

FPT ACADEMY INTERNATIONAL FPT – APTECH COMPUTER EDUCATION

Centre Name: ACE-HCMC-2-FPT.

Address: 590 Cach Mang Thang 8, District 3, Ho Chi Minh City, Viet Nam.

REALTORS PORTTAL

Supervisor:	Mr. Tran Phuoc Sinh					
Semester:	3					
Batch No:	T1.1809.A0					
Group No:	2					
Order:	Full name Roll No.					
1.	Nguyen Van Son	Student1149174				
1.	Nguyen Thi Quynh Huong Student1141442					
3.	Trinh Ngoc Kinh	Student1149175				
4.	Tran Nhat Nam Student1106012					
5.	Van Tran Chi	Student1148303				

Month: 12 Year: 2019

This is to certify that
Mr. Nguyen Van Son
Ms.Nguyen Thi Quynh Huong
Mr. Trinh Ngoc Kinh
Mr. Tran Nhat Nam
Mr. Van Tran Chi
have successfully designed & developed:
eProject: Realtors Portal
Submitted by:
Mr. Tran Phuoc Sinh
Date of issue: December 09 th 2019
Authorized Signature:

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I. WORK PROCESS

1. User (Front-end)

User can use system for:

- Before login:
 - ✓ View Advertisement
 - ✓ Search advertisement by multiple attribute
 - ✓ Register
 - ✓ Login
- After login:
 - √ Change password
 - ✓ Edit personal information
 - ✓ Logout
 - ✓ Send feedback
 - √ Pay pakage for advertisement
 - √ View personal history purchase
 - ✓ Post advertisements

2. Admin (Back-end)

Admin must login first to manage system

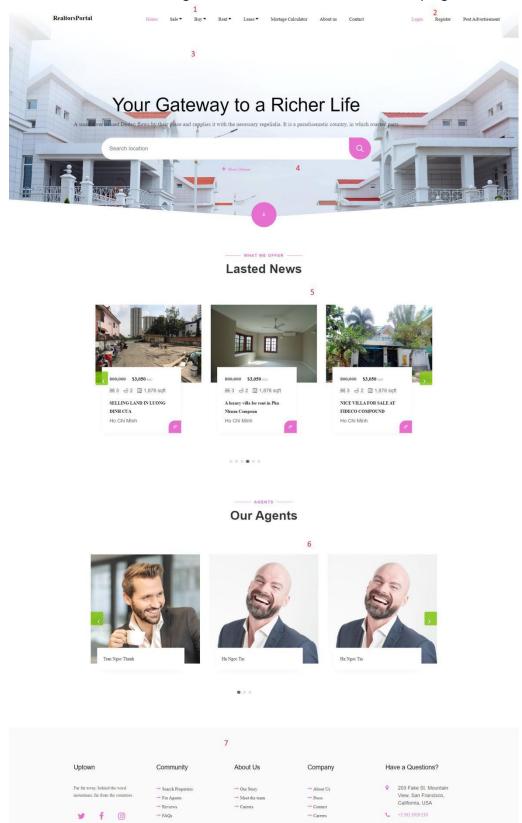
- Change password
- > Logout
- User manage:
 - ✓ View user list
 - ✓ Search user by name
 - ✓ Add new user
 - ✓ Update user
 - ✓ Delete user
- Advertisment manage:
 - ✓ View advertisement list
 - ✓ Search advertisement by multiple attribute
 - ✓ Update advertisement
 - ✓ Delete advertisement
- City manage:
 - ✓ View City list
 - ✓ Search City by name
 - ✓ Add new City
 - ✓ Update City
 - ✓ Delete City
- > District manage:
 - ✓ View District list
 - ✓ Search District by name
 - ✓ Add new District
 - ✓ Update District
 - ✓ Delete District
- Ward manage:

- ✓ View ward list
- ✓ Search ward by name
- ✓ Add new ward
- ✓ Update ward
- ✓ Delete ward
- Street manage:
 - √ View Street list
 - ✓ Search Street by name
 - ✓ Add new Street
 - ✓ Update Street
 - ✓ Delete Street
- Photodetail manage:
 - ✓ View
 - ✓ Delete
- > Latest Advertisement manage:
 - √ View
 - ✓ Add
 - ✓ Delete
- Feedback manage:
 - ✓ View feedback list
 - ✓ Search feedback by user's name
 - ✓ Delete feedback
- > Revenue Report:
 - ✓ View revenue report by date

I. GUI DESIGN

1. User Interface

1.1. Home Page: Introduce the website with the navigation bar links. Some lasted news & agents also be showed in home page.



No	Name	Туре	Source Code	Event	Description	Status
1	Navigation Bar	Hyperlink	Figure 1	Click	Choose & click to go to sub pages	Enable
	Login	Hyperlink		Click	Click to go to login page	Enable
2	Register	Hyperlink	Figure 2	Click	Click to go to register page	Enable
	Post Advertisement	Hyperlink	r igure 2	Click	When user have a account, and then click go to Post page	Enable
3	Image	Image				
4	Search	Hyperlink	Figure 3	Click	Click to search ads	Enable
5	Lasted New	Hyperlink	Figure 4	Click	Click to go that news's details page	Enable
6	Agents	Image			Some the Agent accounts	
7	Footer		Figure 5		Some information to contact with clinic	

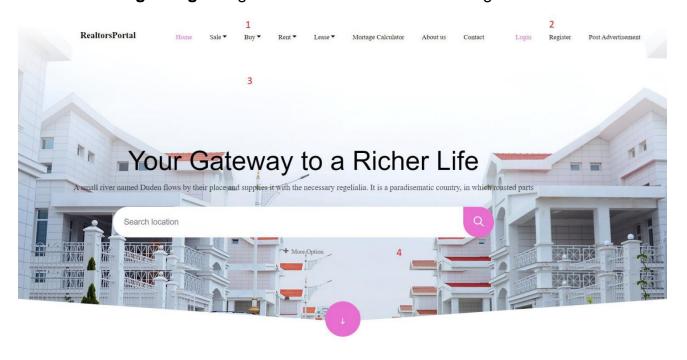
1.2. About Us Page: Introduce the RealtorsPortal.



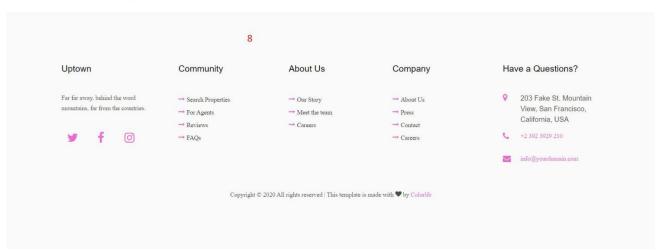


No	Name	Туре	Validation	Event	Description	Status
1	About Us				Simple introduction about Real estate	

1.3. Login Page: Login form for Private Seller and Agent



LOG IN FOR AGENT	
	5
Password	



No	Name	Туре	Validation	Event	Description	Status
1	Navigation Bar	Hyperlink		Click	Choose & click to go to sub pages	Enable
	Login	Hyperlink		Click	Click to go to login page	Enable
2	Register	Hyperlink		Click	Click to go to register page	Enable
	Post Advertisement	Hyperlink		Click	When user have a account, and then click go to Post page	Enable
3	Image	Image				
4	Search			Click	Click to search ads	Enable
3	Account	Textbox	- Not null - Max length:20	Focus	Input username	Enable
6	Password	Password	- Not null - Max length:20	Focus	Input password	Enable
7	Login	Button		Click	Click to login	Enable
8	Footer				Some information to contact with clinic	

- **1.4. Register Page:** Register form for Private Seller and for Agent if they haven't account.
 - A. Seller's Register Form: When user choose The Seller radio

Choose one of two types of users Agent : Seller : 1

SIGN UP FOR SELLER Seller Account* 2
Password*
Fullname* 4
Gender* Male Female
Date Of Birth* dd/mm/yyyy
Address*
Phone*
Email*

No	Name	Туре	Validation	Event	Description	Status
1	Function Types	Radio		Click	Choose one of two types of users	Enable
2	Username	Textbox	- Not null - Max length:20	Focus	Input username	Enable
3	Password	Password	- Not null - Max length:20	Focus	Input password	Enable
4	Full name	Textbox	- Not null - Max length:50	Focus	Input full name	Enable
5	Gender	Radio Button	Not null	Focus	Choose gender	Enable

6	Day of Birth	Textbox (Datetime)	Not null (MM/dd/yyyy)	Focus	Input day of birth	Enable
7	Address	Textbox	- Not null - Max length:100	Focus	Input address	Enable
8	Phone	Textbox	- Not null - Max length:20	Focus	Input phone number	Enable
9	Email	Textbox	- Not null - Max length:30	Focus	Input email	Enable
10	Sign Up	Button		Click	Click to register	Enable

