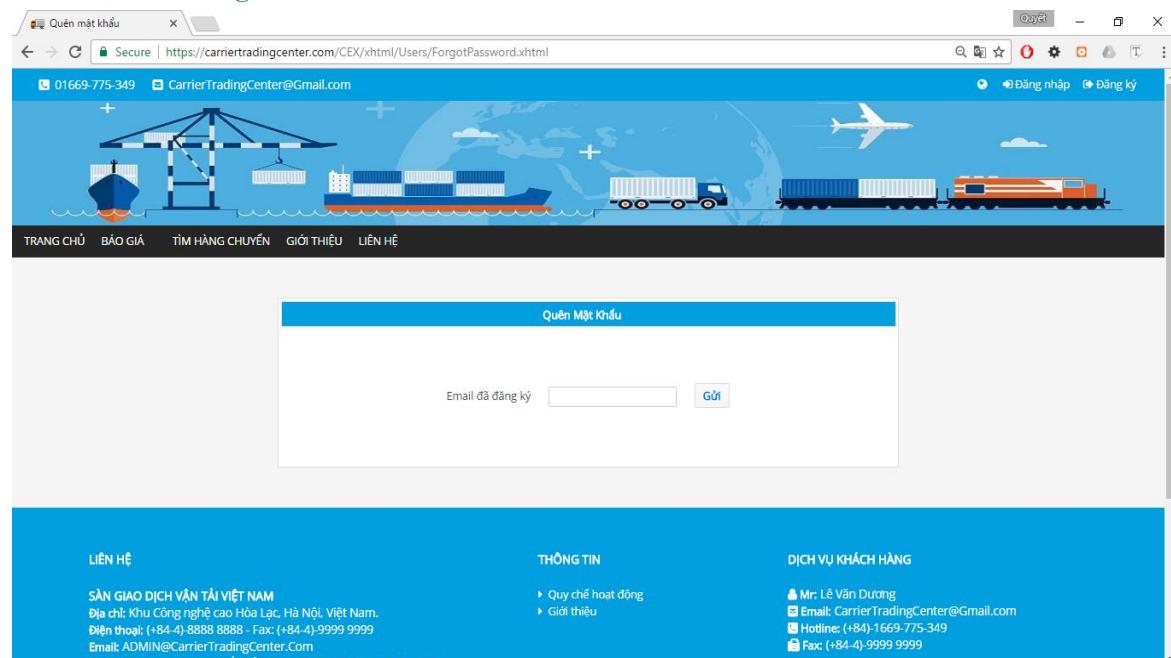


Figure 2.2-231 Send Mail Reset Password

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Quên mật khẩu	forgotPassword	panelGrid			
2	Email đã đăng ký	email	inputText			
3	Gửi	send	commandButton			

Thay đổi mật khẩu

Địa chỉ Email: * Email

Mật khẩu cũ: * Mật khẩu cũ

Mật khẩu mới: * Mật khẩu mới

Xác nhận mật khẩu: * Xác nhận mật khẩu

Đổi mật khẩu

TRANG CHỦ BẢO GIÁ TÌM HÀNG CHUYỂN GIỚI THIỆU LIÊN HỆ

LIÊN HỆ

SÀN GIAO DỊCH VẬN TẢI VIỆT NAM

Địa chỉ: Khu Công nghệ cao Hòa Lạc, Hà Nội, Việt Nam.

Điện thoại: (+84-4)-8888 8888 - Fax: (+84-4)-9999 9999

Email: ADMIN@CarrierTradingCenter.Com

Được xây dựng và phát triển bởi Nhóm SV DH FPT www.fpt.edu.vn

THÔNG TIN

► Quy chế hoạt động

► Giới thiệu

DỊCH VỤ KHÁCH HÀNG

► Mr. Lê Văn Dương

► Email: CarrierTradingCenter@gmail.com

► Hotline: (+84)-1669-775-349

► Fax: (+84-4)-9999 9999

Figure 2.2-232 Reset Password

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thay đổi mật khẩu	resetPassword	panelGrid			
2	Địa chỉ email	chooseImg	inputText			
3	Mật khẩu cũ	fullName	password			
4	Mật khẩu mới	role	password			
5	Xác nhận mật khẩu	email	password			
6	Đổi mật khẩu	phoneNumber	commandButton			

- Sequence Diagram

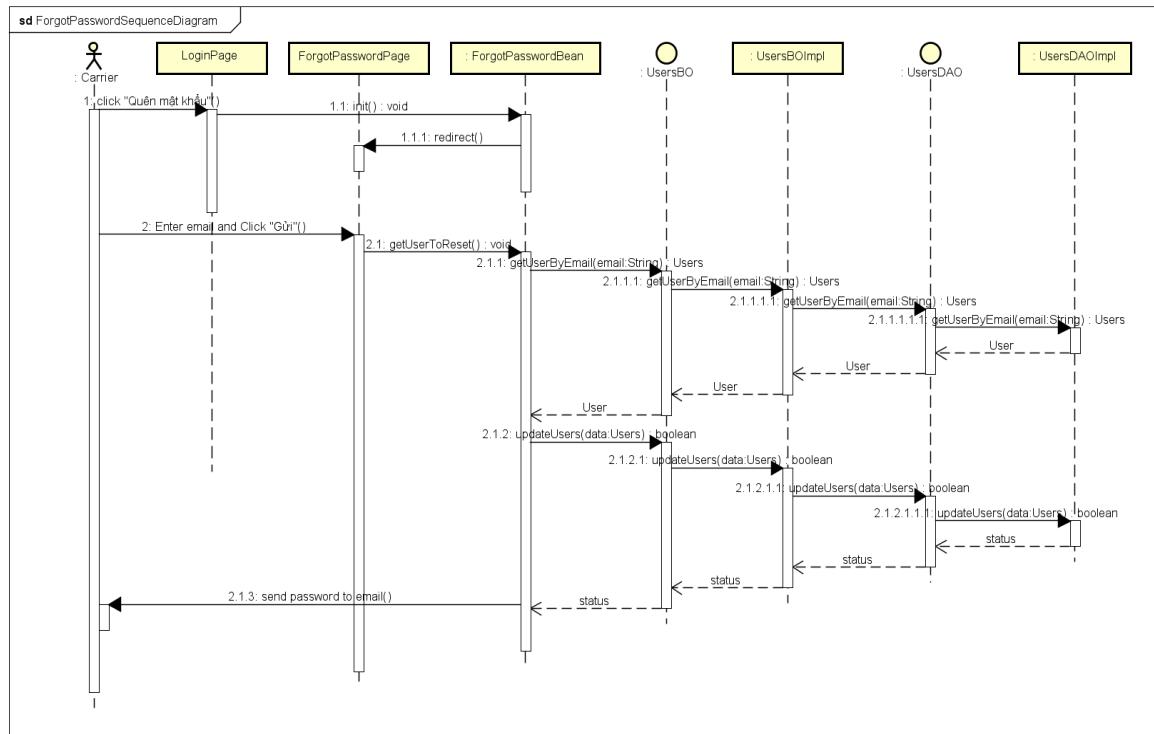


Figure 2.2-233 Forgot Password Sequence Diagram

2.2.70 Carrier send report

- Class Diagram

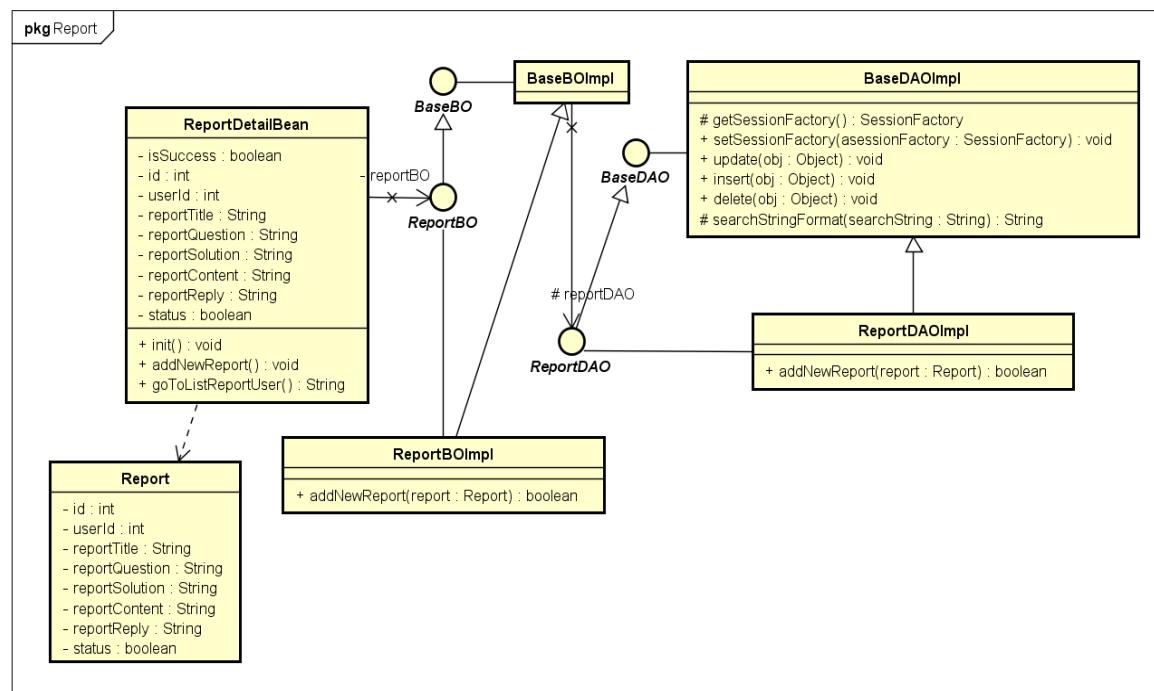


Figure 2.2-234 Send Report Class Diagram

- Screen Design

Figure 2.2-235 Add new Report

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Chủ đề bạn muốn báo cáo là gì?	reportTitle	inputText			
2	Câu hỏi của bạn là gì?	reportQuestion	inputText			
3	Bạn mong muốn xử lý như thế nào	reportSolution	outputText			
4	Nội dung báo cáo của bạn	reportContent	outputText			
5	Gửi báo cáo	addNewReport	commandButton			
6	Quay lại	goback	commandButton			

