Property Management System

BTech/II Year CSE/ III Semester

19CSE202/Database Management Systems

Team no: 11

Team name: METROPLEX

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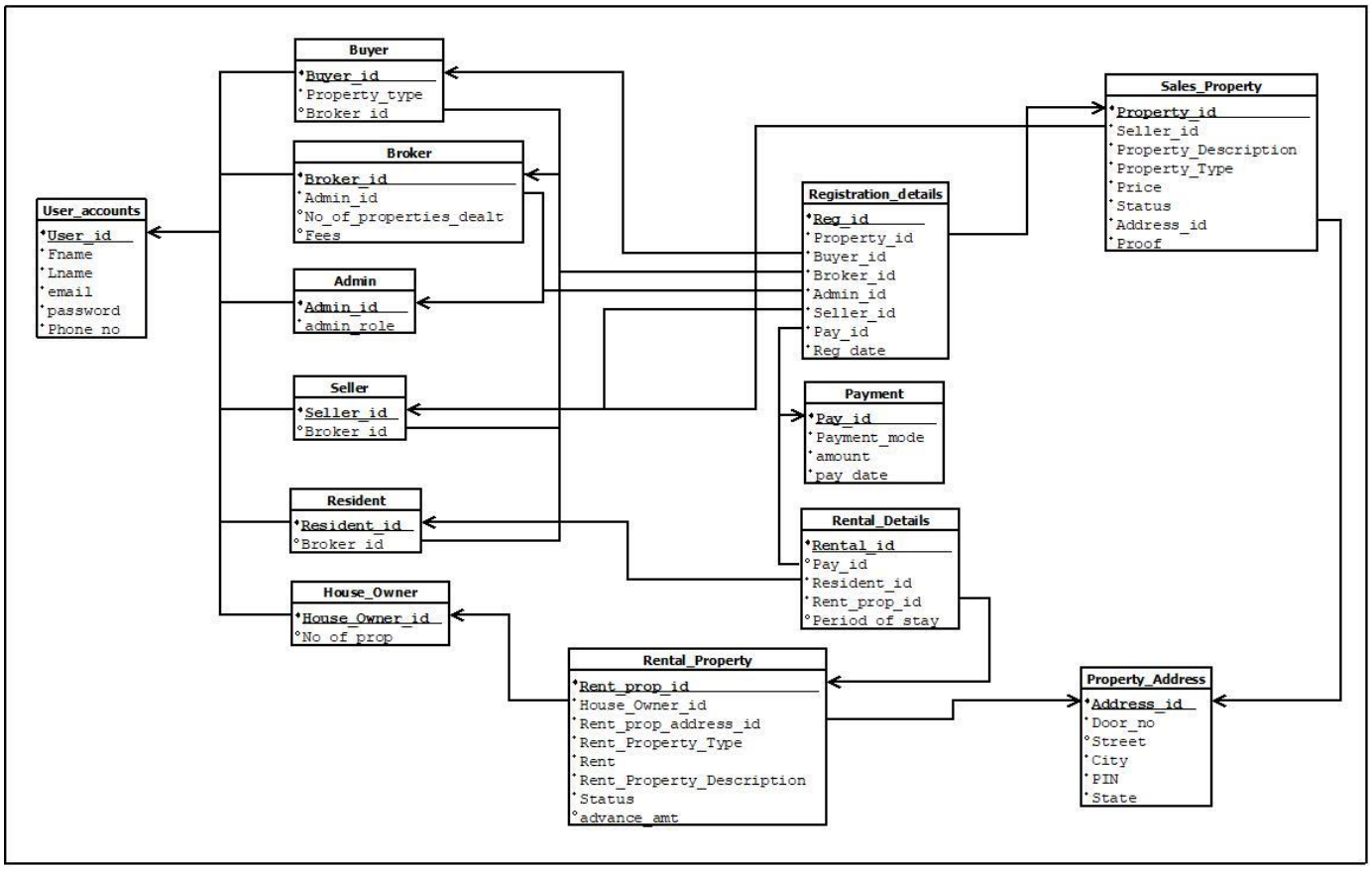
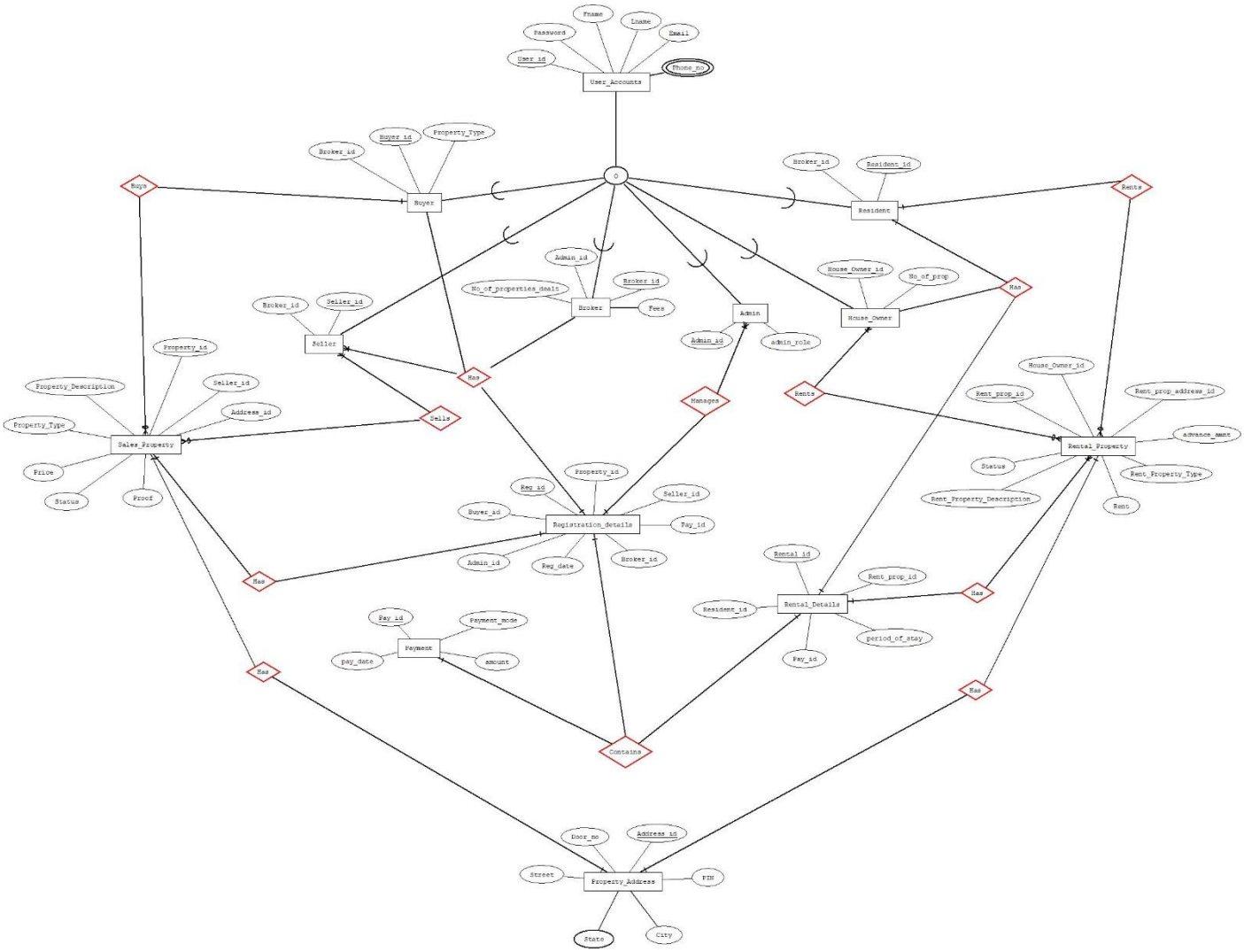
Schema Diagram:



ER-Diagram: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Has
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Payment_mode
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Payment
amount
Has
Has
Contains
Door_no
Address_id
Street
Property_Address
PIN
State
City

Relational Schema before normalization:

- **User_accounts** (User_id, email, password, Fname, Lname, Phone_no)
- **Broker** (Broker_id, Admin_id, No_of_properties_dealt, Fees)
- **Admin** (Admin_id, admin_role)
- **Sales_Property** (Property_id, Seller_id, property_description, property_type, status, price, Proof, address_id)
- **House_Owner** (House_Owner_id, No_of_prop)
- **Rental_Property** (Rent_prop_id, House_owner_id, rent_property_desrcription, Rent_property_type, rent, status, rent_prop_address_id, advance_amnt)
- **Buyer** (Buyer_id, property type, broker_id)
- **Registration_details** (Reg_id, Property_id, Seller_id, Buyer_id, Admin_id, Pay_id, Broker_id, Reg_date)
- **Resident** (resident_id, broker_id)
- **Rental_Details** (rental_id, rent_prop_id, resident_id, period_of_stay, pay_id)
- **Seller** (Seller_id, Broker_id)
- **Property_Address** (Address_id, Door_no, Street, PIN, City, State)
- **Payment** (Pay_id, Payment_mode, amount, pay_date)

Normalization

Schema before nomalization:

Master_table (User_Id, Fname, Lname, email, password, Phone_no, Admin_Id, Admin role, Broker_id, fees, No_of_prop_dealt, Seller_id, Property_id, Broker_id, Buyer_id, Property_type, Broker_id, House_owner_id, No_of_prop, Resident_id, Broker_id, Property_id, Seller_id,Property_description, Property_type, Status, Price,Proof, Address_id, Rental_propid, House_owner_id, Property_description, Property_type, Rent, Status, Address_id, Address_id,Door_no, Street, City, State, PIN, Rental_id,Rent_propid, Resident_id, Period_of_stay, Advance_amnt, Pay_id,

Reg_id, Property_id, Seller_id,Buyer_id, Admin_id, Broker_id, Pay_id, Reg_date, Pay_id, Payment_mode, Amount, Pay_date)

1NF:

- In 1st NF we remove non-atomic attributes, redundant attributes from the master table .
- Here "Phone_no" is a non-atomic attribute(multi-valued) , So we separate "Phone_no" as a separate table with "user_id" to identify the "Phone_no".
- **Phone**(User_id,phone_no)

  User_id --> Phone_no

Before 1NF:

USER_ID	EMAIL	PASSWORD	FNAME	LNAME	PHONE_NO
AD01	kabilannagarajan@gmail.com	kabilankab	Kabilan	Nagarajan	9942457552,8144523322
AD02	pradeepprabhakaran@gmail.com	PradepP	Pradeep	Prabhakaran	9442667767
BR101	rajkumar@gmail.com	Rajk2020cheems	Raj	Kumar	9837478938,9458294789
BR102	nithinkumarb@gmail.com	Nithindomar	Nithin	Kumar	8903060698,9786450981
S1201	karishram@gmail.com	Karish111	Karish	Ram	8729117782

Download CSV

5 rows selected.

After 1NF:

USER_ID	EMAIL	PASSWORD	FNAME	LNAME
AD01	kabilannagarajan@gmail.com	kabilankab	Kabilan	Nagarajan
AD02	pradeepprabhakaran@gmail.com	PradepP	Pradeep	Prabhakaran
BR101	rajkumar@gmail.com	Rajk2020cheems	Raj	Kumar
BR102	nithinkumarb@gmail.com	Nithindomar	Nithin	Kumar
S1201	karishram@gmail.com	Karish111	Karish	Ram

Download CSV

5 rows selected.

USER_ID	PHONE_NO
AD01	9942457552
AD01	8144523322
AD02	9442667767
BR101	9837479838
BR101	9458294789
BR102	8903060698
BR102	9786450981
S1201	8729117782

Download CSV

8 rows selected.

Functional Dependencies after 1NF:

- User_id --> email,password,Fname,Lname
- Email --> User_id,password,Fname,Lname
- Broker_id --> admin_id,fees,no_of_properties_dealt
- Admin_id --> admin_role
- Property_id --> seller_id, property_description, property_type, status, price, Proof, address_id.
- Rent_prop_id, House_Owner_id --> House_owner_id, rent_property_desrcription, Rent_property_type, rent, status, rent_prop_address_id, No_of_prop
- Address_id --> door_no,street,city,state,PIN
- rental_id, resident_id --> rent_prop_id, resident_id, period_of_stay, advance_amnt, pay_id, broker_id
- Reg_id, Buyer_id --> Property_id, Seller_id, Buyer_id, Admin_id, Pay_id, Broker_id, Reg_date, property type,broker_id.
- Pay_id --> Payment_mode,amount,pay_date
- Seller_id --> broker_id,no_of_prop.

2NF:

Partial Dependencies:

RENTALHOUSEOWNER:

- Rent_prop_id, House_Owner_id -->rent_property_desrcription, Rent_property_type, rent, status, rent_prop_address_id, No_of_prop
  House_Owner_id --> No_of_prop is a partial Dependency

New Schema:

House_Owner (House_Owner_id, No_of_prop)

Rental_Property(Rent_prop_id, House_owner_id, rent_property_desrcription, Rent_property_type, rent, status, rent_prop_address_id)

Before 2NF:

RENT_PROP_ID	HOUSE_OWNER_ID	RENT_PROPERTY_DESRCRIPTION	RENT_PROPERTY_TYPE	RENT	STATUS	RENT_PROP_ADDRESS_ID	ADVANCE_AMNT
RPR101	H1105	2BHK	Independent House	10000	Available	ADR14	1000
RPR102	H1102	2BHK	Apartment	15000	Occupied	ADR15	5000

Download CSV

2 rows selected.

After 2NF:

RENT_PROP_ID	HOUSE_OWNER_ID	RENT_PROPERTY_DESRCRIPTION	RENT_PROPERTY_TYPE	RENT	STATUS	RENT_PROP_ADDRESS_ID	ADVANCE_AMNT
RPR101	H1105	2BHK	Independent House	10000	Available	ADR14	1000
RPR102	H1102	2BHK	Apartment	15000	Occupied	ADR15	5000

Download CSV

2 rows selected.

HOUSE_OWNER_ID	NO_OF_PROP
H1102	3
H1105	1

Download CSV

2 rows selected.

REGISTRATIONBUYER:

- Reg_id, Buyer_id --> Property_id, Seller_id, Buyer_id, Admin_id, Pay_id, Broker_id, Reg_date, property type,broker_id.

  Buyer_id --> property type is a partial dependency

New Schema:

Buyer(Buyer_id, property type, broker_id)

Registration(Reg_id, Property_id, Seller_id, Buyer_id, Admin_id, Pay_id, Broker _id, Reg_date)

Before 2NF:

REG_ID	BUYER_ID	PROPERTY_ID	SELLER_ID	ADMIN_ID	PAY_ID	BROKER_ID	REG_DATE	PROPERTY_TYPE
REG01	PR121	S1201	B1120	AD02	PAY001	BR101	10-DEC-21	Independent Villa

Download CSV

After 2NF:

REG_ID	PROPERTY_ID	SELLER_ID	BUYER_ID	ADMIN_ID	PAY_ID	BROKER_ID	REG_DATE
REG01	PR121	S1201	B1120	AD02	PAY001	BR101	10-DEC-21

Download CSV

1 row(s) inserted.

BUYER_ID	PROPERTY_TYPE	BROKER_ID
B1120	Independent Villa	BR101
B1121	Apartment	BR102

Download CSV

2 rows selected.

RENTALRESIDENT:

- rental_id,resident_id --> rent_prop_id, resident_id, period_of_stay, advance_amnt, pay_id, broker_id
- resident_id --> broker_id is a partial dependency

New Schema:

- **Resident**(resident_id, broker_id)
- **Rental_Details**(rental_id,rent_prop_id,resident_id,period_of_stay,advance_amnt,pay_id)

Before 2NF:

RENTAL_ID	RESIDENT_ID	RENT_PROP_ID	PERIOD_OF_STAY	ADVANCE_AMNT	PAY_ID	BROKER_ID
R122	RES101	RPR101	1 MONTH	1000	PAY110	BR101
R122	RES102	RPR102	3 MONTH	5000	PAY111	BR101

Download CSV

After 2NF:

RESIDENT_ID	BROKER_ID
RES101	BR101
RES102	BR101

Download CSV

2 rows selected.

RENTAL_ID	RENT_PROP_ID	RESIDENT_ID	PERIOD_OF_STAY	PAY_ID
R122	RPR101	RES101	1 Month	PAY110
R123	RPR102	RES102	3 Month	PAY111

Download CSV

2 rows selected.

After 2NF Decomposition:

- **User_accounts** (User_id, email, password, Fname, Lname)
- **Phone** (User_id, Phone_no)
- **Broker** (Broker_id, Admin_id, Fees, No_of_properties_dealt)
- **Admin** (Admin_id, admin_role)
- **Sales_Property** (Property_id, Seller_id, property_description, property_type, status, price, Proof, address_id)
- **House_Owner** (House_Owner_id, No_of_prop)
- **Rental_Property** (Rent_prop_id, House_owner_id, rent_property_desrcription, Rent_property_type, rent,
status, rent_prop_address_id, advance_amnt)
- **Buyer** (Buyer_id, property type, broker_id)
- **Registration_details** (Reg_id, Property_id, Seller_id, Buyer_id, Admin_id, Pay_id, Broker_id, Reg_date)
- **Resident** (resident_id, broker_id)
- **Rental_Details** (rental_id, rent_prop_id, resident_id, period_of_stay, pay_id)
- **Seller** (Seller_id, Broker_id)
- **Property_address** (Address_id, Door_no, Street, City, State, PIN)
- **Payment** (Pay_id, Payment_mode, amount, pay_date)

3NF:

Broker_id --> No_of_properties_dealt
No_of_properties_dealt --> Fees

- Here, Fees is transitively dependent on Broker_id. It violates the third normal form. To convert it in third normal form, we will decompose the relation as follows:
- **Broker** (Broker_id, Admin_id, No_of_properties_dealt)
- **Broker_Fees** (No_of_properties_dealt, Fees)

Before 3NF:

BROKER_ID	ADMIN_ID	NO_OF_PROPERTIES_DEALT	FEES
BR102	AD02	3	1500
BR101	AD01	4	2000

Download CSV
2 rows selected.

After 3NF:

BROKER_ID	ADMIN_ID	NO_OF_PROPERTIES_DEALT
BR101	AD01	4
BR102	AD02	3

Download CSV
2 rows selected.

NO_OF_PROPERTIES_DEALT	FEES
4	2000
3	1500

Download CSV
2 rows selected.

Address_id --> PIN
PIN --> City,State (NPA --> NPA)

- Here, City and State is transitively dependent on Address_id. PIN determines City and State(NPA --> NPA). Hence, it violates the third normal form. To convert it in third normal form, we will decompose the relation as follows:
- **Property_Address** (Address_id, Door_no, Street, PIN)
- **Prop_Citystate** (PIN, City, State)

Before 3NF:

ADDRESS_ID	DOOR_NO	STREET	PIN	CITY	STATE
ADR01	20	Baker’s Street	620001	Trichy	Tamil Nadu
ADR02	7	Super Bazar Market	620014	Trichy	Tamil Nadu
ADR12	21	Laxmi Plaza	600028	Chennai	Tamil Nadu
ADR13	45	Vashisth Complex	500041	Hyderabad	Telangana
ADR14	18	Balanagar	110049	South Delhi	Delhi
ADR15	333	Krystal Avenue	400053	Mumbai	Maharastra

Download CSV

6 rows selected.

After 3NF:

ADDRESS_ID	DOOR_NO	STREET	PIN
ADR01	20	Baker’s Street	620001
ADR02	7	Super Bazar Market	620014
ADR12	21	Laxmi Plaza	600028
ADR13	45	Vashisth Complex	500041
ADR14	18	Balanagar	110049
ADR15	333	Krystal Avenue	400053

Download CSV

6 rows selected.

PIN	CITY	STATE
620001	Trichy	Tamil Nadu
620014	Trichy	Tamil Nadu
600028	Chennai	Tamil Nadu
500041	Hyderabad	Telangana
110049	South Delhi	Delhi
400053	Mumbai	Maharastra

Download CSV

6 rows selected.

After 3NF Decomposition:

- **User_accounts** (User_id, email, password, Fname, Lname)
- **Phone** (User_id, Phone_no)
- **Broker** (Broker_id, Admin_id, No_of_properties_dealt)
- **Broker_Fees** (No_of_properties_dealt, Fees)
- **Admin** (Admin_id, admin_role)
- **Sales_Property** (Property_id, Seller_id, property_description, property_type, status, price, Proof, address_id)
- **House_Owner** (House_Owner_id, No_of_prop)

- **Rental_Property** (Rent_prop_id, House_owner_id, rent_property_desrcription, Rent_property_type, rent, status, rent_prop_address_id, advance_amnt)
- **Buyer** (Buyer_id, property type, broker_id)
- **Registration_details** (Reg_id, Property_id, Seller_id, Buyer_id, Admin_id, Pay_id, Broker_id, Reg_date)
- **Resident** (resident_id, broker_id)
- **Rental_Details** (rental_id, rent_prop_id, resident_id, period_of_stay, pay_id)
- **Seller** (Seller_id, Broker_id)
- **Property_Address** (Address_id, Door_no, Street, PIN)
- **Prop_Citystate** (PIN, City, State)
- **Payment** (Pay_id, Payment_mode, amount, pay_date)

BCNF

- **As you can see that in the above functional dependencies, there is no F.D in which a non-super key determines a prime attribute. The super key determines other attributes. So it is already in BCNF.**

Creation of table:

- create table user_accounts(user_id varchar(30) primary key, email varchar(30), password varchar(20), Fname varchar(30), Lname varchar(30));
- create table Admin(Admin_id varchar(20), admin_role varchar(20), foreign key(Admin_id) references user_accounts(user_id));
- create table Broker(Broker_id varchar(20) primary key , Admin_id varchar(20), foreign key(Admin_id) references user_accounts(user_id), No_of_properties_dealt int);

- create table Broker_fees(No_of_properties_dealt int , Fees int);
- create table Seller (Seller_id varchar(20) primary key, Broker_id varchar(20), foreign key(Broker_id) references Broker(Broker_id));
- create table Buyer (Buyer_id varchar(20) primary key, property_type varchar(20), Broker_id varchar(20), foreign key(Broker_id) references Broker(Broker_id));
- create table House_Owner (House_Owner_id varchar(20) primary key, No_of_prop int);
- create table Resident (resident_id varchar(20) primary key, Broker_id varchar(20), foreign key(Broker_id) references Broker(Broker_id));
- create table Property_Address (Address_id varchar(20) primary key, Door_no int, Street varchar(20), PIN int);
- create table Payment (Pay_id varchar(20) primary key, Payment_mode varchar(20), amount int, pay_date DATE);
- create table Sales_Property(Property_id varchar(20) primary key, Seller_id varchar(20) , foreign key(Seller_id) references Seller(Seller_id), property_description varchar(50), property_type varchar(50), status varchar(50), price int, Proof varchar(20), Address_id varchar(20), foreign key(Address_id) references Property_Address(Address_id));
- create table Rental_Property (Rent_prop_id varchar(20) primary key, House_Owner_id varchar(20), foreign key(House_Owner_id) references House_Owner(House_Owner_id), rent_property_desrcription varchar (50), Rent_property_type varchar(30), rent int, status varchar(20), rent_prop_address_id varchar(20), foreign key(rent_prop_address_id) references Property_Address(Address_id), advance_amnt int);
- create table Registration_details (Reg_id varchar(20) primary key, Property_id varchar(20), foreign key(Property_id)

references Sales_Property(Property_id), Seller_id varchar(20), foreign key(Seller_id) references Seller(Seller_id) , Buyer_id varchar(20), foreign key(Buyer_id) references Buyer(Buyer_id), Admin_id varchar(20), foreign key(Admin_id) references user_accounts(user_id), Pay_id varchar(20), foreign key(Pay_id) references Payment(Pay_id), Broker_id varchar(20), foreign key(Broker_id) references Broker(Broker_id), Reg_date DATE);

- create table Rental_Details (rental_id varchar(20) primary key, Rent_prop_id varchar(20), foreign key(Rent_prop_id) references Rental_Property(Rent_prop_id), resident_id varchar(20), foreign key(resident_id) references Resident(resident_id), period_of_stay varchar(20), Pay_id varchar(20), foreign key(Pay_id) references Payment(Pay_id));
- create table Prop_Citystate (PIN int, City varchar(20), State varchar(20));
- create table Phone (user_id varchar(20),phone_no int,foreign key(user_id) references user_accounts(user_id));

Insertion of values:

1. **User Accounts:**

   insert into user_accounts values ('AD01', 'kabilannagarajan@gmail.com', 'kabilankab', 'Kabilan', 'Nagarajan');
   insert into user_accounts values ('AD02', 'pradeepprabhakaran@gmail.com', 'PradepP', 'Pradeep', 'Prabhakaran');
   insert into user_accounts values ('BR101', 'rajkumar@gmail.com','Rajk2020cheems', 'Raj' , 'Kumar');

```
insert into user_accounts values ('BR102',
'nithinkumarb@gmail.com' ,'Nithindomar', 'Nithin',
'Kumar');
insert into user_accounts values ('S1201',
'karishram@gmail.com', 'Karish111', 'Karish', 'Ram');
insert into user_accounts values ('S1202',
'dineshsuriya23@gmail.com', 'Droider007', 'Dinesh',
'Suriya');
insert into user_accounts values ('S1203',
'ravikumar@gmail.com', 'ravi009', 'Ravi', 'Kumar');
insert into user_accounts values ('H1102',
'haarisasuke@gmail.com', 'SasukeSS21', 'Sri', 'Haari');
insert into user_accounts values ('H1105',
'pranavkumarb@gmail.com', 'EviK32', 'Pranav', 'Kumar');
insert into user_accounts values ('B1120',
'bajanlalcheems@gmail.com', 'LalBajan2', 'Bajan', 'Lal');
insert into user_accounts values ('B1121',
'rachinravindra@gmail.com', 'RAchiNRavI', 'Rachin',
'Ravindra');
select*from user_accounts;
```

USER_ID	EMAIL	PASSWORD	FNAME	LNAME
AD01	kabilannagarajan@gmail.com	kabilankab	Kabilan	Nagarajan
AD02	pradeepprabhakaran@gmail.com	PradepP	Pradeep	Prabhakaran
BR101	rajkumar@gmail.com	Rajk2020cheems	Raj	Kumar
BR102	nithinkumarb@gmail.com	Nithindomar	Nithin	Kumar
S1201	karishram@gmail.com	Karish111	Karish	Ram
S1202	dineshsuriya23@gmail.com	Droider007	Dinesh	Suriya
S1203	ravikumar@gmail.com	ravi009	Ravi	Kumar
H1102	haarisasuke@gmail.com	SasukeSS21	Sri	Haari
H1105	pranavkumarb@gmail.com	EviK32	Pranav	Kumar
B1120	bajanlalcheems@gmail.com	LalBajan2	Bajan	Lal
B1121	rachinravindra@gmail.com	RAchiNRavI	Rachin	Ravindra

Download CSV

11 rows selected.

2. Admin:

```
INSERT INTO Admin VALUES ('AD01', 'Ad001');
INSERT INTO Admin VALUES ('AD02','Ad002');
select*from Admin;
```

ADMIN_ID	ADMIN_ROLE
AD01	Ad001
AD02	Ad002

Download CSV

2 rows selected.

3. Broker:

```
insert into Broker values('BR101', 'AD01', 4);
insert into Broker values('BR102', 'AD02', 3);
```

select*from Broker;

BROKER_ID	ADMIN_ID	NO_OF_PROPERTIES_DEALT
BR101	AD01	4
BR102	AD02	3

Download CSV

2 rows selected.

4. Broker fees:

insert into Broker_fees values(4,2000);

insert into Broker_fees values(3,1500);

select*from Broker_fees;

NO_OF_PROPERTIES_DEALT	FEES
4	2000
3	1500

Download CSV

2 rows selected.

5. Seller:

insert into Seller values('S1201', 'BR101');

insert into Seller values('S1202', 'BR102');

insert into Seller values('S1203', 'BR101');

select*from Seller;

SELLER_ID	BROKER_ID
S1201	BR101
S1202	BR102
S1203	BR101

Download CSV

3 rows selected.

6. Buyer:

insert into Buyer values('B1120', 'Independent Villa', 'BR101');

insert into Buyer values('B1121', 'Apartment', 'BR102');

select*from Buyer;

BUYER_ID	PROPERTY_TYPE	BROKER_ID
B1120	Independent Villa	BR101
B1121	Apartment	BR102

Download CSV

2 rows selected.

7. House_Owner:

INSERT INTO House_Owner VALUES ('H1102', 3);

INSERT INTO House_Owner VALUES ('H1105', 1);

select*from House_Owner;

HOUSE_OWNER_ID	NO_OF_PROP
H1102	3
H1105	1

Download CSV

2 rows selected.

8. Resident:

insert into Resident values('RES101','BR101');

insert into Resident values('RES102','BR101');

select*from Resident;

RESIDENT_ID	BROKER_ID
RES101	BR101
RES102	BR101

Download CSV

2 rows selected.

9. Property_address:

insert into Property_Address values('ADR01', 20, 'Baker’s Street', 620001);

insert into Property_Address values('ADR02', 7, 'Super Bazar Market', 620014);

insert into Property_Address values('ADR12', 21, 'Laxmi Plaza', 600028);

insert into Property_Address values('ADR13', 45, 'Vashisth Complex', 500041);

insert into Property_Address values('ADR14', 18, 'Balanagar', 110049);

insert into Property_Address values('ADR15', 333, 'Krystal Avenue', 400053);

select*from Property_Address;

ADDRESS_ID	DOOR_NO	STREET	PIN
ADR01	20	Baker's Street	620001
ADR02	7	Super Bazar Market	620014
ADR12	21	Laxmi Plaza	600028
ADR13	45	Vashisth Complex	500041
ADR14	18	Balanagar	110049
ADR15	333	Krystal Avenue	400053

Download CSV

6 rows selected.

10. Payment:

insert into Payment values('PAY001',' Cheque', 8000000, '10-DEC-2021');

insert into Payment values('PAY110', 'Cash', 10000, '05-DEC-2021');

insert into Payment values('PAY111', 'Cash', 15000, '16-DEC-2021');

select*from Payment;

PAY_ID	PAYMENT_MODE	AMOUNT	PAY_DATE
PAY001	Cheque	8000000	10-DEC-21
PAY110	Cash	10000	05-DEC-21
PAY111	Cash	15000	16-DEC-21

Download CSV

3 rows selected.

11. Sales_Property:

insert into Sales_Property values('PR120', 'S1201', '2BHK', 'Villa', 'Available', 4000000, 'YES', 'ADR01');

insert into Sales_Property values('PR121', 'S1201', '3BHK', 'Villa', 'Sold', 8000000, 'YES', 'ADR02');

insert into Sales_Property values('PR122', 'S1202', '2BHK', 'Appartment', 'Available', 6000000, 'YES', 'ADR12');

insert into Sales_Property values('PR123', 'S1203', '2BHK', 'Appartment', 'Available', 5000000, 'YES', 'ADR13');

select*from Sales_Property;

PROPERTY_ID	SELLER_ID	PROPERTY_DESCRIPTION	PROPERTY_TYPE	STATUS	PRICE	PROOF	ADDRESS_ID
PR120	S1201	2BHK	Villa	Available	4000000	YES	ADR01
PR121	S1201	3BHK	Villa	Sold	8000000	YES	ADR02
PR122	S1202	2BHK	Appartment	Available	6000000	YES	ADR12
PR123	S1203	2BHK	Appartment	Available	5000000	YES	ADR13

Download CSV

4 rows selected.

12. Rental_Property:

insert into Rental_Property values('RPR101', 'H1105', '2BHK', 'Independent House', 10000, 'Available', 'ADR14',1000);

insert into Rental_Property values('RPR102','H1102', '2BHK', 'Apartment', 15000, 'Occupied', 'ADR15',5000);

select*from Rental_Property;

RENT_PROP_ID	HOUSE_OWNER_ID	RENT_PROPERTY_DESRCRIPTION	RENT_PROPERTY_TYPE	RENT	STATUS	RENT_PROP_ADDRESS_ID	ADVANCE_AMNT
RPR101	H1105	2BHK	Independent House	10000	Available	ADR14	1000
RPR102	H1102	2BHK	Apartment	15000	Occupied	ADR15	5000

Download CSV
2 rows selected.

13. Registration_details:

insert into Registration_details values('REG01', 'PR121', 'S1201', 'B1120', 'AD02', 'PAY001', 'BR101', '10-DEC-2021');

select*from Registration_details;

REG_ID	PROPERTY_ID	SELLER_ID	BUYER_ID	ADMIN_ID	PAY_ID	BROKER_ID	REG_DATE
REG01	PR121	S1201	B1120	AD02	PAY001	BR101	10-DEC-21

Download CSV

1 row(s) inserted.

14. Rental_details:

insert into Rental_Details values('R122', 'RPR101', 'RES101', '1 Month', 'PAY110');

insert into Rental_Details values('R123', 'RPR102', 'RES102', '3 Month', 'PAY111');

select*from Rental_Details;

RENTAL_ID	RENT_PROP_ID	RESIDENT_ID	PERIOD_OF_STAY	PAY_ID
R122	RPR101	RES101	1 Month	PAY110
R123	RPR102	RES102	3 Month	PAY111

Download CSV
2 rows selected.

15. Prop_citystate:

insert into Prop_Citystate values(620001, 'Trichy', 'Tamil Nadu');

```
insert into Prop_Citystate values(620014, 'Trichy', 'Tamil Nadu');

insert into Prop_Citystate values(600028, 'Chennai', 'Tamil Nadu');

insert into Prop_Citystate values(500041, 'Hyderabad', 'Telangana');

insert into Prop_Citystate values(110049, 'South Delhi', 'Delhi');

insert into Prop_Citystate values(400053, 'Mumbai', 'Maharastra');

select*from Prop_Citystate;
```

PIN	CITY	STATE
620001	Trichy	Tamil Nadu
620014	Trichy	Tamil Nadu
600028	Chennai	Tamil Nadu
500041	Hyderabad	Telangana
110049	South Delhi	Delhi
400053	Mumbai	Maharastra

Download CSV

6 rows selected.

16. Phone:

```
insert into Phone values ('AD01',9942457552);

insert into Phone values ('AD01',8144523322);
```

```
insert into Phone values ('AD02',9442667767);
insert into Phone values ('BR101',9837479838);
insert into Phone values ('BR101',9458294789);
insert into Phone values ('BR102',8903060698);
insert into Phone values ('BR102',9786450981);
insert into Phone values ('S1201',8729117782);
select*from Phone
```

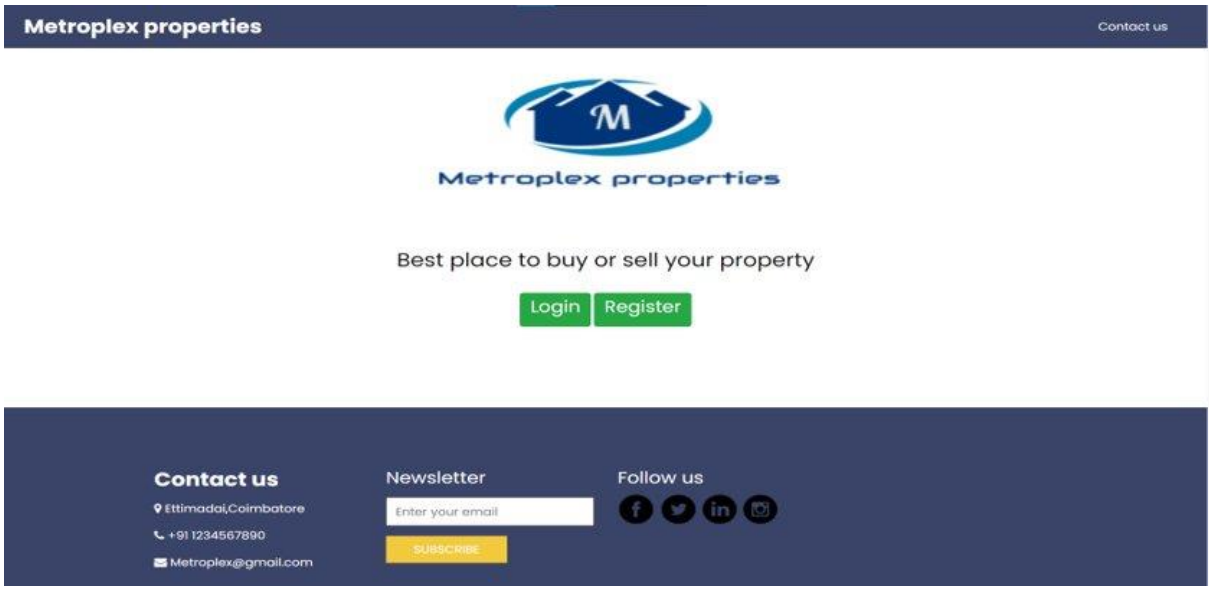
USER_ID	PHONE_NO
AD01	9942457552
AD01	8144523322
AD02	9442667767
BR101	9837479838
BR101	9458294789
BR102	8903060698
BR102	9786450981
S1201	8729117782

Download CSV

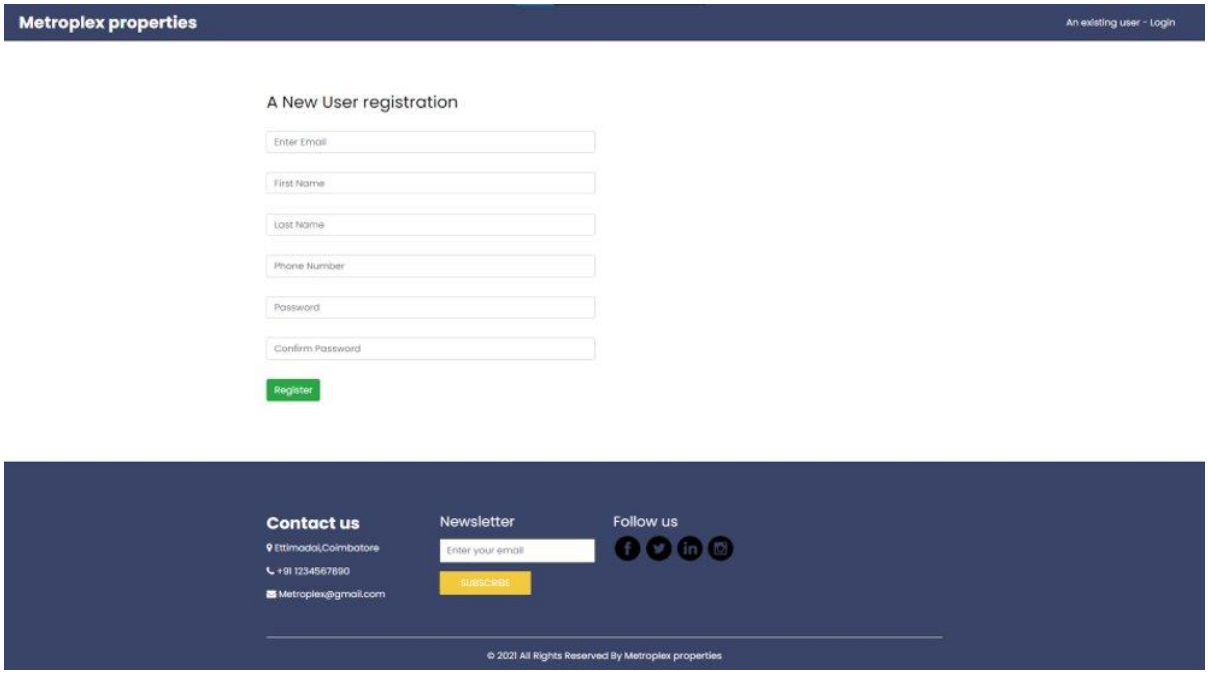
8 rows selected.

Sample user interface design screens

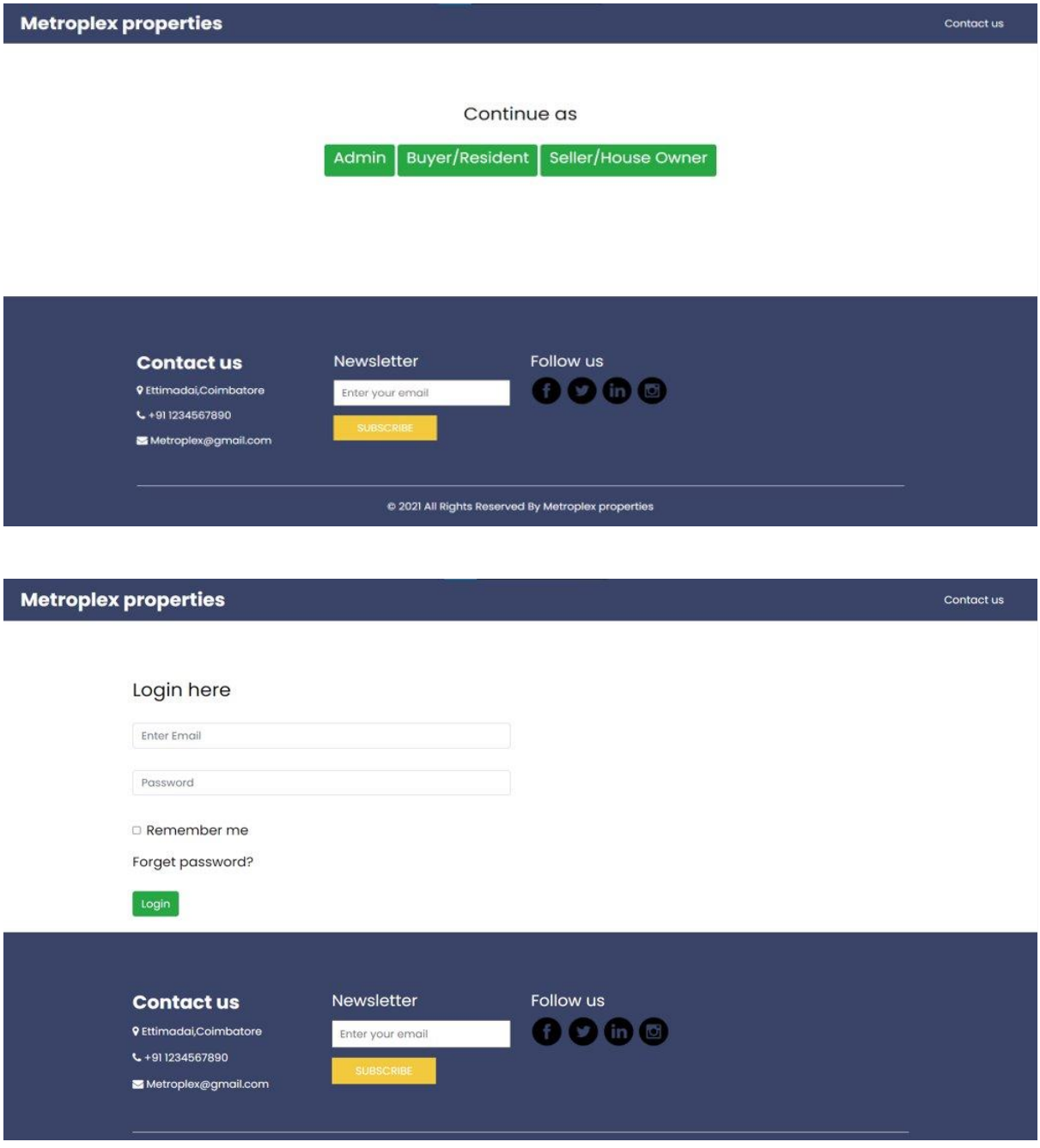
Home page:



User Registration:



