

Term Project – Task 3

Website Creation and Database Implementation

Huzaifa Ahmed Khan - 60095630

Luis Thomas Avelino Vaz - 60095680

Mikhaelle Uzulyao Samson Pablico – 60094909

CP 2445 - 1

Dr. Chima Adiele

November 24th, 2020

Problem Domain - QREC Website

Qatar Real Estate Company (QREC) is located in the West Bay area of Doha, Qatar. The main business of QREC is to rent, buy, or sell property for clients. QREC perform other duties, such as study property listings, interview prospective clients, accompany clients to property sites, discuss conditions of sale, and draw up real estate contracts. QREC also includes agents who represent buyers.

Individuals who want to sell their houses sign a contract with **QREC** and provide information on their house. This information is kept in a database by **QREC** and this information is made available to all listing services used by other real estate agents in Qatar.

Task 3 –

Design and create a real estate website for QREC consisting of at least three forms that connects to your QREC database in HTML and SQL (use a scripting language on the server side).

- a. Users should be able to search for property using certain attributes
- b. Users should be able to list available property and see when they became available
- c. Users should be able to list properties that were sold and see when they were sold

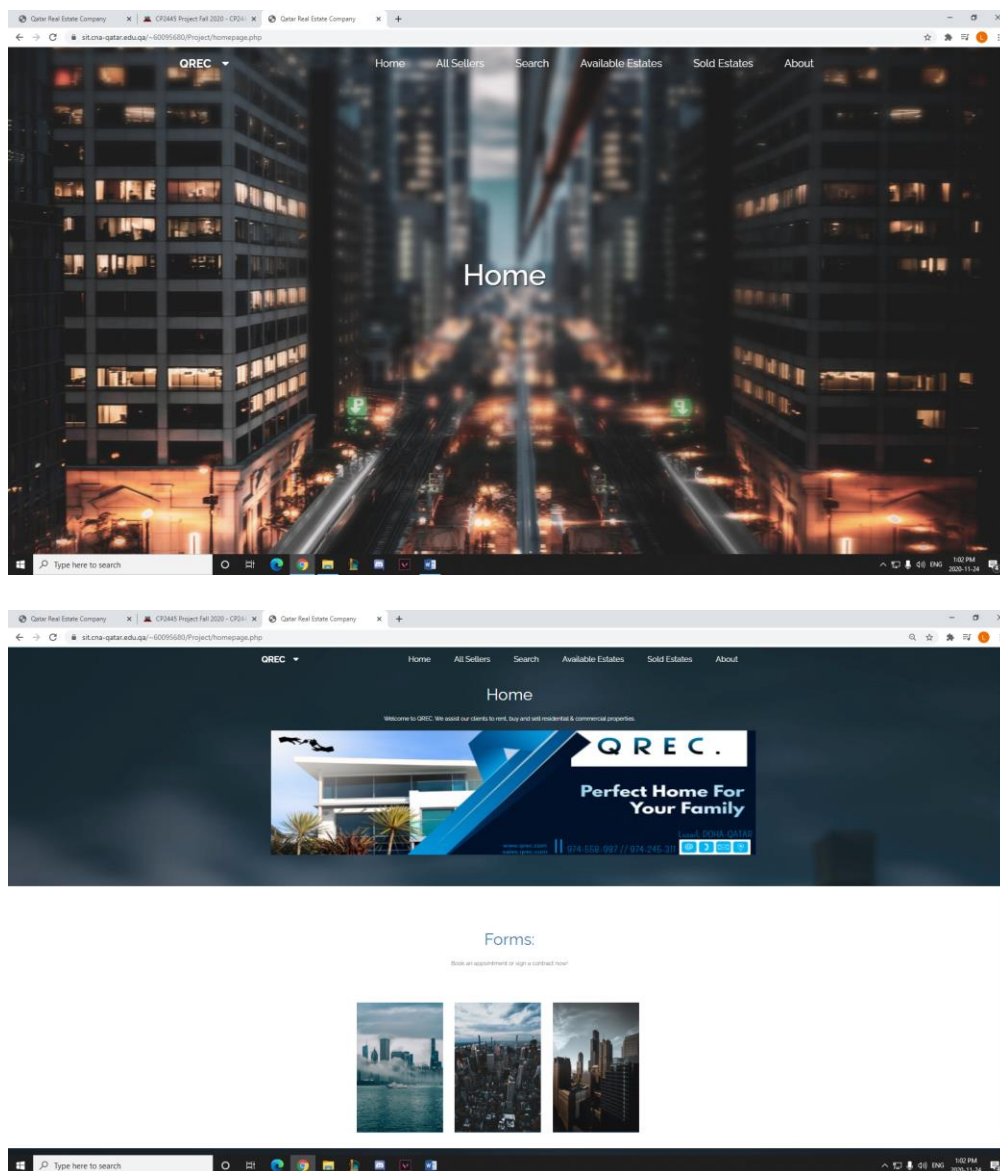
NOTE:

- All data is currently stored in Luis' phpAdmin account (60095680), if necessary let us know and we will implement it in each of our individual accounts.
- Link to sit server: <https://sit.cna-qatar.edu.qa/~60095680> (under project directory)
- Link to main webpage: <https://sit.cna-qatar.edu.qa/~60095680/Project/homepage.php>

Screenshots of each Webpage:

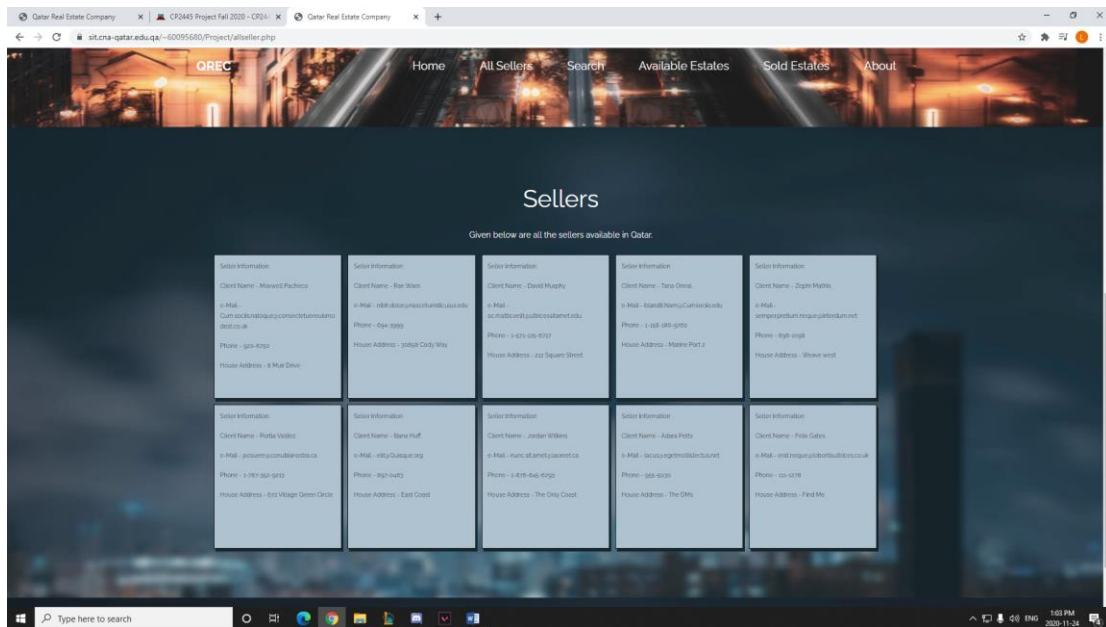
1) Home page (homepage.php)

Description: The Home page is the landing page. It contains links to most of the other pages. This includes the Home Page, Admin Page, Search Page, Available Estates, Sold Estates, About, Buy, Sell and Book Appointment pages. All pages also contain the same navigation bar as displayed on the Home page.



