**CSE 3055 PROJECT**

**STEP 2**

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1. Building: A building in the building complex. Block A for e.g.

Residence: Home, where people live, that is inside a Building entity.  
  
Person: Has three overlapping subtypes: Owner, Resident and Employee.  
  
Owner: Owner of the house (residence entity).  
  
Resident: Person who lives in the Residence entity. If Owner is the Resident, “rent” attribute is equal to 0.  
  
Employee: Doorman, accountant, manager, lawyer, technical support worker etc.

Expense: Supertype for all kinds of expenses. Has two disjointed subtypes: Bill and Other.

Bill: Bill’s are connected to the Resident, meaning whoever lives in the Residence gets the bill. Has 5 disjointed subtypes: Water, Electricity, Natural Gas, Internet, Due (Aidat)

Other: This one is connected to the Owner, represents things like construction works, renovations etc.

Water: Water bill

Electricity: Electricity bill

Natural Gas: Natural gas bill

Internet: Internet bill

Due: Aidat

Item : Common use items like security cameras, furnitures etc.

ParkingLot: Contains Car entities. Has 2 disjointed subtypes: Garage and Outdoor  
  
Garage: Closed area for parking cars.

OutdoorPark: Parking area for cars with LPG Fuel Type.

Car: Car owned by a resident.



* Adding/Removing a resident
* Adding/Removing an owner
* Adding/Removing a car
* Adding an expense
* Changing the due (aidat) amount
* Changing the owner/resident of a residence
* Changing/adding personal information
* Adjust employee salary



* Every household (Residence) can have 2 cars in the parking area maximum
* Cars with LPG FuelType are not admitted in Garage, those type of cars have another outdoor parking area
* Cars which are older than 20 years are not allowed to enter to Garage, those cars should also use the outdoor parking area either.



* Dues must be paid in 1 month, otherwise Resident gets a warning.
* Bills must be paid in 2 months, otherwise Resident gets a warning