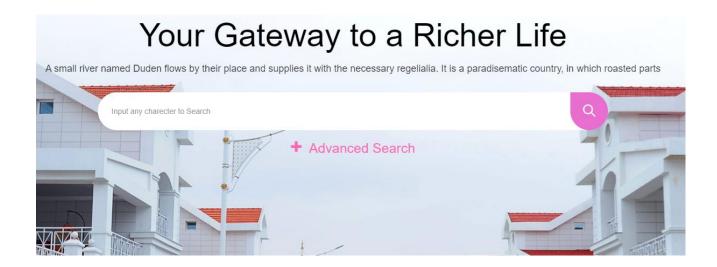
B. Agent's Register Form: When user choose The Agent radio

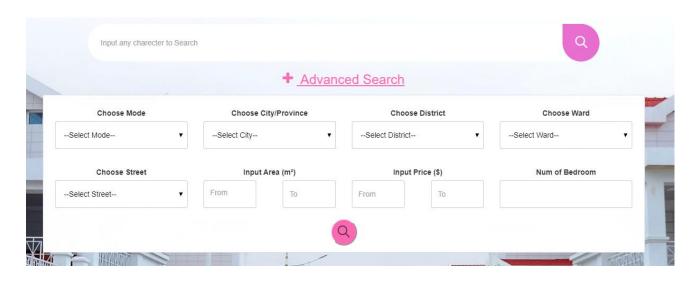
Choose one of two types of users	
Agent :● Seller :●	
1	
SIGN LIP FOR AGENT	

Agent Account 2 Name 3 Password 4 Address 5 Phone 6 Email 7 Tax Code 8

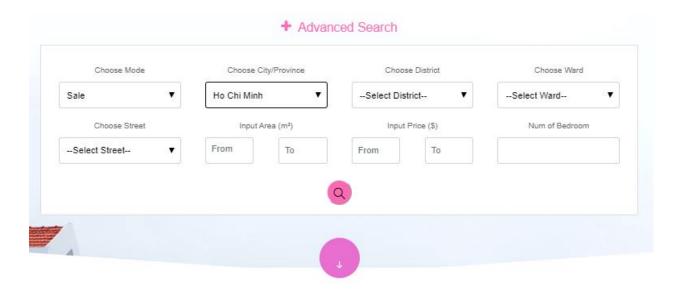
No	Name	Туре	Validation	Event	Description	Status
1	Function Types	Radio		Click	Choose one of two types of users	Enable
2	Agent Account	Textbox	- Not null - Max length:20	Focus	Input username	Enable
3	Name	Textbox	- Not null - Max length:30	Focus	Input full name	Enable
4	Password	Password	- Not null - Max length:20	Focus	Input password	Enable
5	Address	Textbox	- Not null - Max length:100	Focus	Input address	Enable
6	Phone	Textbox	- Not null - Max length:20	Focus	Input phone number	Enable
7	Email	Textbox	- Not null - Max length:30	Focus	Input email	Enable
8	TaxCode	TextCode	- Not null - Max length:30	Focus	Input Tax Code	Enable
9	Sign Up	Button		Click	Click to register	Enable

1.5. Advance Search: Show Advertisements with more option same time (Click icon " + " to show table of Advance Search)





No	Name	Туре	Validation	Event	Description	Status
1	Select Mode	Dropdownlist			Sale,Buy,Rent,Lease	
2	Select City	Dropdownlist			Choose City	Enable
3	Select District	Dropdownlist			Choose District based on value City	
4	Select Ward	Dropdownlist			Choose ward based on value District	
5	Select Street	Dropdownlist			Choose street based on value ward	Enable
6	Input Area	Input			Input value area need to search	
7	Input Price	Input		Input value price need to search		Enable
8	Num of Bedroom	Input			Input num of bedroom	Enable