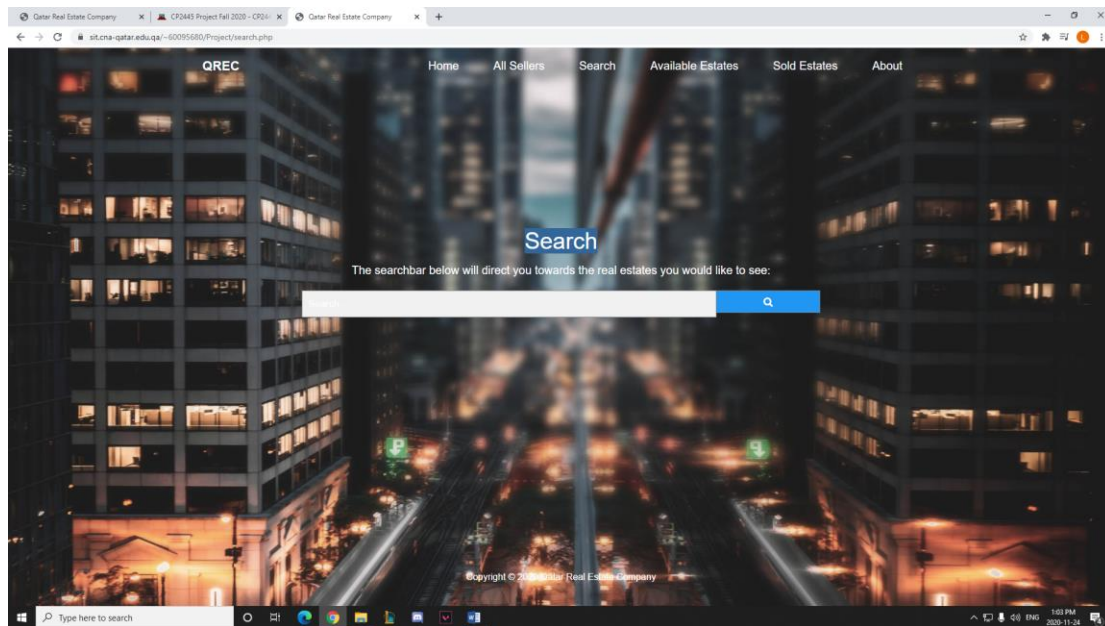
2) All Sellers (allseller.php)

Description: A list of all the sellers selling estates and their contact information.



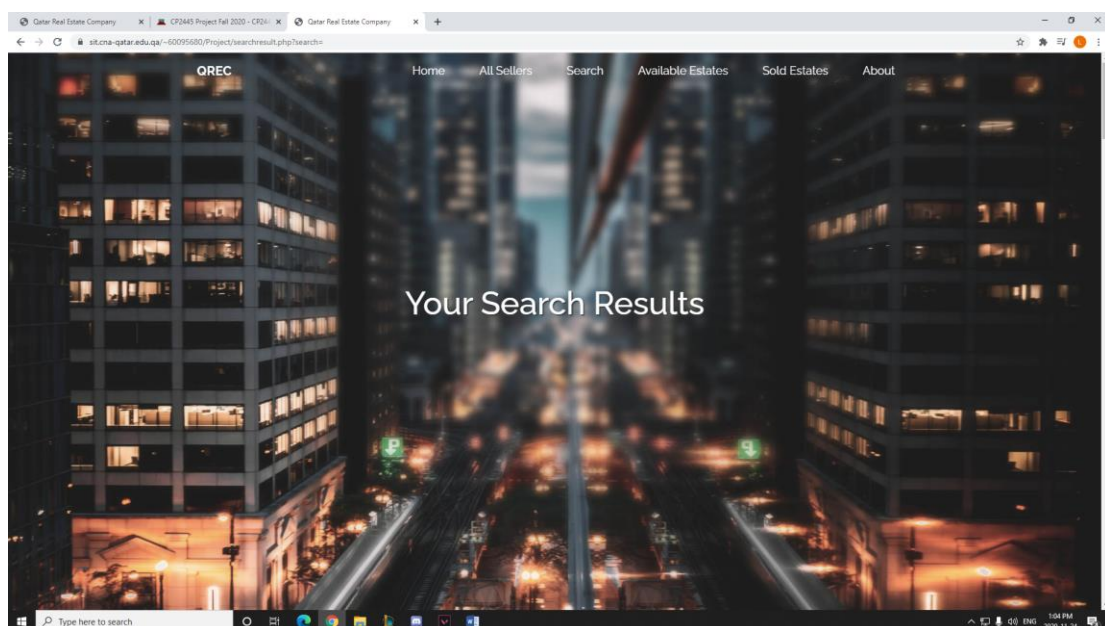
3) Search (search.php)

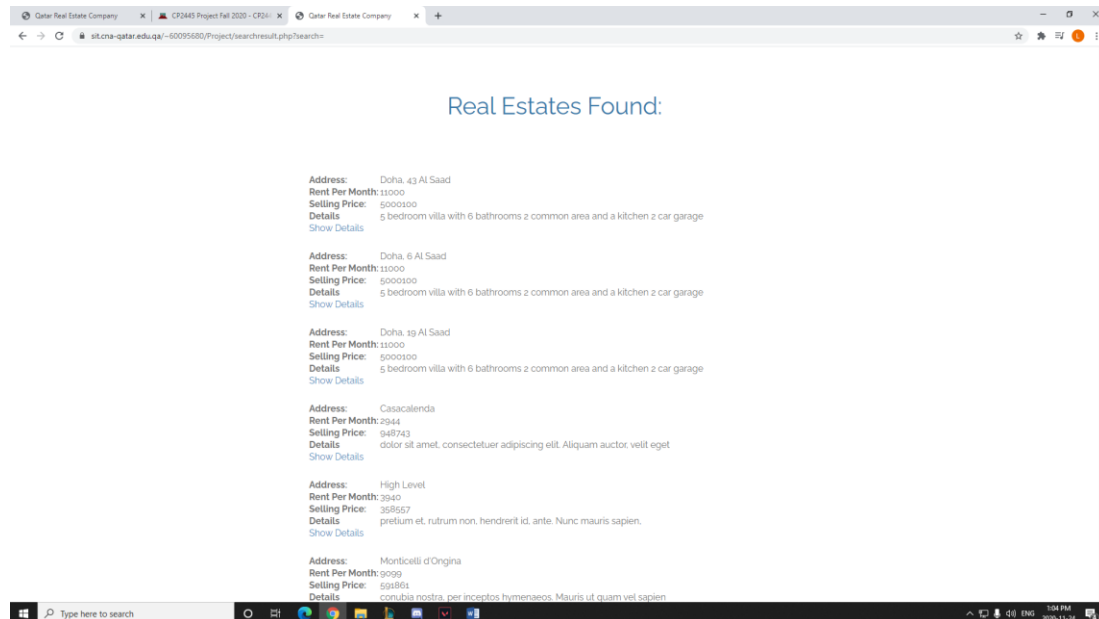
Description: On the Search page the user can search for any data, specifically an address or a detailing keyword and it will either drop down a list of options existing in the database or they can click the search button which will take them to the Search Results page.



