

# Database Final Project

## House Search System

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# 1 Introduction

This website designed by Teng Zhao, Xiyang Song, and Yu Feng. Basically, our website is using for searching houses, and we followed all of the instructions that professor gave us. The following website link is the whole website document

<http://okaram.spsu.edu/~tzhao/DataBaseFinal/phpTestForDB-Real/>

## 2 Extra features

This website we designed has an extra feature in search function. It can provide a search by using both the zip code and the style of the house. That is the main point to get 100. However, in our system, we do further than the final project requirement. You can use any requirements to search the house. For example, in the requirement of final project, provide a search by using both the zip code and the style of the house could get 100, now we provide a search by using one to any to search a house.

We search by using Bedroom Number

### Main Page

MLS: <input type="text"/>	Street Address: <input type="text"/>	Zip: <input type="text"/>
House Type: Any <input type="text"/>	City: <input type="text"/>	State: <input type="text"/>
Story Number: Any <input type="text"/>	Bedroom Number: 2 <input type="text"/>	Bathroom Number: Any <input type="text"/>
Year: <input type="text"/>	<input type="button" value="search"/>	



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### Search Result

MLS	Add Date	House Type	Num of Story	Num of Bedroom	Num of Bathroom	Street Address	Price
333	1990-12-07	single family house	3	2	1	1805 Roswell RD, Marietta, 30062, GA	3000.00
444	1900-10-07	town house	4	2	2	1877 Dongjiaominxiang Street, Beijing, 10006, CHN	4000.00

[Back to Previous Page](#)

We search by using Story Number and Bedroom Number

## Main Page

[Manage Agent](#) [logout](#) [register](#)

MLS: <input type="text"/>	Street Address: <input type="text"/>	Zip: <input type="text"/>
House Type: Any <input type="text"/>	City: <input type="text"/>	State: <input type="text"/>
Story Number: 1 <input type="text"/>	Bedroom Number: 1 <input type="text"/>	Bathroom Number: Any <input type="text"/>
Year: <input type="text"/>	<input type="button" value="search"/>	



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## Search Result

MLS	Add Date	House Type	Num of Story	Num of Bedroom	Num of Bathroom	Street Address	Price
111	2011-12-07	single family house	1	1	1	1100 S Marietta Pkwy SE, Marietta, 30060, GA	1000.00

[Back to Previous Page](#)

We search by using MLS, Street Address, Zip Code, House Type, City, State, Story Number, Bedroom Number, Bathroom Number and Built Year.

## Main Page

[Manage Agent](#) [logout](#) [register](#)

MLS: 111 <input type="text"/>	Street Address: 00 S Marietta Pkwy SE Zip: <input type="text"/>	
House Type: Single Family House <input type="text"/>	30060 <input type="text"/>	
City: Marietta <input type="text"/>	State: GA <input type="text"/>	
Story Number: 1 <input type="text"/>	Bedroom Number: 1 <input type="text"/>	Bathroom Number: 1 <input type="text"/>
Year: 2011 <input type="text"/>	<input type="button" value="search"/>	



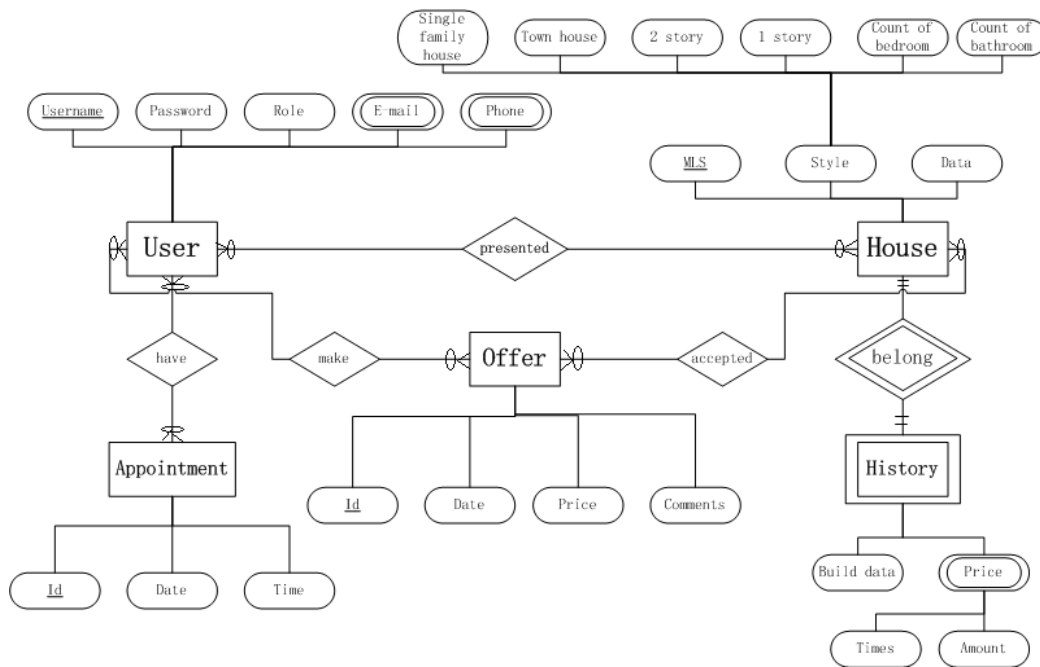
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## Search Result

MLS	Add Date	House Type	Num of Story	Num of Bedroom	Num of Bathroom	Street Address	Price
111	2011-12-07	single family house	1	1	1	1100 S Marietta Pkwy SE, Marietta, 30060, GA	1000.00

[Back to Previous Page](#)

### 3 ER Diagram

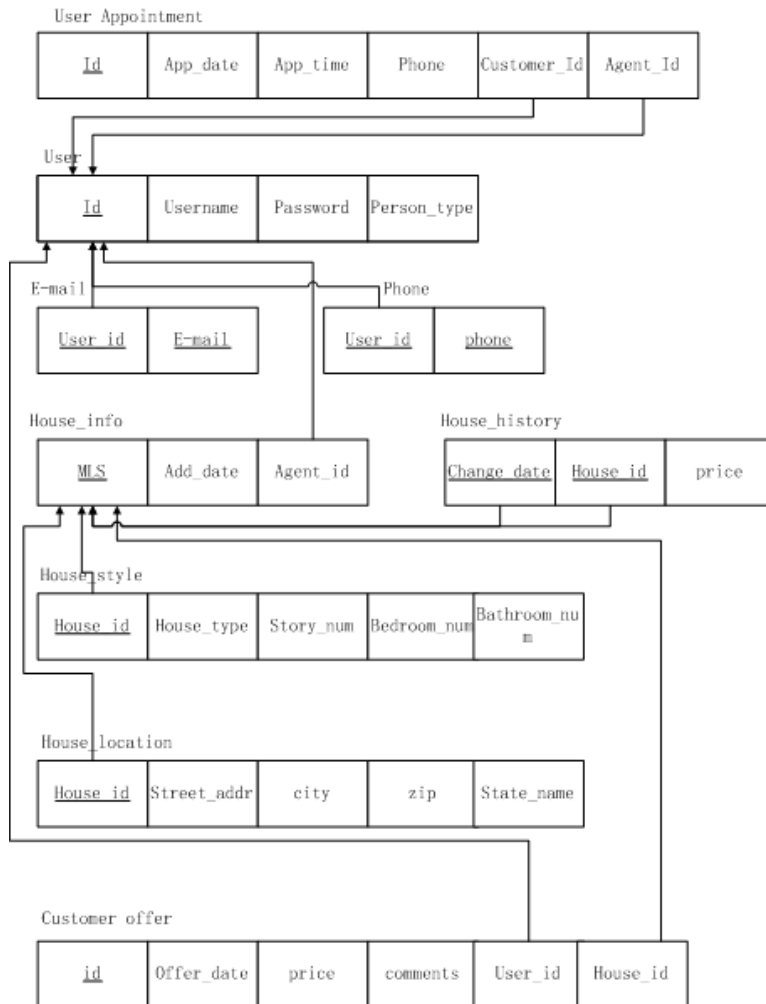


- **Users:** Users can join the site as a home buyer or a real estate agent, and for each user, you should have username, password, e-mail address, user role (buyer or agent), and optionally a phone number as it attributes.
- **House for sale:** Houses that are available for sale on the markets are added by agents. For each house that is added to the Web site, we keep track of its MLS (Multiple Listing Service, used as ID for house), the date this house is added to the Web site, its location (including county, city and zip code). We also keep track of the style of the house, such as single family house or townhouse, 2-story or 1-story, number of bedrooms and number of bathrooms. Also notice that any house in the system has to be presented by exactly one agent. This agent will be responsible for showing the house to a buyer and handling other related issues. When a house is added to the system, its “owner” agent should be specified.
- **History:** each house that is added to the Web site must has a history. History information includes when the house was built, the price of its first sale (if the house has been owned by multiple owners, all the previous sale prices should be kept as part of its history). If the house is brand new and has never been owned yet, its history will include only the year on which the house was built (hint: history can be modeled as a weak entity that belongs to the house entity).
- **Appointment:** a buyer can schedule an appointment by using this Web site so he can meet the agent to see a particular house, and obviously, the agent should be the one that represents the house. The appointment should have an appointment ID (used as it identifier), a date and a time. If the buyer has not provided a phone number when he registered in the system, he will now be

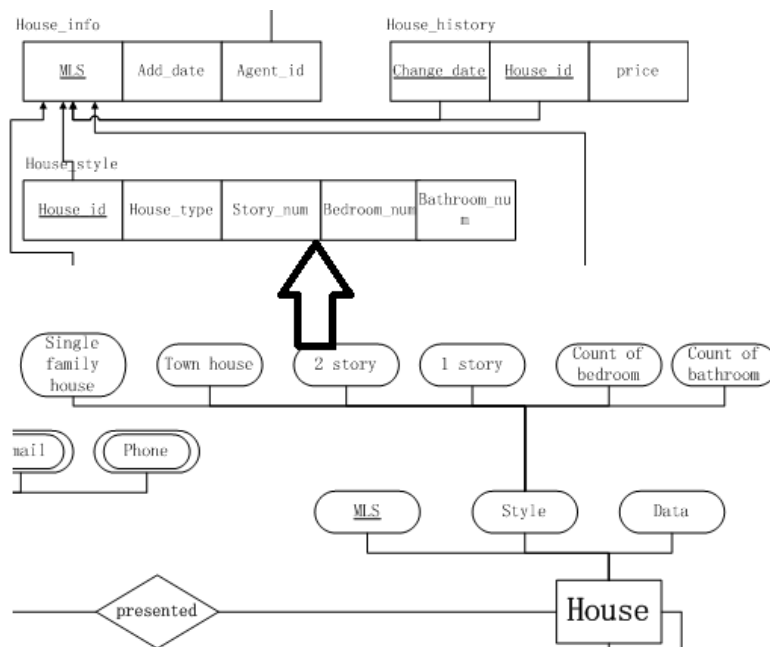
required to provide a phone number.

- **Offer:** a buyer can make an offer to a house. An offer will have an offer ID as its identifier, it should also include the date this offer is made, the price being offered, and any condition the buyer may add.

## 4 Database Table



## 5 Table Normalization



In the ER diagram the house style is the attribute of House entity so it should in the house info table, but we separate it into two tables.

## 6 SQL Code to create Table

```

/* CREATE DATABASE STATEMENTS */
CREATE DATABASE db_RESPSU;
/* CREATE TABLE STATEMENTS */
/* User */
CREATE TABLE User_Info (
id SERIAL PRIMARY KEY,
username VARCHAR(255) NOT NULL UNIQUE,
password VARCHAR(255) NOT NULL,
person_type VARCHAR(20) NOT NULL
);
/* User Email */
CREATE TABLE User_Email (
email VARCHAR(255),
user_id INTEGER NOT NULL REFERENCES User_Info(id) ON DELETE CASCADE,
PRIMARY KEY (email, user_id)
);
/* User Phone */
CREATE TABLE User_Phone (
phone VARCHAR(15),
user_id INTEGER NOT NULL REFERENCES User_Info(id) ON DELETE CASCADE,

```

```

PRIMARY KEY (phone, user_id)
);
/* House */
CREATE TABLE House_Info (
MLS VARCHAR(255) NOT NULL PRIMARY KEY,
add_date DATE NOT NULL,
agent_id INTEGER NOT NULL REFERENCES User_Info(id) ON DELETE CASCADE
);
CREATE TABLE House_Style (
house_type VARCHAR(255),
story_num INTEGER,
bedroom_num INTEGER,
bathroom_num INTEGER,
house_id VARCHAR(255) NOT NULL REFERENCES House_Info(MLS) ON DELETE
CASCADE,
PRIMARY KEY (house_id)
);
/* House Location */
CREATE TABLE House_Location (
street_addr VARCHAR(255),
city VARCHAR(255),
zip VARCHAR(5),
state_name VARCHAR(15),
house_id VARCHAR(255) NOT NULL REFERENCES House_Info(MLS) ON DELETE
CASCADE,
PRIMARY KEY (house_id)
);
/* Customer Offer */
CREATE TABLE User_Offer (
id SERIAL PRIMARY KEY,
offer_date DATE,
price NUMERIC(20,2),
comments VARCHAR(255),
user_id INTEGER NOT NULL REFERENCES User_Info(id) ON DELETE CASCADE,
house_id VARCHAR(255) NOT NULL REFERENCES House_Info(MLS) ON DELETE
CASCADE
);
/* House History */
CREATE TABLE House_History (
change_date DATE,
price NUMERIC(20,2),
house_id VARCHAR(255) NOT NULL REFERENCES House_Info(MLS) ON DELETE
CASCADE,
PRIMARY KEY (house_id, change_date)
);

```

```

/* User Appointment */
CREATE TABLE User_Appointment (
id SERIAL PRIMARY KEY,
appoint_date DATE,
appoint_time VARCHAR(10),
phone VARCHAR(15),
customer_id INTEGER NOT NULL REFERENCES User_Info(id) ON DELETE CASCADE,
agent_id INTEGER NOT NULL REFERENCES User_Info(id) ON DELETE CASCADE
);
/* Data Statements */
INSERT INTO User_Info (username, password, person_type) VALUES('admin', 'admin',
'admin');

