

Review Real Estate



| Across Border |

26 SEPTEMBER

Across Border

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Approve by Vo Hong Khanh



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I. Problem definition

Today, when society is development technology 4.0 is applied a lot in many fields such as business, medicine, study, and sales... Today we will apply technology to the real estate. We will design a website to help buyers and sellers have more advantages in real estate trading. First, the benefit of the buyer, they can access website, then register a personal account, which allows users to view real estate details such as price, area, address... they can contact the landlord directly by phone number or some other means, depending on the seller. Help buyers can refer to many real estates without having to go to each place and can choose many real estate suitable for you such as price, area, address... In terms of the interests of the seller, the seller does not need to spend much time to advertise real estate in many places, does not spend much money to hire intermediaries to sell real estate. The seller only needs to provide the correct information to the admin side of website, then the admin will post the details of the real estate to the buyer. The buyer will then contact the seller directly via phone number or some other form. Those are the benefits of real estate website when writing down if users require more, we will develop more functions to meet the needs of the most effective use.



II. User requirement

a. Functions

i. For employee by role

Employee account: when employee logged into to post their product.

The post-posting function will have:

- Login: change password, change information, logout, change password
- Post-posting
- Manage a post:
 - Edit post
 - Delete post
 - Search post
 - Sorting post
 - Paging and list
 - View information of post
- Keep a diary of meetings

Admin account: manage websites and database, creates account, manage role of all account. The admin function will have:

- Login: change password, change information, logout, change password
- Post-posting
- Manage a post
 - Edit post
 - Delete post
 - Search post
 - Sorting post
 - Paging and list
 - View information of post
- Manage employee
 - Delete employee
 - Search employee

- Sorting employee
- Paging and list
- View information of employee
- Reset password
- Manage customer
 - Delete customer
 - Search customer
 - Sorting customer
 - Paging and list
 - View information of customer
 - Reset password

ii. For client

Client function will has:

- Register
- Login: change information, change password, logout
- View information of product for detail
- Contact with employee

b. Hardware and software

	Client device	Server computer
Hard requirement	<ul style="list-style-type: none"> - CPU: Pentium IV 2.0 GHz or higher, smartphone, tablet - RAM: 1GB or higher. - HDD: 1GB or higher. 	<ul style="list-style-type: none"> CPU: AMD Opteron 6272 2.1Ghz or higher - RAM: 8GB or higher. - HDD: 500MB or higher - Network Interface Controller
Software requirement	<ul style="list-style-type: none"> - Operating System: mac OS 10.12+, Windows 8.1+, Android and iOS. - Chrome/Firefox/Opera. 	<ul style="list-style-type: none"> - MySQL Server - Operating System: Windows Sever 2016 or higher - JRE - Glassfish Server

III. Schedule and role

a. Project plan and role

- i. Project plan
 - Date of project plan:
 - + Start: September 26th, 2019
 - + End:
- ii. Project Vision/Objective:
 - The goal of project to review real estate around the Can Tho city.
 - The client can see a lot of house, land in our websites.

b. Role

No.	Member	Role	Responsibilities
1	Nguyen Thanh Nhan	Project Manager	Tester, Plan Builder, Coder, Code Interface
2	Nguyen Chi Linh	Developer	Coder, Manage Project, Code Interface
3	Mac Truong Hai	Developer	Coder, Designer, Tester
4	Ma Anh Hoang	Developer	Coder, Tester

c. Schedule

No.	Member	Task	Details	Work start time	Time estimates
1	Nhan, Linh, Hai	Synthetic documents	Searching document for project	09/27/2019	6h
2	Hai, Hoang	Design interface	Design file pts interface (admin, product page)	09/30/2019	3h
3	Nhan, Linh	Design interface	Design file pts interface (home, introduce page)	09/30/2019	3h
4	Nhan, Linh	Coding	Convert file pts to html(home, introduce page)	10/05/2019	12h
5	Hai, Hoang	Coding	Convert file pts to html(home, introduce page)	10/05/2019	12h
6	All	Design database	Analysis database	10/08/2019	14h
7	All	Estimates function	Analysis function	10/09/2019	10h
8	All	Coding	All of object class and model class	10/09/2019	2h
9	Nhan, Linh	Sequence diagram	Draw sequence diagram(Add employee)	10/15/2019	3h
10	Hai, Hoang	Sequence diagram	Draw sequence diagram(Add product)	10/15/2019	3h

