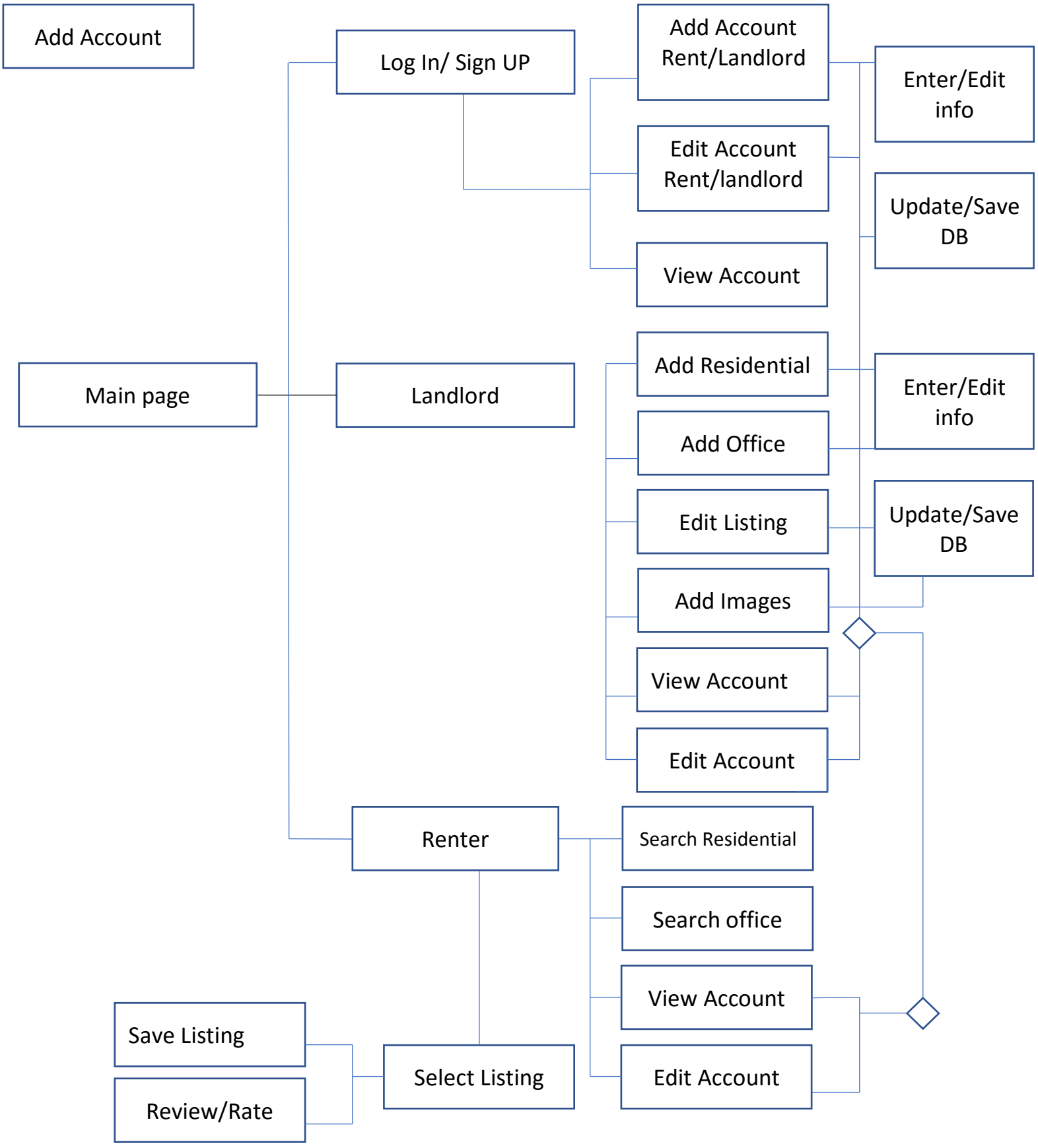
HIPO: HIERARCHY INPUT PROCESS OUTPUT DIAGRAM +(FUNCTIONS & PSUEDOCODE)


Add Account
Log In/ Sign UP
Add Account Rent/Landlord
Enter/Edit info
Edit Account Rent/landlord
Update/Save DB
View Account
Main page
Landlord
Add Residential
Enter/Edit info
Add Office
Edit Listing
Update/Save DB
Add Images
View Account
Edit Account
Renter
Search Residential
Search office
View Account
Edit Account
Save Listing
Review/Rate
Select Listing

