4.Data Design

4.1. Data Description

The information of my domain will come from frontend like a big structure and it will be processed and transformed into a structure (models) coresponding for each table. For example, the information about user will contain a lot of properties, like address which will have: street, number, buildin\_number which are processed like a BuildingModel , apartment\_number which is ApartementModel coresponding to apartment Entity and so on.

Why should we store the address like that ? Beacuse we don't want to store same data, that means data structures (to store data efficient).

The data will be stored in database using fast crud, dapper and linq, all this methods are specifical for C# and .Net Core and are the most used and efficient.

The database will look like the following diagram.



4.2 Data Dictionary

Our database will have the next entities:

-Apartment. Here we will have stored just data about apartment for the moment apartment\_number and references (primary keys) to building and the owner(user).

-Building. Here we will store the address of the building.

-Invoice. All the data coresponding to this entity will be particular and the reason is because we can’t split this entity in several entities.

-User. Here will store data particular for user.

-User\_Type. Because our application will have role, the type will help us to identify what we can do in the application.

We stored the data like that to make the storage process more efficient.

8.Appendices

<https://www.geeksforgeeks.org/data-structures/>

<https://en.wikipedia.org/wiki/Database>