E-R Model

Agent Table : (cardinalities : one to many (with apartment))
Agent id (int) (primary key)
Agent Name varchar(),
Agent Contact Number
Area varchar() unique,

Apartments Table : (cardinalities : many to one (agent) many to one (seller))
Address
Apartment Id (primary key)
Area (foreign key references AGENT)
Apartment Type (rent or sale)// R S
Availability (Default Available)
No. of bedrooms
Size

Seller Table : (one to many (apartment))
Seller id
Seller name
Apartment id (foreign key references Apartment) (Unique)
Expected Price

Buyer table : (many to one (apartment))
Buyer id (primary key)
Buyer name
Budget
Preferred area (foreign key references AGENT)
Apartment Type (Default Rent)
Apartment Size
Number of rooms (Default 1)

Purchased Table :
Buyer id
Seller id
Agent id
apartment id
Price
Date of Purchase

Assumptions

1. There will be only and only one agent for a particular area in the city.
2. Every agent will be allotted with one area. No agent will handle more than one area.
3. An Apartment can be given either for sale or for the rent but not both.
4. Apartments that are sold once will not be taken into account again.
5. The buyer can buy or take on rent only one apartment at a time.
6. Apartments that are rented once can be rented again after the availability update by the seller.
7. Sellers will be allowed to update the Apartment type from rent to sale only if the apartment availability is updated.
8. The price provided by the seller for house rent will be monthly.

User Interface

Page 1 :

   Corner (login) (Link to page 2)

   Search homes (button) (form page)(link to page 2)

   Sell homes (button) (link page 2)

Page 2 :

   Login and Password (agent,buyer,seller)

   New here ? Create Account (page 3)

  If seller (page 5 link)

  If buyer (page 13 link)

  If agent (page 9 link)

Page 3 :

Seller(6) or buyer (4)

Page 4 :

 A Form for the requirements and then continue button (page 8)

Page 5 :

 Apartment Details (page 12 link sends seller id)

 register apartment (buttons) (page 6)

(Contact agent button) (link to page 7)

Page 6 :(apartment id = last id +1)

Form with details of the apartment should be filled by the seller.

 (Dashboard) (link to page 5)

 Page 7 : (area)

 Show contact details of agent (back to their home page after here)

 Page 5 (for seller)

 Page 13 (for buyer)

Page 8 : (buyer id)

    Homes acc to his requirements

    Contact agent (button) (page 7 link)

    Go to dashboard (or Back Button)(page 13)

Page 9 : two buttons

  Update Apartment (change rent to sale) (link to page 10)

  Add update and apartment deal (add to purchase table) (link to page 11)

Page 10 :

  Seller id and apartment id input taken and updated values taken by agent only if agent belong to his/her area (price and apt_type only)

Page 11 :

  A form to take all inputs regarding the sale done by the agent.

Page 12 : (seller id)

  Display details of seller apartments and a back button

Page 13 : (buyer id)

  Contact agent button (link to page 7)

  Update requirements (link to page 4)

  Home checkout (button) (link to page 8)

  Page 7, 8 ,9   (Shivam Sahu)

  Page 3,4,6,11   (Mritunjay Kumar)

  Page 1,2,13   (Ankit Singh)

  Page 10,12,5   (Om Prakash)