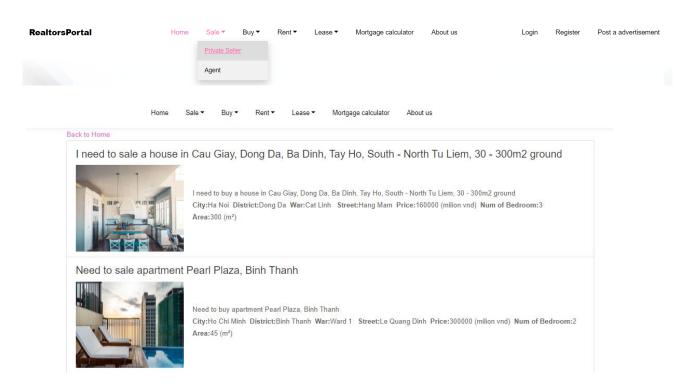


List Advertisement

There are 8 results



1.6. Sale Page: Show "Sale" advertisements



eProject: Realtors Portal

1.7. Buy Page: Show "Buy" advertisements

Home Sale ▼ Buy ▼ Rent ▼ Lease ▼ Mortgage calculator About us

Back to Home

Need to buy houses under 30m2, under 200.000\$ in District 2 Ho Chi Minh city



Need to buy houses under 30m2, under 200.000\$ in District 2 Ho Chi Minh city

City:Ho Chi Minh District:District 2 War:An Khanh Street:Duong so 2 Price:200000 (milion vnd) Num of Bedroom:2

Area:30 (m²)

My Hoang Duplex Villa for sale Duong so 1,An Khanh,District 2,Ho Chi Minh





PageList



1.8. Rent Page:

Home Sale ▼ Buy ▼ Rent ▼ Lease ▼ Mortgage calculator About us

Back to Home

Need to rent a fully furnished apartment, 1 bedroom



Need to rent a fully furnished apartment, 1 bedroom

City:Ha Noi District:Ba Dinh War:Thanh Tan Street:Lieu Giai Price:200 (million vnd) Num of Bedroom:2 Area:30 (m²)

Need to rent an apartment 2 or 3 bedrooms



Need to rent an apartment 2 or 3 bedrooms

City:Da Nang District:Hai Chau War:Thach Thang Street:Ong Ich Khiem Price:600 (milion vnd) Num of Bedroom:2

Area:45 (m²)

1.9. Lease page:

Home Sale ▼ Buy ▼ Rent ▼ Lease ▼ Mortgage calculator About us

FOR LEASE IN VINH PHUC WARD, BA DINH, HANOI



253/5000 Area of 40m2 x 4 floors including: 5 bedrooms, 3 bathrooms, 1 kitchen, 1 living room. Convenient transportation: Via Doi Can, Hoang Hoa Tham, HQV, De Buoi easily; near 354 Army Hospital; many kindergartens, elementary schools, 2 and 3; near the bustling 7.2 ha market of Vinh Phuc

City:Ha Noi District:Ba Dinh War:Binh Phuc Street:Hung Phat Price:700 (million vnd) Num of Bedroom:2 Area:80 (m²)

CASH OFFICE D1, D2, BINH THANH. NEW, LUXURY, WITH A ROUND + GIVING FULL INTERIOR, GOOD PRICE

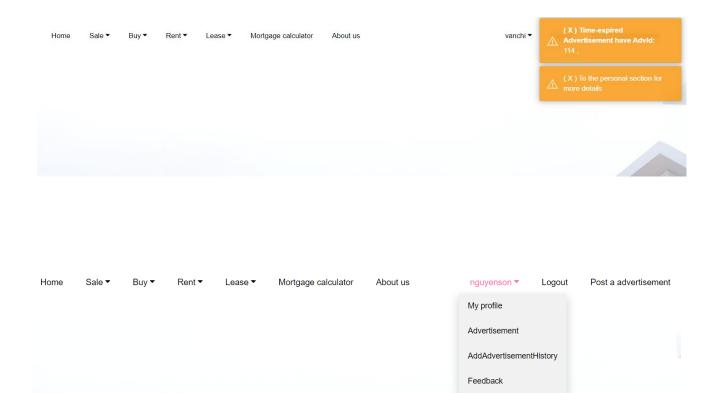


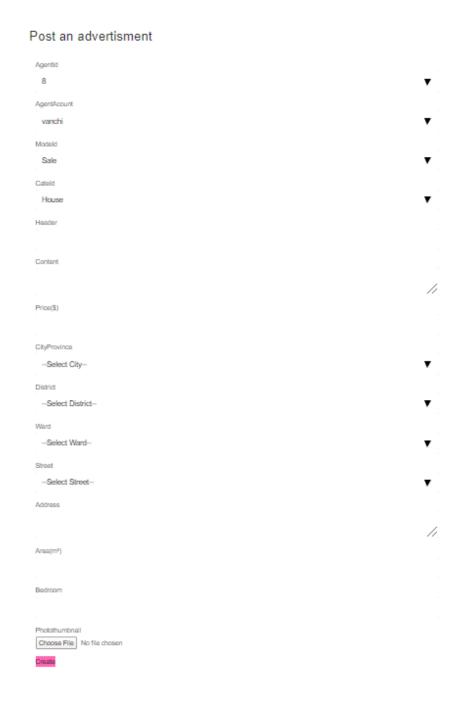
CASH OFFICE D1, D2, BINH THANH. NEW, LUXURY, WITH A ROUND + GIVING FULL INTERIOR, GOOD PRICE City:Ho Chi Minh District:Binh Thanh War:Ward 2 Street:Phan Van Tri Price:300 (milion vnd) Num of Bedroom:3 Area:50 (m²)