```

## 7 Table Dumps:

### Initial user data

```

tzhao=> INSERT INTO User_Info(username,password,person_type) VALUES('admin','adm
in','admin');
INSERT 0 1
tzhao=> INSERT INTO User_Info(username,password,person_type) VALUES('zhaoteng',
'1234','agent');
INSERT 0 1
tzhao=> INSERT INTO User_Info(username,password,person_type) VALUES('zhaoteng',
tzhao(> '1234','agent');
ERROR: duplicate key value violates unique constraint "user_info_username_key"
tzhao=> INSERT INTO User_Info(username,password,person_type) VALUES('zhaoteng',
tzhao(> '1234','agent');
ERROR: duplicate key value violates unique constraint "user_info_username_key"
tzhao=> INSERT INTO User_Info(username,password,person_type) VALUES('fengyu','2
345','user');
INSERT 0 1
tzhao=> INSERT INTO User_Info(username,password,person_type) VALUES('songxiyang
','3456','agent');
INSERT 0 1
tzhao=> INSERT INTO User_Info(username,password,person_type) VALUES('John','444
4','user');
INSERT 0 1

tzhao=> SELECT * FROM User_Info;
 id | username | password | person_type
-----+-----+-----+-----
  1 | admin    | admin    | admin
  2 | zhaoteng | 1234     | agent
  3 | fengyu   | 2345     | user
  4 | songxiyang | 3456     | agent
  5 | John     | 4444     | user
(5 rows)

```



```

tzhao=> INSERT INTO User_Email(email,user_id) VALUES('admin@spsu.edu',1);
INSERT 0 1
tzhao=> INSERT INTO User_Email(email,user_id) VALUES('tzhao@spsu.edu',2);
INSERT 0 1
tzhao=> INSERT INTO User_Email(email,user_id) VALUES('yfeng3@spsu.edu',3);
INSERT 0 1
tzhao=> INSERT INTO User_Email(email,user_id) VALUES('xsong2@spsu.edu',4);
INSERT 0 1
tzhao=> INSERT INTO User_Email(email,user_id) VALUES('john@spsu.edu',5);
INSERT 0 1
tzhao=> █

```

```

tzhao=> SELECT * FROM User_Email;
      email      | user_id
-----+-----
 admin@spsu.edu |      1
 tzhao@spsu.edu |      2
 yfeng3@spsu.edu |      3
 xsong2@spsu.edu |      4
 john@spsu.edu   |      5
(5 rows)

```

```

tzhao=> INSERT INTO User_Phone(phone,user_id) VALUES('1404235admin',1);
INSERT 0 1
tzhao=> INSERT INTO User_Phone(phone,user_id) VALUES('1404235tzhao',2);
INSERT 0 1
tzhao=> INSERT INTO User_Phone(phone,user_id) VALUES('1404235yfeng',3);
INSERT 0 1
tzhao=> INSERT INTO User_Phone(phone,user_id) VALUES('1404235xsong',4);
INSERT 0 1
tzhao=> INSERT INTO User_Phone(phone,user_id) VALUES('1404235john',5);
INSERT 0 1
tzhao=> █

```

```

tzhao=> SELECT * FROM User_Phone;
      phone      | user_id
-----+-----
 1404235admin   |      1
 1404235tzhao  |      2
 1404235yfeng   |      3
 1404235xsong   |      4
 1404235john    |      5
(5 rows)

```

## Initial house data

```

tzhao=> INSERT INTO House_Info(mls,add_date,agent_id) VALUES('111','7 DEC 2011',
2);
INSERT 0 1
tzhao=> INSERT INTO House_Info(mls,add_date,agent_id) VALUES('222','2 NOV 2000'
,2);
INSERT 0 1
tzhao=> INSERT INTO House_Info(mls,add_date,agent_id) VALUES('333','7 DEC 1990'
,4);
INSERT 0 1
tzhao=> INSERT INTO House_Info(mls,add_date,agent_id) VALUES('444','7 OCT 1990'
,4);
INSERT 0 1
tzhao=> █

```

```

tzhao=> SELECT * FROM House_Info;
 mls | add_date | agent_id
-----+-----+-----
 111 | 2011-12-07 |      2
 222 | 2000-11-02 |      2
 333 | 1990-12-07 |      4
 444 | 1900-10-07 |      4
(4 rows)

```

```

tzhao=> INSERT INTO House_Style(house_type,story_num,bedroom_num,bathroom_num,house_id) VALUES('single family house',1,1,1,'111');
INSERT 0 1
tzhao=> INSERT INTO House_Style(house_type,story_num,bedroom_num,bathroom_num,house_id) VALUES('single family house',2,1,1,'222');
INSERT 0 1
tzhao=> INSERT INTO House_Style(house_type,story_num,bedroom_num,bathroom_num,house_id) VALUES('single family house',3,2,1,'333');
INSERT 0 1
tzhao=> INSERT INTO House_Style(house_type,story_num,bedroom_num,bathroom_num,house_id) VALUES('town house',4,2,2,'444');
INSERT 0 1

```

house_type	story_num	bedroom_num	bathroom_num	house_id
single family house	1	1	1	111
single family house	2	1	1	222
single family house	3	2	1	333
town house	4	2	2	444

(4 rows)

```

tzhao=> INSERT INTO House_Location(street_addr,city,zip,state_name,house_id)
tzhao-> VALUES('1100 S Marietta Pkwy SE','Marietta','30060','GA','111');
INSERT 0 1
tzhao=> INSERT INTO House_Location(street_addr,city,zip,state_name,house_id)
VALUES('2401 Windy Hill RD','Marietta','30067','GA','222');
INSERT 0 1
tzhao=> INSERT INTO House_Location(street_addr,city,zip,state_name,house_id)
VALUES('1805 Roswell RD','Marietta','30062','GA','333');
INSERT 0 1
tzhao=> INSERT INTO House_Location(street_addr,city,zip,state_name,house_id)
VALUES('1877 Dongjiaominxiang Street','Beijing','10006','CHN','444');
INSERT 0 1
tzhao=> █

```

street_addr	city	zip	state_name	house_id
1100 S Marietta Pkwy SE	Marietta	30060	GA	111
2401 Windy Hill RD	Marietta	30067	GA	222
1805 Roswell RD	Marietta	30062	GA	333
1877 Dongjiaominxiang Street	Beijing	10006	CHN	444

(4 rows)

## Initial offer data

```
tzhao=> INSERT INTO User_Offer(id,offer_date,price,comments,user_id,house_id) VA
LUES(1,'19 dec 2011',1233,'good house',3,111);
INSERT 0 1
tzhao=> INSERT INTO User_Offer(id,offer_date,price,comments,user_id,house_id) VA
LUES(2,'18 dec 2011',2345,'good house',3,222);
INSERT 0 1
tzhao=> INSERT INTO User_Offer(id,offer_date,price,comments,user_id,house_id) VA
LUES(2,'18 dec 2011',2345,'good house',3,333);
ERROR:  duplicate key value violates unique constraint "user_offer_pkey"
tzhao=> INSERT INTO User_Offer(id,offer_date,price,comments,user_id,house_id) VA
LUES(3,'18 dec 2011',2345,'good house',3,333);
INSERT 0 1
tzhao=> INSERT INTO User_Offer(id,offer_date,price,comments,user_id,house_id) VA
LUES(4,'18 dec 2011',2345,'good house',3,444);
INSERT 0 1
tzhao=> INSERT INTO User_Offer(id,offer_date,price,comments,user_id,house_id) VA
LUES(5,'18 dec 2011',3567,'good house',5,111);
INSERT 0 1
tzhao=> INSERT INTO User_Offer(id,offer_date,price,comments,user_id,house_id) VA
LUES(6,'18 dec 2011',6567,'good house',5,222);
INSERT 0 1
tzhao=>
```

id	offer_date	price	comments	user_id	house_id
1	2011-12-19	1233.00	good house	3	111
2	2011-12-18	2345.00	good house	3	222
3	2011-12-18	2345.00	good house	3	333
4	2011-12-18	2345.00	good house	3	444
5	2011-12-18	3567.00	good house	5	111
6	2011-12-18	6567.00	good house	5	222

```
tzhao=> INSERT INTO House_History(change_date,price,house_id) VALUES('16 dec 201
1',1000,111);
INSERT 0 1
tzhao=>
```

```
tzhao=> SELECT * FROM House_History;
 change_date | price | house_id
-----+-----+-----
 2011-12-16 | 1000.00 | 111
(1 row)
```

```
tzhao=> INSERT INTO User_Appointment(id,appoint_date,appoint_time,phone,customer
_id,agent_id) VALUES(1,'20 dec 2011','18:00','1404235yfeng',3,1);
INSERT 0 1
tzhao=> INSERT INTO User_Appointment(id,appoint_date,appoint_time,phone,customer
_id,agent_id) VALUES(1,'20 dec 2011','16:00','1404235yfeng',3,2);
ERROR:  duplicate key value violates unique constraint "user_appointment_pkey"
tzhao=> INSERT INTO User_Appointment(id,appoint_date,appoint_time,phone,customer
_id,agent_id) VALUES(2,'20 dec 2011','16:00','1404235yfeng',3,2);
INSERT 0 1
tzhao=> UPDATE User_Appointment SET agent_id=2 WHERE id=1;
UPDATE 1
tzhao=> INSERT INTO User_Appointment(id,appoint_date,appoint_time,phone,customer
_id,agent_id) VALUES(3,'20 dec 2011','22:00','1404235yfeng',3,4);
INSERT 0 1
tzhao=>
```

id	appoint_date	appoint_time	phone	customer_id	agent_id
2	2011-12-20	16:00	1404235yfeng	3	2
1	2011-12-20	18:00	1404235yfeng	3	2
3	2011-12-20	22:00	1404235yfeng	3	4

(3 rows)

## 8 Screen Flow

### Main Page

[login](#) [register](#)

MLS: <input type="text"/>	Street Address: <input type="text"/>	Zip: <input type="text"/>
House Type: Any ▾	City: <input type="text"/>	State: <input type="text"/>
Story Number: Any ▾	Bedroom Number: Any ▾	Bathroom Number: Any ▾
<input type="button" value="search"/>		



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### Agent Manage Home Page

[Agent Info](#)

[Add House](#)

[Generate Report](#)

[Search](#)

#### Charateristics:

- You could view your information by clicking the "Agent Info" button.
- You could add a house by clicking "Add House" button
- You could generate house list report, appointment list report, and offer list report by clicking "Generate Report" button.
- You could start searching by clicking "Search" button

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# Agent Management – Agent Information

User Name: zhaoteng  
Password: 1234  
Email: tzhao@spsu.edu  
Phone: 1404235tzhao

[Back to Agent Manage Home Page](#)

## Agent Management – Add House

---

MLS:

---

House Style:

House Type:

Story Number:

Bedroom Number:

Bathroom Number:

---

Address:

Street:

City:

Zip:

State:

Initial Price:

[Back to Agent Manage Home Page](#)

## Agent Management – Agent Generate Report

[Back to Agent Manage Home Page](#)

## Agent Management – Agent Appointment List

Id	Appointment Date	Appointment Time	Phone	User Id	Agent Id
2	2011-12-20	16:00	1404235yfeng	3	2
1	2011-12-20	18:00	1404235yfeng	3	2

[Back to Agent Manage Home Page](#)

## Agent Management – Agent House List

MLS	Add Date	House Type	Num of Story	Num of Bedroom	Num of Bathroom	Address
111	2011-12-07	single family house	1	1	1	1100 S Marietta Pkwy SE, Marietta, 30060, GA
222	2000-11-02	single family house	2	1	1	2401 Windy Hill RD, Marietta, 30067, GA

[Back to Agent Manage Home Page](#)

## Agent Management – Agent Offer List

Id	Offer Date	Price	Comments	User Id	House Id
1	2011-12-19	1233.00	good house	3	111
2	2011-12-18	2345.00	good house	3	222
5	2011-12-18	3567.00	good house	5	111
6	2011-12-18	6567.00	good house	5	222

[Back to Agent Manage Home Page](#)

## Search Result

MLS	Add Date	House Type	Num of Story	Num of Bedroom	Num of Bathroom	Street Address	Price
111	2011-11-29	single family house	1	1	1	111, 111, 111, 111	111.11
222	2011-12-03	town house	3	3	4	2401 Windy Hill Rd, Marietta, 30060, GA	960.00
333	2011-12-04	town house	1	2	3	Hello, Marietta, 30067, GA	970.00
444	2011-12-04	single family house	1	5	1	www, marietta, 30061, GA	12312.00

[Back to Previous Page](#)

## User Manage Home Page

User Info

Offer List

Appointment

### Charateristics:

- You could view your information by clicking the "Agent Info" button.
- You could view your offer list by clicking the "Offer" button
- You could view your appointment list by clicking the "Appointment" button.

[Back to Home Page](#)

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## User Management – User Information

User Name: fengyu  
Password: 2345  
Email: yfeng3@spsu.edu  
Phone: 1404235yfeng

[Back to Agent Manage Home Page](#)

## User Management – User Offer List

Id	Offer Date	Price	Comments	User Id	House Id
1	2011-12-19	1233.00	good house	3	111
2	2011-12-18	2345.00	good house	3	222
3	2011-12-18	2345.00	good house	3	333
4	2011-12-18	2345.00	good house	3	444

# User Management – User Appointment List

Id	Appointment Date	Appointment Time	Phone	User Id	Agent Id
2	2011-12-20	16:00	1404235yfeng	3	2
1	2011-12-20	18:00	1404235yfeng	3	2
3	2011-12-20	22:00	1404235yfeng	3	4

## Search Result

MLS	Add Date	House Type	Num of Story	Num of Bedroom	Num of Bathroom	Street Address	Price		
111	2011-12-07	single family house	1	1	1	1100 S Marietta Pkwy SE, Marietta, 30060, GA	1000.00	<input type="button" value="Make Offer"/>	<input type="button" value="Make Appointment"/>
333	1990-12-07	single family house	3	2	1	1805 Roswell RD, Marietta, 30062, GA	3000.00	<input type="button" value="Make Offer"/>	<input type="button" value="Make Appointment"/>
444	1900-10-07	town house	4	2	2	1877 Dongjiaominxiang Street, Beijing, 10006, CHN	4000.00	<input type="button" value="Make Offer"/>	<input type="button" value="Make Appointment"/>
222	2000-11-02	single family house	2	1	1	2401 Windy Hill RD, Marietta, 30067, GA	2000.00	<input type="button" value="Make Offer"/>	<input type="button" value="Make Appointment"/>