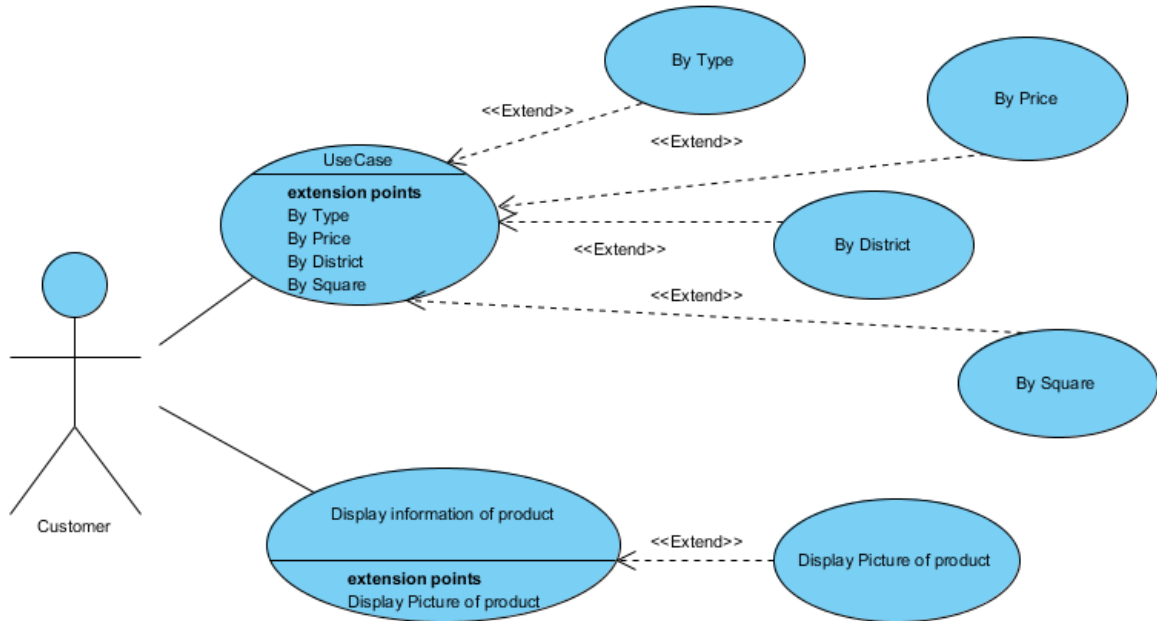
11	All	Coding	Back and coding, connect to the DB in local	10/20/2019	48h
12	Linh	PowerPoint	Design PowerPoint	11/06/2019	2h
13	All	Test and complete	Test project by all of member and complete	11/11/2019	4h

IV. Design pattern

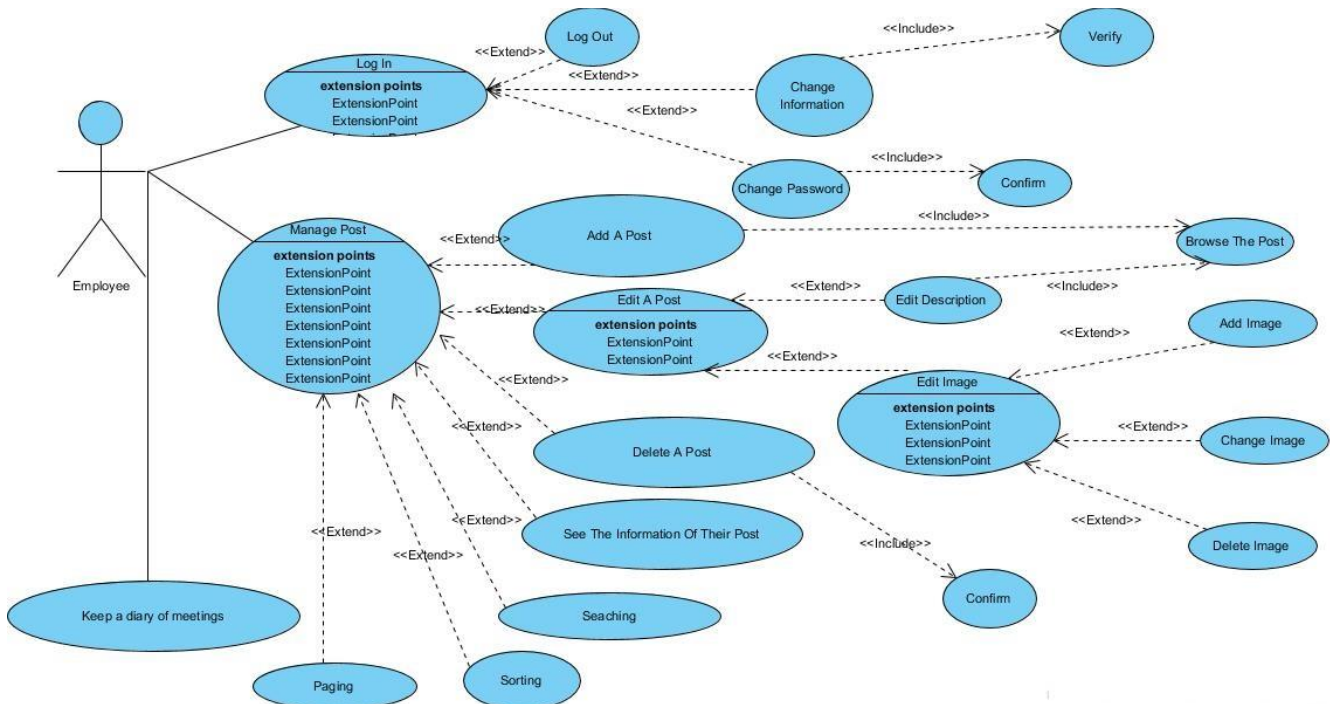
a. System Organization

i. Use-case diagram

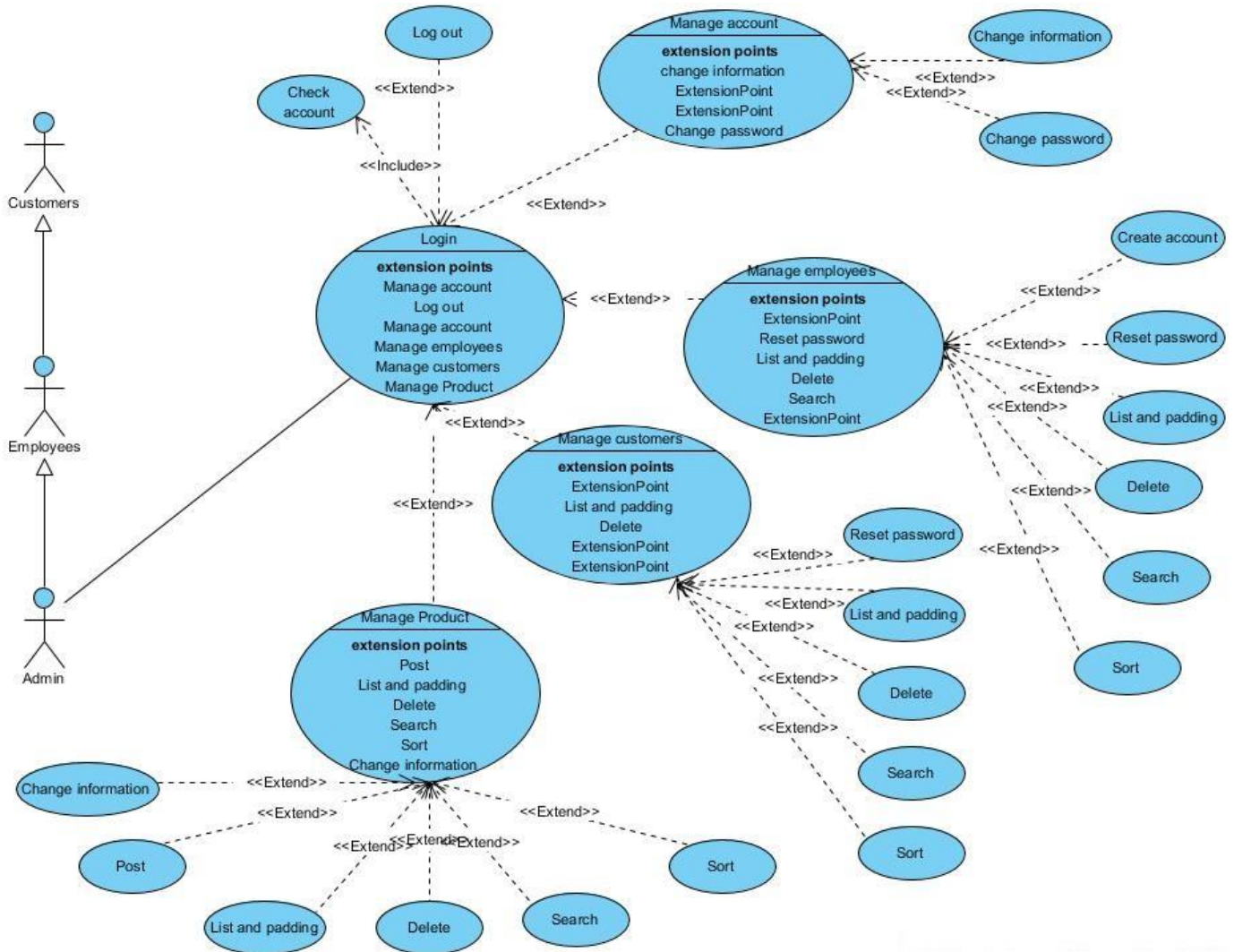
1. Customer

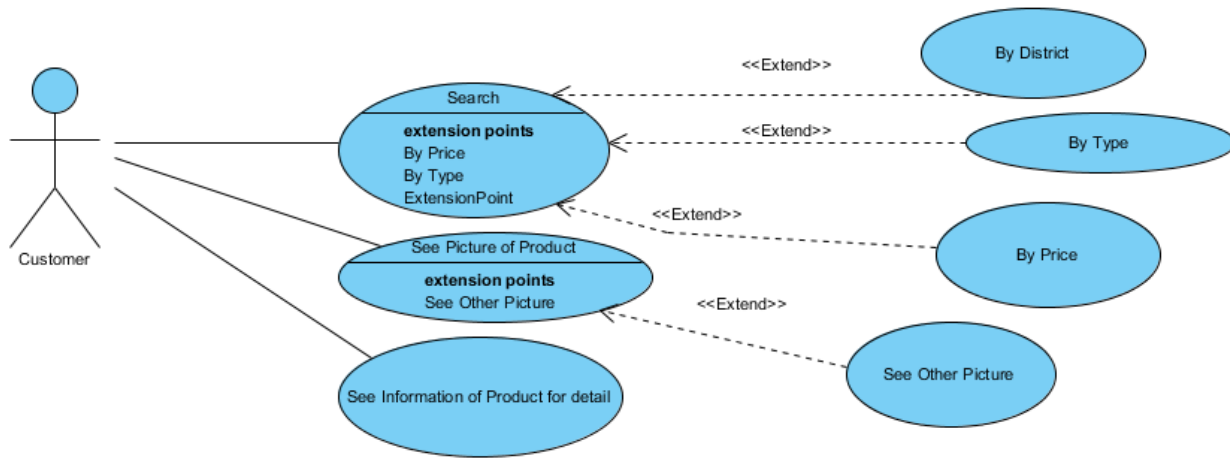


2. Employee



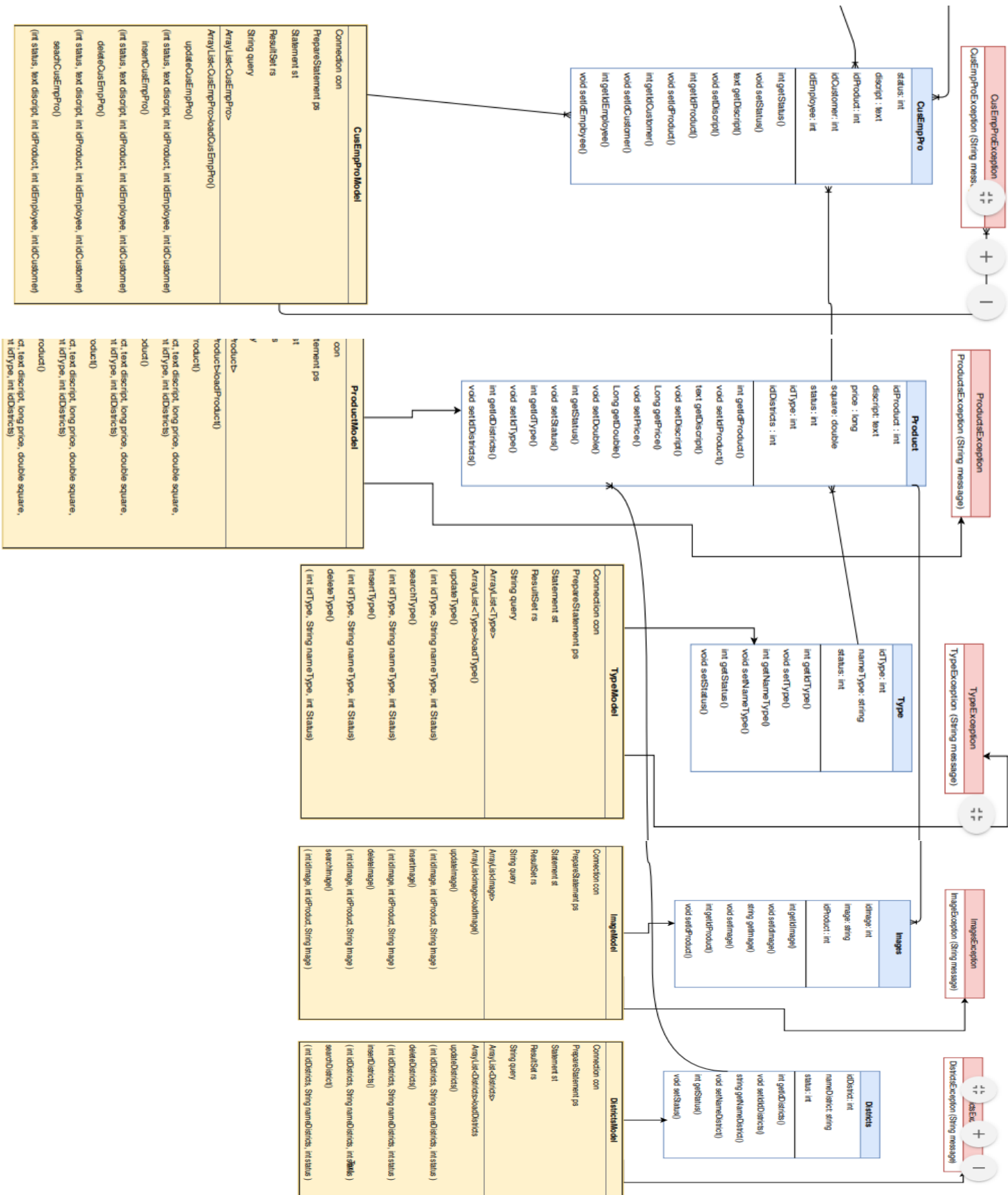
3. Admin



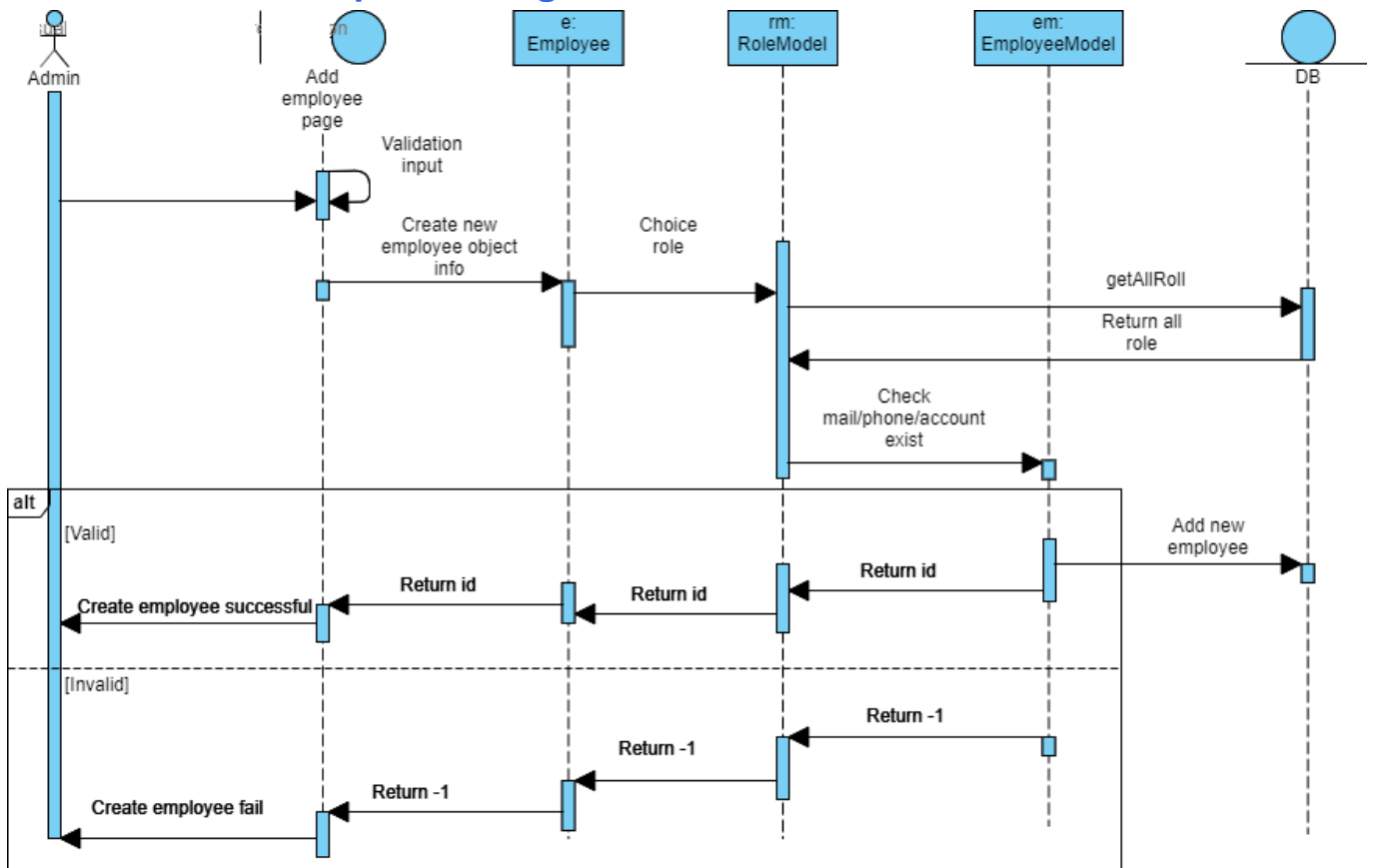


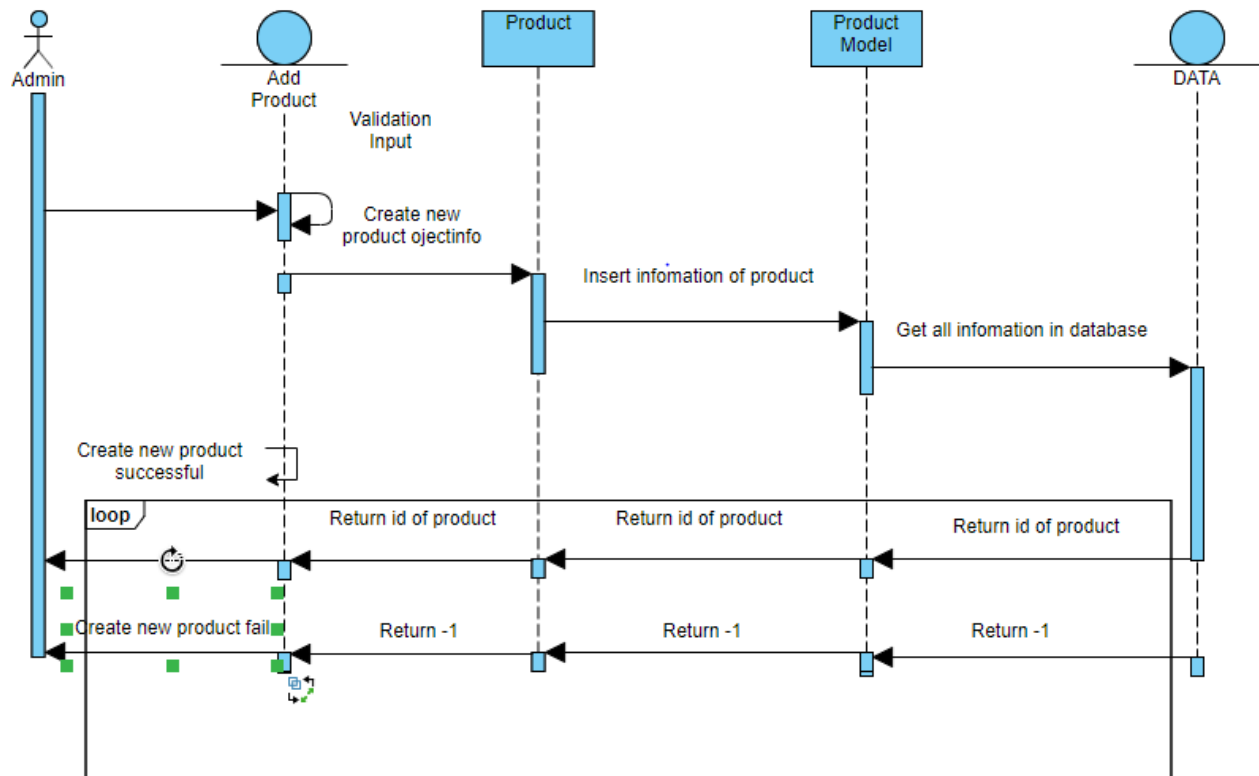
ii. Class diagram





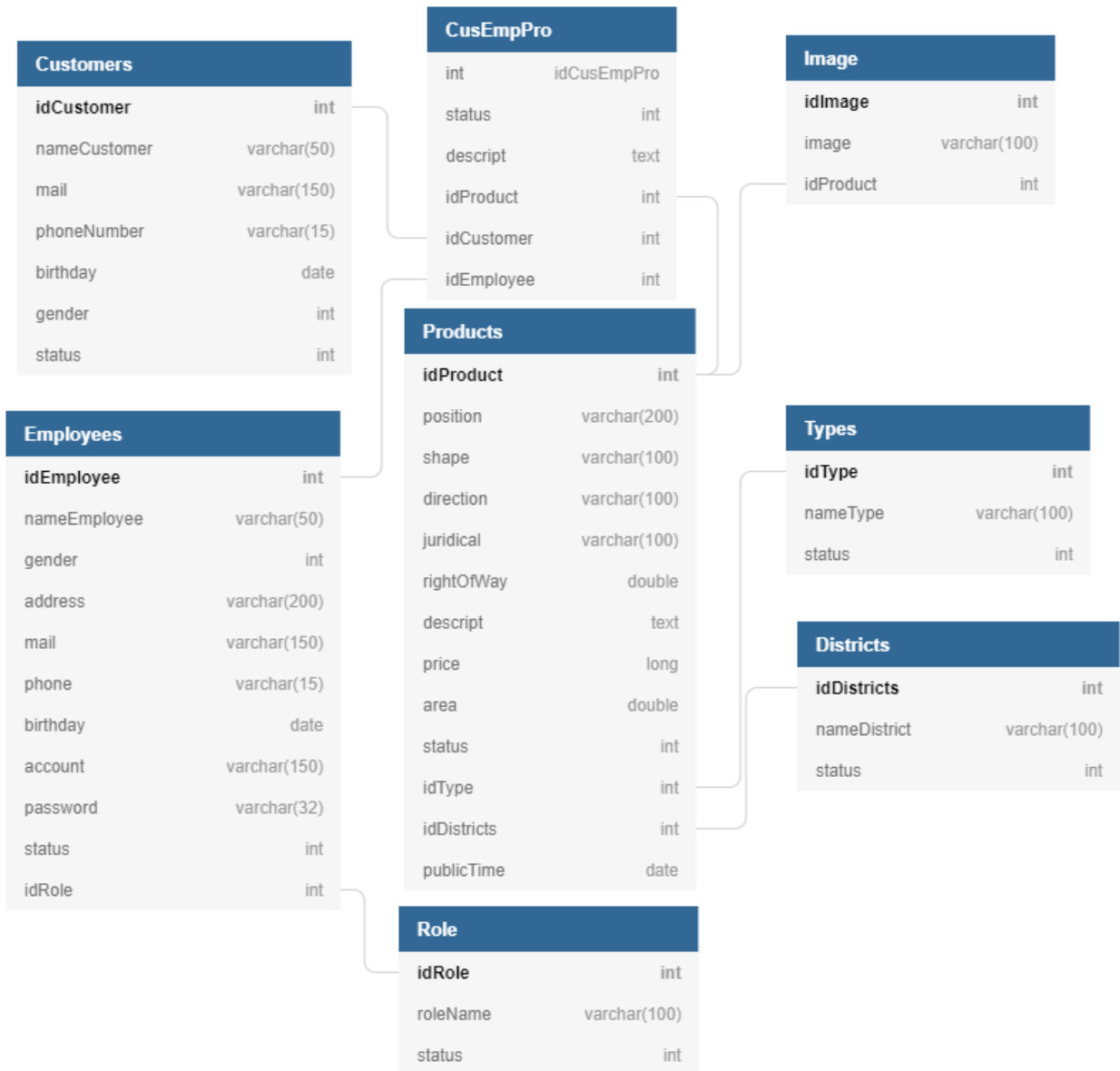
iii. Sequence diagram





b. Database

i. DB Diagram



ii. Table structure

TABLE 1. CUSTOMERS

Field Name	Data Type	Constraint	Description
idCustomer	Int	PRIMARY KEY, NOT NULL	Id of customer
nameCustomer	Varchar(50)	NOT NULL	Name of customer
mail	Varchar(150)	NOT NULL	Mail of customer
phoneNumber	Varchar(15)	NOT NULL	Phone of customer
birthday	Date	NOT NULL	Birthday of customer
gender	Int	NOT NULL	Gender of customer
status	Int	NOT NULL	Status of customer

TABLE 2. EMPLOYEES

Field Name	Data Type	Constraint	Description
idEmployee	Int	PRIMARY KEY, NOT NULL	Id of employees
nameEmployee	Varchar(50)	NOT NULL	Name of employees
gender	Int	NOT NULL	Gender of employees
address	Varchar(200)	NOT NULL	Address of employees
mail	Varchar(150)	NOT NULL	Mail of employees
phone	Varchar(15)	NOT NULL	Phone of employees
birthday	Date	NOT NULL	Birthday of employees
account	Varchar(150)	NOT NULL	Account of employees
password	Varchar(32)	NOT NULL	Password of employees
status	Int	NOT NULL	Account's status
idRole	Int	NOT NULL	Position of employees

TABLE 3. ROLE

Field Name	Data Type	Constraint	Description
idRole	Int	PRIMARY KEY, NOT NULL	Id of role
roleName	Varchar(100)	NOT NULL	Role name
status	Int	NOT NULL	Status of role

TABLE 4. CUS-EMP-PRO

Field Name	Data Type	Constraint	Description
status	Int	NOT NULL	Status
descript	Text	NOT NULL	Descript
idProduct	Int	FOREIGN KEY, NOT NULL	Id product
idCustomer	Int	FOREIGN KEY, NOT NULL	Id customer
idEmployee	Int	FOREIGN KEY, NOT NULL	Id employee

TABLE 5. PRODUCT

Field Name	Data Type	Constraint	Description
idProduct	Int	PRIMARY KEY, NOT NULL	Id of product
position	Varchar(200)	NOT NULL	Position of product
shape	Varchar(100)	NOT NULL	Shape of product
direction	Varchar(100)	NOT NULL	Direction of product
juridical	Varchar(100)	NOT NULL	Juridical of product
rightOfWays	Double	NOT NULL	Right of ways of product
descript	Text	NOT NULL	Descript of product
price	Long	NOT NULL	Price of product
square	Double	NOT NULL	Square of product
status	Int	NOT NULL	Status of product
idType	Int	FOREIGN KEY, NOT NULL	Id type of product
idDistrict	Int	FOREIGN KEY, NOT NULL	Id district of product

TABLE 6. TYPE

Field Name	Data Type	Constraint	Description
idType	Int	PRIMARY KEY, NOT NULL	Id type
nameType	Varchar(100)	NOT NULL	Name of type
status	Int	NOT NULL	Status of type

TABLE 7. IMAGE


Field Name	Data Type	Constraint	Description
idImage	Int	PRIMARY KEY, NOT NULL	Id image
Image	Varchar(100)	NOT NULL	Path image
idProduct	Int	FOREIGN KEY, NOT NULL	Id of product

TABLE 8. DISTRICTS


Field Name	Data Type	Constraint	Description
idDescription	Int	PRIMARY KEY, NOT NULL	Id of description
nameType	Varchar(100)	NOT NULL	Name of type
status	Int	NOT NULL	Status of type

c. Interface

i. For Admin


[Home](#)
[Product](#)
[Our team](#)
[Services](#)
[Our team](#)
[Contact](#)

List product(38)




The house is ...