1

1.10. Post a Advertisement: Post a new Advertisement (Have to Login to use)

When logging in successfully, if the advertisement expires, the expire AdvId code will as shown below (demo user account *vanchi*, pass *123*).





1.11. My profile Page: Display and edit user's profile

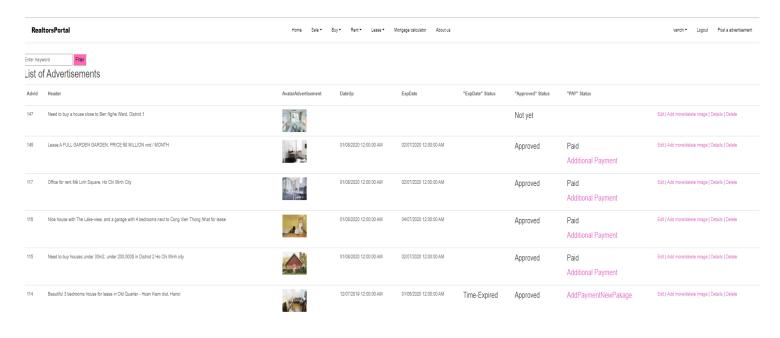
Agent's Profile



Edit

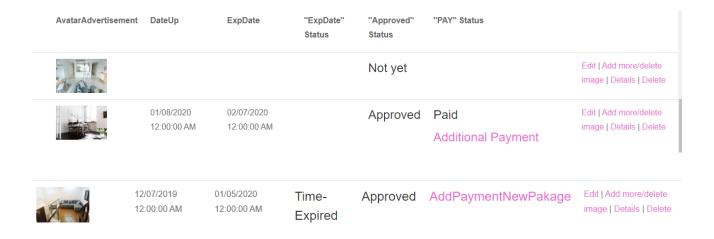
Edit Profile
AgentAcount
nguyenson
AgentName
Nguyen Son
AgentPassword
AgentAddress
356 No trang long
AgentPhone
0979498174
AgentEmail
son1@gmail.com
TaxCode
T123
AgentAvatar
Choose File No file chosen
Submit Rank to List

1.12. Advertisement Page: Display and edit or delete user's Advertisment



(Admin alow to set status "Approved": true or false)

- Link "Add more/delete image" to upload or delete multiple images for an advertisement
- Column "Expdate" to show time-expired advertisement.
- Link "AddPaymentNewPakage" to renew an expired advertisement.



• When click "Add more/delete image":

EditPhotoDetail

Edit Support Request

Header

Nice house with The Lake-view, and a garage with 4 bedrooms next to Cong Vien Thong Nhat for lease



When click "AddPaymentNewPakage":

AdditionalPayment

Advertisement

Advld

114

Header

Beautiful 3 bedrooms house for lease in Old Quarter - Hoan Kiem dist, Hanoi

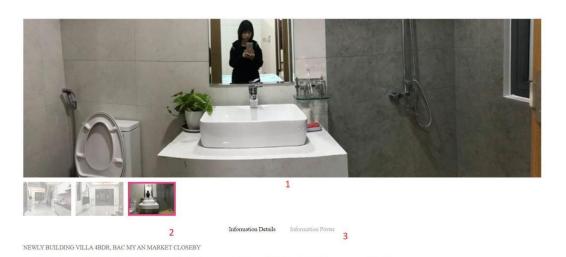
Choose pakage:



1.13. AddAdvertisementHistory: Display history of pay for advertisments

AddA	AdvertisementHistory											
Advld	AdvTitle	UserId	SeLLId	SeLLAccount	Agentid	AgentAccount	DateUp	ExpDate	Onemonth	Threemonths	Sixmonths	SubTotal
115	Need to buy houses under 30m2, under 200.000\$ in District 2 Ho Chi Minh city	2			8	vanchi	01/08/2020 12:00:00 AM	02/07/2020 12:00:00 AM	1	0	0	2
114	Beautiful 3 bedrooms house for lease in Old Quarter - Hoan Kiem dist, Hanoi	2			8	vanchi	12/07/2019 12:00:00 AM	01/05/2020 12:00:00 AM	1	0	0	2
116	Nice house with The Lake-view, and a garage with 4 bedrooms next to Cong Vien Thong Nhat for lease	2			8	vanchi	01/08/2020 12:00:00 AM	04/07/2020 12:00:00 AM	0	1	0	5
145	Lease A FULL GARDEN GARDEN, PRICE 68 MILLION vnd / MONTH	2			8	vanchi	01/08/2020 12:00:00 AM	02/07/2020 12:00:00 AM	1	0	0	2
117	Office for rent Mê Linh Square, Ho Chi Minh City	2			8	vanchi	01/08/2020 12:00:00 AM	02/07/2020 12:00:00 AM	1	0	0	2
											Total:	13\$

1.14. Advertisement Details: this page display information about the Poster's advertisements



No	Name	Туре	Validation	Event	Description	Status
1	Advertisements Images	Image				
2	Information Details	Textbox (Read only)			Information Details	Enable
3	Information Poster	Textbox (Read only)			Information Poster	Enable

1.15. Mortage Caculator page: This page calculate for rate each year.



SIMPLE MORTGATE CALCULATION

Principal	
	3
Rate(%)/year	
-	4
Time	
	5
	Result 6
Result	7

No	Name	Туре	Validation	Event	Description	Status
1	Bank	Dropdownlist		Click	Some banks	Enable
2	Search	Button		Click	See rate	Enable
3	Principal	Textbox		Focus	The price which want to calculate	Enable
4	Rate	Textbox		Focus	The rate which want to calculate	Enable

5	Time	Textbox	Focus	The time which want to calculate	Enable
6	Result	Button	Click	See result	Enable
7	Result	Textbox (Read only)		The result after have calculated already	Enable

1.16. Feedback Page: when user have account and then they can send feedback. (must login first to send feedback)



No	Name	Туре	Validation	Event	Description	Status
1	Choose Type	Dropdown		Click	Choose type	Enable
2	Account Name	Dropdown				
3	Content	Textbox		Focus	Input feedback's content	Enable
4	Send	Button		Click	Send Feedback	Enable

1.17. User's Feedback History Page: when user want see Admin have replied already or not yet. (must login first to see feedback history)



No	Name	Туре	Validation	Event	nt Description	
1	Choose Tab			Click	Choose tab	Enable

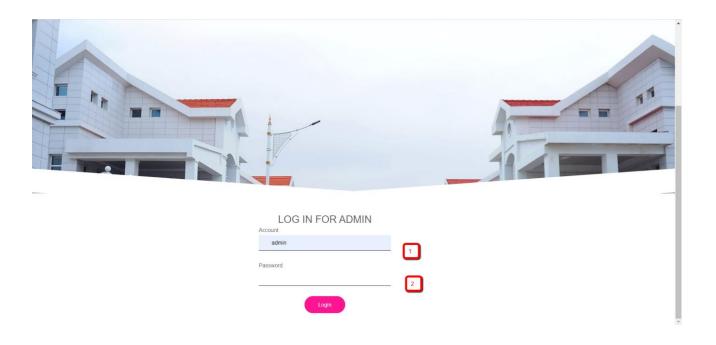
2. Admin Interface

2.1. Login Page: Login form for admin (default: Username: admin,

password: 123)

• Controller: Admins

• Action: Login



No	Name	Туре	Validation	Event	Description	Status
1	Account	Textbox	-Not null -Max length:30	Focus	Input username	Enable
2	Password	Textbox (password)	-Not null -Max length:30	Focus	Input password	Enable
3	Login	Button		Click	Click to login	Enable

- 2.2. Logout: notification will appear when admin click logout button
- 2.3. Set Active/Deactive for Agent and for Private Seller Page: Set Active or Deactive for user account



No	Name	Туре	Validation	Event	Description	Status
1	Set active/deactive	Button	S	Click	Set active/deactive for user acsount	Enable