[Back to Previous Page](#)

## 9 Source Code:

### PHP Code:

```
<?php
    include('../model/function.php');
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    $result = doAddHouse();
    if ($result == true)
    {
        header( 'Location: ../page/agentManageHomePage.php' );
    }
    else
    {
        header( 'Location: ../page/errorPage.php' );
    }
?>
<?php
    include('../model/function.php');
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    listUserInfo();
```



```
header( 'Location: ../page/agentManageAgentInfoPage.php' );
?>
<?php
include('../model/function.php');
if(!isset($_SESSION['role']))
{
    session_start();
}
$strHtml = listAppointment();
echo $strHtml;
?>
<?php
include('../model/function.php');
if(!isset($_SESSION['role']))
{
    session_start();
}
if ($_POST['report_type'] == 'appointment')
{
    header( 'Location: ../page/agentManageAppointmentPage.php' );
}
else if ($_POST['report_type'] == 'house')
{
    header( 'Location: ../page/agentManageHousePage.php' );
}
else if ($_POST['report_type'] == 'offer')
{
    header( 'Location: ../page/agentManageOfferPage.php' );
}
?>
<?php
include('../model/function.php');
if(!isset($_SESSION['role']))
{
    session_start();
}
$strHtml = listHouse();
echo $strHtml;
?>
<?php
include('../model/function.php');
if(!isset($_SESSION['role']))
{
    session_start();
}
```

```
$strHtml = listHouseHistory();
echo $strHtml;
?>
<?php
include('../model/function.php');
if(!isset($_SESSION['role']))
{
    session_start();
}
$strHtml = listOffer();
echo $strHtml;
?>
?php
include('../model/function.php');
if(!isset($_SESSION['role']))
{
    session_start();
}
$result = doLogin();
if ($result == true)
{
    header( 'Location: ../index.php' ) ;
}
else
{
    header( 'Location: ../page/errorPage.php' ) ;
}
?>
<?php
include('../model/function.php');
if(!isset($_SESSION['role']))
{
    session_start();
}
$result = doLogout();
if ($result == true)
{
    header( 'Location: ../index.php' ) ;
}
else
{
    header( 'Location: ../page/errorPage.php' ) ;
}
?>
<?php
```

```

include('../model/function.php');
if(!isset($_SESSION['role']))
{
    session_start();
}
$result = doRegister();
if ($result == true)
{
    header( 'Location: ../index.php' ) ;
}
else
{
    header( 'Location: ../page/errorPage.php' ) ;
}
?>
<?php
include('../model/function.php');
if(!isset($_SESSION['role']))
{
    session_start();
}
$strHtml = doSearch();
echo $strHtml;
?>
<?php
include('../model/function.php');
if(!isset($_SESSION['role']))
{
    session_start();
}
$strHtml = listAppointment();
echo $strHtml;
?>
<?php
include('../model/function.php');
if(!isset($_SESSION['role']))
{
    session_start();
}
$result = doMakeOffer();
if ($result == true)
{
    header( 'Location: ../index.php' ) ;
}
else

```

```

        {
            header( 'Location: ../page/errorPage.php' ) ;
        }
    ?>
<?php
    include('../model/function.php');
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    $strHtml = listOffer();
    echo $strHtml;
?>
<?php
    include('../model/function.php');
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    $result = doScheduleAppointment();
    if ($result == true)
    {
        header( 'Location: ../index.php' ) ;
    }
    else
    {
        header( 'Location: ../page/errorPage.php' ) ;
    }
?>
<?php
    include('../model/function.php');
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    listUserInfo();
    header( 'Location: ../page/userManageUserInfoPage.php' ) ;
?>
<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    if ($_SESSION['role'] != 'agent')
    {

```

```
        header( 'Location: ../index.php' );
    }
?>
```

## Html Code:

```
<html>
    <h1>Agent Management - Add House</h1>
    <form id="addHouse" action="../controller/agentManageAddHouseController.php"
method="post">
    <hr></hr>
    MLS:
        <input id="MLS" name="MLS" type="text" />
    <br><br>
    <hr></hr>
    House Style:<br><br>
    House Type:
    <select id="style_type" name="style_type">
        <option value="single family house">Single Family House</option>
        <option value="town house">Town House</option>
    </select><br><br>
    Story Number:
    <select id="story_num" name="story_num">
        <option value="1">1</option>
        <option value="2">2</option>
        <option value="3">3</option>
        <option value="4">4</option>
        <option value="5">5</option>
    </select><br><br>
    Bedroom Number:
    <select id="bedroom_num" name="bedroom_num">
        <option value="1">1</option>
        <option value="2">2</option>
        <option value="3">3</option>
        <option value="4">4</option>
        <option value="5">5</option>
    </select><br><br>
    Bathroom Number:
    <select id="bathroom_num" name="bathroom_num">
        <option value="1">1</option>
        <option value="2">2</option>
        <option value="3">3</option>
        <option value="4">4</option>
        <option value="5">5</option>
    </select><br><br>
```

```

<hr></hr>
Address:<br><br>
Street: <input id="street" name="street" type="text" /><br><br>
City: <input id="city" name="city" type="text" /><br><br>
Zip: <input id="zip" name="zip" type="text" /><br><br>
State: <input id="state" name="state" type="text" /><br><br>

Initial Price: <input id="price" name="price" type="text" /><br><br>
<input type="submit" id="add" value="Add"/>
</form>
<a href='agentManageHomePage.php'>Back to Agent Manage Home Page</a>
</html>
<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    if ($_SESSION['role'] != 'agent')
    {
        header( 'Location: ../index.php' );
    }
?>
<html>
    <h1>Agent Management - Agent Information</h1>
    User Name: <?php echo $_SESSION['user_name']; ?><br>
    Password: <?php echo $_SESSION['pass_word']; ?><br>
    Email: <?php echo $_SESSION['user_email']; ?><br>
    Phone: <?php echo $_SESSION['user_phone']; ?><br><br>
    <a href='agentManageHomePage.php'>Back to Agent Manage Home Page</a>
</html>
<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    if ($_SESSION['role'] != 'agent')
    {
        header( 'Location: ../index.php' );
    }
?>
<html>
    <h1>Agent Management - Agent Appointment List</h1>
    <?php
        include ('../controller/agentManageAppointmentController.php');
    ?>

```

```

    <a href='agentManageHomePage.php'>Back to Agent Manage Home Page</a>
</html>
<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    if ($_SESSION['role'] != 'agent')
    {
        header( 'Location: ../index.php' );
    }
?>
<html>
    <h1>Agent Management - Agent Generate Report</h1>
    <form id="generateReport"
action=" ../controller/agentManageGenerateReportController.php" method="post">
        <select id="report_type" name="report_type">
            <option value="appointment">Appointment</option>
            <option value="house">House</option>
            <option value="offer">Offer</option>
        </select><br><br>
        <input type="submit" id="report" value="Generate Report"/>
    </form>
    <a href='agentManageHomePage.php'>Back to Agent Manage Home Page</a>
</html>
<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    if ($_SESSION['role'] != 'agent')
    {
        header( 'Location: ../index.php' );
    }
?>
<html>
    <h1>Agent Manage Home Page</h1>
    <div id="toolbar" style="position:absolute; top:60px; width:97%; height:49px;
background-color:white;">
        <a href=" ../controller/agentManageAgentInfoController.php"
style="text-decoration:none;"><div id="info" style="position:absolute; top:5%; width:10%;
height:20; background-color:#C0C0C0;"><center><font color="white" size=4>Agent
Info</font></center></div></a>
        <a href="agentManageAddHousePage.php" style="text-decoration:none;"><div
id="appoint" style="position:absolute; left:12%; top:5%; width:11%; height:20;

```

```

background-color:#C0C0C0;"><center><font          color="white"          size=4>Add
House</font></center></div></a>
    <a                href="agentManageGenerateReportPage.php"
style="text-decoration:none;"><div id="info" style="position:absolute; top:5%; width:15%;
height:20;    background-color:#C0C0C0;    left:24%;"><center><font    color="white"
size=4>Generate Report</font></center></div></a>
    <a    href=" ../index.php"    style="text-decoration:none;"><div    id="offer"
style="position:absolute;    top:5%;    left:40%;    width:8%;    height:20;
background-color:#C0C0C0;"><center><font                                color="white"
size=4>Search</font></center></div></a>
</div>
<h2>Welcome to Agent Management</h2>
<h3>Charateristics:</h3>
<ul>
    <li>You could view your information by clicking the "Agent Info" button.</li>
    <li>You could add a house by clicking "Add House" button</li>
    <li>You could generate house list report, appointment list report, and <br>offer list
report by clicking "Generate Report" button.</li>
    <li>You could start searching by clicking "Search" button
</li>
</ul>
<div id="toolbar1" style="position:absolute; top:270px; width:40%; height:49px;
background-color:white;">
    <center><font                                size=2
color="grey">_____</font></center>
    <center><font size=2 color="grey">2012 Database Teng Zhao, Yu Feng, Xiyang
Song</font></center>
</div>
</html>
<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    if ($_SESSION['role'] != 'agent')
    {
        header( 'Location: ../index.php' );
    }
?>
<html>
    <h1>Agent Management - Agent House History List</h1>
    <?php
        include ('../controller/agentManageHouseHistoryController.php');
    ?>
    <a href='agentManageHomePage.php'>Back to Agent Manage Home Page</a>
</html>

```



```

<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    if ($_SESSION['role'] != 'agent')
    {
        header( 'Location: ../index.php' );
    }
?>
<html>
    <h1>Agent Management - Agent House List</h1>
    <?php
        include ('../controller/agentManageHouseController.php');
    ?>
    <a href='agentManageHomePage.php'>Back to Agent Manage Home Page</a>
</html>
<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    if ($_SESSION['role'] != 'agent')
    {
        header( 'Location: ../index.php' );
    }
?>
<html>
    <h1>Agent Management - Agent Offer List</h1>

    <?php
        include ('../controller/agentManageOfferController.php');
    ?>
    <a href='agentManageHomePage.php'>Back to Agent Manage Home Page</a>
</html>
<html>
    <h1>Error</h1>
    <a href='../index.php' target="">Back to Home Page</a>
</html>
<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
?>

```

```

<html>
  <h1>Login</h1>
  <form id="loginForm" action=" ../controller/loginController.php" method="post">
    Username: <input id="username" name="username" type="text" /><br><br>
    Password: <input id="password" name="password" type="text" /><br><br>
    <input type="submit" id="login" value="Log in"/>
  </form>
</html>
<?php
  if(!isset($_SESSION['role']))
  {
    session_start();
  }
?>
<html>
  <h1>Register</h1>
  <form id="registerForm" action=" ../controller/registerController.php" method="post">
    User Name: <input id="username" name="username" type="text" /><br><br>
    Password: <input id="password" name="password" type="text" /><br><br>
    Type Password Again: <input id="password2" name="password2" type="text"
/><br><br>
    Email: <input id="email" name="email" type="text" /><br><br>
    Phone: <input id="phone" name="phone" type="text" /><br><br>
    Person Type:
    <select id="persontype" name="persontype">
      <option value="agent">Agent</option>
      <option value="user">User</option>
    </select><br><br>
    <input type="submit" id="register" value="register"/>
  </form>
</html>
<html>
  <h1>Search Result</h1>
  <?php
    include (' ../controller/searchController.php');
  ?>
  <a href="javascript: history.go(-1)">Back to Previous Page</a>
</html>
<?php
  if(!isset($_SESSION['role']))
  {
    session_start();
  }
  if ($_SESSION['role'] != 'user')
  {

```

```

        header( 'Location: ../index.php' );
    }
?>
<html>
    <h1>User Management - User Appointment List</h1>
    <?php
        include ('../controller/userManageAppointmentController.php');
    ?>
</html>
<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    if ($_SESSION['role'] != 'user')
    {
        header( 'Location: ../index.php' );
    }
?>
<html>
<link href="../css/main.css" rel="stylesheet" type="text/css"/>
    <h1>User Manage Home Page</h1>
    <div id="toolbar" style="position:absolute; top:60px; width:45%; height:49px;
background-color:white;">
        <a href="../controller/userManageUserInfoController.php"
style="text-decoration:none;"><div id="info" style="position:absolute; top:5%; width:92px;
height:20; background-color:#C0C0C0; left: 5px;"><center><font color="white"
size=4>User Info</font></center></div></a>
        <a href="userManageAppointmentPage.php" style="text-decoration:none;"><div
id="appoint" style="position:absolute; left:220px; top:3px; width:22%; height:20;
background-color:#C0C0C0;"><center><font color="white"
size=4>Appointment</font></center></div></a>
        <a href="userManageOfferPage.php" style="text-decoration:none;"><div id="offer"
style="position:absolute; top:3px; left:106px; width:20%; height:20;
background-color:#C0C0C0;"><center><font color="white" size=4>Offer
List</font></center></div></a>
    </div>
    <div id="Wapper-Subpage">
        <p></p>
        <h2>Welcome to User</h2>
        <h3>Charateristics:</h3>
        <ul>
            <li>You could view your information by clicking the "Agent Info" button.</li>
            <li>You could view your offer list by clicking the "Offer" button</li>
            <li>You could view your appointment list by clicking the "Appointment"

```

```

button.</li>
</ul>
<a href="../index.php">Back to Home Page</a>
</div>
<div id="foot">
    <center><font
                                                size=2
color="grey">_____</font></center>
    <center><font size=2 color="grey">2012 Database Teng Zhao, Yu Feng, Xiyang
Song</font></center>
</div>
</html>
<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    if ($_SESSION['role'] != 'user')
    {
        header( 'Location: ../index.php' );
    }
    $_SESSION['o_house_id'] = $_POST['house_id'];
?>
<html>
    <h1>Make Offer</h1>
    <form id="offerForm" action="../controller/userManageMakeOfferController.php"
method="post">
        Price: <input id="price" name="price" type="text" /><br><br>
        Comments: <input id="comment" name="comment" type="text" /><br><br>
        <input type="submit" id="offer" value="Make Offer"/>
    </form>
</html>
<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    if ($_SESSION['role'] != 'user')
    {
        header( 'Location: ../index.php' );
    }
?>
<html>
    <h1>User Management - User Offer List</h1>
    <?php
        include ('../controller/userManageOfferController.php');

