# AS Properties

AS Properties is a reality website allowing users to search and view available properties to buy or to rent.

Admins will have the ability to maintain the list of properties and list of salespersons.

SUMMARY

**Login (starting page)** – login with email and password. (for a list of users see table p\_users)

There are 2 types of users… Customers and Admins.

**User (Customer)** – A customer can do the following…

* View a list of properties
  + Can filter the list by
    - City
    - State
  + Can order the list by
    - Property posted date (newer ones first)
    - Price (lowest to hisghest)
* Update their own profile
* Press “Home” button to go back to the initial home page
* Press “Logout” to logout

**User (Admin)** – An admin can do almost everything that a customer can do, plus the following:

* Maintain the list of properties
* Maintain the list of salespersons

DETAIL STEPS

**Setup SQL tables** – run the following to setup the SQL tables

CREATE TABLE P\_City(

city\_name VARCHAR(50) PRIMARY KEY

);

insert into P\_City values('Kew Gardens');

insert into P\_City values('Rego Park');

insert into P\_City values('Richmond Hills');

insert into P\_City values('Forest Hills');

insert into P\_City values('Briarwood');

insert into P\_City values('Woodside');

insert into P\_City values('Sunnyside');

insert into P\_City values('Bronx');

insert into P\_City values('Brooklyn');

insert into P\_City values('Manhattan');

insert into P\_City values('Long Island City');

CREATE TABLE P\_State(

code VARCHAR2(2) PRIMARY KEY,

state\_name VARCHAR2(50) not null

);

insert into P\_State values('NY', 'New York');

insert into P\_State values('NJ', 'New Jersey');

insert into P\_State values('CT', 'Connecticut');

insert into P\_State values('CA', 'California');

insert into P\_State values('TX', 'Texas');

CREATE TABLE P\_User(

user\_id numeric generated always as identity(start with 1 increment by 1) not null PRIMARY KEY,

user\_name varchar2(50) not null,

address1 varchar2(50) not null,

address2 varchar2(50),

city\_name varchar2(50) not null REFERENCES P\_City(city\_name),

state\_code varchar2(2) not null REFERENCES P\_State(code),

zipcode varchar2(5) not null,

phone varchar2(20),

email VARCHAR2(100) not null unique,

user\_type varchar2(20) not null,

user\_password varchar2(20) not null

);

insert into P\_User (user\_name, address1, address2, city\_name, state\_code, zipcode, phone, email, user\_type, user\_password)

values('Tam Davis','390 Broadway','Apt B2', 'Briarwood','NY','12100','555-555-5555','tamd@yahoo.com','Admin','adminp');

insert into P\_User (user\_name, address1, address2, city\_name, state\_code, zipcode, phone, email, user\_type, user\_password)

values('Ann Davis','31 Grand Ave',' ', 'Manhattan','NY','25100','666-666-6666','annd@yahoo.com','Admin','adminp');

insert into p\_user

(user\_name,address1,address2,city\_name,state\_code,zipcode,phone,email,user\_type, user\_password)

values('Lee','404 Lex',' ','Rego Park','NY','11374','666-666-6666','lee@gmail.com','Customer','leep');

CREATE TABLE P\_Salesperson(

salesperson\_id numeric generated always as identity(start with 1 increment by 1) not null PRIMARY KEY,

salesperson\_name varchar2(50) not null,

phone varchar2(20),

email VARCHAR2(100) not null unique,

commission number(5,2)

);

insert into p\_salesperson

(salesperson\_name,phone,email,commission)

values('Ann Davis','111-11-1111','Ann@gmail.com',3.5);

insert into p\_salesperson

(salesperson\_name,phone,email,commission)

values('Tam Davis','222-11-1111','tam@gmail.com',2.5);

insert into p\_salesperson

(salesperson\_name,phone,email,commission)

values('Max Davis','333-11-1111','max@gmail.com',1.5);

CREATE TABLE P\_Property(

property\_id numeric generated always as identity(start with 1 increment by 1) not null PRIMARY KEY,

address1 varchar2(50) not null,

address2 varchar2(50),

city\_name varchar2(50) not null REFERENCES P\_City(city\_name),

state\_code varchar2(2) not null REFERENCES P\_State(code),

zipcode varchar2(5) not null,

owner\_name varchar2(50) not null,

owner\_phone varchar2(20) not null,

sales\_type varchar(20) not null CHECK(sales\_type in('For Sale','Rental')),

property\_type varchar(20) not null CHECK(property\_type in('Single Family','Multi-Family','Condo','Coop')),

bedrooms NUMBER(2),

salesperson\_id not null references P\_Salesperson(salesperson\_id),

posted\_date date not null,

mls\_number varchar2(7) not null,

asking\_price number(11,2) not null,

accepting\_price number(11,2) not null,

status varchar(20) not null CHECK(status in('Active','Inactive')),

photo\_filename varchar2(20)

);

insert into p\_property

(address1,address2,city\_name,state\_code,zipcode,owner\_name,owner\_phone,sales\_type,property\_type,bedrooms,salesperson\_id,posted\_date,mls\_number,asking\_price,accepting\_price,status,photo\_filename)

values('6886 Broadway','APT B52','Woodside','NY','10174','Max John','222-22-2222','Rental','Condo',3,1,TO\_DATE('2003/05/03', 'yyyy/mm/dd'),'0000001',1000,900,'Active','P000001.jpg');

'insert into p\_property

(address1,address2,city\_name,state\_code,zipcode,owner\_name,owner\_phone,sales\_type,property\_type,bedrooms,salesperson\_id,posted\_date,mls\_number,asking\_price,accepting\_price,status,photo\_filename)

values('38 18th Street','APT C7','Woodside','NY','10174','Mary John','333-22-2222','Rental','Condo',3,1,TO\_DATE('2004/05/03', 'yyyy/mm/dd'),'0000001',10,9,'Active','P000002.jpg');

insert into p\_property

(address1,address2,city\_name,state\_code,zipcode,owner\_name,owner\_phone,sales\_type,property\_type,bedrooms,salesperson\_id,posted\_date,mls\_number,asking\_price,accepting\_price,status,photo\_filename)

values('333 Broadway','APT C7','Woodside','NY','10174','Mary John','333-22-2222','Rental','Condo',3,1,TO\_DATE('2005/05/03', 'yyyy/mm/dd'),'0000002',3000,2900,'Active','P000004.jpg');

insert into p\_property

(address1,address2,city\_name,state\_code,zipcode,owner\_name,owner\_phone,sales\_type,property\_type,bedrooms,salesperson\_id,posted\_date,mls\_number,asking\_price,accepting\_price,status,photo\_filename)

values('444 Broadway','APT C6','Woodside','NY','10174','Mary John','333-22-2222','Rental','Condo',3,1,TO\_DATE('2006/05/03', 'yyyy/mm/dd'),'0000003',4000,3900,'Active','P000005.jpg');

insert into p\_property

(address1,address2,city\_name,state\_code,zipcode,owner\_name,owner\_phone,sales\_type,property\_type,bedrooms,salesperson\_id,posted\_date,mls\_number,asking\_price,accepting\_price,status,photo\_filename)

values('555 Broadway','APT C8','Woodside','NY','10174','Mary John','333-22-2222','Rental','Condo',3,1,TO\_DATE('2007/05/03', 'yyyy/mm/dd'),'0000004',5000,4900,'Active','P000006.jpg');

insert into p\_property

(address1,address2,city\_name,state\_code,zipcode,owner\_name,owner\_phone,sales\_type,property\_type,bedrooms,salesperson\_id,posted\_date,mls\_number,asking\_price,accepting\_price,status,photo\_filename)

values('134 Grand Ave','APT C7','Rego Park','NY','10174','Mary John','333-22-2222','Rental','Condo',3,1,TO\_DATE('2008/05/03', 'yyyy/mm/dd'),'0000005',6000,5900,'Active','P000002.jpg');

insert into p\_property

(address1,address2,city\_name,state\_code,zipcode,owner\_name,owner\_phone,sales\_type,property\_type,bedrooms,salesperson\_id,posted\_date,mls\_number,asking\_price,accepting\_price,status,photo\_filename)

values('333 Grand Ave','APT C7','Rego Park','NY','10174','Mary John','333-22-2222','Rental','Condo',3,1,TO\_DATE('2009/05/03', 'yyyy/mm/dd'),'0000006',7000,6900,'Active','P000004.jpg');

insert into p\_property

(address1,address2,city\_name,state\_code,zipcode,owner\_name,owner\_phone,sales\_type,property\_type,bedrooms,salesperson\_id,posted\_date,mls\_number,asking\_price,accepting\_price,status,photo\_filename)

values('1080 Grand Ave','APT C6','Sunnyside','TX','10174','Mary John','333-22-2222','Rental','Condo',3,1,TO\_DATE('2010/05/03', 'yyyy/mm/dd'),'0000007',8000,7900,'Active','P000005.jpg');

insert into p\_property

(address1,address2,city\_name,state\_code,zipcode,owner\_name,owner\_phone,sales\_type,property\_type,bedrooms,salesperson\_id,posted\_date,mls\_number,asking\_price,accepting\_price,status,photo\_filename)