2.4. Add a new Lasted News Page: Set Add a new Lasted News from Users advertisements



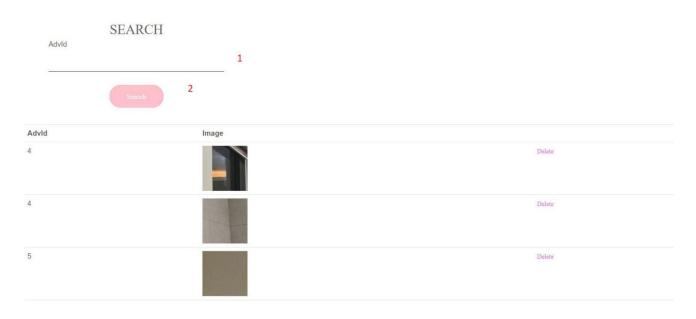
No	Name	Туре	Validation	Event	Description	Status
1	Choose Advertisement	Dropdown		Click	Choose Advertisements	Enable
2	Add	Button		Click	Add	Enable

2.5. Reply User's Feedback Page: Reply User's Feedback

User's FeedBack	Have replied already	
User's Feedback		Action
dfgfdgf		Reply

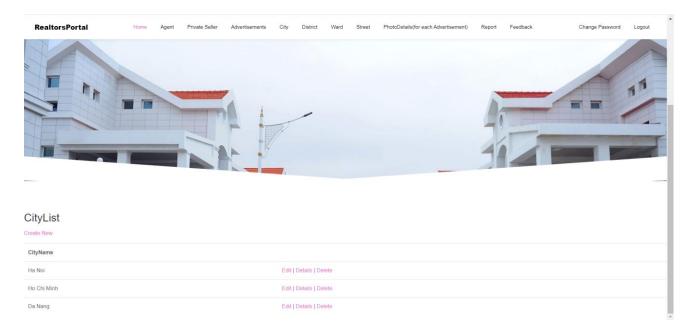
No	Name	Туре	Validation	Event	Description	Status
1	Choose Tab			Click	See admin have replied already or not yet if admin hasn't replied yet, admin has would be replied	Enable

2.6. Display Advertisement's Images Page: See some ads's images

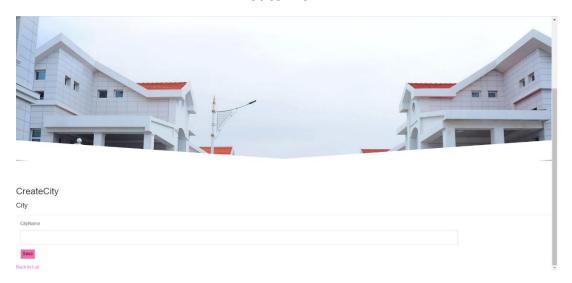


No	Name	Туре	Validation	Event	Description	Status
1	Advld	Textbox		Focus	Input some advertisement's Id	Enable
2	Search	Button		Click	Find some images of some poster	Enable

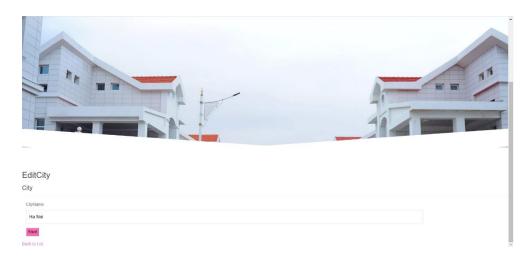
2.7. City page: Display ,edit create new or delete city database



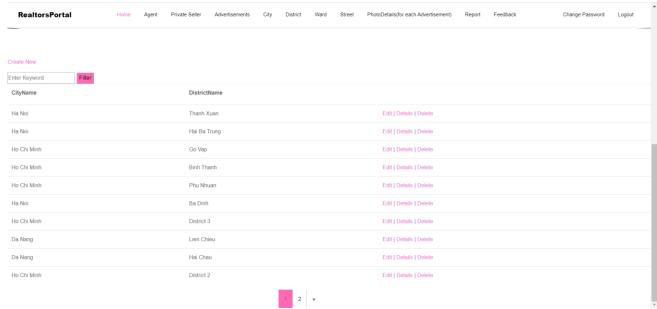
• Link "Create New":



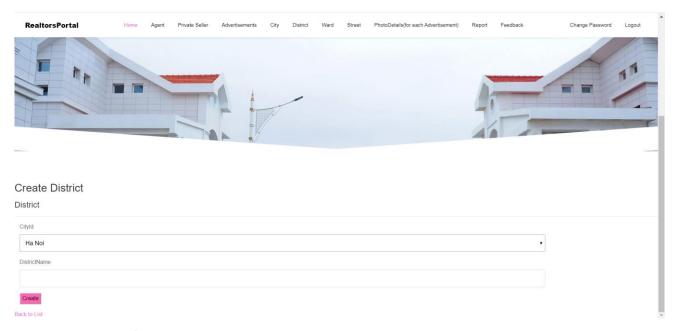
• Link "Edit"