- Sequence Diagram

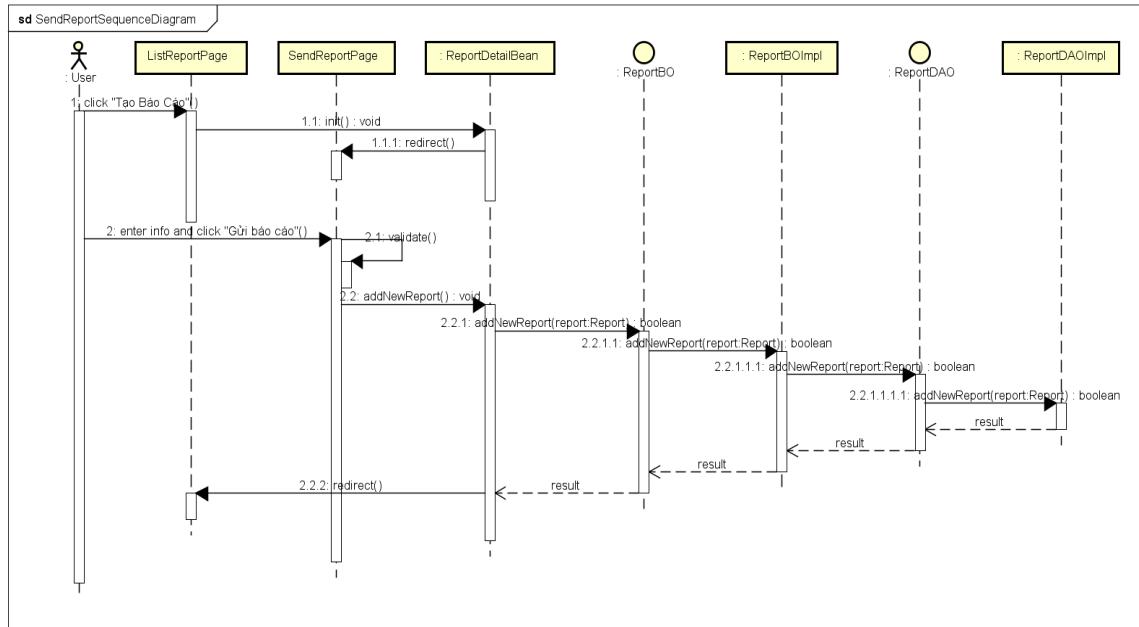


Figure 2.2-236 Send Report Sequence Diagram

2.2.71 Carrier view list report

- Class Diagram

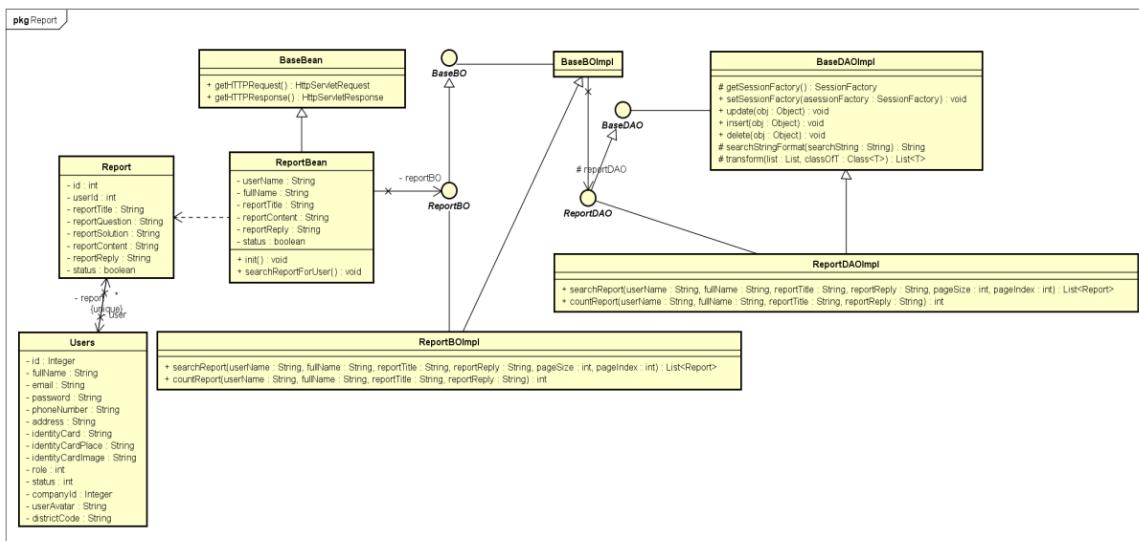


Figure 2.2-237 View List Report Class Diagram

- Screen Design

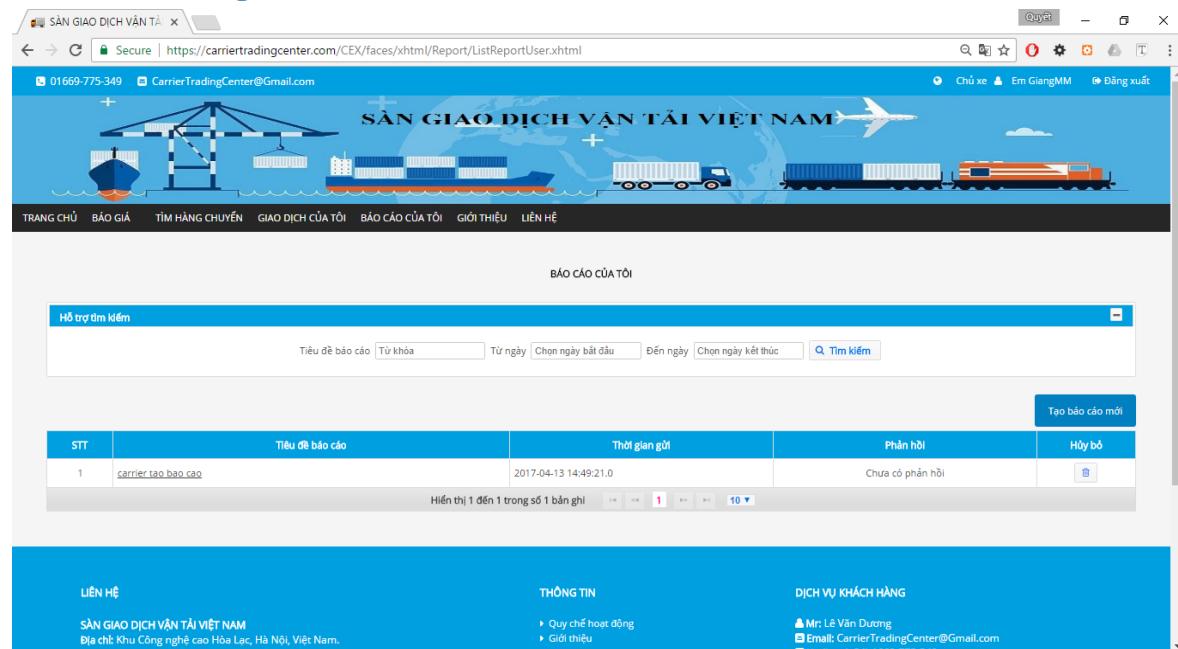


Figure 2.2-238 List Carrier's Report

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Hỗ trợ tìm kiếm		panelGrid			
2	Tiêu đề báo cáo	reportTitle	inputText	No	75	
3	Từ ngày	reportDateBegin	calendar	No		
4	Đến ngày	reportDateEnd	calendar	No		
5	Tìm kiếm	search	commandButton			
6	Danh sách báo cáo	litsReport	dataTable			

- Sequence Diagram

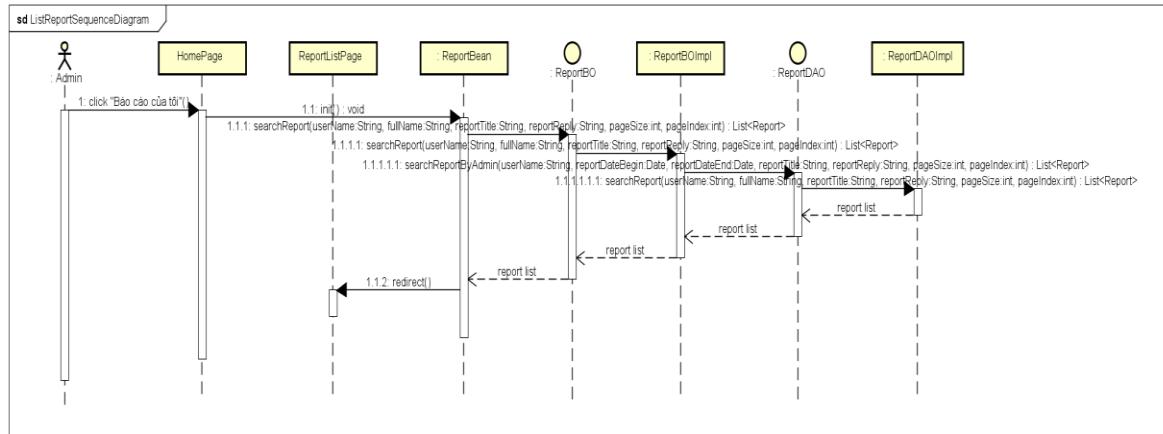


Figure 2.2-239 List Report Sequence Diagram

2.2.72 Carrier search report

- Class Diagram

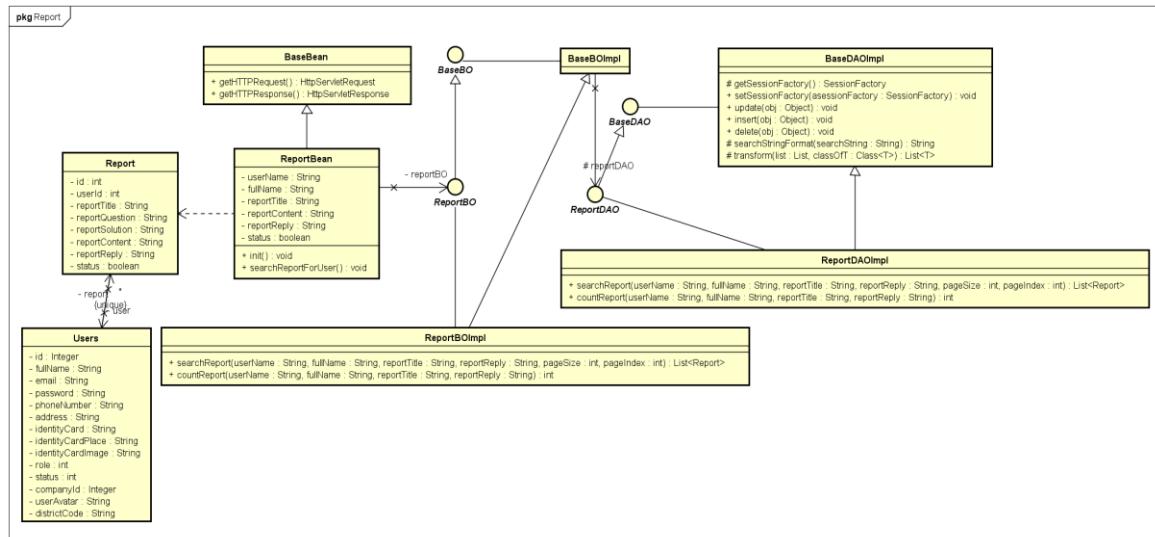


Figure 2.2-240 Search Report Class Diagram

• Screen Design

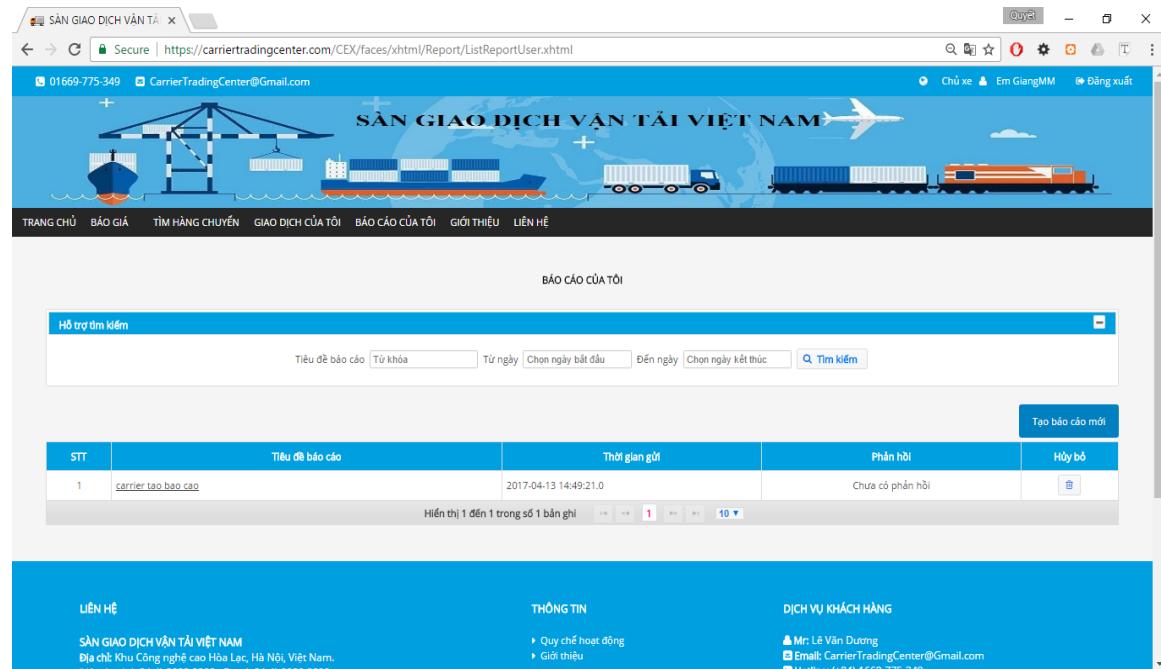


Figure 2.2-241 Search Report

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Hỗ trợ tìm kiếm		panelGrid			
2	Tiêu đề báo cáo	reportTitle	inputText	No	75	
3	Từ ngày	reportDateBegin	calendar	No		
4	Đến ngày	reportDateEnd	calendar	No		
5	Tìm kiếm	search	commandButton			
6	Danh sách báo cáo	litsReport	dataTable			

- Sequence Diagram

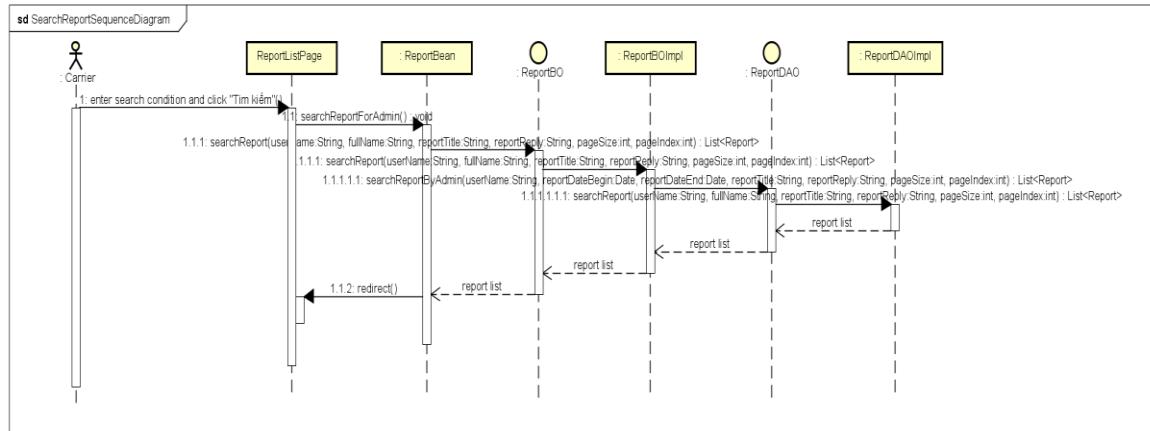


Figure 2.2-242 Search Report Sequence Diagram

2.2.73 Carrier view transaction history

- Class Diagram

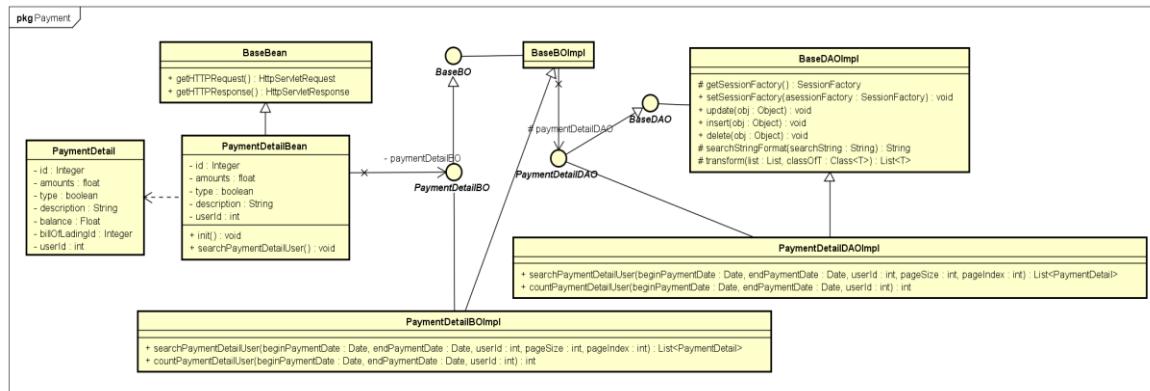
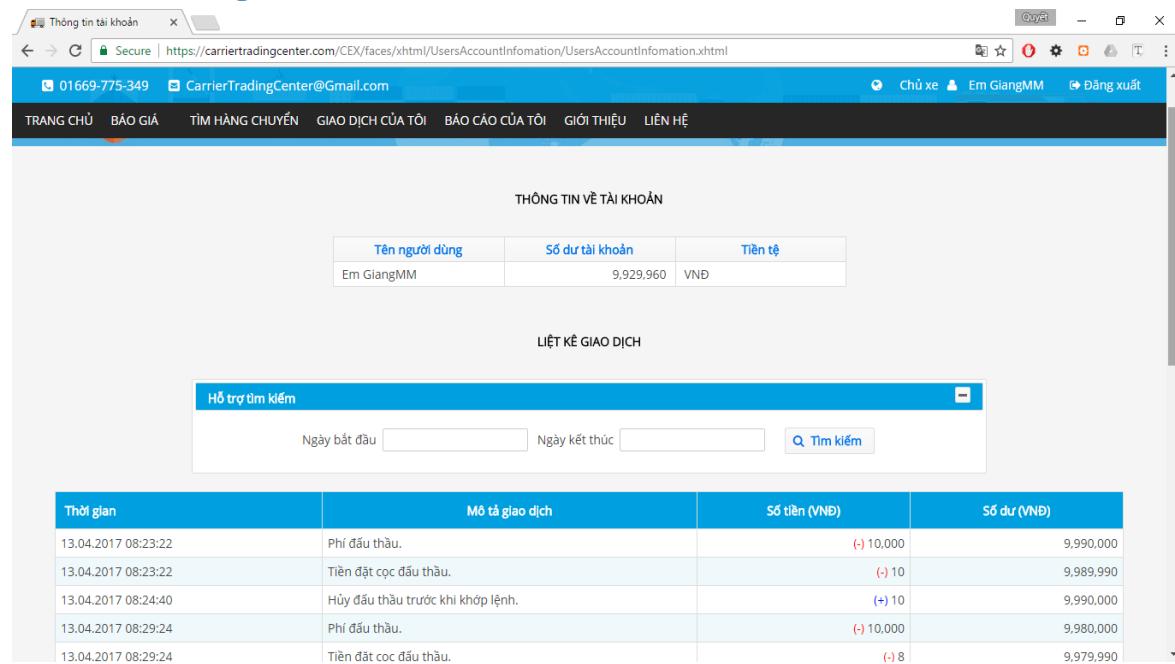