Login Page: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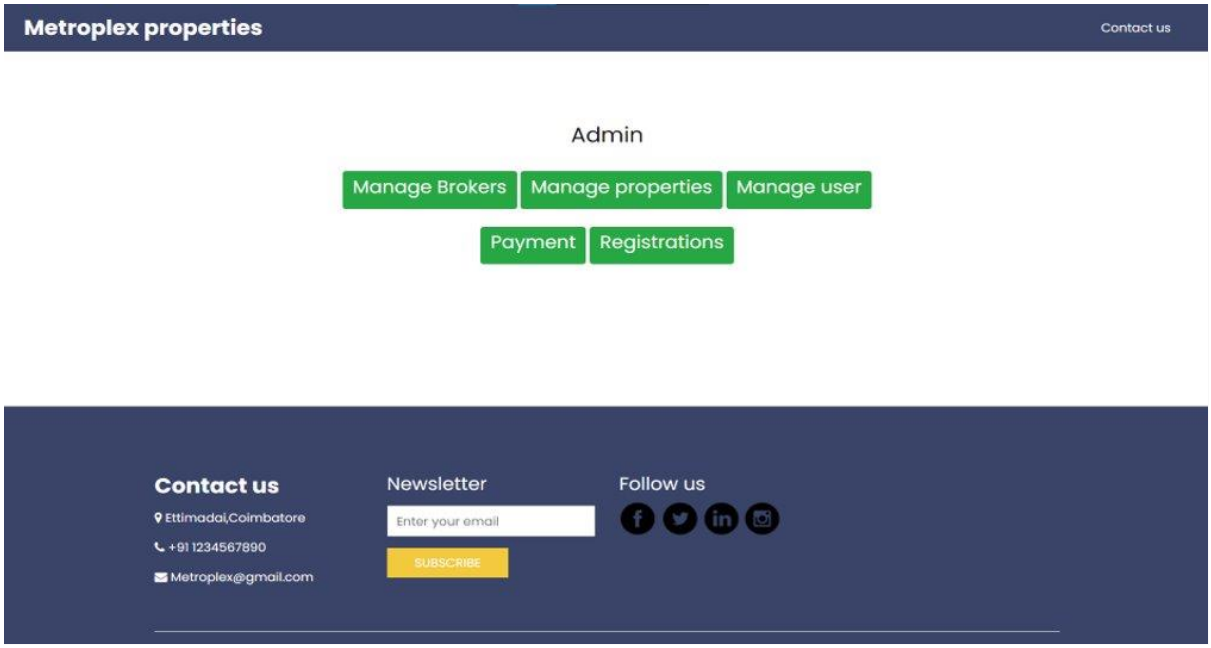
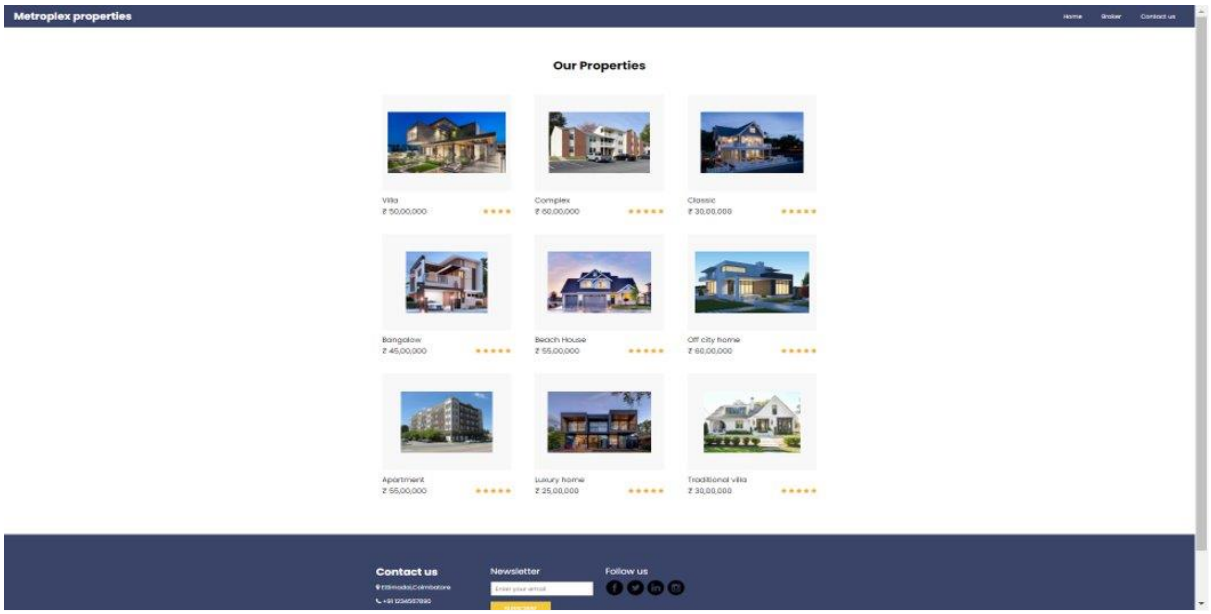
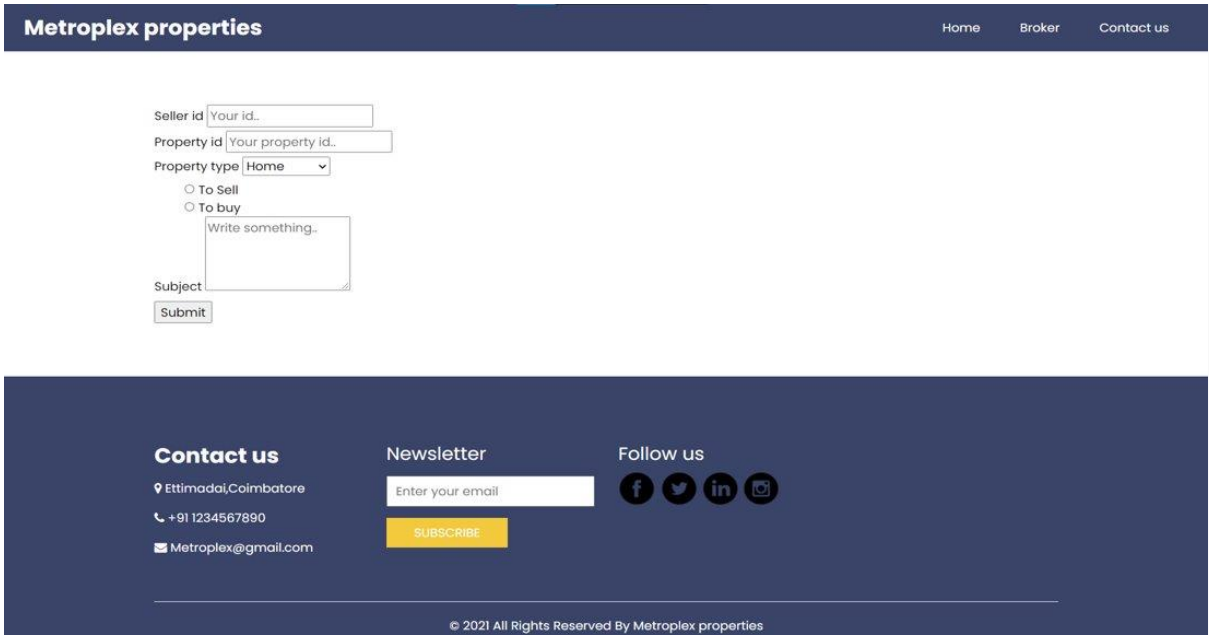


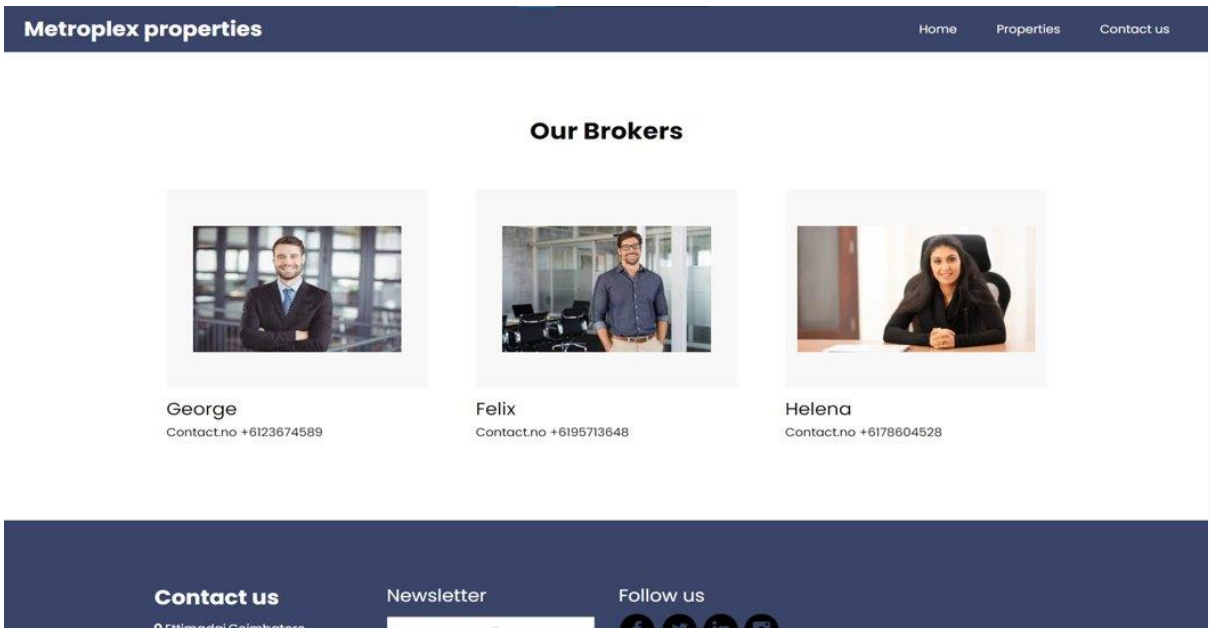
Buyer Page :



Seller Add Property:



Broker:



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