4) Search Results (searchresult.php)

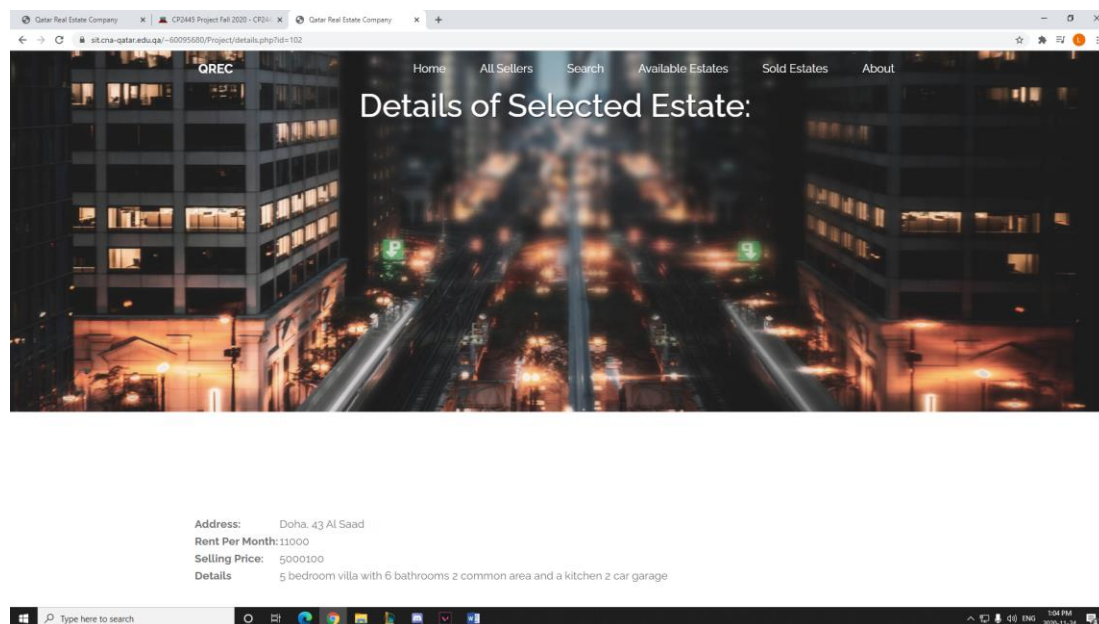
Description: The search results page will display all available data depending on what the user input on the search page. If there is data related to the search, it will display and will include a “Show Details” button which leads to the Details page.





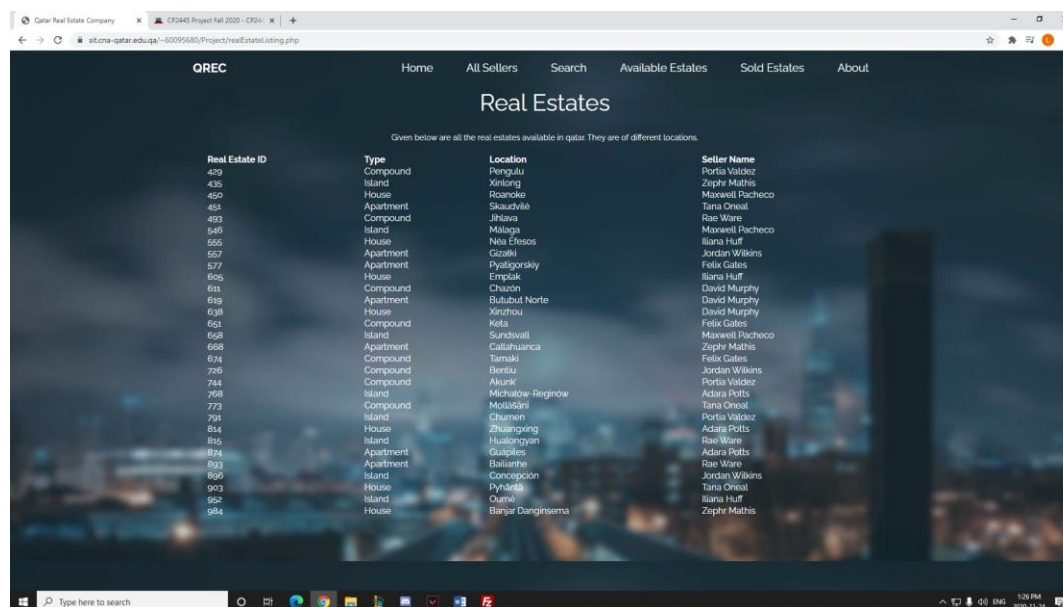
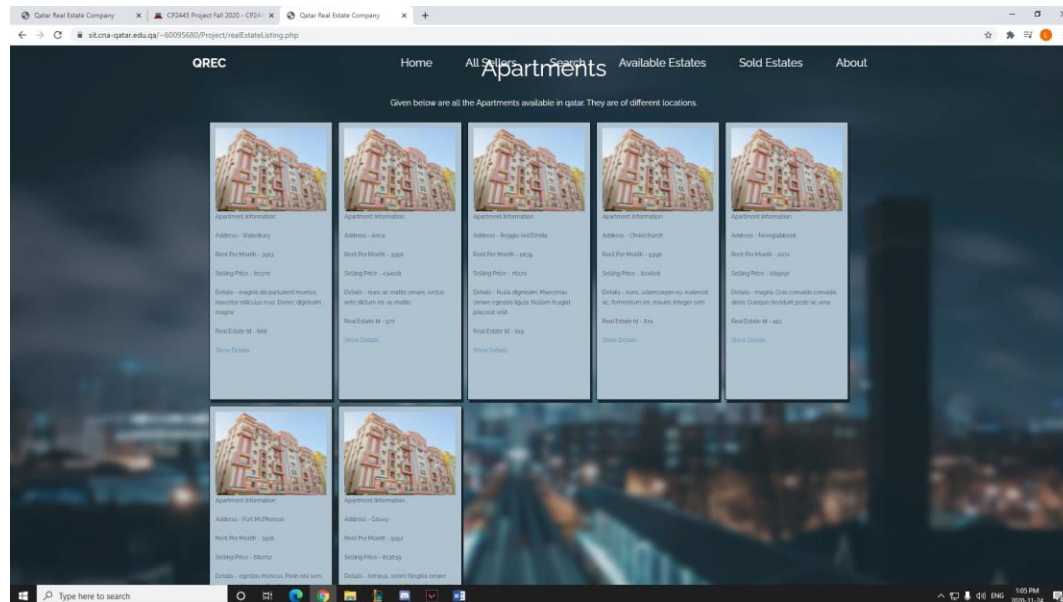
5) Details (details.php)

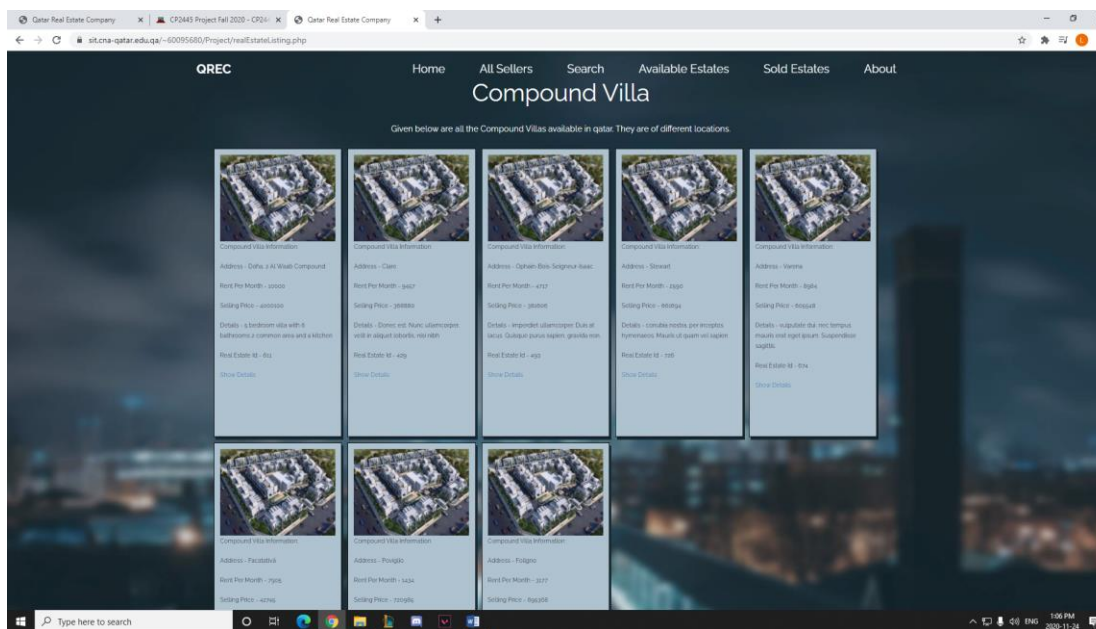
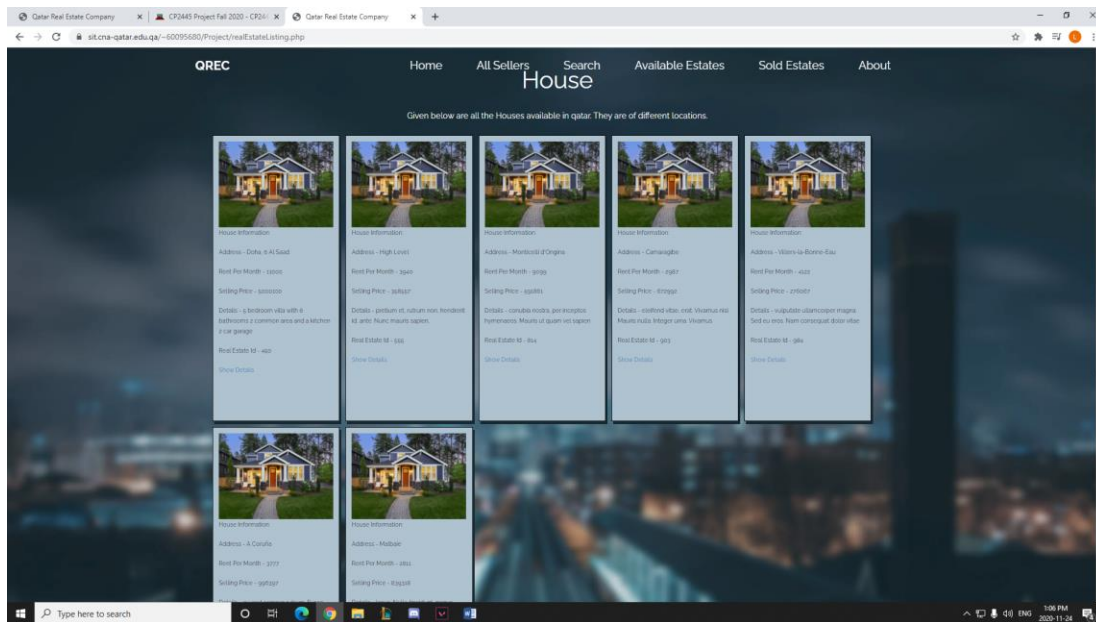
Description: The details page will display the data of one specific item selected in the search results or in the Available Real Estates page.

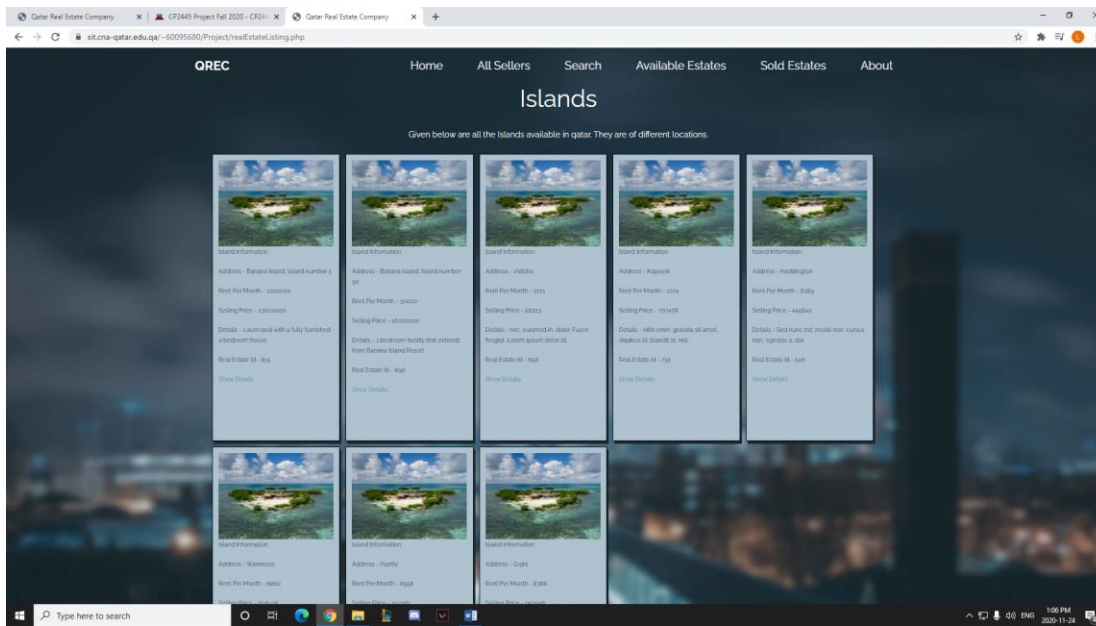


6) Available Estates (realEstateListing.php)

Description: Displays all the available real estates with their respective sellers, as well as all the different types of estates available linked to the details page of the specifically selected estate.