Figure 2.2-243 View Transaction History Class Diagram

• **Screen Design**



The screenshot shows a web-based application for managing a carrier's account. At the top, there is a header with a user profile (Em GiangMM), a sign-out link, and a search bar. Below the header, a navigation bar includes links for 'TRANG CHỦ', 'BÁO GIÁ', 'TÌM HÀNG CHUYỂN', 'GIAO DỊCH CỦA TÔI', 'BÁO CÁO CỦA TÔI', 'GIỚI THIỆU', and 'LIÊN HỆ'. The main content area is titled 'THÔNG TIN VỀ TÀI KHOẢN' (Account Information) and displays a table with the following data:

Tên người dùng	Số dư tài khoản	Tiền tệ
Em GiangMM	9,929,960	VND

Below this, a section titled 'LIỆT KÊ GIAO DỊCH' (Payment Details) is shown. It includes a search panel with fields for 'Ngày bắt đầu' and 'Ngày kết thúc' (both empty), and a 'Tìm kiếm' (Search) button. A table below lists transaction details:

Thời gian	Mô tả giao dịch	Số tiền (VND)	Số dư (VND)
13.04.2017 08:23:22	Phi đầu thầu.	(-) 10,000	9,990,000
13.04.2017 08:23:22	Tiền đặt cọc đầu thầu.	(-) 10	9,989,990
13.04.2017 08:24:40	Hủy đấu thầu trước khi khớp lệnh.	(+) 10	9,990,000
13.04.2017 08:29:24	Phi đấu thầu.	(-) 10,000	9,980,000
13.04.2017 08:29:24	Tiền đặt cọc đấu thầu.	(-) 8	9,979,990

Figure 2.2-244 Payment Detail

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin về tài khoản	accountInformation	panelGrid	Yes		
2	Hỗ trợ tìm kiếm	searchPanel	panel	No		
3	Ngày bắt đầu	departureDate	calendar	No		
4	Ngày kết thúc	arrivalDate	calendar	No		
5	Tìm kiếm	search	commandButton			
6	Liệt kê giao dịch	tablePaymentDetail	dataTable			

- **Sequence Diagram**

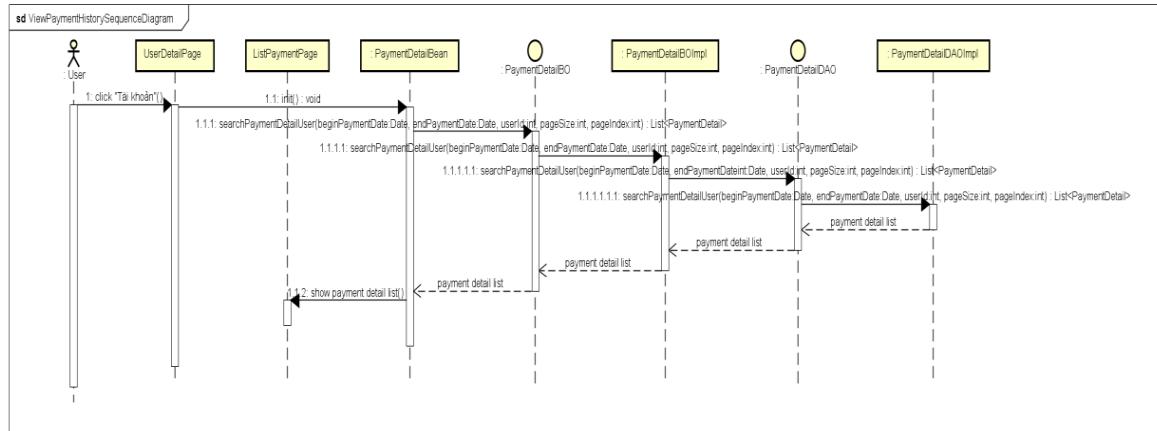


Figure 2.2-245 View Transaction History Sequence Diagram

2.2.74 Carrier Login

- **Class Diagram**

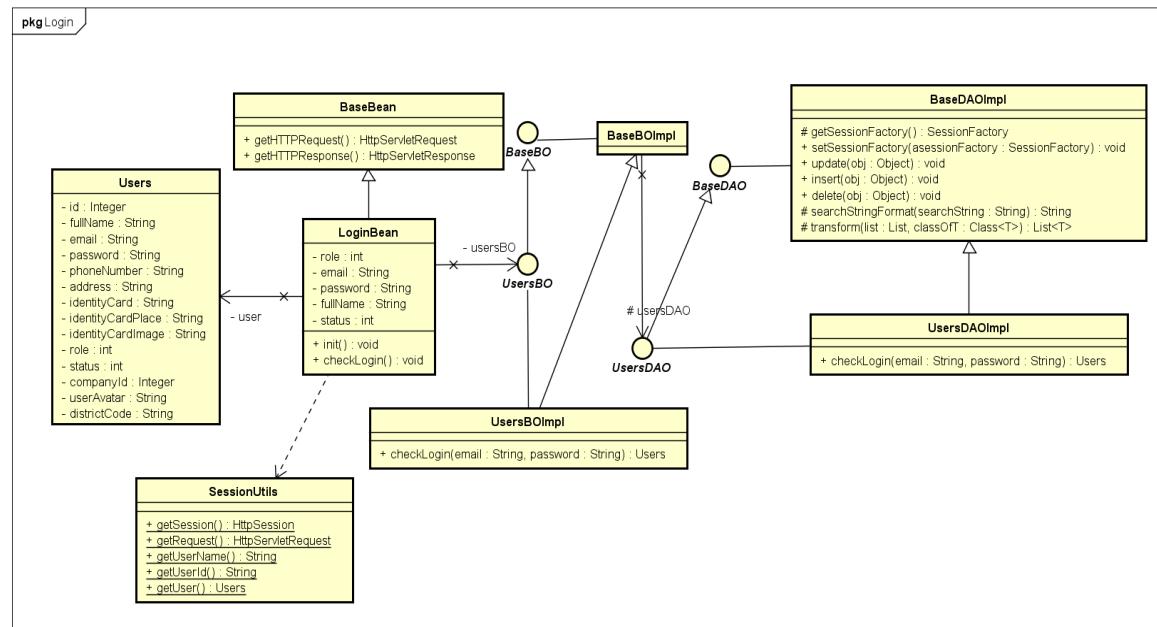


Figure 2.2-246 Login

• Screen Design

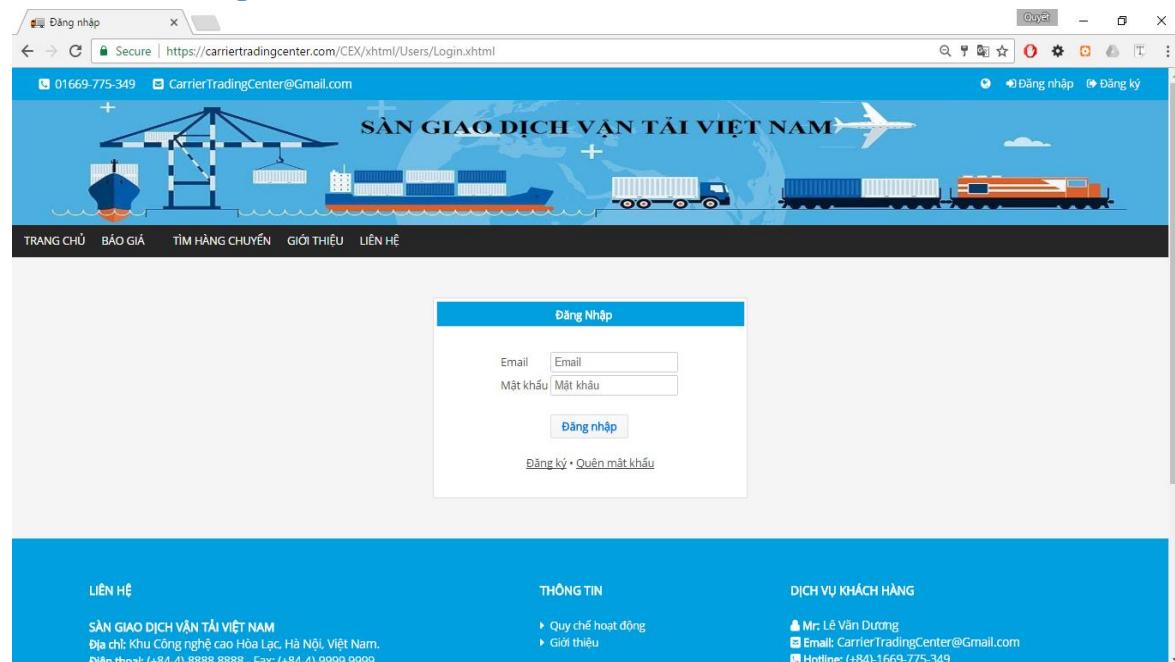


Figure 2.2-247 Login

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Email	email	inputText	Yes		
2	Mật khẩu	password	password	Yes		
3	Đăng nhập	login	commandButton			
4	Đăng ký	register	href link			
5	Quên mật khẩu	forgotPassword	href link			

- Sequence Diagram

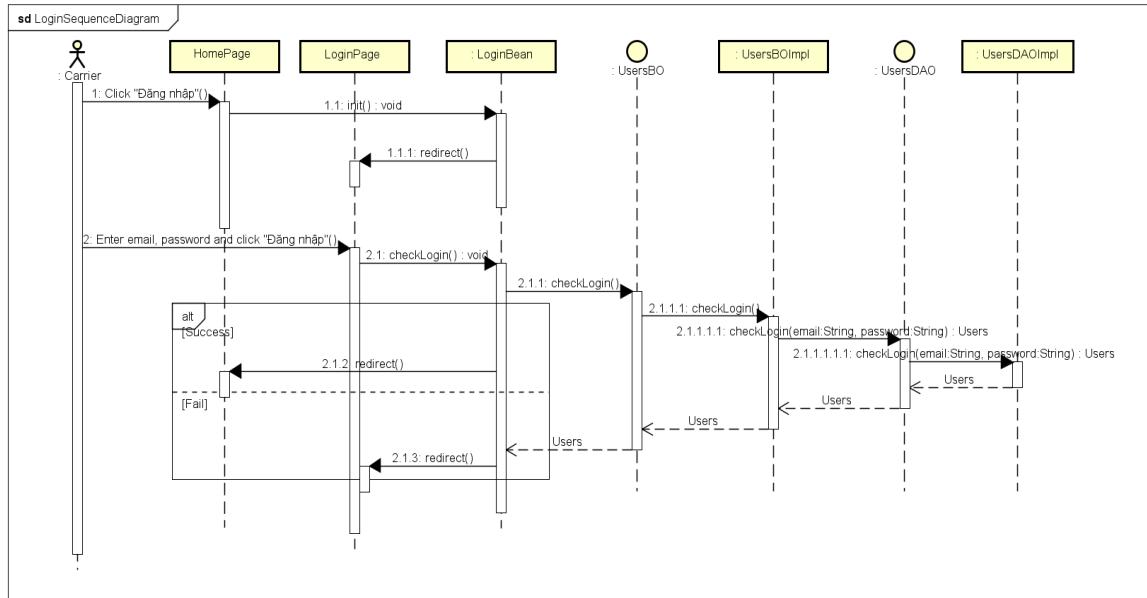


Figure 2.2-248 Login Sequence Diagram

2.2.75 Carrier logout

- Class Diagram

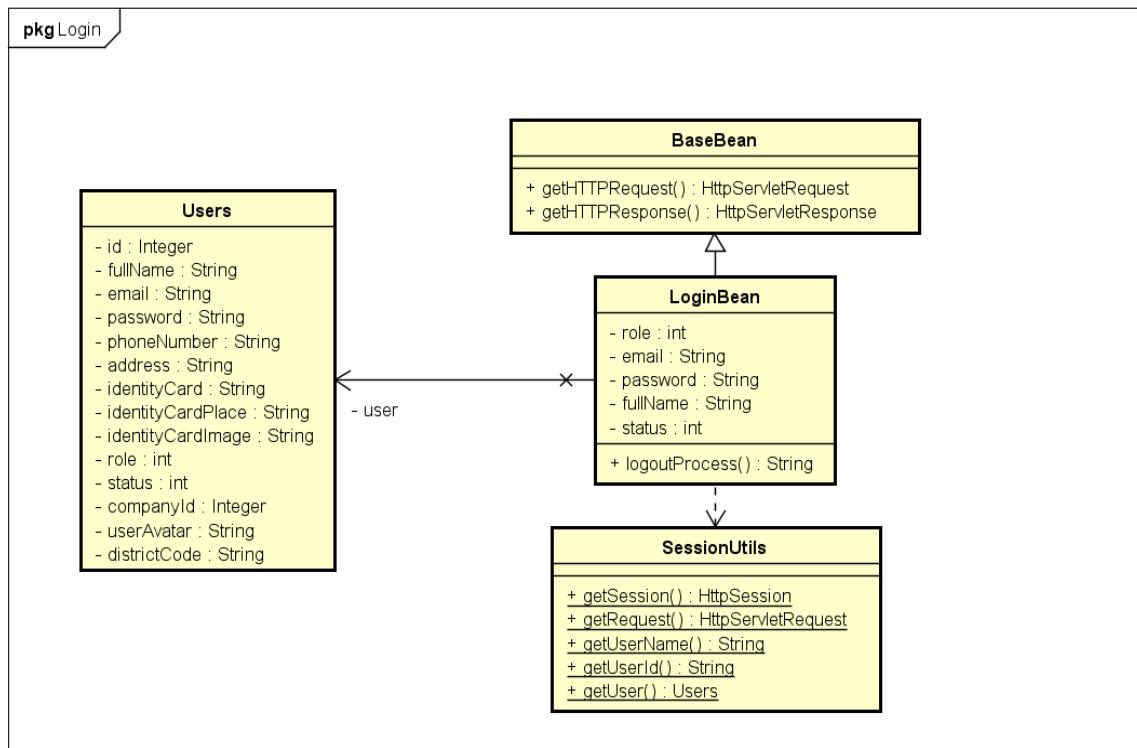


Figure 2.2-249 Logout Class Diagram

- Screen Design

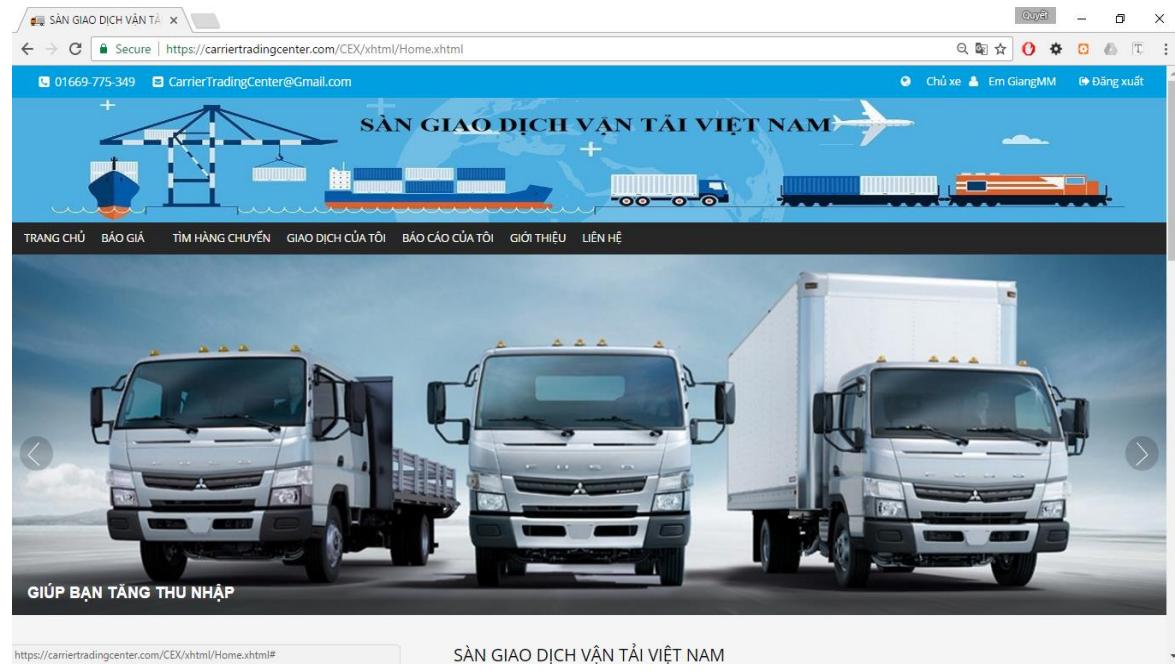


Figure 2.2-250 Logout

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Đăng xuất	logout	commandLink			

- Sequence Diagram

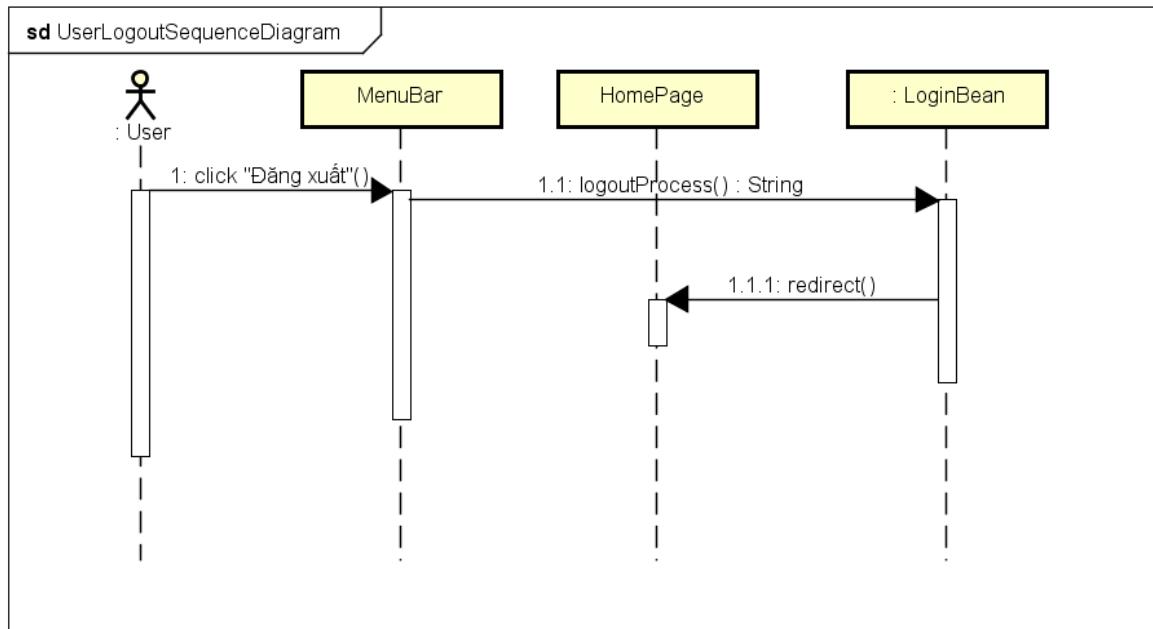


Figure 2.2-251 Logout Sequence Diagram

2.2.76 Carrier connect to goods owner

- Carrier comment to goods owner

Class Diagram

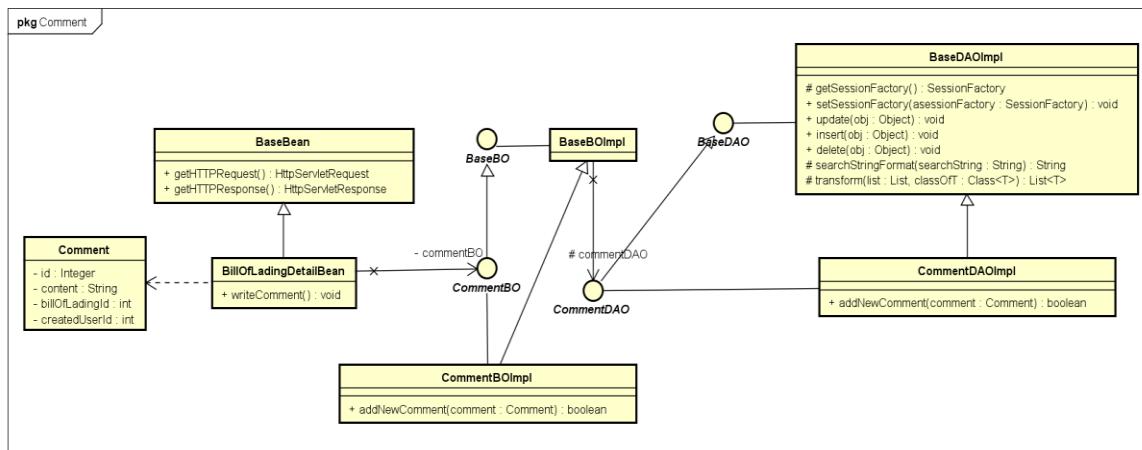


Figure 2.2-252 Comments to Goods Owner Class Diagram

Screen Design

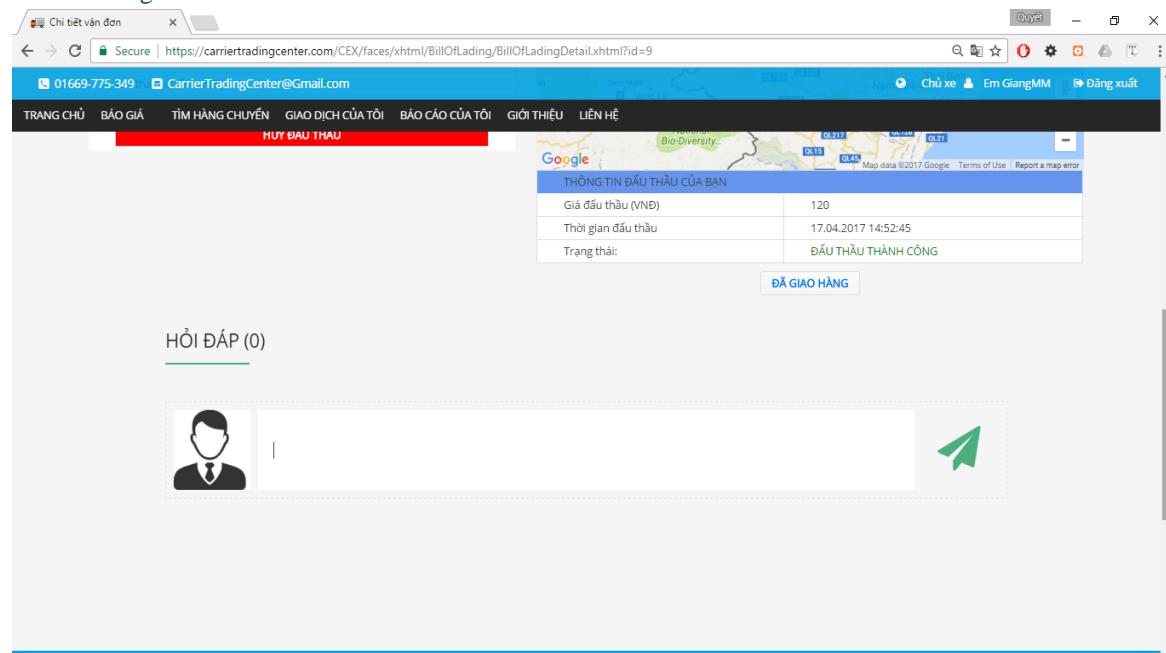


Figure 2.2-253 Write Comment

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Hỏi đáp	questionAnswer	panelGroup			
2	Button Send	send	commandButton			

Sequence Diagram

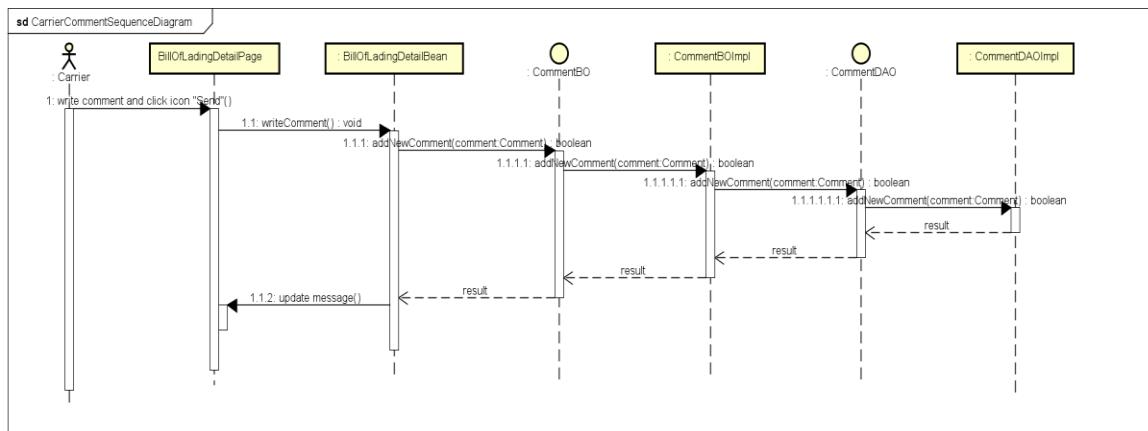


Figure 2.2-254 Comments to Goods Owner Sequence Diagram

- Carrier answer to goods owner

Class Diagram

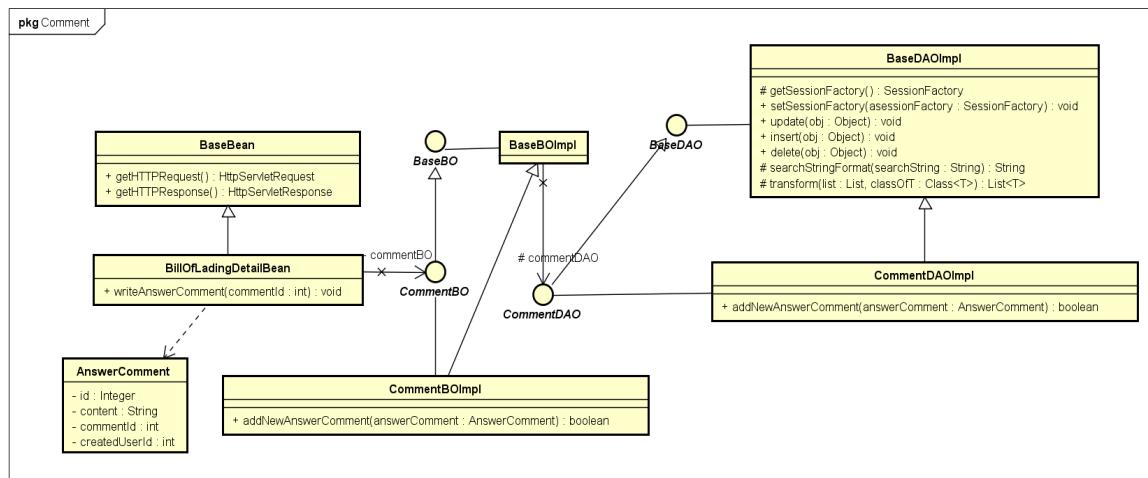


Figure 2.2-255 Answers to Goods Owner Class Diagram

Screen Design

Figure 2.2-256 Answer Comment

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Hỏi đáp	questionAnswer	panelGroup			
2	Trả lời	reply	inputText			
3	Button Send	send	commandButton			

Sequence Diagram

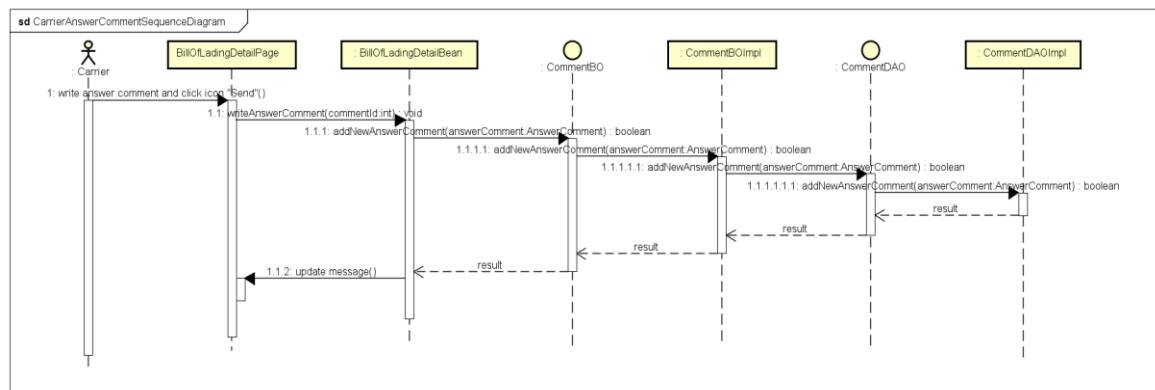


Figure 2.2-257 Answers to Goods Owner Sequence Diagram

2.2.77 Carrier reference fee

- Class Diagram

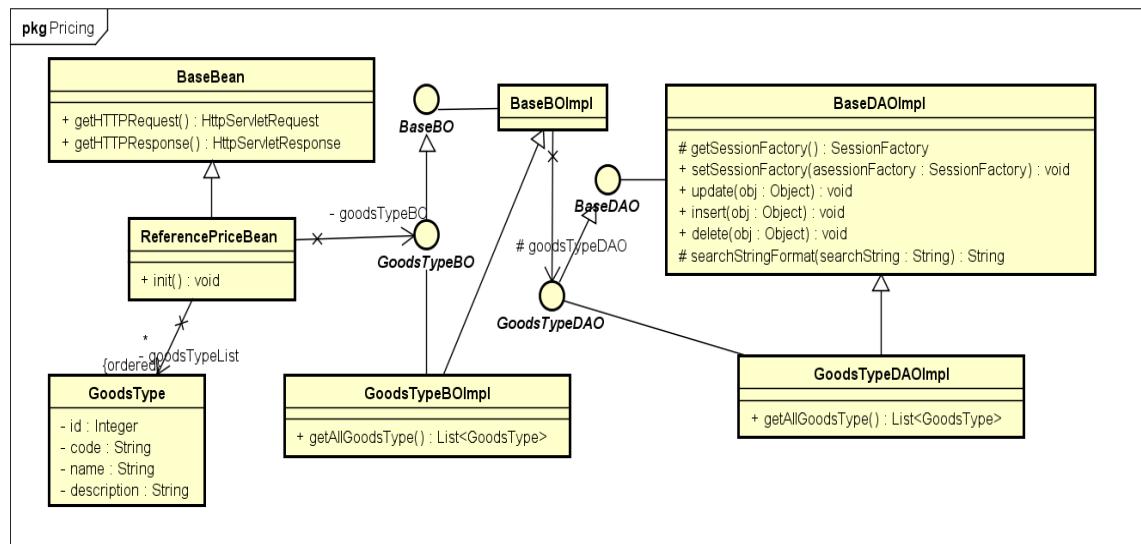


Figure 2.2-258 View Reference Price Class Diagram

- Screen Design

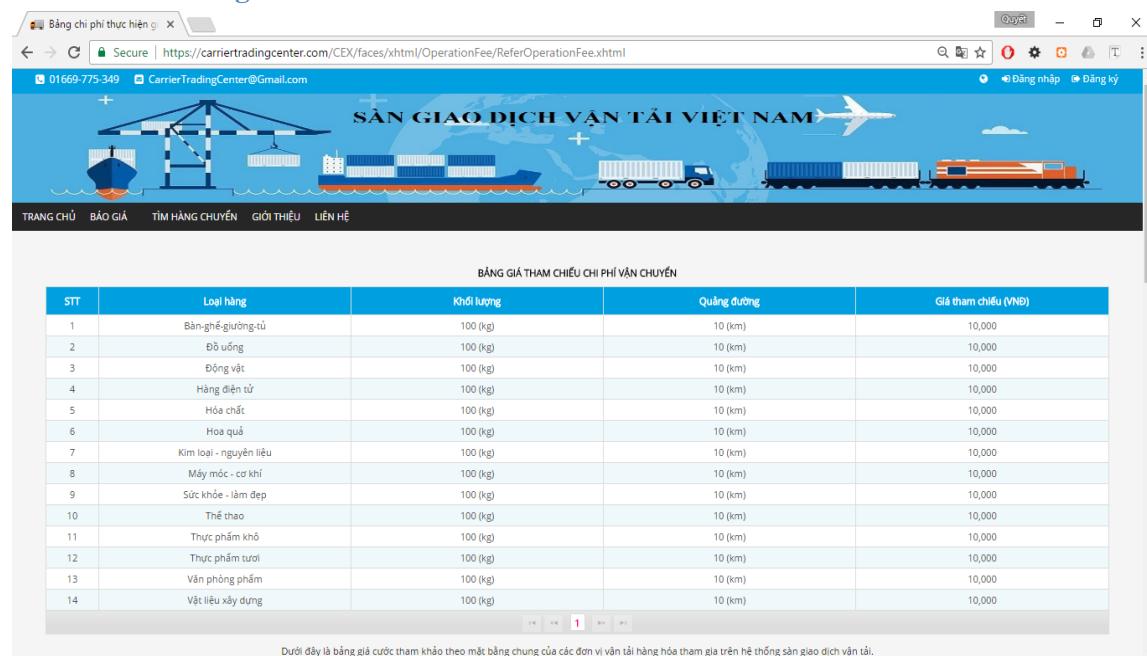
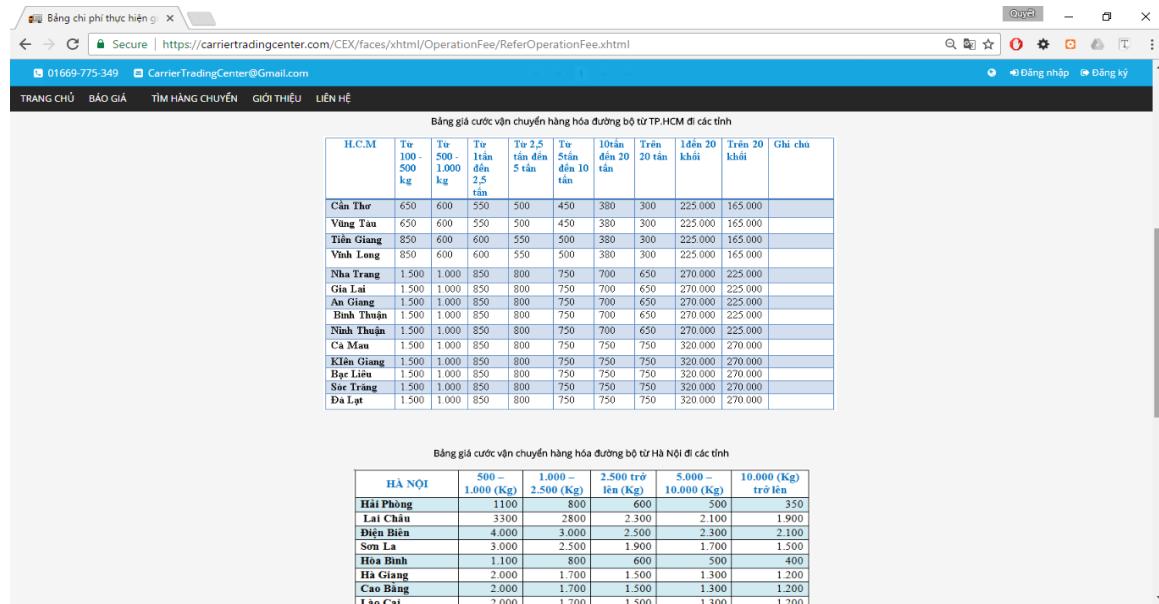


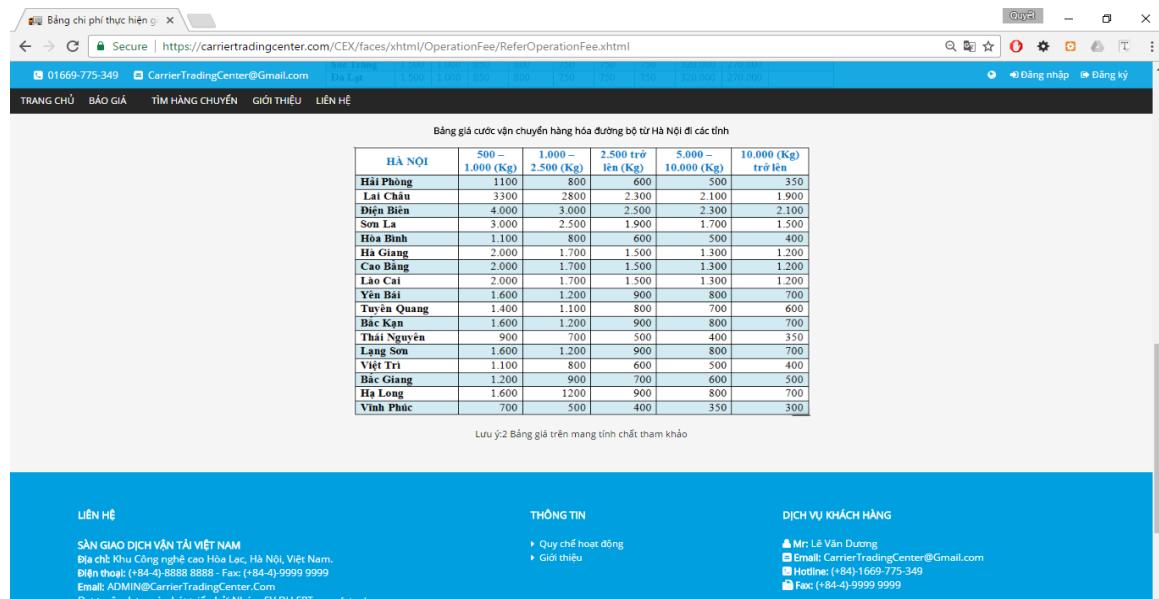
Figure 2.2-259 Reference Fee (part 1)



H.C.M	Tu 100 500 kg	Tu 500 - 1.000 kg	Tu 1.000 đến 2.5 tấn	Tu 2.5 đến 5 tấn	Tu 5 tấn đến 10 tấn	10tấn đến 20 tấn	Trên 20 tấn	1đến 20 khối	Trên 20 khối	Ghi chú
Cần Thơ	650	600	550	500	450	380	300	225.000	165.000	
Vũng Tàu	650	600	550	500	450	380	300	225.000	165.000	
Tiền Giang	850	600	600	550	500	380	300	225.000	165.000	
Vĩnh Long	850	600	600	550	500	380	300	225.000	165.000	
Nha Trang	1.500	1.000	850	800	750	700	650	270.000	225.000	
Gia Lai	1.500	1.000	850	800	750	700	650	270.000	225.000	
An Giang	1.500	1.000	850	800	750	700	650	270.000	225.000	
Bình Thuận	1.500	1.000	850	800	750	700	650	270.000	225.000	
Ninh Thuận	1.500	1.000	850	800	750	700	650	270.000	225.000	
Cà Mau	1.500	1.000	850	800	750	700	750	320.000	270.000	
Kiên Giang	1.500	1.000	850	800	750	700	750	320.000	270.000	
Bạc Liêu	1.500	1.000	850	800	750	700	750	320.000	270.000	
Sóc Trăng	1.500	1.000	850	800	750	700	750	320.000	270.000	
Đà Lạt	1.500	1.000	850	800	750	700	750	320.000	270.000	

Bảng giá cước vận chuyển hàng hóa đường bộ từ Hà Nội đi các tỉnh										
HÀ NỘI	500 – 1.000 (Kg)	1.000 – 2.500 (Kg)	2.500 trở lên (Kg)	5.000 – 10.000 (Kg)	10.000 (Kg) trở lên					
Hải Phòng	1100	800	600	500	350					
Lai Châu	3300	2800	2300	2100	1900					
Điện Biên	4.000	3.000	2.500	2.300	2.100					
Sơn La	3.000	2.500	1.900	1.700	1.500					
Hòa Bình	1.100	800	600	500	400					
Hà Giang	2.000	1.700	1.500	1.300	1.200					
Cao Bằng	2.000	1.700	1.500	1.300	1.200					
Lào Cai	2.000	1.700	1.500	1.300	1.200					
Yên Bái	1.600	1.200	900	800	700					
Tuyên Quang	1.400	1.100	800	700	600					
Bắc Kạn	1.600	1.200	900	800	700					
Thái Nguyên	900	700	500	400	350					
Lạng Sơn	1.600	1.200	900	800	700					
Việt Trì	1.100	800	600	500	400					
Bắc Giang	1.200	900	700	600	500					
Hà Long	1.600	1.200	900	800	700					
Vĩnh Phúc	700	500	400	350	300					

Figure 2.2-260 Reference Fee (part 2)



HÀ NỘI	500 – 1.000 (Kg)	1.000 – 2.500 (Kg)	2.500 trở lên (Kg)	5.000 – 10.000 (Kg)	10.000 (Kg) trở lên
Hải Phòng	1100	800	600	500	350
Lai Châu	3300	2800	2300	2100	1900
Điện Biên	4.000	3.000	2.500	2.300	2.100
Sơn La	3.000	2.500	1.900	1.700	1.500
Hòa Bình	1.100	800	600	500	400
Hà Giang	2.000	1.700	1.500	1.300	1.200
Cao Bằng	2.000	1.700	1.500	1.300	1.200
Lào Cai	2.000	1.700	1.500	1.300	1.200
Yên Bái	1.600	1.200	900	800	700
Tuyên Quang	1.400	1.100	800	700	600
Bắc Kạn	1.600	1.200	900	800	700
Thái Nguyên	900	700	500	400	350
Lạng Sơn	1.600	1.200	900	800	700
Việt Trì	1.100	800	600	500	400
Bắc Giang	1.200	900	700	600	500
Hà Long	1.600	1.200	900	800	700
Vĩnh Phúc	700	500	400	350	300

Lưu ý:2 Bảng giá trên mang tính chất tham khảo



LIÊN HỆ	THÔNG TIN	DỊCH VỤ KHÁCH HÀNG
SẢN GIAO DỊCH VẬN TẢI VIỆT NAM Địa chỉ: Khu Công nghệ cao Hòa Lạc, Hà Nội, Việt Nam. Điện thoại: (+84-4) 8888 8888 - Fax: (+84-4) 9999 9999 Email: ADMIN@CarrierTradingCenter.Com Được xây dựng và phát triển bởi Nhóm SV ĐH FPT www.fpt.edu.vn	<ul style="list-style-type: none"> ► Quý thể hoạt động ► Giới thiệu 	<ul style="list-style-type: none"> ► Mr: Lê Văn Dương ► Email: CarrierTradingCenter@Gmail.com ► Hotline: (+84) 1669-775-349 ► Fax: (+84-4) 9999 9999

Figure 2.2-261 Reference Fee (part 3)

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Bảng giá tham chiếu chi phí vận chuyển	goodsTypeList	dataTable			
2	Bảng giá cước vận chuyển hàng hóa đường bộ từ TP.HCM đi các tỉnh		graphicImage			

3	Bảng giá cước vận chuyển hàng hóa đường bộ từ Hà Nội đi các tỉnh		graphicImage			
---	--	--	--------------	--	--	--

- Sequence Diagram

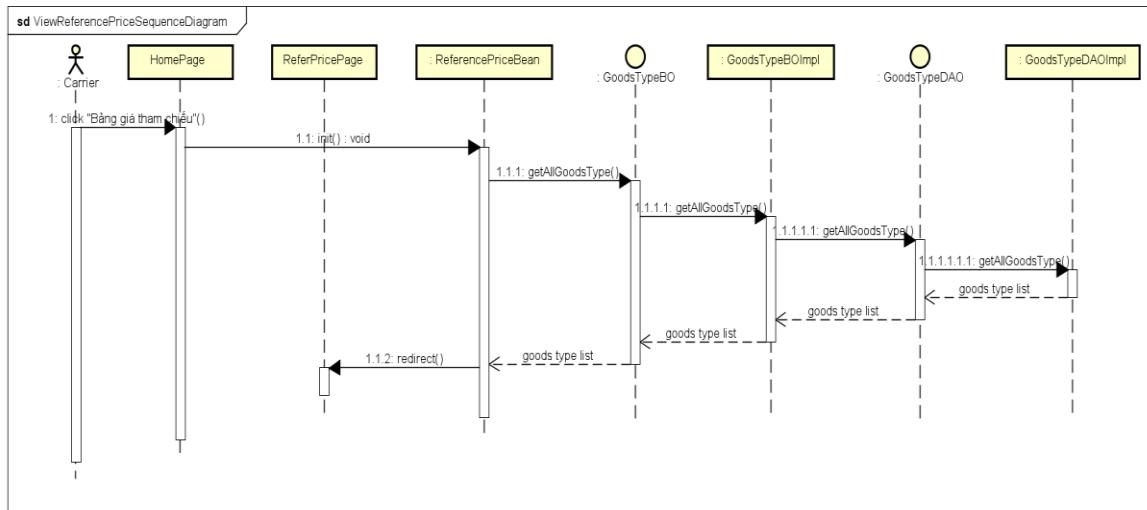


Figure 2.2-262 View Reference Fee Sequence Diagram

2.2.78 Carrier confirm complete transaction

- Class Diagram

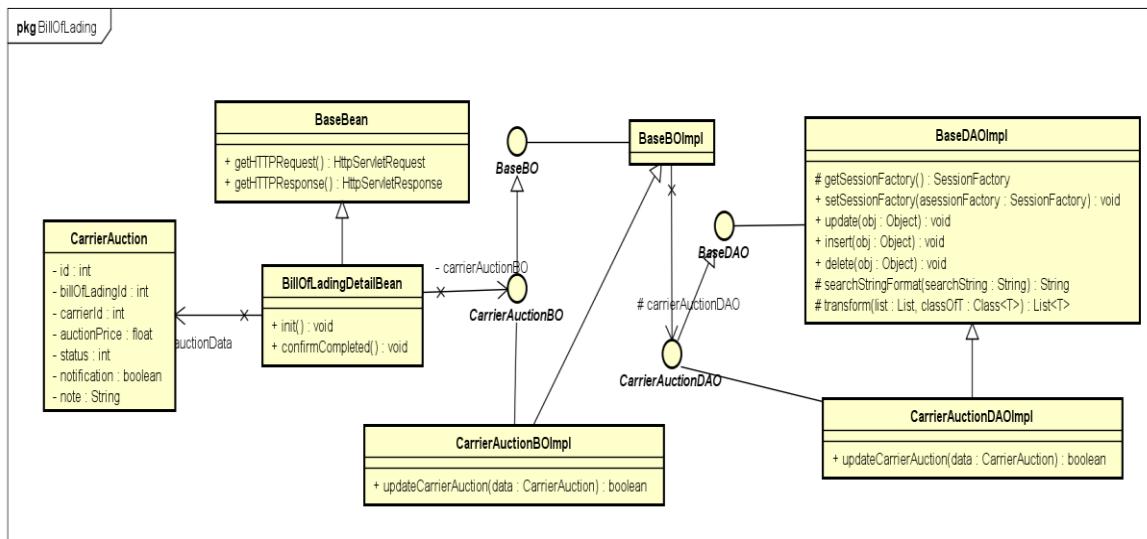


Figure 2.2-263 Confirm Complete Transaction Class Diagram

- Screen Design

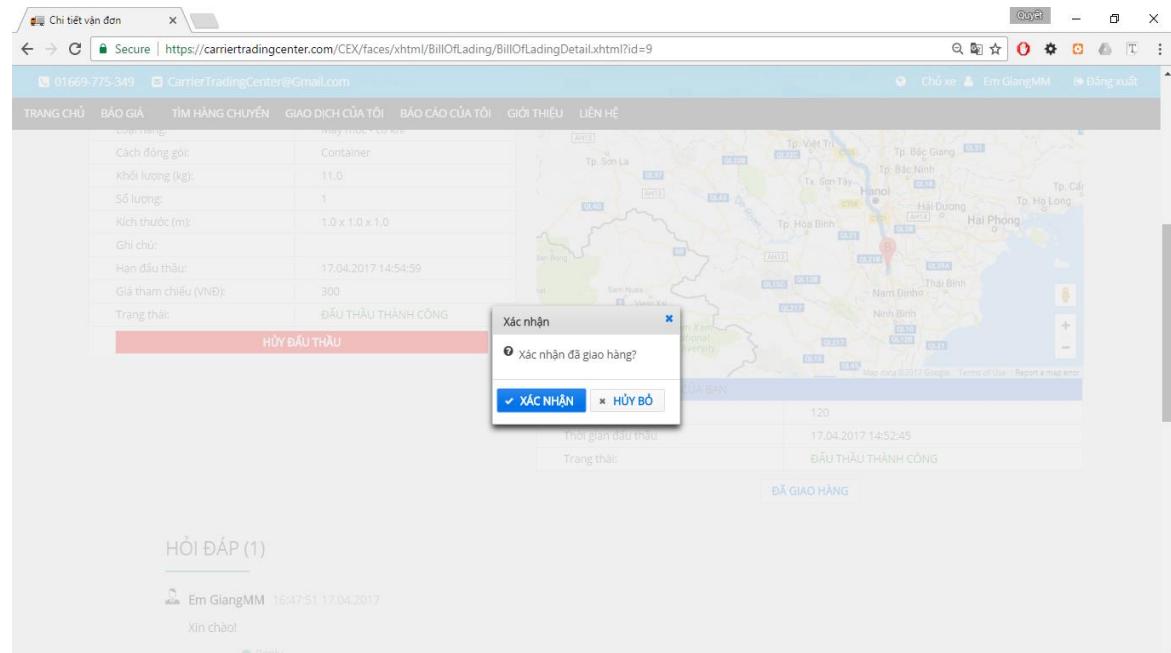


Figure 2.2-264 Confirm Complete Transaction

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Xác nhận	confirm	commandButton			
2	Hủy bỏ	cancel	commandButton			

- Sequence Diagram

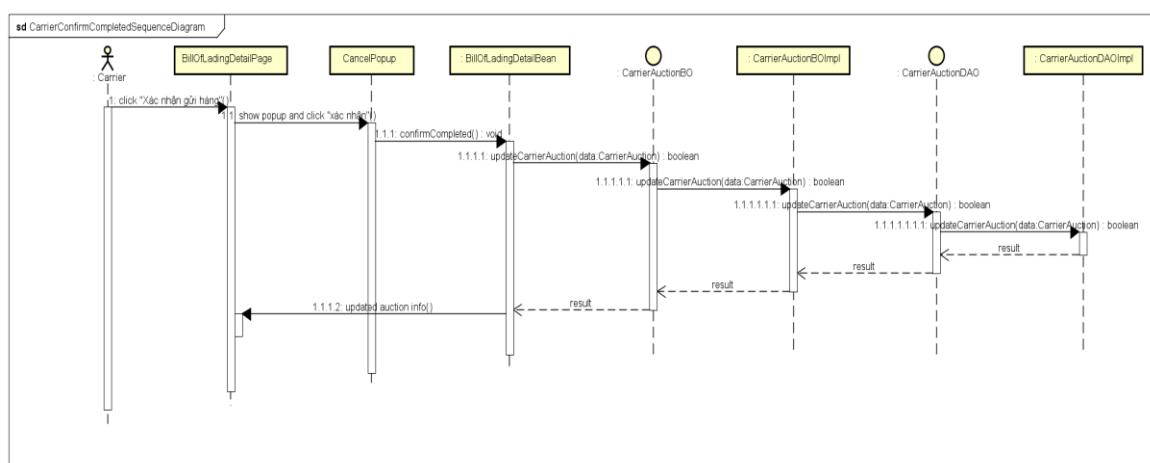


Figure 2.2-265 Confirm Complete Transaction Sequence Diagram

2.2.79 Carrier add company

- Class Diagram

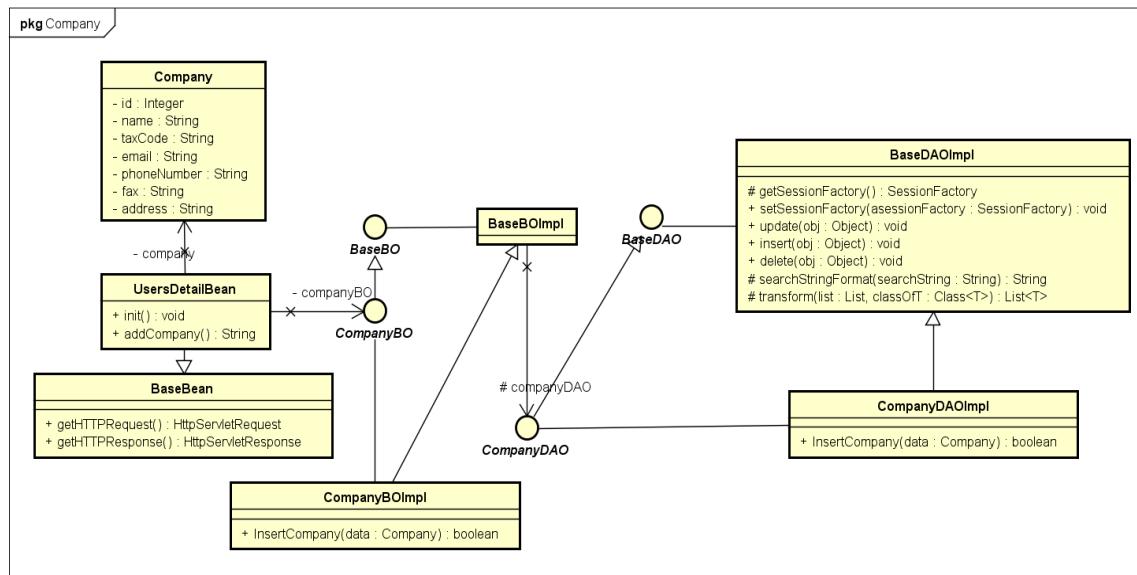


Figure 2.2-266 Add Company Class Diagram

- Screen Design

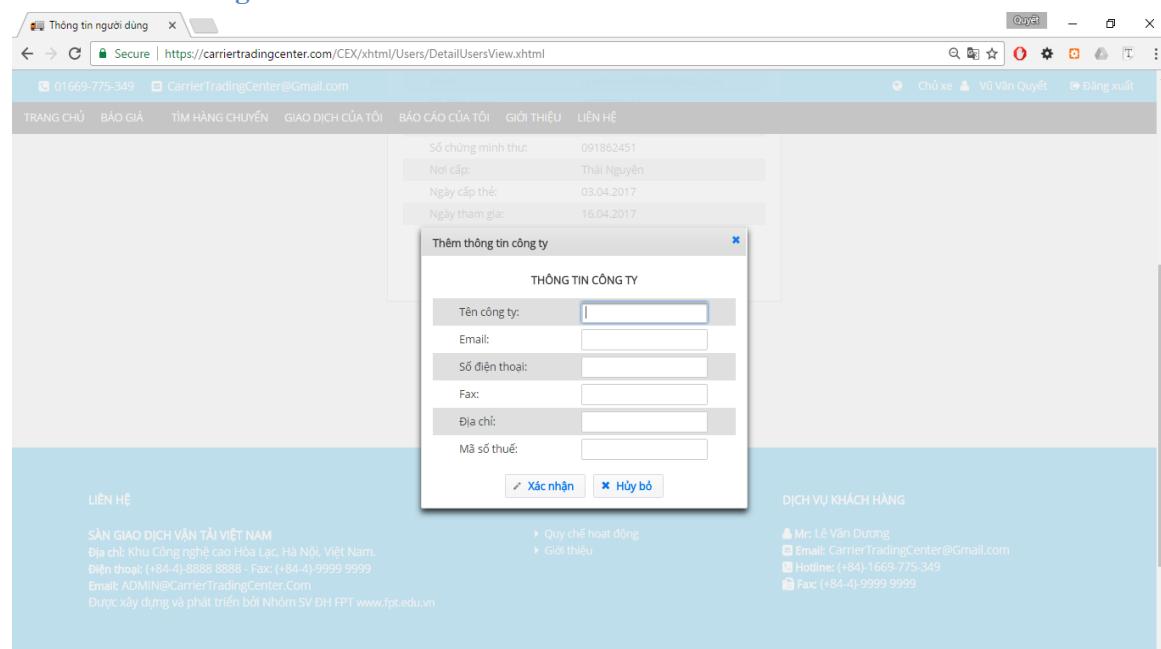


Figure 2.2-267 Add Company

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Thông tin công ty	companyInformation	panelGrid			
2	Tên công ty	comapnyName	inputText		100	
3	Email	email	inputText		50	

4	Số điện thoại	phoneNumber	inputText		11	
5	Fax	fax	inputText		20	
6	Địa chỉ	address	inputText		100	
7	Mã số thuế	taxCode	inputText		20	
8	Lưu thay đổi	confirm	commandButton			
9	Hủy bỏ	cancel	commandButton			

- Sequence Diagram

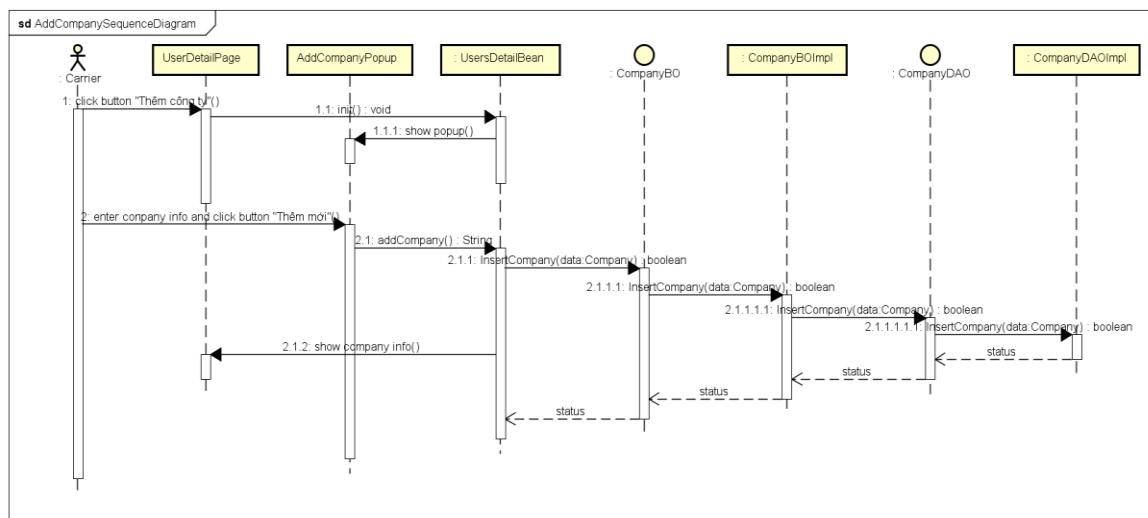


Figure 2.2-268 Add Company Class Diagram

2.2.80 Carrier owner view fee list

- Class Diagram

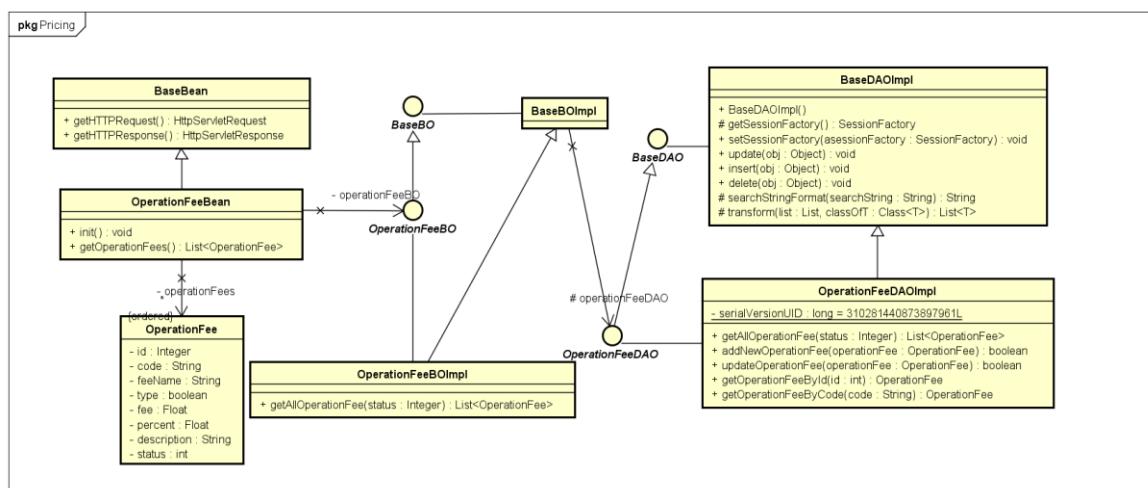


Figure 2.2-269 Fee List Class Diagram

- Screen Design

Figure 2.2-270 Fee List

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Danh sách các loại chi phí	feeDataTable	dataTable			

- Sequence Diagram

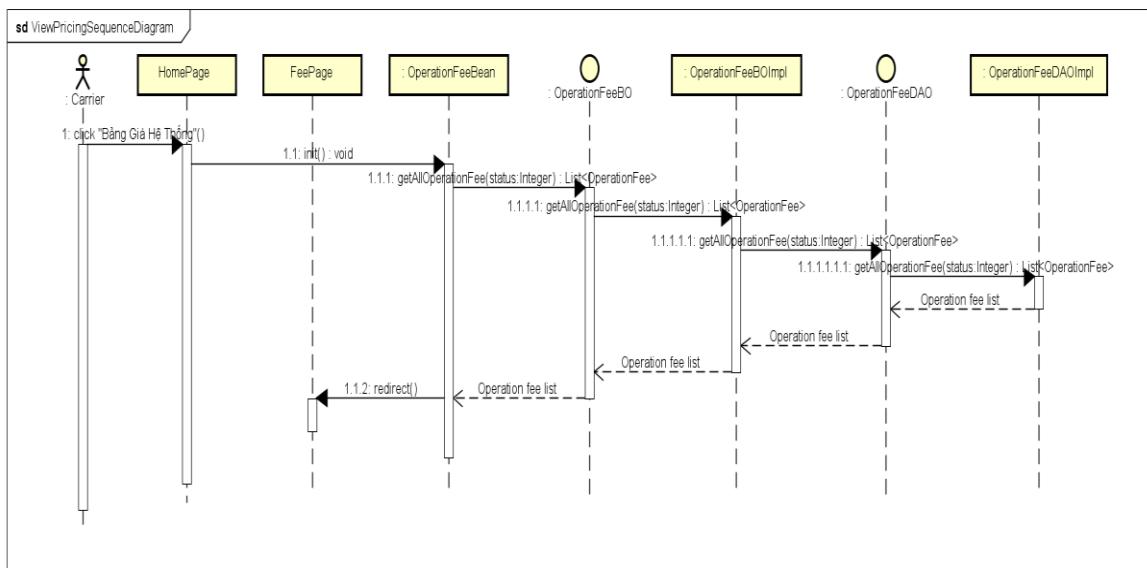


Figure 2.2-271 Fee List Sequence Diagram

2.2.81 Carrier cancel report

- Class Diagram

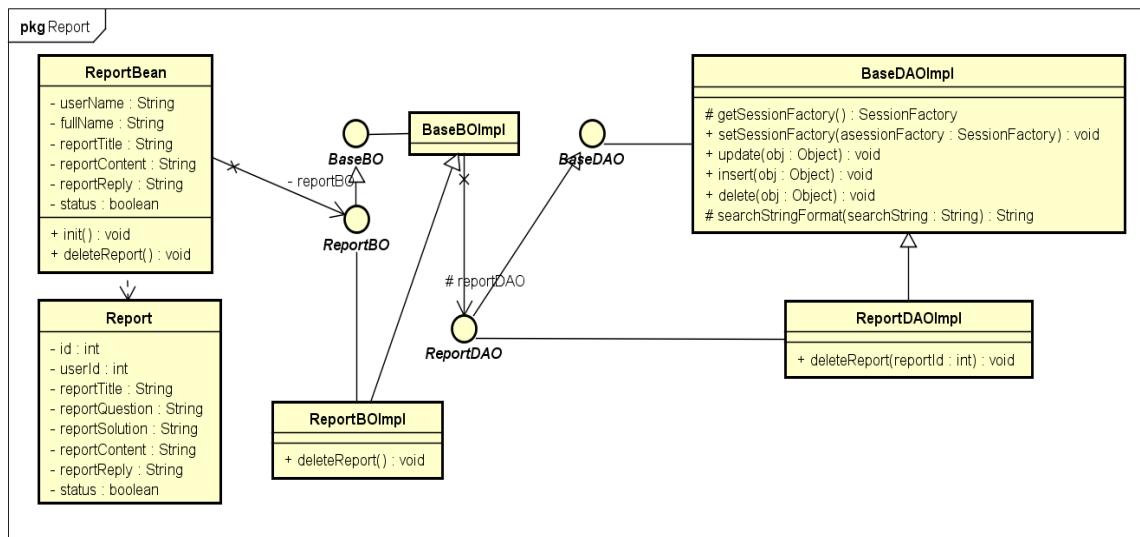


Figure 2.2-272 Cancel Report Class Diagram

- Screen Design

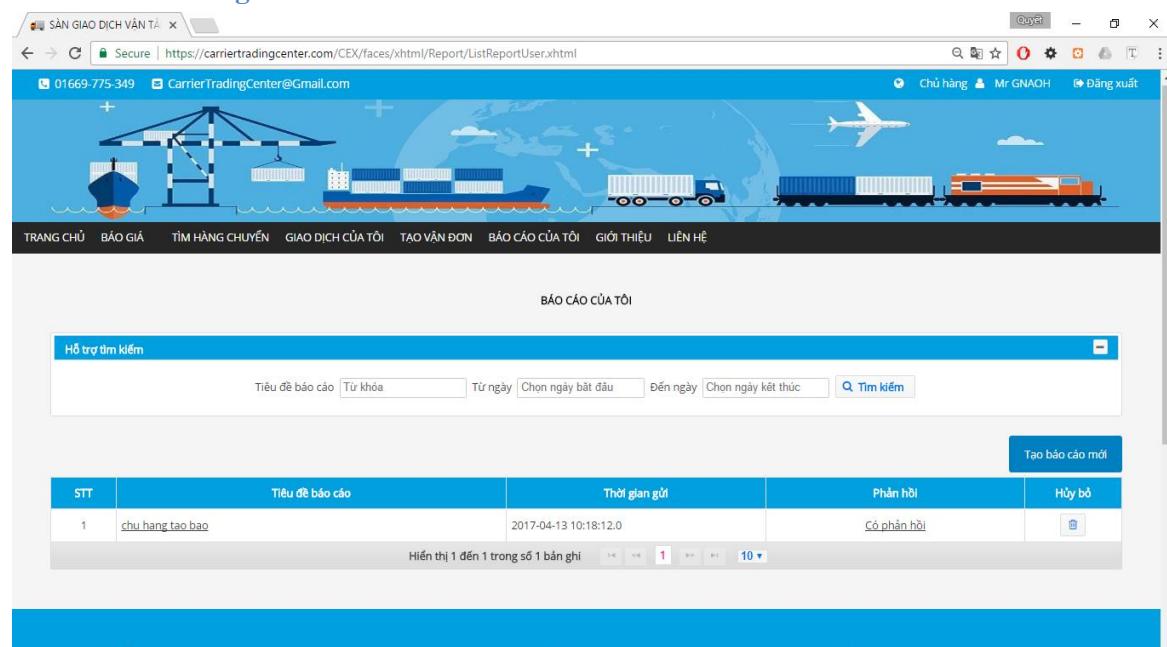


Figure 2.2-273 List Report

No	Object/Control Name	Object/Control Name in English	Type	Required	Length	Description
1	Hỗ trợ tìm kiếm		panelGrid			
2	Tiêu đề báo cáo	reportTitle	inputText	No	75	
3	Từ ngày	reportDateBegin	calendar	No		

4	Đến ngày	reportDateEnd	calendar	No		
5	Tìm kiếm	search	commandButton			
6	Hủy bỏ	cancel	commandButton			
7	Danh sách báo cáo	litsReport	dataTable			

- Sequence Diagram

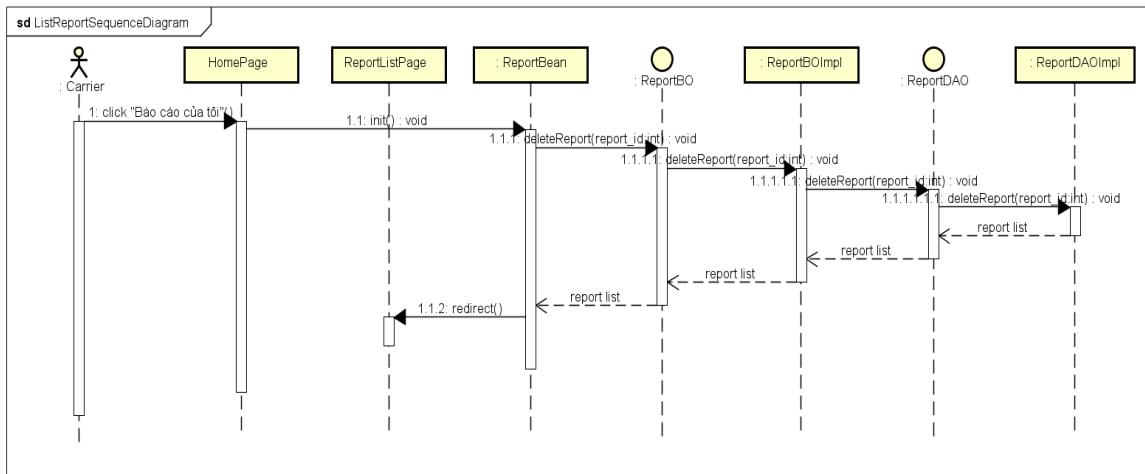


Figure 2.2-274 Cancel Report Sequence Diagram

3 DATABASE DESIGN

3.1 Database Diagram

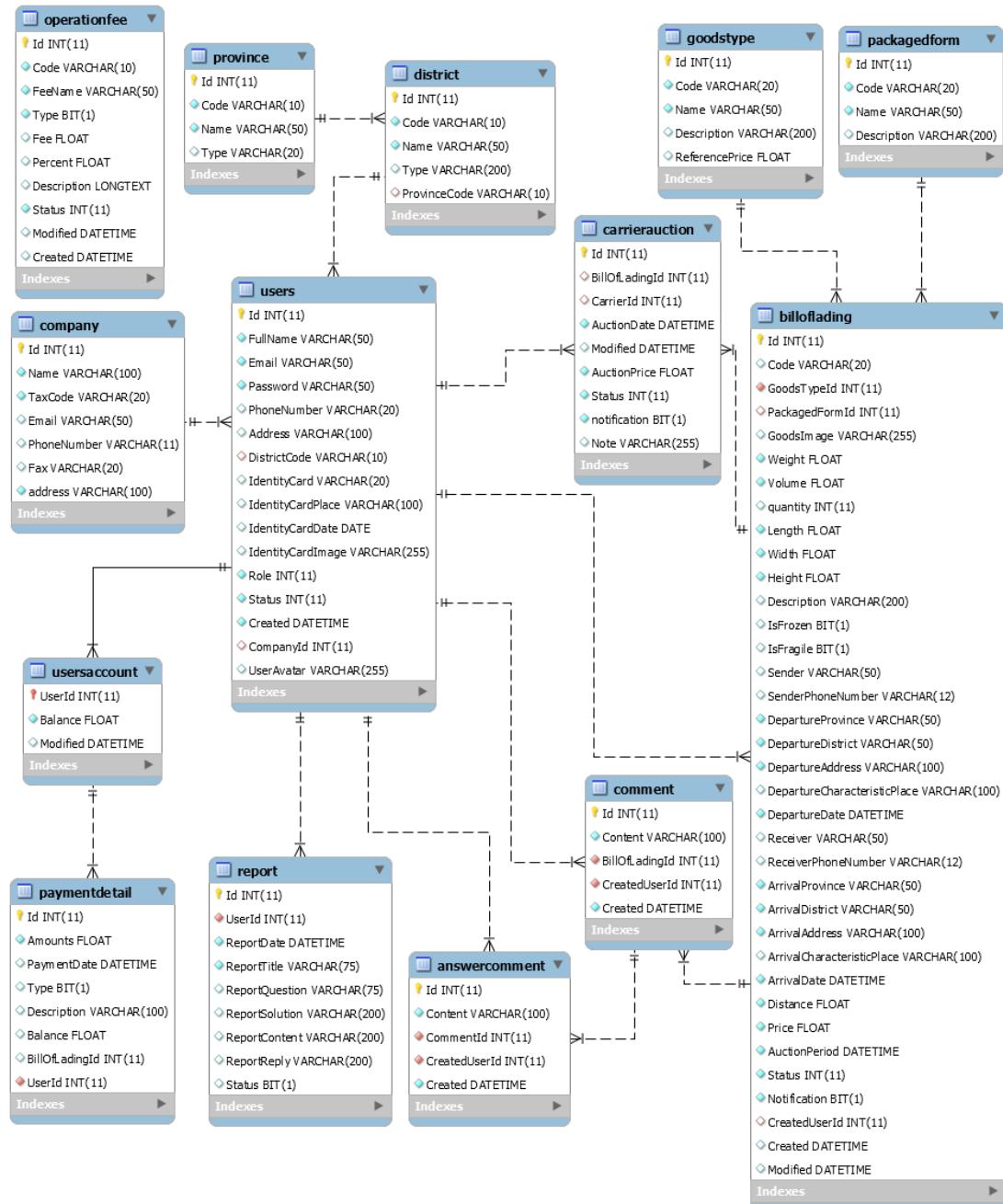


Figure 3.1-1 Database Diagram

3.2 Table Descriptions

3.2.1 Table answercomment

No.	Attribute	Type	Constraints	Description
1	Id	int(11)	NOT NULL PRIMARY KEY	
2	Content	varchar(100)	NOT NULL	
3	CommentId	int(11)	NOT NULL FOREIGN KEY	
4	CreatedUserId	int(11)	NOT NULL FOREIGN KEY	
5	Created	datetime	NOT NULL	

3.2.2 Table billoflading

No	Attribute	Type	Constraints	Description
1	Id	int(11)	NOT NULL PRIMARY KEY	
2	Code	varchar(20)	DEFAULT NULL	
3	GoodsTypeId	int(11)	NOT NULL FOREIGN KEY	
4	PackagedFormId	int(11)	DEFAULT NULL FOREIGN KEY	
5	GoodsImage	varchar(255)	DEFAULT NULL	
6	Weight	float	NOT NULL	
7	Volume	float	NOT NULL	
8	Quantity	int(11)	DEFAULT NULL	
9	Length	float	NOT NULL	
10	Width	float	NOT NULL	
11	Height	varchar(50)	NOT NULL	
12	Description	varchar(12)	DEFAULT NULL	
13	IsFrozen	varchar(50)	DEFAULT NULL	
14	IsFragile	varchar(50)	DEFAULT NULL	
15	Sender	varchar(100)	DEFAULT NULL	
16	SenderPhoneNumber	varchar(100)	DEFAULT NULL	
17	DepartureProvince	varchar(50)	NOT NULL	
18	DepartureDistrict	varchar(50)	NOT NULL	
19	DepartureAddress	varchar(100)	NOT NULL	
20	DepartureCharacteristicPlace	varchar(100)	DEFAULT NULL	
21	DepartureDate	datetime	NOT NULL	
22	Receiver	varchar(50)	DEFAULT NULL	
23	ReceiverPhoneNumber	varchar(12)	DEFAULT NULL	
24	ArrivalProvince	varchar(50)	NOT NULL	
			NOT NULL	

25	ArrivalDistrict	varchar(50)	NOT NULL	
26	ArrivalAddress	varchar(100)	DEFAULT NULL	
27	ArrivalCharacteristicPlace	varchar(100)	NOT NULL	
28	ArrivalDate	datetime	NOT NULL	
29	Distance	float	NOT NULL	
30	Price	float	NOT NULL	
31	AuctionPeriod	datetime	NOT NULL	
32	Status	int(11)	NOT NULL	
33	Notification	bit(1)	DEFAULT NULL	
34	CreatedUserId	int(11)	DEFAULT NULL	
35	Created	datetime	DEFAULT NULL	
36	Modified	datetime	NOT NULL	

3.2.3 Table carrierauction

No	Attribute	Type	Constraints	Description
1	Id	int(11)	NOT NULL PRIMARY KEY	
2	BillOfLadingId	int(11)	DEFAULT NULL FOREIGN KEY	
3	CarrierId	int(11)	DEFAULT NULL FOREIGN KEY	
4	AuctionDate	datetime	NOT NULL	
5	Modified	datetime	DEFAULT NULL	
6	AuctionPrice	float	NOT NULL	
7	Status	int(11)	NOT NULL	
8	notification	bit(1)	NOT NULL	
9	Note	varchar(255)	DEFAULT NULL	

3.2.4 Table comment

No	Attribute	Type	Constraints	Description
1	Id	int(11)	NOT NULL PRIMARY KEY	
2	Content	varchar(100)	NOT NULL FOREIGN KEY	
3	BillOfLadingId	int(11)	NOT NULL FOREIGN KEY	
4	CreatedUserId	int(11)	NOT NULL	
5	Created	datetime	NOT NULL	

3.2.5 Table company

No	Attribute	Type	Constraints	Description
1	Id	int(11)	NOT NULL PRIMARY KEY	
2	Name	varchar(100)	NOT NULL	
3	TaxCode	varchar(20)	NOT NULL	
4	Email	varchar(50)	DEFAULT NULL	
5	PhoneNumber	varchar(11)	DEFAULT NULL	
6	Fax	varchar(20)	DEFAULT NULL	
7	address	varchar(100)	NOT NULL	

3.2.6 Table district

No	Attribute	Type	Constraints	Description
1	Id	int(11)	NOT NULL PRIMARY KEY	
2	Code	varchar(10)	NOT NULL UNIQUE KEY	
3	Name	varchar(50)	NOT NULL	
4	Type	varchar(200)	DEFAULT NULL	
5	ProvinceCode	varchar(10)	DEFAULT NULL	

3.2.7 Table goodstype

No	Attribute	Type	Constraints	Description
1	Id	int(11)	NOT NULL PRIMARY KEY	
2	Code	varchar(20)	NOT NULL	
3	Name	varchar(50)	NOT NULL	
4	Description	varchar(200)	DEFAULT NULL	
5	ReferencePrice	float	DEFAULT NULL	

3.2.8 Table operationfee

No	Attribute	Type	Constraints	Description
1	Id	int(11)	NOT NULL PRIMARY KEY	
2	Code	varchar(10)	NOT NULL	
3	FeeName	varchar(50)	NOT NULL	
4	Type	bit(1)	NOT NULL	
5	Fee	float	DEFAULT NULL	
6	Percent	float	DEFAULT NULL	
7	Description	longtext		
8	Status	int(11)	NOT NULL	
9	Modified	datetime	DEFAULT NULL	
10	Created	datetime	DEFAULT NULL	

3.2.9 Table packagedform

No	Attribute	Type	Constraints	Description
1	Id	int(11)	NOT NULL PRIMARY KEY	
2	Code	varchar(20)	NOT NULL	
3	Name	varchar(50)	NOT NULL	
4	Description	varchar(200)	DEFAULT NULL	

3.2.10 Table paymentdetail

No	Attribute	Type	Constraints	Description
1	Id	int(11)	NOT NULL PRIMARY KEY	
2	Amounts	float	NOT NULL	
3	PaymentDate	datetime	DEFAULT NULL	
4	Type	bit(1)	DEFAULT NULL	
5	Description	varchar(100)	DEFAULT NULL	
6	Balance	float	DEFAULT NULL	
7	BillOfLadingId	int(11)	DEFAULT NULL	
8	UserId	int(11)	NOT NULL FOREIGN KEY	

3.2.11 Table province

No	Attribute	Type	Constraints	Description
1	Id	int(11)	NOT NULL PRIMARY KEY	
2	Code	varchar(10)	NOT NULL UNIQUE KEY	
3	Name	varchar(50)	NOT NULL	
4	Type	varchar(20)	DEFAULT NULL	

3.2.12 Table report

No	Attribute	Type	Constraints	Description
1	Id	int(11)	NOT NULL PRIMARY KEY	
2	UserId	int(11)	NOT NULL FOREIGN KEY	
3	ReportDate	datetime	NOT NULL	
4	ReportTitle	varchar(75)	NOT NULL	
5	ReportQuestio	varchar(75)	DEFAULT NULL	
6	ReportSolutio	varchar(200)	DEFAULT NULL	
7	ReportContent	varchar(200)	DEFAULT NULL	
8	ReportReply	varchar(200)	DEFAULT NULL	
9	Status	bit(1)	DEFAULT NULL	

3.2.13 Table users

No	Attribute	Type	Constraints	Description
1	Id	int(11)	NOT NULL PRIMARY KEY	
2	FullName	varchar(50)	NOT NULL	
3	Email	varchar(50)	NOT NULL	
4	Password	varchar(50)	NOT NULL	
5	PhoneNumber	varchar(20)	NOT NULL	
6	Address	varchar(100)	DEFAULT NULL	
7	DistrictCode	varchar(10)	DEFAULT NULL FOREIGN KEY	
8	IdentityCard	varchar(20)	DEFAULT NULL	
9	IdentityCardPlace	varchar(100)	DEFAULT NULL	
10	IdentityCardDate	date	DEFAULT NULL	
11	IdentityCardImage	varchar(255)	DEFAULT NULL	
12	Role	int(11)	DEFAULT NULL	
13	Status	int(11)	NOT NULL	
14	Created	datetime	NOT NULL	
15	CompanyId	int(11)	NOT NULL FOREIGN KEY	
16	UserAvatar	varchar(255)	DEFAULT NULL	

3.2.14 Table usersaccount

No	Attribute	Type	Constraints	Description
1	UserId	int(11)	NOT NULL PRIMARY KEY FOREIGN KEY	
2	Balance	float	NOT NULL	DEFAULT 0
3	Modified	datetime	NOT NULL	