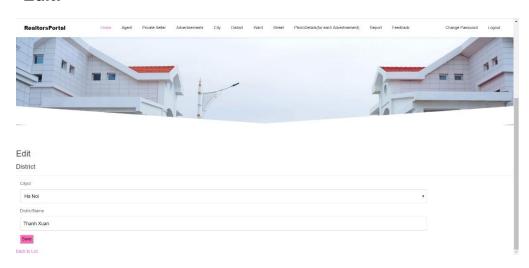
2.8. District Page: Display ,edit create new or delete district database



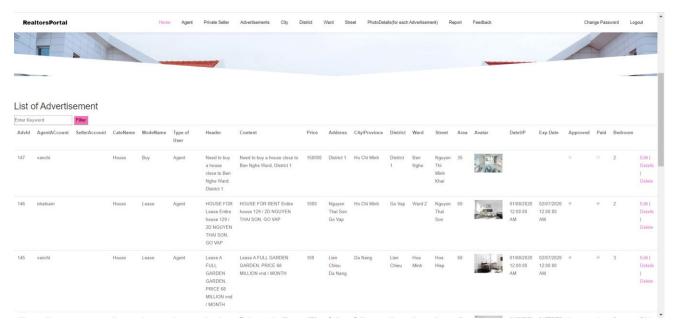
Create new: Choose city by dropdownlist



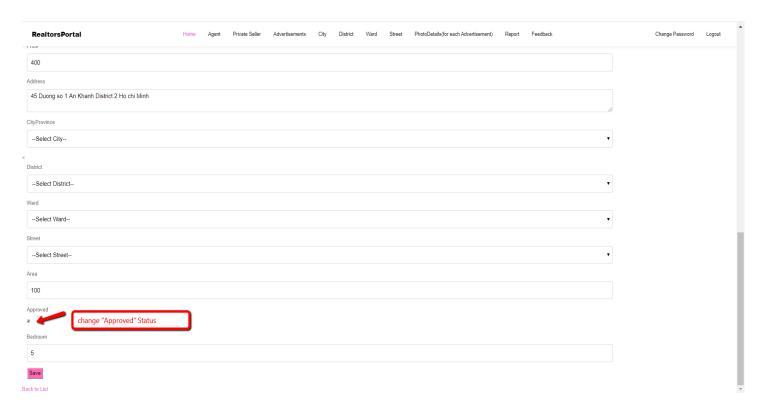
Edit:



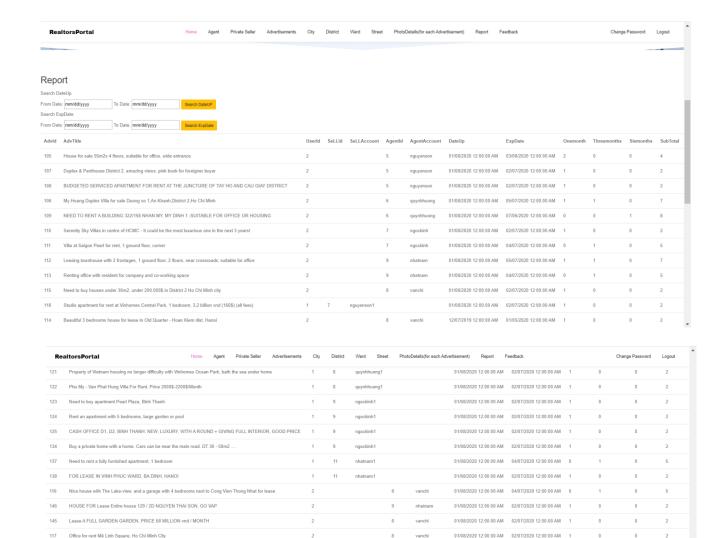
2.9. Advertisment Page: Display,edit,delete and approved advertisement



Edit: edit data and change "Approved" status



2.10. Report Page: Display all of history and total money:





Lease A SERVICE TRADING HOUSE IN PHU NHUAN

Need to buy a private house to live and business

Need to buy a house in Hoan Kiem

Need to buy a private house in Chua Boc. Khuong Thuong, Dong Da

Need to buy a house near the center of District Phu Nhuan, about VND 6 billion

Need to buy a downtown townhouse in District 2, near Saigon Bridge, 6 billion