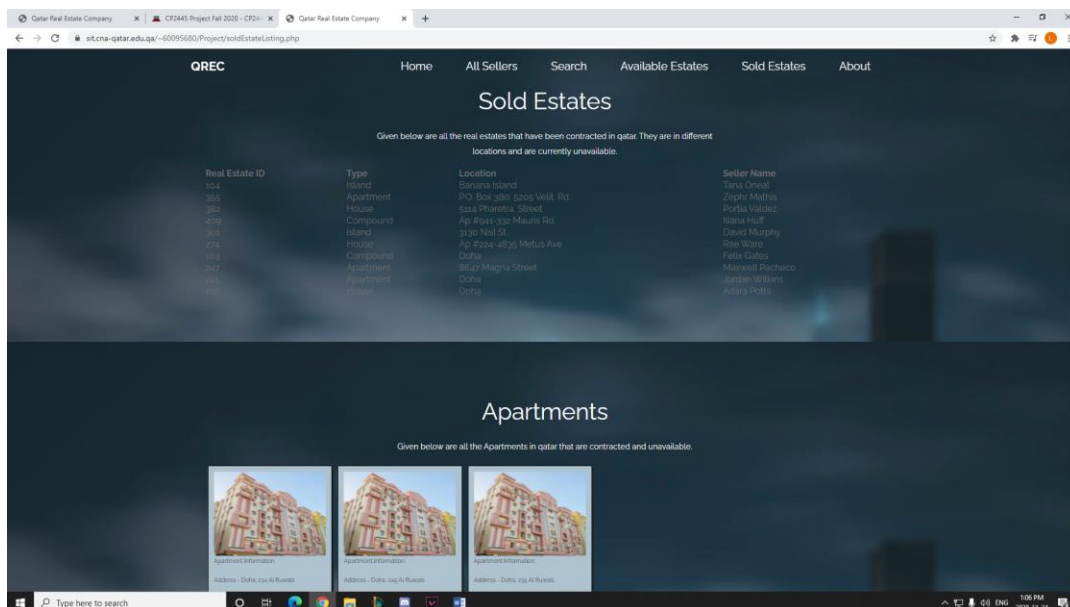


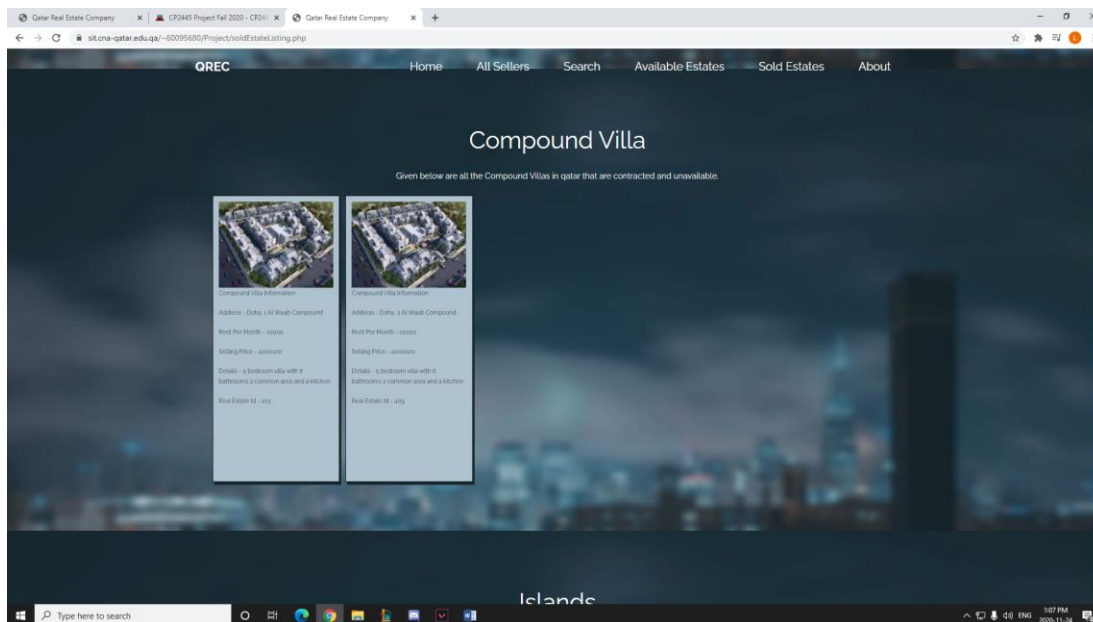
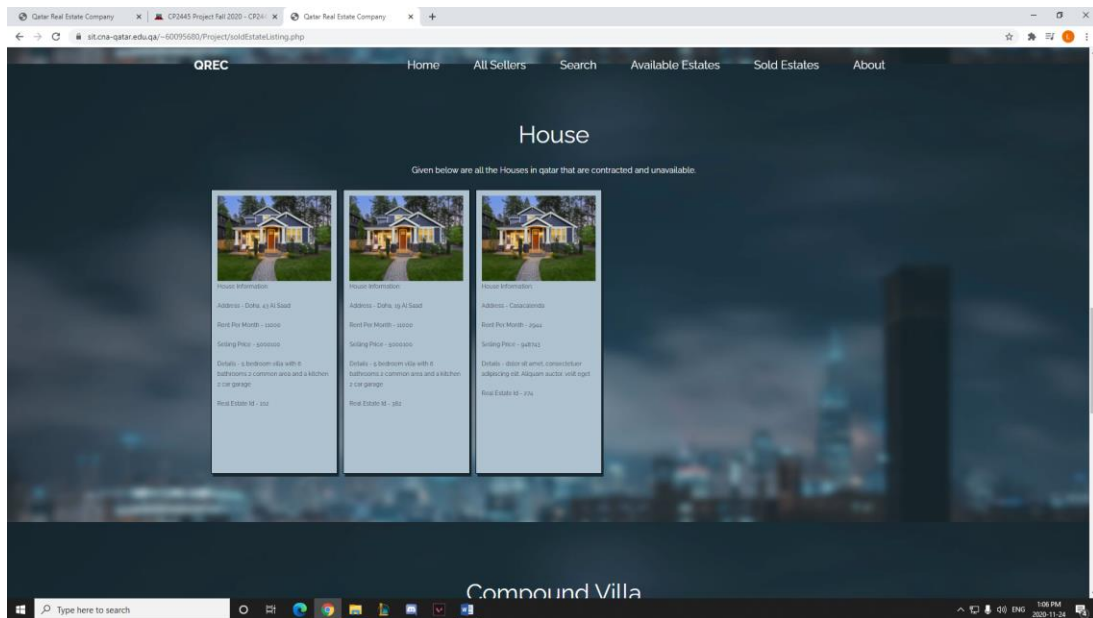


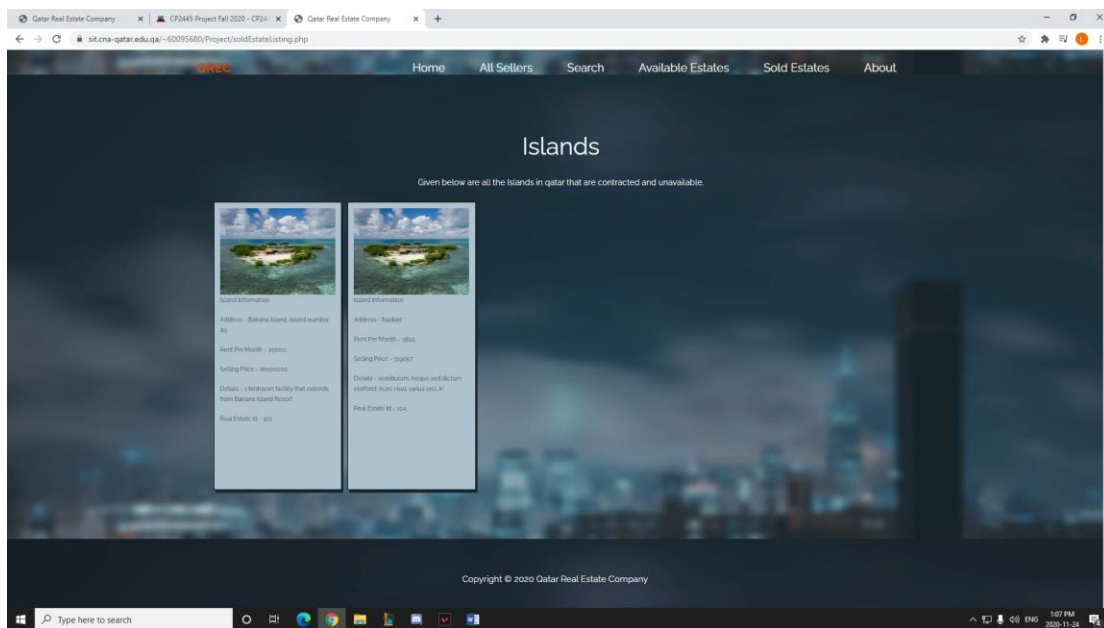


7) Sold Estates (soldEstateListing.php)

Description: Displays all the sold real estates with their respective sellers, as well as all the different types of estates sold.