Functions and pseudocode:

ADD ACCOUNT LandLord:
Inputs: @name, @Email_id, @password, @contact_no, @legaldoc
Outputs: None
Pseudocode: Connect to the database
Query = INSERT INTO Landlord (@name, @Email_id, @password, @contact_no, @legaldoc);
Parse Query
Execute Query
Close connection to the database

ADD ACCOUNT Renter:
Inputs: @name, @Email_id, @password, @contact_no, @age, @gender, @relationship, @background_check, @credit_report
Outputs: None
Pseudocode: Connect to the database
Query = INSERT INTO Renter (@name, @Email_id, @password, @contact_no, @age, @gender, @relationship, @background_check, @credit_report);
Parse Query
Execute Query
Close connection to the database

EDIT ACCOUNT Landlord:
Inputs: @ Luser_id, @name, @Email_id, @password, @contact_no, @legaldoc
Outputs: None
Pseudocode: Connect to the database
Query =

UPDATE Landlord
Set name=@name, Email_id=@Email_id, password=@pasword, contact_no=@contact_no, legaldoc=@legaldoc
where Luser_id=@Luser_id;

Parse Query
Execute Query
Close connection to the database

EDIT ACCOUNT Renter:
Inputs: : @Ruser_id,@name, @Email_id, @password, @contact_no, @age, @gender, @relationship, @background_check, @credit_report
Outputs: None
Pseudocode: Connect to the database
Query =

UPDATE Renter
Set name=@name, Email_id=@Email_id, password=@pasword, contact_no=@contact_no, age=@age, gender=@gender, relationship=@relation, credit_report=@creditreport
where Ruser_id=@Ruser_id;

Parse Query
Execute Query
Close connection to the database

VIEW ACCOUNT LANDLORD:
Inputs: @Email_id, @password
Outputs: @name, @Email_id, @password, @contact_no, @legaldoc
Pseudocode: Connect to the database
Query =
Select *
From Landlord
Where (Email_id=@Email_id) And (password=@password);
Parse Query
Execute Query
Close connection to the database

VIEW ACCOUNT Renter:
Inputs: @ Email_id, @passowrd
Outputs: @name, @Email_id, @password, @contact_no, @age, @gender, @relationship, @background_check, @credit_report
Pseudocode: Connect to the database
Query =
Select *
From Renter
Where (Email_id=@Email_id) And (password=@password);

Parse Query

Execute Query
Close connection to the database

ADD Residential Listing:
Inputs: @Email, @Luser_id, @property_type, @Ad_title, @price, @availibilty, @Description, @street, @city, @postalcode, @legaldoc, @contract @unit_type,@bedroom, @baths, @under_18, @pets, @utilities, @parking, @size
Outputs: None
Pseudocode: Connect to the database
Query =

Begin
INSERT INTO Listing Values ((select Luser_id from Landlord where Email_id=@email_id), @property_type, @Ad_title, @price, @availibilty, @Description, @street, @city, @postalcode, @legaldoc, @contract)
Select Last_Insert_id() INTO @Var
INSERT INTO Residential values (@var, @unit_type, @bedroom, @baths, @under_18, @pets, @utilities, @parking, @size)
End;

Parse Query
Execute Query
Close connection to the database

ADD Office Listing:
Inputs: @ @Email, @Luser_id, @property_type, @Ad_title, @price, @availibilty, @Description, @street, @city, @postalcode, @legaldoc, @contract @size, @floor, @amenities, @parking, @capacity, @unit/-type, @others
Outputs: None
Pseudocode: Connect to the database
Query =
Begin
INSERT INTO Listing Values ((select Luser_id from Landlord where Email_id=@Email_id), @property_type, @Ad_title, @price, @availibilty, @Description, @street, @city, @postalcode, @legaldoc, @contract)

Select Last_Insert_id() INTO @Var
INSERT INTO Office values (@var, @size, @floor, @amenities, @parking, @capacity, @unit/-type, @others)
End;

Parse Query
Execute Query
Close connection to the database

ADD Images:
Inputs: @ List_id, @image
Outputs: None
Pseudocode: Connect to the database
Query = INSERT INTO Images Values(@List_id, image);
Parse Query
Execute Query
Close connection to the database

Search Residential Listing:
Inputs: @minprice, @maxprice, @availibilty, @street, @city, @unit_type, @bedroom
Outputs: @property_type, @Ad_title, @price, @availibilty, @Description, @street, @city, @postalcode, @legaldoc, @contract
@unit_type,@bedroom, @baths, @under_18, @pets, @utilities, @parking, @size

