

# Assignment 1

## Functional & Non-Functional Requirements

### **Functional Requirements**

- **F01** Properties List: essential requirement to store property details such as type, price, location, and more. (MUST)
- **F02** Clients List: Important to have a list that stores the client's contacts to be able to communicate with them. (MUST)
- **F03** Property Papers: storing the documentation papers of each property is essential as they can't be owned or sold without them. (MUST)
- **F04** Price History: helps in tracking market trends and let traders in decision making. (SHOULD)
- **F05** Transactions History: must store previous transactions, especially financial transactions. (Must)
- **F06** Neighborhood Data: clients may want to know about the area they will buy in to check that the community is suitable for them. (COULD)
- **F07** Photo Albums for Properties: clients demand to see the photos of the property they intend to buy before inspecting it. (MUST)

- **F08 Commission Calculation**: to have a specific system for the commission calculation that brokers gain when deals are sealed. (SHOULD)
- **F09 Agent Performance Tracker**: to be able to assess agents on their work and how many deals they sealed in a certain amount of time. (SHOULD)
- **F10 Rental Management**: can have a separate list than sales for managing rental deals as it has different features. (SHOULD)
- **F11 User Registration**: essential to let the user register through the system so the system can collect his data and know the permissions that can be given. (MUST)
- **F12 Searching Option**: allow the user to search for features needed the choices can be filtered. (MUST)
- **F13 Properties Data Management**: essential requirement to store property details such as type, price, location, and more.
- **F14 Property Maintenance Record**: may keep a record of maintenance, especially for long-term management. (COULD)
- **F15 Ownership History Record**: could keep a list of previous owners of each property, that may help you to sell them units in the future as there is a high probability that they look for other units in the future. (COULD)
- **F16 Feedback**: Important to keep past reviews so it helps in improving the system in the future. (SHOULD)

- **F17 Notification Management**: keep alerting customers with new deals and prices as a way of marketing. (SHOULD)
- **F18 Favorite Listing**: Let users be able to save properties in favorites part so they can check later. (COULD)
- **F19 Property Value List**: keep an updated list of the values of each property at the moment to determine whether it is a bargain or over-priced. (COULD)
- **F20 User Role Management**: let the system be able to differentiate between roles to allow certain permissions to specific users. (MUST)

### **Non-Functional Requirements**

- **N01 Security**: secure access to sensitive information must be ensured to avoid fraud and data theft. (MUST)
- **N02 Performance**: response time of the database must not be much. (MUST)
- **N03 Backups**: recovery of data must be ensured if it is lost so backups have to be taken frequently from all data. (MUST)
- **N04 Language**: system must support different languages and areas to be able to use it. (SHOULD)
- **N05 Scalability**: to have a scalable database that can handle increasing amounts of data. (MUST)