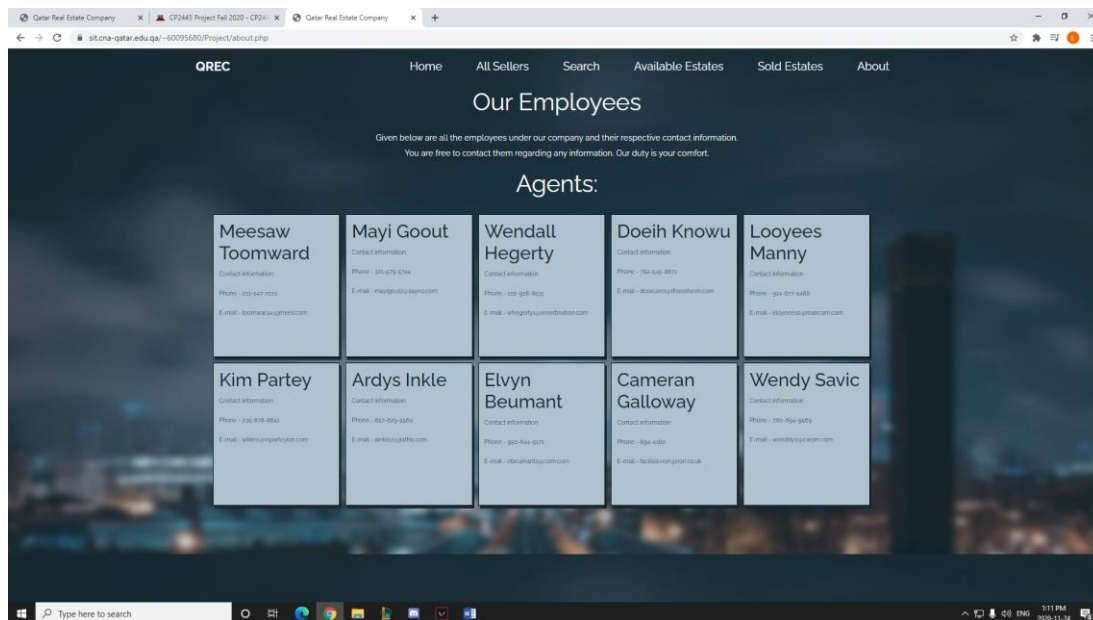


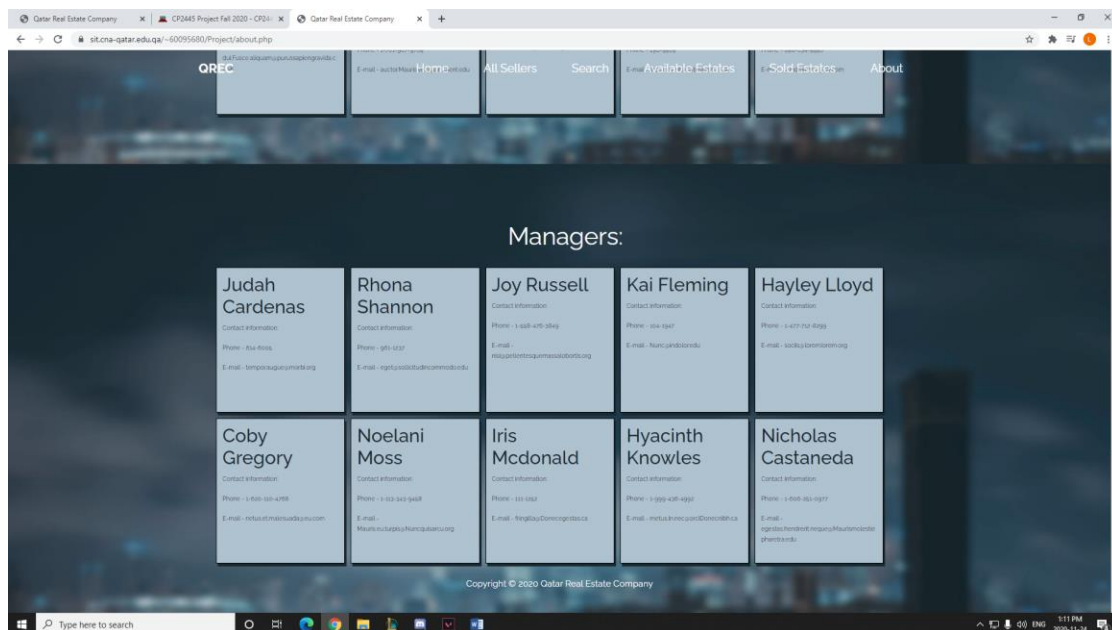
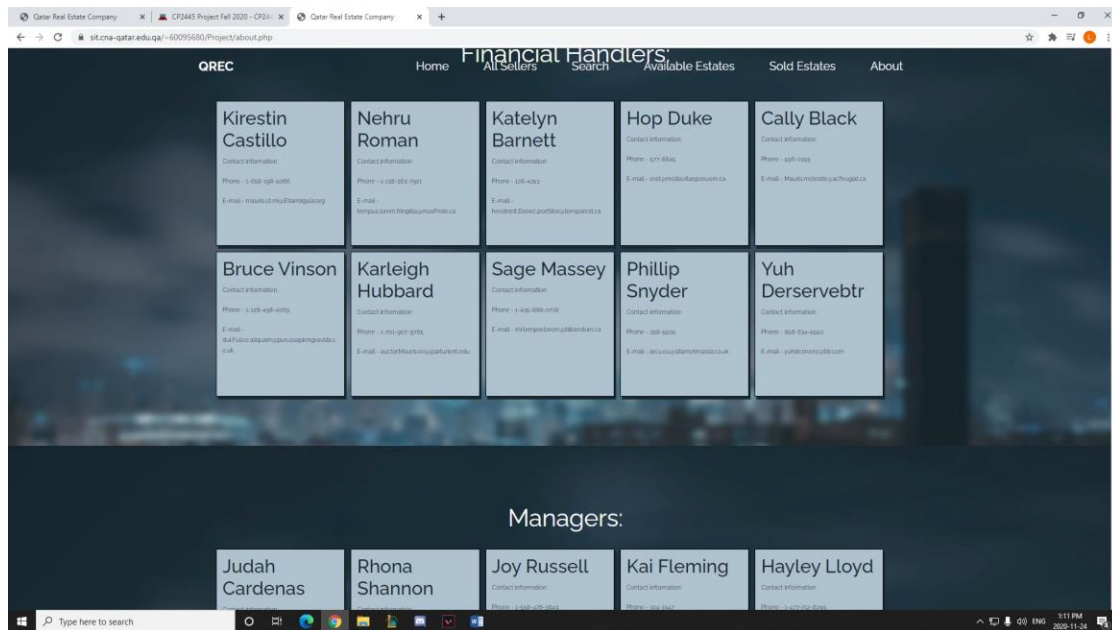




8) About (about.php)

Description: The About page displays all the information of employees at QREC in the case that a user wants to contact them for any information.





