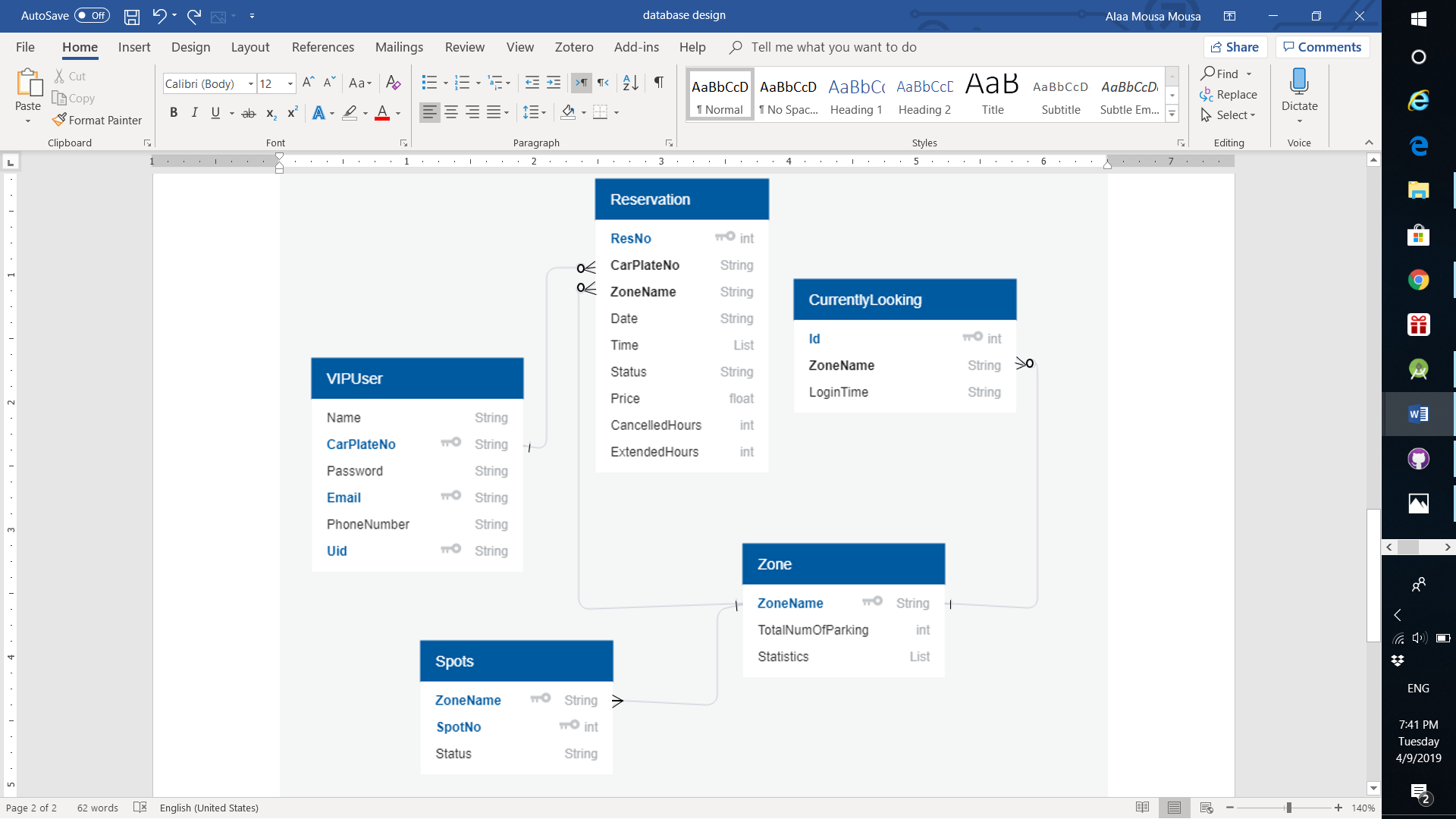
In the database design, the system stores information about 5 main components which are VIP User, Reservation, Parking area (Zone), Spot and Currently looking. The following figure illustrates the overall Entity Relationship diagram for the system:



From the above ER diagram, we can figure out the relationships that exist between each two entities:

* VIPUser has zero or many Reservation.
* Each Reservation belongs to one VIPUser.
* Each Reservation is associated with one Zone.
* Zone is associated with zero or many Reservation.
* Zone has zero or many CurrentlyLooking.
* Zone has many Spot.
* Each CurrentlyLooking belongs to one Zone.
* Each Spot is assigned to one zone.

We used ER diagram to help us to visualize the relations between entities however our database which is Firebase Realtime Database consider as a schema less database in which the data is stored in JSON format. Basically, the entire database is a big JSON tree with multiple nodes.

JSON syntax is derived from JavaScript object notation syntax:

* + Data is in name/value pairs
  + Data is separated by commas
  + Curly braces hold objects
  + Square brackets hold arrays (lists)

The following example illustrates how a reservation object stored in Firebase Realtime Database

{

"cancelledHours" : 0,

"carPlateNo" : "123",

"date" : "2019-04-13",

"extendedHours" : 0,

"price" : 5,

"resNo" : 841,

"status" : "ended",

"time" : [ 17, 18 ],

"uid" : "97 D1 34 83",

"zoneName" : "CBAE Female & Male Zone"

}