965, 30/4 street, Ninh Kieu district, Can Tho city

Price: 8000 million

2019-11-08




The house is ...

958, So 2 street, Thoi Nhut, Ninh Kieu, Can Tho

Price: 4000 million

2019-11-07



Facade house, ...

965, So 5 street, Thoi Nhut, Ninh Kieu, Can Tho

Price: 2000 million

2019-11-07

nhantce

- Products
- Employees
- Customers
- Potential customers
- Change information
- Change password
- Logout

MANAGEMENT PRODUCT

Type	District	Description	Price	Area	Position	Time	<input type="button" value="+"/> <input type="button" value="7"/> <input type="button" value="38"/>
House	Binh Thuy	Facade house, three ...	2000 million	80.0	alley 11, Nguyen ...	12:00:00 12/11/2019	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="info"/>
House	Binh Thuy	Facade house, a ...	3000 million	120.0	16/18, Tran Quang ...	12:00:00 02/11/2019	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="info"/>
House	Binh Thuy	House roof, one ...	2300 million	100.0	192 Nguyen Thong ...	12:00:00 12/11/2019	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="info"/>
House	Binh Thuy	Facade house, beautiful ...	6000 million	100.0	129 Nguyen Thong ...	12:00:00 12/11/2019	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="info"/>
House	Binh Thuy	The house has a ...	4000 million	125.0	Binh Thuy District, ...	12:00:00 04/11/2019	<input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="info"/>

ii. For Client



[Home](#)
[Product](#)
[Our team](#)
[Services](#)
[Our team](#)
[Contact](#)

Ninh Kieu

The house

📍 65, 30/4 street, Ninh Kieu district, Can Tho city

Price: 8000 million

2019-11-08

The house

📍 58, So 2 street, Thoi Nhut, Ninh Kieu, Can Tho

Price: 4000 million

2019-11-07

The house

📍 65, So 5 street, Thoi Nhut, Ninh Kieu, Can Tho

Price: 2000 million

2019-11-07



Home Product Our team Services Our team Contact



Home Product Our team Services Our team Contact



Information

- 500m radius, Near Ba Bo market, Mobile Police School, Phuong Chau International Hospital, new house, get some high quality furniture

- Price: 3200

- Area: 120.0m

- Type: House

- District: Ninh Kieu

[More information](#)

- Position: Hang Bang residential area, An Binh ward, Ninh Kieu district, Can Tho city

- Shape: 4x16

- Direction: SouthWest

- Juridical: 100% residential

- Right of way: 6.0m

Product the same district



Product the same district



500m radius, ...

965, 30/4 street, Ninh Kieu district, Can Tho city

Price: 8000 million

2019-11-08



500m radius, ...

958, So 2 street, Thoi Nhut, Ninh Kieu, Can Tho

Price: 4000 million

2019-11-07



500m radius, ...

965, So 5 street, Thoi Nhut, Ninh Kieu, Can Tho

Price: 2000 million

2019-11-07



How to buy a house



Enter your information

Let's leave your information here. We will contact to you.



Have a meeting

We have a day to meet to you. Get information, exchange question.



Deal

payment and get your own house




Stay

After payment, you can stay in your house.

Our Team



 [Home](#) [Product](#) [Our team](#) [Services](#) [Our team](#) [Contact](#)

Get in Touch

Phone

Name

Email


BirthDay :

Gender* :

☒ Male

☐ Female

[SEND MESSAGE](#)



V. Maintenance

The system is constantly updated as new products become available

The system is maintained once a month by the our information technology center.

VI. Checklist

No.	Document Name	Date	Estimated number of hours completed	Complete time	Real time	Member names	Note
1	Problem definition	26/09/2019	2	14:00 26/09/2019	2	Nhan, Hai	Complete
2	User requirement	26/09/2019	4	14:00 26/09/2019	3	Nhan, Hai	Complete
3	Analysis	30/09/2019	12	12:00 30/09/2019	11	All	Complete
4	Making document	10/10/2019	6	20:00 10/10/2019	5	All	Complete
5	Design database diagram	05/10/2019	15	23:00 05/10/2019	16	All	Complete
6	Use case diagram	03/10/2019	2	14:00 03/10/2019	1.5	All	Complete
7	Sequence Diagram	06/10/2019	2	14:00 06/10/2019	2	All	Complete
8	Coding	07/10/2019 - 10/11/2019	136	22:00 11/11/2019	138	All	Complete
9	Testing	12/11/2019	1	15:00 12/11/2019	1	All	Complete
10	Complete PP and Document	13/11/2019	2	20:00 13/11/2019	2	Hai, Linh	Complete