```

```

    ?>
</html>
<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    if ($_SESSION['role'] != 'user')
    {
        header( 'Location: ../index.php' );
    }
    $_SESSION['o_house_id'] = $_POST['house_id'];
?>
<html>
    <h1>Schedule Appointment</h1>
    <form
        id="appointForm"
action="../controller/userManageScheduleAppointmentController.php" method="post">
        Date: <input id="date" name="date" type="text" /><br><br>
        Time: <input id="time" name="time" type="text" /><br><br>
        Phone Number: <input id="phone" name="phone" type="text" /><br><br>
        <input type="submit" id="appointment" value="Schedule Appointment"/>
    </form>
</html>
<?php
    if(!isset($_SESSION['role']))
    {
        session_start();
    }
    if ($_SESSION['role'] != 'user')
    {
        header( 'Location: ../index.php' );
    }
?>
<html>
    <h1>User Management - User Information</h1>
    User Name: <?php echo $_SESSION['user_name']; ?><br>
    Password: <?php echo $_SESSION['pass_word']; ?><br>
    Email: <?php echo $_SESSION['user_email']; ?><br>
    Phone: <?php echo $_SESSION['user_phone']; ?><br><br>
    <a href='userManageHomePage.php'>Back to Agent Manage Home Page</a>
</html>

```

## Function Code:

```

<?php

```

```

function init()
{
    $_SESSION['role'] = 'visitor';
}

function doDBConnection()
{
    //connect to teng zhao
    $conn=pg_connect("host=localhost          dbname=tzhao          user=tzhao
password=zhaote05");
    return $conn;
    //connect to yu feng
    // $conn = pg_connect("host=localhost  dbname=yfeng2  user=yfeng2
password=fengyu42");
}

function doAddHouse()
{
    $mls = $_POST['MLS'];
    $date = date("Y-m-d");
    $conn = doDBConnection();
    $user_id = $_SESSION['user_id'];
    $query="INSERT INTO
House_Info(MLS,add_date,agent_id)VALUES('$mls','$date',$user_id)";
    pg_query($query);

    $style_type = $_POST['style_type'];
    $story_num = $_POST['story_num'];
    $bedroom_num = $_POST['bedroom_num'];
    $bathroom_num = $_POST['bathroom_num'];
    $query2="INSERT INTO
House_Style(house_type,story_num,bedroom_num,bathroom_num,house_id)VALUES('$styl
e_type',$story_num,$bedroom_num,$bathroom_num,'$mls')";
    pg_query($query2);

    $street = $_POST['street'];
    $city = $_POST['city'];
    $zip = $_POST['zip'];
    $state = $_POST['state'];
    $query3="INSERT INTO
House_Location(street_addr,city,zip,state_name,house_id)VALUES('$street','$city','$zip','$sta
te', '$mls')";
    pg_query($query3);

    $price = $_POST['price'];

```

```

        $query4="INSERT INTO
House_History(change_date,price,house_id)VALUES('$date',$price,'$mls');"
        pg_query($query4);
        return true;
    }

//agent and user
function listUserInfo()
{
    $conn = doDBConnection();
    $user_id = $_SESSION['user_id'];
    $query="SELECT username, password FROM User_info WHERE id = $user_id;";
    $result = pg_query($query);
    $username = "";
    $psw = "";
    while ($row = pg_fetch_row($result)) {
        $username = $row[0];
        $psw = $row[1];
    }
    $_SESSION['user_name'] = $username;
    $_SESSION['pass_word'] = $psw;

    $query2="SELECT email FROM User_Email WHERE user_id = $user_id;";
    $result2 = pg_query($query2);
    $email = "";
    while ($row = pg_fetch_row($result2)) {
        $email = $row[0];
    }
    $_SESSION['user_email'] = $email;

    $query3="SELECT phone FROM User_Phone WHERE user_id = $user_id;";
    $result3 = pg_query($query3);
    $phone = "";
    while ($row = pg_fetch_row($result3)) {
        $phone = $row[0];
    }
    $_SESSION['user_phone'] = $phone;
}

//agent and user
function listAppointment()
{
    $conn = doDBConnection();
    $str = "";
    $user_id = $_SESSION['user_id'];

```

```

if ($_SESSION['role'] == 'agent')
{
    $query = "SELECT * FROM User_Appointment WHERE agent_id =
$user_id;";
    $result = pg_query($query);
}
else if ($_SESSION['role'] == 'user')
{
    $query = "SELECT * FROM User_Appointment WHERE customer_id =
$user_id;";
    $result = pg_query($query);
}
$str .= "<table border=1>\n";
$str .= "
    <tr><th>Id</th><th>Appointment Date</th><th>Appointment
Time</th><th>Phone</th><th>User Id</th><th>Agent Id</th></tr>\n";
    for($i=0; $i<pg_num_rows($result); ++$i) {
        $row = pg_fetch_object($result,$i);
        $str
            .=
            "
            <tr><td>$row->id</td><td>$row->appoint_date</td><td>$row->appoint_time</td><td>$ro
w->phone</td><td>$row->customer_id</td><td>$row->agent_id</td></tr>\n";
    }
    $str .= "</table>\n";
    return $str;
}

function doGenerateReport()
{

}

function listHouse()
{
    $conn = doDBConnection();
    $str = "";
    $user_id = $_SESSION['user_id'];
    $query = "SELECT * FROM House_Info WHERE agent_id = $user_id;";
    $result = pg_query($query);

    $add_date = "";

    $house_type = "";
    $story_num = "";
    $bedroom_num = "";
    $bathroom_num = "";

```



```

$street_addr = "";
$city = "";
$zip = "";
$state_name = "";

$str .= "<table border=1>\n";
$str .= "  <tr><th>MLS</th><th>Add Date</th><th>House Type</th><th>Num of
Story</th><th>Num of Bedroom</th><th>Num of Bathroom</th><th>Address</th></tr>\n";
while ($row = pg_fetch_row($result)) {
    $num = $row[0];
    $add_date = $row[1];
    $query2 = "SELECT * FROM House_Style WHERE house_id = '$num'";
    $result2 = pg_query($query2);
    while ($row1 = pg_fetch_row($result2)) {
        $house_type = $row1[0];
        $story_num = $row1[1];
        $bedroom_num = $row1[2];
        $bathroom_num = $row1[3];
    }
    $query3 = "SELECT * FROM House_Location WHERE house_id = '$num'";
    $result3 = pg_query($query3);
    while ($row2 = pg_fetch_row($result3)) {
        $street_addr = $row2[0];
        $city = $row2[1];
        $zip = $row2[2];
        $state_name = $row2[3];
    }
    $str .= "
<tr><td>$num</td><td>$add_date</td><td>$house_type</td><td>$story_num</td><td>$be
droom_num</td><td>$bathroom_num</td><td>$street_addr,      $city,      $zip,
$state_name</td></tr>\n";
}
$str .= "</table>\n";
return $str;
}

function listHouseHistory()
{

}

function doLogin()
{

```

```

if(isset($_POST["username"]))
{
    $username = $_POST["username"];
}
else
{
    $username = "";
}
if(isset($_POST["password"]))
{
    $password = $_POST["password"];
}
else
{
    $password = "";
}
$con = doDBConnection();
if ($con != null)
{
    $query = "SELECT id, person_type FROM User_info where username =
'$username' AND password = '$password'";
    $result = pg_query($query);
    $role = "";
    $num = -1;
    while ($row = pg_fetch_row($result)) {
        $num = $row[0];
        $role = $row[1];
    }
    if($role == "")
    {
        return false;
    }
    else
    {
        $_SESSION['user_id'] = $num;
        $_SESSION['role'] = $role;
        return true;
    }
}
}

function doLogout()
{
    $result = true;
    if ($result)

```

```

    {
        $_SESSION['role'] = 'visitor';
        return true;
    }
}

function doRegister()
{
    $username = $_POST['username'];
    $password = $_POST['password'];
    $persontype = $_POST['persontype'];
    $conn = doDBConnection();
    $query="INSERT                                     INTO
User_Info(username,password,person_type)VALUES('$username','$password','$persontype');
";
    pg_query($query);

    $query2="SELECT id FROM User_Info WHERE username = '$username' AND
password = '$password' AND person_type = '$persontype'";
    $result = pg_query($query2);
    $user_id = -1;
    while ($row = pg_fetch_row($result)) {
        $user_id = $row[0];
    }

    $email = $_POST['email'];
    $phone = $_POST['phone'];
    $query3="INSERT INTO User_Email(email,user_id)VALUES('$email',$user_id)";
    pg_query($query3);
    $query4="INSERT                                     INTO
User_Phone(phone,user_id)VALUES('$phone',$user_id)";
    pg_query($query4);
    return true;
}

function doSearch()
{
    $mls = $_POST['mls'];
    $street_address = $_POST['street_address'];
    $zip = $_POST['zip'];
    $city = $_POST['city'];
    $state = $_POST['state'];
    $house_type = $_POST['style_type'];
    $story_num = $_POST['story_num'];
    $bedroom_num = $_POST['bedroom_num'];

```

```

$bathroom_num = $_POST['bathroom_num'];
$year = $_POST['year'];

$conn = doDBConnection();

$query = "SELECT * FROM House_Info AS hi JOIN House_Style AS hs
ON(hi.MLS = hs.house_id ";
if ($mls != "")
{
    $query .= "AND hi.MLS = '$mls' ";
}
if ($house_type != 'Any')
{
    $query .= "AND hs.house_type = '$house_type' ";
}
if ($story_num != 'Any')
{
    $query .= "AND hs.story_num = '$story_num' ";
}
if ($bedroom_num != 'Any')
{
    $query .= "AND hs.bedroom_num = '$bedroom_num' ";
}
if ($bathroom_num != 'Any')
{
    $query .= "AND hs.bathroom_num = '$bathroom_num' ";
}
$query .= ") JOIN House_Location AS hl ON (hi.MLS = hl.house_id ";
if ($street_address != "")
{
    $query .= "AND hl.street_addr = '$street_address' ";
}
if ($zip != "")
{
    $query .= "AND hl.zip = '$zip' ";
}
if ($city != "")
{
    $query .= "AND hl.city = '$city' ";
}
if ($state != "")
{
    $query .= "AND hl.state_name = '$state' ";
}
$query .= ") JOIN House_History AS hh ON (hi.MLS = hh.house_id);";

```

```

$result = pg_query($query);
$str = "<table border=1>\n";
$str .= " <tr><th>MLS</th><th>Add Date</th><th>House Type</th><th>Num of
Story</th><th>Num of Bedroom</th><th>Num of Bathroom</th><th>Street
Address</th><th>Price</th>";
if ($_SESSION['role'] == 'user')
{
    $str .= "<th></th><th></th></tr>\n";
}
else
{
    $str .= "</tr>\n";
}
while ($row = pg_fetch_row($result)) {
    if($year != "")
    {
        $year_temp = $row[1];
        $year_temp = substr($year_temp,0,4);
        if ($year != $year_temp)
        {
            continue;
        }
    }
    $str .= "
<tr><td>$row[0]</td><td>$row[1]</td><td>$row[3]</td><td>$row[4]</td><td>$row[5]</td
><td>$row[6]</td><td>$row[8], $row[9], $row[10], $row[11]</td><td>$row[14]</td>";
    if ($_SESSION['role'] == 'user')
    {
        $str .= "
<td><form action='userManagerMakeOfferPage.php'
method='POST'><input type='hidden' name='house_id' value='$row[0]' /><input
type='submit' value='Make Offer'></form><td><form
action='userManagerScheduleAppointmentPage.php' method='POST'><input type='hidden'
name='house_id' value='$row[0]' /><input type='submit' value='Make
Appointment'></form></td></tr>\n";
    }
    else
    {
        $str .= "</tr>\n";
    }
}
$str .= "</table>\n";
return $str;
}

```

```
function doMakeOffer()
```

```

{
    $user_id = $_SESSION['user_id'];
    $house_id = $_SESSION['o_house_id'];
    $price = $_POST['price'];
    $comment = $_POST['comment'];
    $date = date("Y-m-d");
    $conn = doDBConnection();
    $query="INSERT INTO
User_Offer(offer_date,price,comments,user_id,house_id)VALUES('$date',$price,'$comment',
$user_id, $house_id)";
    pg_query($query);
    return true;
}

function listOffer()
{
    $conn = doDBConnection();
    $str = "";
    $user_id = $_SESSION['user_id'];
    if ($_SESSION['role'] == 'agent')
    {
        $query = "SELECT * FROM User_Offer WHERE house_id IN (SELECT MLS
FROM House_info WHERE agent_id = $user_id)";
        $result = pg_query($query);
    }
    else if ($_SESSION['role'] == 'user')
    {
        $query = "SELECT * FROM User_Offer WHERE user_id = $user_id";
        $result = pg_query($query);
    }
    $str .= "<table border=1>\n";
    $str .= "
        <tr><th>Id</th><th>Offer
Date</th><th>Price</th><th>Comments</th><th>User Id</th><th>House Id</th></tr>\n";
    for($i=0; $i<pg_num_rows($result); ++$i) {
        $row = pg_fetch_object($result,$i);
        $str .= "
        <tr><td>$row->id</td><td>$row->offer_date</td><td>$row->price</td><td>$row->comme
nts</td><td>$row->user_id</td><td>$row->house_id</td></tr>\n";
    }
    $str .= "</table>\n";
    return $str;
}

function doScheduleAppointment()
{

```

```
$user_id = $_SESSION['user_id'];
$house_id = $_SESSION['o_house_id'];
$date = date("Y-m-d", strtotime($_POST['date']));
$time = $_POST['time'];
$phone = $_POST['phone'];
$conn = doDBConnection();

$query="SELECT agent_id FROM House_info Where MLS = '$house_id';";
$result = pg_query($query);
$agent_id = -1;
while ($row = pg_fetch_row($result)) {
    $agent_id = $row[0];
}

$query="INSERT INTO
User_Appointment(appoint_date,appoint_time,phone,customer_id,agent_id)VALUES('$date','
$time','$phone',$user_id, $agent_id)";
pg_query($query);
return true;
}
?>
```