values('555 Grand Ave','APT C8','Rego Park','CA','10174','Mary John','333-22-2222','Rental','Condo',3,1,TO\_DATE('2011/05/03', 'yyyy/mm/dd'),'0000008',9000,8900,'Active','P000006.jpg');

insert into p\_property

(address1,address2,city\_name,state\_code,zipcode,owner\_name,owner\_phone,sales\_type,property\_type,bedrooms,salesperson\_id,posted\_date,mls\_number,asking\_price,accepting\_price,status,photo\_filename)

values('888 125th St','APT C8','Rego Park','NJ','10174','Mary John','333-22-2222','Rental','Condo',3,1,TO\_DATE('2018/06/19', 'yyyy/mm/dd'),'0000008',9000,8900,'Active','P000006.jpg');

insert into p\_property

(address1,address2,city\_name,state\_code,zipcode,owner\_name,owner\_phone,sales\_type,property\_type,bedrooms,salesperson\_id,posted\_date,mls\_number,asking\_price,accepting\_price,status,photo\_filename)

values('866 28th Street','APT C8','Rego Park','CA','10174','Mary John','333-22-2222','Rental','Condo',3,1,TO\_DATE('2018/06/18', 'yyyy/mm/dd'),'0000008',9000,8900,'Active','P000006.jpg');

CREATE TABLE P\_RequestShowing(

user\_id numeric not null REFERENCES P\_User(user\_id),

property\_id numeric not null REFERENCES P\_Property(property\_id),

user\_message varchar2(1000) not null

);

commit;

**J-Unit Testing**

Run all the test methods in the “test” source folder.

**Customer login**

Login with

Email = [lee@gmail.com](mailto:lee@gmail.com)

Password = leep

A list of active properties will display.

Use the city dropdown list to select “Rego Park”. The list will now only display properties located in Rego Park.

Use the state dropdown list to select “CA”. The list will now only display properties located in Rego Park in state is CA.

Press the home button to reset everything back to the initial home page where the list will display a list of active properties.

Use the “order by” dropdown list to select “Order by price”. The list will now display properties ordered by price (from lowest to highest).

Use the “order by” dropdown list to select “Order by date”. The list will now display properties ordered by posted date (from newest to oldest).

Click on “update profile” to modify your user profile.

In the property detail list, click the detail button to view the property details.

This item is currently in the backlog…

In the property detail list, click the request button to request a showing of the property.

Click logout to exit.

**Create new customer account**

In the login page, click “create new user” to create a new user account. Once a new account is created, the remaining steps will be the same as above (same as logging in with an existing customer account).

**Admin login**

Login with

Email = tamd@yahoo.com

Password = adminp

A list of all properties (active and inactive) will display.

Use the city dropdown list to select “Rego Park”. The list will now only display properties located in Rego Park.

Use the state dropdown list to select “CA”. The list will now only display properties located in Rego Park in state is CA.

Press the home button to reset everything back to the initial home page where the list will display a list of all properties.

Use the “order by” dropdown list to select “Order by price”. The list will now display properties ordered by price (from lowest to highest).

Use the “order by” dropdown list to select “Order by date”. The list will now display properties ordered by posted date (from newest to oldest).

Click on “add property” to add a new listing.

Click on “salespersons” to maintain the list of salespersons.

* Upon entry, you will see a list of existing salespersons
* Click add salesperson to add a new salesperson
* In each detail line
  + click update to update salesperson info
  + click delete to delete a salesperson
* Click “Home” would take you back to the admin home page

Click on “update profile” to modify your user profile.

In the property detail list, click the update button to update the property details.

In the property detail list, click the inactivate button to inactivate the property.

(Please note: There will be no delete property method, because we would like to keep a history of all properties in the system. Instead of deleting, we will use this method to inactivate the properties that are off the market)

This item is currently in the backlog…

In the property detail list, need to change the background color of inactive properties, so we can tell which properties are inactive.

Click logout to exit.

Backlog items…

1. Customer property detail list, click the request button to request a showing of the property.
2. Junit testing for showingDAO
3. Customer and Admin Update profile, city and state needs to be dropdowns select boxes.
4. Admin property detail list, need to change the background color of inactive properties, so we can tell which properties are inactive. Do not display the inactivate button on inactive properties.
5. Admin property detail list, need a user list maintenance, so an admin can maintain the list of all users (customers & admins).
6. Login page, send to error page if login failed
7. Admin Add Property page, Need dropdown list for… sales type, property type, and salesperson id (retrieve data from salesperson table).
8. Edit checking. Make sure data entered are valid. When adding/deleting a record from the database, need to make sure that the action would not cause any database constraint violation.