9) Appointment Form (bookappointment.php)

Description: The user can enter their details and choose to book an appointment which will then get saved in the database.

- Uses processappointment.php to process inputs to save in the database

The screenshot shows a web browser window with the URL `sit.cna-qatar.edu.qa/~60095680/Project/bookappointment.php`. The page is titled "Appointment Form:" and features a navigation bar with links: Home, All Sellers, Search, Available Estates, Sold Estates, and About Us. The form itself is set against a dark blue background with a blurred image of a person. It includes the following fields and options:

- Choose a Real Estate location: A dropdown menu with "Doha, 43 Al Saad" selected.
- Select a date: A date picker showing "yyyy-mm-dd".
- Select a time: A time picker showing "HH:MM:SS".
- Status: A dropdown menu with "Pending" selected.
- Client Name: A text input field containing "Igor Rivera".
- Choose an Agent: A dropdown menu with "Meesaw Toomward" selected.
- A blue "Submit" button.

On the right side of the form, there are three links: "About Us" (with an envelope icon), "Our Location" (with a location pin icon), and "255-662-5566" (with a phone icon). The footer of the page reads "Copyright © 2020 Qatar Real Estate Company".

The screenshot shows a code editor window with the file `processappointment.php` open. The code is written in PHP and includes the following logic:

```
1 <?php
2 $db = new PDO("mysql:host=localhost;dbname=db60095680", "60095680", "peb9cny7");
3 $db->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
4 $db->setAttribute(PDO::ATTR_EMULATE_PREPARES, false);
5
6 $location = filter_input(INPUT_POST, "loc");
7 $date = filter_input(INPUT_POST, "date");
8 $time = filter_input(INPUT_POST, "time");
9 $status = filter_input(INPUT_POST, "status");
10 $client = filter_input(INPUT_POST, "client");
11 $agent = filter_input(INPUT_POST, "agent");
12
13 $insert = "insert into Appointment (location, date, time, status , client_id, agent_id) values('$location', '$date', '$time', '$status', $client, $agent)";
14 $stmtDB = $db->prepare($insert);
15 $stmtDB->execute();
16
17 header('Location:bookappointment.php')
18 ?>
```


10) Buyer Form (buyercontract.php)

Description: The user can enter their details and choose to negotiate for the contract of a house which will then get saved in the database

- Uses processbuyer.php to process inputs to save in the database

The screenshot shows a web browser window displaying the 'Contract Form' for QREC. The form includes the following fields and options:

- Approval Status:
- Terms of Contract:
- Start date:
- End date:
- Choose a Real Estate:
- Client Name:
- Choose an Agent:
- Choose a Finance Department:
- Choose your Appointment ID:
- Submit button

```

1 <?php
2 $db = new PDO('mysql:host=localhost;dbname=db0095680','db0095680','webkrypt');
3 $db->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
4 $db->setAttribute(PDO::ATTR_EMULATE_PREPARES, false);
5
6 $approval = filter_input(INPUT_POST, 'approval');
7 $terms = filter_input(INPUT_POST, 'terms');
8 $startdate = filter_input(INPUT_POST, 'startdate');
9 $enddate = filter_input(INPUT_POST, 'enddate');
10 $realstate = filter_input(INPUT_POST, 'loc');
11 $client = filter_input(INPUT_POST, 'client');
12 $agent = filter_input(INPUT_POST, 'agent');
13 $finance = filter_input(INPUT_POST, 'finance');
14 $appointment = filter_input(INPUT_POST, 'app');
15
16 $insert = "Insert into Contract (approval_status, terms_of_contract, date_of_production, date_of_expiration, finance_id, re_id, agent_id, client_id, appointment_id) values('".$approval."', '".$terms."', '".$startdate."', '".$enddate."', '".$finance."', '".$realstate."', '".$client."', '".$agent."', '".$appointment."')";
17 $realstate, $agent, $client, $appointment);
18 $sendDB = $db->prepare($insert);
19 $sendDB->execute();
20
21 header('Location:buyercontract.php')
22
23

```

11) Seller Form (sellercontract.php)

Description: The user uploads information of an estate they would like to sell. This creates a new real estate as well as its linked component of type of real estate.

- Uses processseller.php to process inputs and store the values of 2 tables in the database

Sell Your Estate:

Seller Name: Maxwell Pacheco

Type: Apartment

Type (Abbreviated): A

Location:

Address:

Rent Per Month:

Selling Price:

Estate Details:

Submit

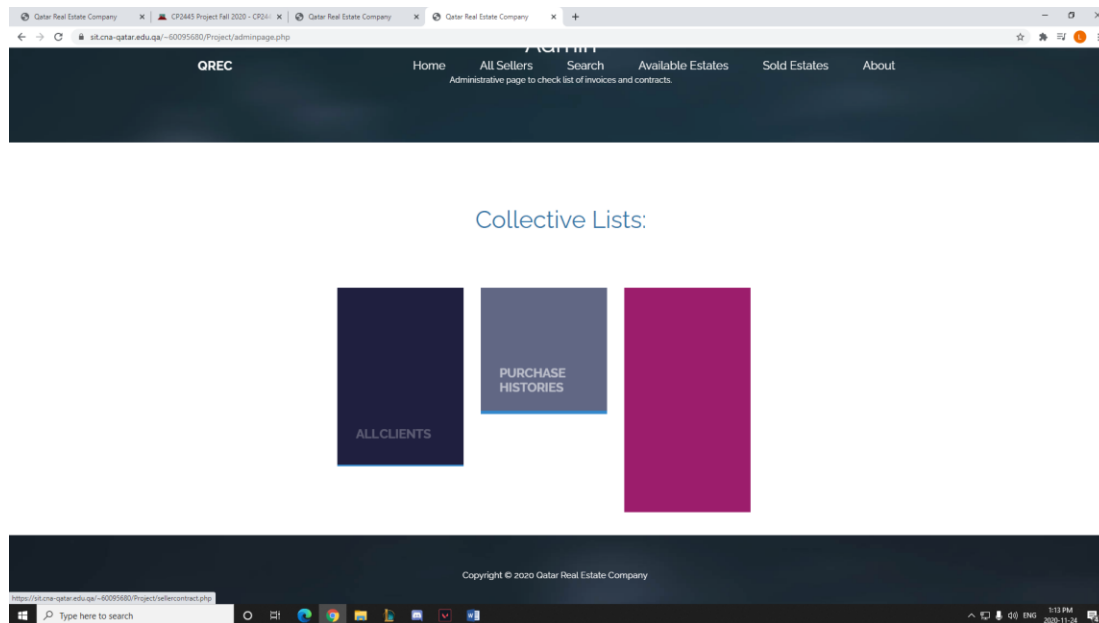
```

1 <?php
2 $db = new PDO("mysql:host=localhost;dbname=cp2445", "root", "password");
3 $db->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
4 $db->setAttribute(PDO::ATTR_EMULATE_PREPARES, false);
5
6 $homeType = filter_input(INPUT_POST, "homeType");
7 $seller = filter_input(INPUT_POST, "seller");
8 $dbType = filter_input(INPUT_POST, "dbType");
9 $seller = filter_input(INPUT_POST, "seller");
10 $address = filter_input(INPUT_POST, "address");
11 $rent = filter_input(INPUT_POST, "rent");
12 $sellingPrice = filter_input(INPUT_POST, "price");
13 $details = filter_input(INPUT_POST, "details");
14
15 $insert = "insert into Real_Estate (type, location, db_id, seller_id) values('$homeType', '$location', '$dbType', '$seller')";
16 $stmt = $db->prepare($insert);
17 $stmt->execute();
18
19 $stmt = $db->prepare("select * from Real_Estate where type='$homeType' and location='$location' and db_id='$dbType' and seller_id='$seller'");
20 $stmt->execute();
21 $estate = $stmt->fetch(PDO::FETCH_OBJ);
22 $re_id = $estate->re_id;
23
24 if($homeType == "Compound"){
25     $insert = "insert into Compound_Villa (address, rent_per_month, selling_price, details, re_id) values('$address', '$rent', '$sellingPrice', '$details', '$re_id')";
26     $stmt = $db->prepare($insert);
27     $stmt->execute();
28 }
29 if($homeType == "Apartment"){
30     $insert = "insert into Apartment (address, rent_per_month, selling_price, details, re_id) values('$address', '$rent', '$sellingPrice', '$details', '$re_id')";
31     $stmt = $db->prepare($insert);
32     $stmt->execute();
33 }
34 if($homeType == "Island"){
35     $insert = "insert into Island (address, rent_per_month, selling_price, details, re_id) values('$address', '$rent', '$sellingPrice', '$details', '$re_id')";
36     $stmt = $db->prepare($insert);
37     $stmt->execute();
38 }
39 if($homeType == "House"){
40     $insert = "insert into House (address, rent_per_month, selling_price, details, re_id) values('$address', '$rent', '$sellingPrice', '$details', '$re_id')";
41     $stmt = $db->prepare($insert);
42     $stmt->execute();
43 }
44
45 header("location:sellercontract.php")
46 }

```

12) Admin page (adminpage.php)

Description: The Admin page is only available on the homepage beside the company name. It is supposed to be only for the use of employees. It displays links to all existing pages as well as the links to the list of Contracts, Buyer Purchases and All Available Clients.



13) Contracts (contract.php)

Description: The Contracts page displays a table with all the contracts created by users which need to get approved or denied.

The screenshot shows the OREC website with the 'About This Page' section. Below the text, there is a table of transactions with the following columns: Contract ID, Handler, Client Name, Approval Status, Terms of Contract, Date of Production, Date of Expiration, Finance ID, and Real Estate ID.

Contract ID	Handler	Client Name	Approval Status	Terms of Contract	Date of Production	Date of Expiration	Finance ID	Real Estate ID
234	Ardys Inkle	Lewis Castaneda	eu enim	Nulla facilisi. Sed neque. Sed eget lacus. Mauris non dui nec urna suscipi nonummy. Fusce fermentum fermentum arcu. Vestibulum ante ipsum primis in faucibus orci	2020-05-22	2022-02-09	1	104
257	Doeth Knowu	Zena Gregory	egest, dictum	enim, condimentum eget, volutpat ornare, facilis eget, ipsum. Donec sollicitudin adipiscing ligula. Aenean gravida nunc sed pede. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Proin vel arcu eu odio tristique pharetra. Quisque ac libero nec	2020-11-15	2022-10-25	2	355
280	Elwyn Beumant	Ezra Beach	Nulla eu	fames ac turpis egestas. Fusce aliquet magna a neque. Nullam ut nisi a odio semper cursus. Integer mollis. Integer tincidunt aliquam arcu. Aliquam ultrices iaculis odio. Nam interdum enim non nisi. Aenean eget metus. In nec	2021-09-30	2022-02-22	3	382
303	Wendall Hegerty	Galena Fitzpatrick	nec, malesuada	egest lacus. Mauris non dui nec urna suscipi nonummy. Fusce fermentum fermentum arcu. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices	2021-08-10	2021-11-12	4	409
326	Mayl Gooat	Futler Rice	Proin ultrices	non, hendrerit id, ante. Nunc mauris sapien, cursus in, hendrerit consectetur, cursus et, magna. Praesent interdum ligula eu enim. Etiam imperdiet	2021-08-09	2023-08-08	5	301
349	Wendy Savic	Lydia Mccray	id nunc	Integer aliquam adipiscing lacus. Ut nec urna et arcu imperdiet ullamcorper. Duis at lacus. Quisque purus sapien gravida non, sollicitudin a, malesuada id, erat. Etiam vestibulum massa rutrum magna. Cras	2021-09-10	2024-03-21	6	274
372	Cameron Galloway	Igor Rivera	sit amet	porttitor interdum. Sed auctor odio a purus. Duis elementum, dui quis accumsan convallis, ante lectus convallis est, vitae dodeces nisi magna sed dui. Fusce aliquam, enim nec tempus scelerisque, lorem ipsum sodales	2020-12-23	2023-01-31	7	403
395	Kim Parley	Malachi Cherry	accumsan neque	luctus lobortis. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Mauris ut quam vel sapien imperdiet ornare. In faucibus. Morbi vehicula. Pellentesque tincidunt	2020-12-09	2022-05-03	8	247
418	Looyes Manny	Jenette Martin	risus. Donec	a, scelerisque sed, sapien. Nunc pulvinar arcu et pede. Nunc sed orci lobortis augue scelerisque mollis. Phasellus libero mauris, aliquam eu, accumsan sed,	2020-06-23	2021-12-19	9	101
441	Meeszar Toomward	Asher Todd	nec, cursus		2020-11-06	2022-08-09	10	102

14) Purchases (buyerPage.php)

Description: This page stores all the information of processed data regarding the purchase of an estate.

The screenshot shows the OREC website with the 'About This Page' section. Below the text, there is a table of purchases with the following columns: Client Full Name, Purchase Description, Amount, Amount in Words, Date of Transaction, and Payment Method.

Client Full Name	Purchase Description	Amount	Amount in Words	Date of Transaction	Payment Method
Lydia Mccray	3 Bedrooms and 2 bathroom villa with a space of one car park	122221	one hundred twenty-two thousand two hundred twenty-one	2019-12-26	PayPal
Malachi Cherry	7 Bedrooms for trump supporters with free water and electricity	95095	ninety-six thousand ninety-five	2014-01-11	Cash
Futler Rice	7 Rooms but only 5 can be used because Biden said so	347743	three hundred forty-seven thousand seven hundred forty-three	2019-12-16	Cash
Zena Gregory	One room in a sneaky ally way where trump once lived	486989	four hundred eighty-six thousand nine hundred eighty-nine	2020-07-05	CC
Asher Todd	Obama has declared his house for sale	23848	twenty-three thousand six hundred forty-eight	2020-06-21	CC
Lewis Castaneda	One room in a sneaky ally way where trump once lived	486989	four hundred eighty-six thousand nine hundred eighty-nine	2020-07-25	PayPal
Galena Fitzpatrick	3 Bedrooms apartment with 2 door entrance and one chandelier light on entrance	78893	seventy-eight thousand eight hundred ninety-three	2019-12-26	Cash
Igor Rivera	Two rooms that Biden has now taken over right after trump	65497	sixty-five thousand four hundred ninety-seven	2018-09-23	PayPal
Jenette Martin	10 Bedrooms mansion with 2 door entrance and 7 chandeliers light	50717	fifty thousand seven hundred seventeen	2019-06-10	Cash
Ezra Beach	7 Bedrooms mansion with a 4 car garage	344743	three hundred forty-four thousand seven hundred forty-three	2019-12-16	CC

15) All Clients (allclient.php)

Description: All Clients page displays a list of all the available clients and their information.