Pseudocode: Connect to the database
Query =

Select *
From Listing as L, Residential as R
Where L.availibilty=@availibility And
L.street=@street And
L.city=@city And
R.uniy_type= @unit_type And

R.bedroom=bedroom And
(L.price <= @maxprice And L.price >= @minprice));

Parse Query
Execute Query
Close connection to the database

Search Office Listing:
Inputs: @minprice, @maxprice, @availibilty, @street, @city, @unit_type,
Outputs: @property_type, @Ad_title, @price, @availibilty, @Description,
@street, @city, @postalcode, @legaldoc, @contract
@size, @floor, @amenities, @parking, @capacity, @unit/-type, @others
Pseudocode: Connect to the database
Query =
Select *
From Listing as L, Office as O
Where L.availibilty=@availibility And
L.street=@street And
L.city=@city And
O.uniy_type= @unit_type And
(L.price <= @maxprice And L.price >= @minprice));

Parse Query
Execute Query
Close connection to the database

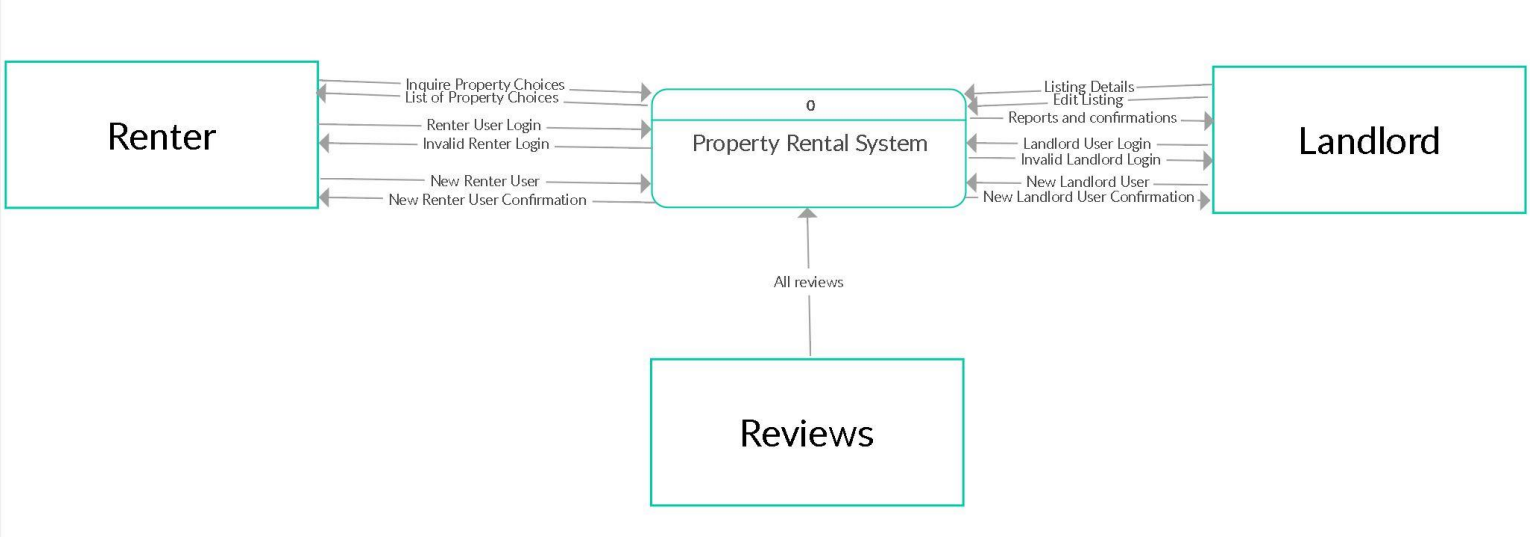
Save/fave Listing:
Inputs: @ List_id, @Ruser_id
Outputs: None
Pseudocode: Connect to the database
Query =
INSERT INTO Fave Values(@List_id, @Ruser_id);
Parse Query
Execute Query

Close connection to the database

Review/Rate:
Inputs: @ Luser_id, Ruser_id, Rate, Comment
Outputs: None
Pseudocode: Connect to the database
Query = INSERT INTO Review_Renters Values(@LUser_id, @Ruser_id, @Rate, @comment);
Parse Query
Execute Query
Close connection to the database

Data Flow Diagram

Context Diagram:



Level 0 Diagram: