



RADON - Real Estate Business

Project Report

Course Name: - System Analysis and Design Laboratory

Course Code: - CSE 3412/CSI 312

Section: A

Submitted by: Group 2

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Chapter 1

Introduction

a. Overview

Our System is a web-based application. It can be rendered across all browsers. There are 5 types of users in this system. Customer, Client, Marketing Admin, Finance-Accounts Admin, and Manager.

Customers can search for their desired apartments or their preferred location of buildings. They can also buy/rent a new apartment. Clients can view their invoices and pay their utility bills. The Marketing admin will add or update property information, this includes information of various buildings and the apartments within them. They can also assist customers in their search and their various queries.

The Finance-Accounts admin has access to Client and Manager Information. They are also involved in one of the most important tasks of the system which is client authorization.

b. Motivation

In the digital world, buying and selling homes can also happen through realtor websites.

So customers can comfortably search for their apartments through our website. Our purpose is not only to serve the clients but also company staff members. As real estate agents, property managers are having problems communicating with clients, tracking maintenance costs, and collecting payments.

So, our purpose is to help them with our system to manage these tasks in a much easier way. And most importantly it will be very effective to avoid embezzlement.

c. Features

- Search Apartment Based on location, no. of bedrooms and bathrooms.
- Advanced Search based on a range of price and sq ft area.
- Buy & Rent Apartments
- Authorization (Customer to Client)
- Update Utility Bill
- Create Invoice
- View Invoice
- Online Payment
- Complaint Box
- Forgot Password System

Chapter 2

Benchmark Analysis

We have done a benchmark analysis of our product and here is the analysis result.

Features/Company	Shanta Holdings	Rangs Property Limited	Navana Real Estate	South Breeze	bproperty	Realtor	Our Project
Login	no	no	yes	no	yes	yes	yes
Registration	no	no	yes	no	yes	yes	yes
Search Properties	yes	yes	yes	yes	yes	yes	yes
Buy & Rent	?	no	?	no	yes	yes	yes
Contact	yes	yes	yes	yes	yes	yes	yes
View Invoice	no	no	no	no	no	no	yes
Online Payment	no	no	?	no	?	?	yes
Review & Rating	yes	no	no	no	no	yes	yes
Company Projects	yes	yes	yes	yes	yes	yes	yes
Update Utility Bill	no	no	no	no	no	no	yes
Create Invoice	no	no	no	no	no	no	yes
Liveview Map	yes	no	yes	no	yes	yes	no
Origin	Bangladesh	Bangladesh	Bangladesh	Bangladesh	Bangladesh	NewYork	Bangladesh

Majority Features:

- Search properties
- Contact
- Company Projects

Minority Features:

- Log in
- Registration
- Buy and rent
- Review and rating
- Live view map

Unique Features:

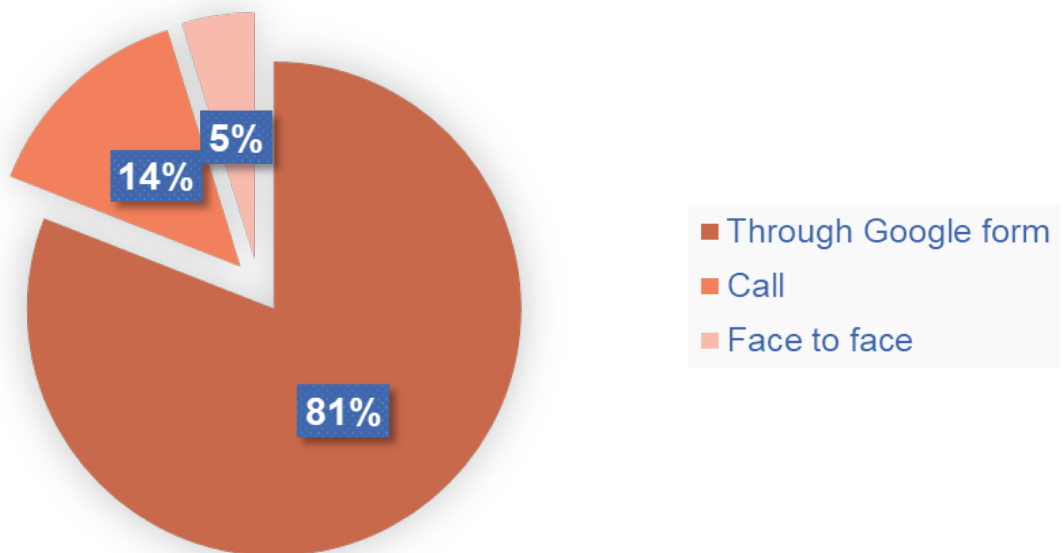
- View Invoice
- Online payment
- Update utility bill
- Create invoice

Chapter 3

Feasibility Analysis

We have done our feasibility study for our product.

INFORMATION GATHERING

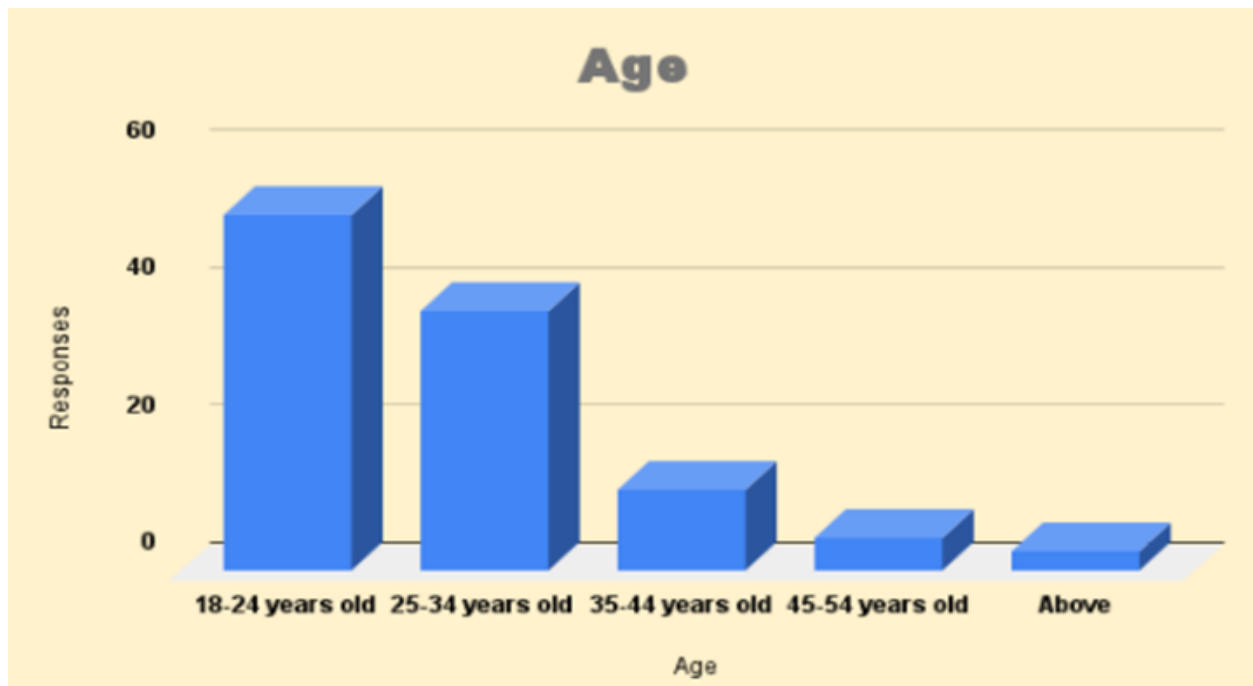
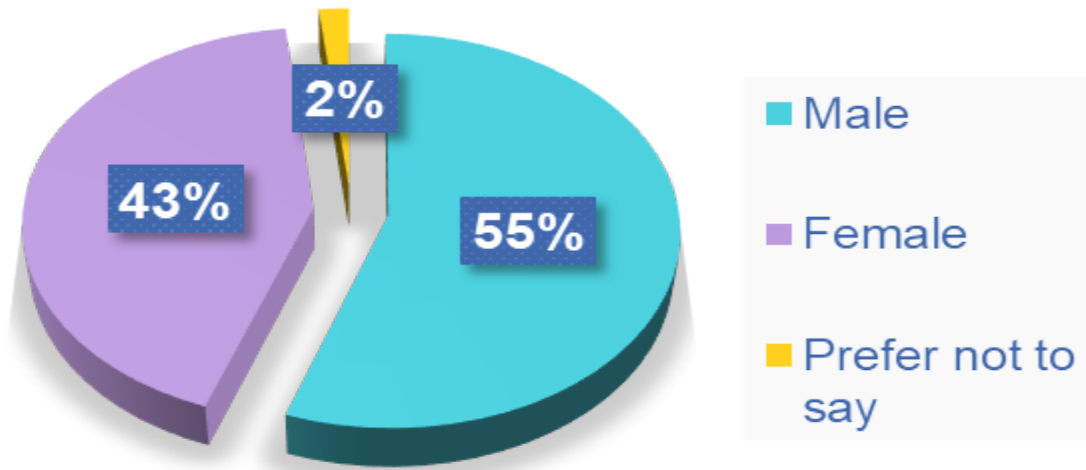


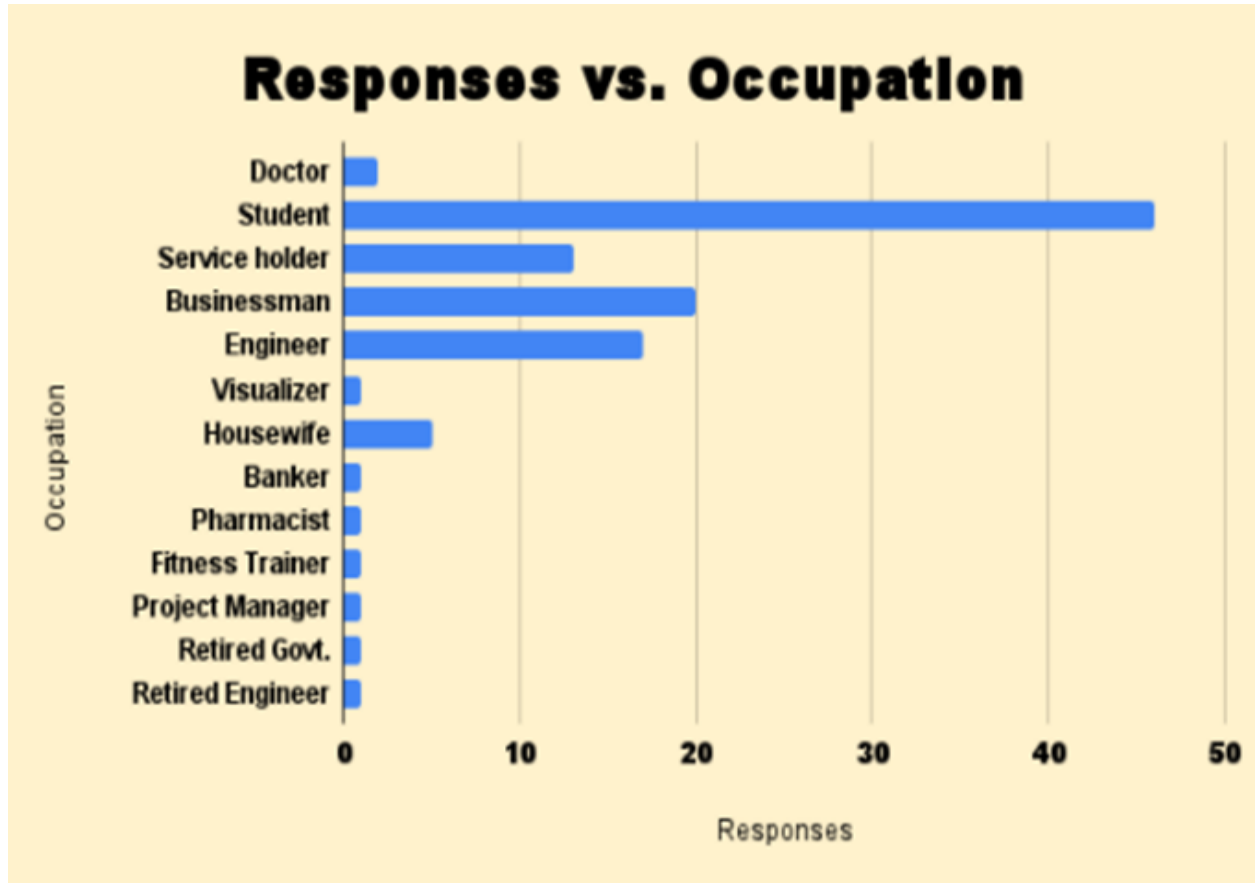
Total Responses: 110

Target Group: Feedback was collected from general people by phone call, face to face, and through Google Form.

GROUP DISTRIBUTION STATISTICS

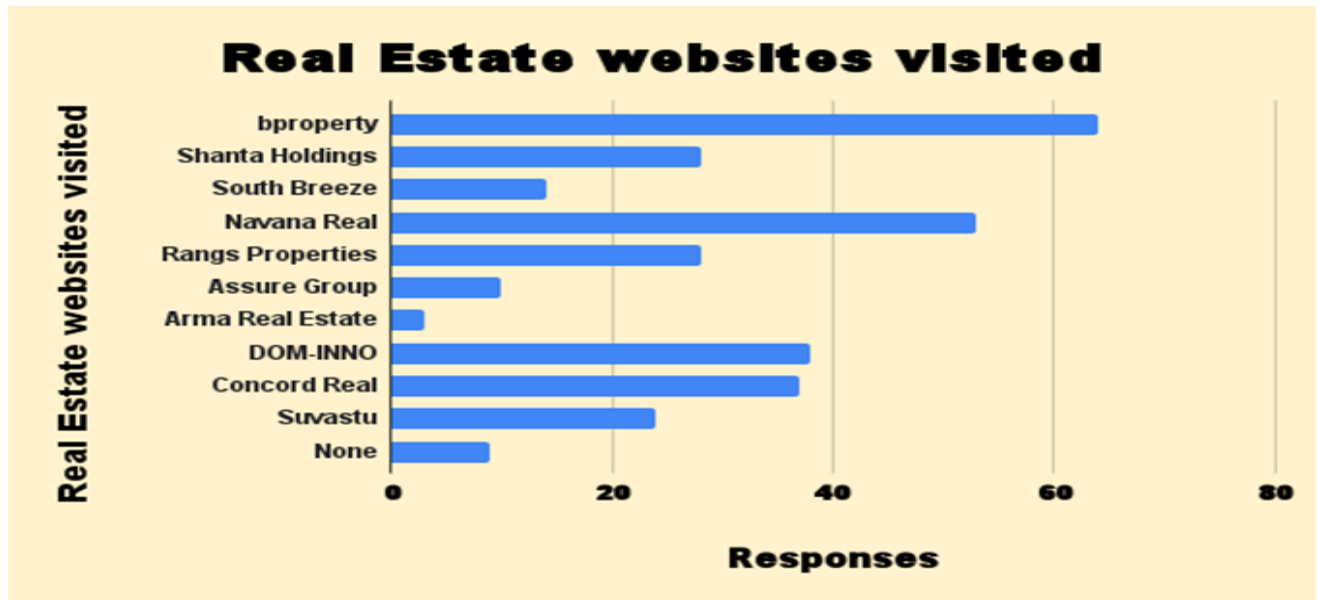
Gender Identity



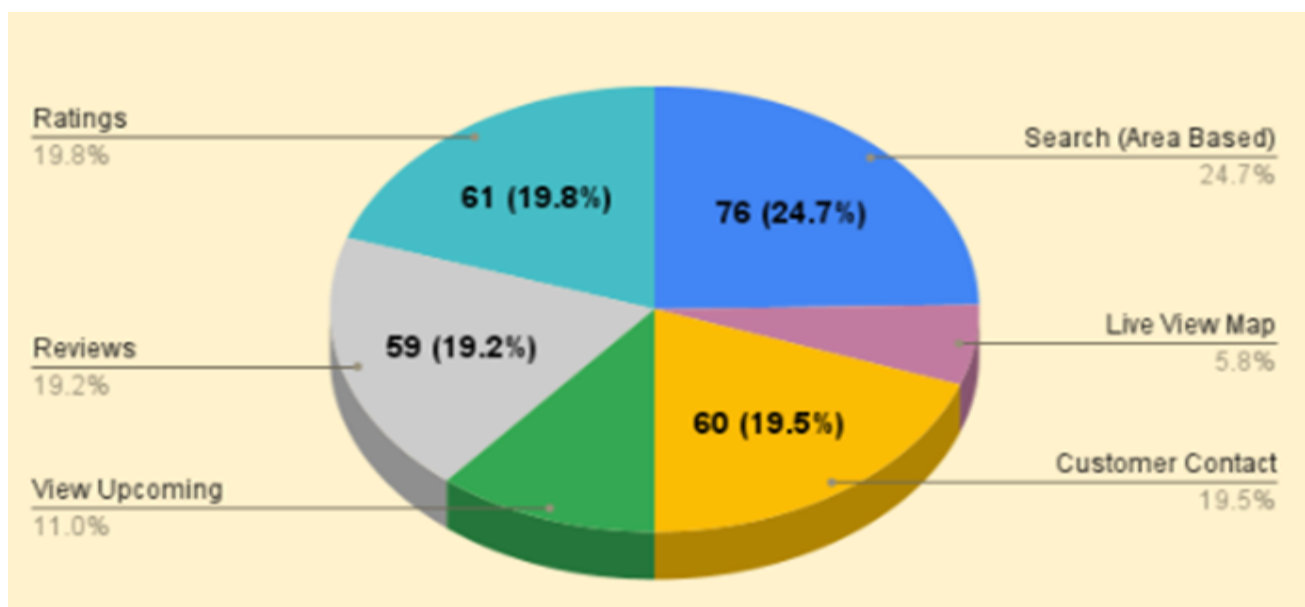


Google Survey Form

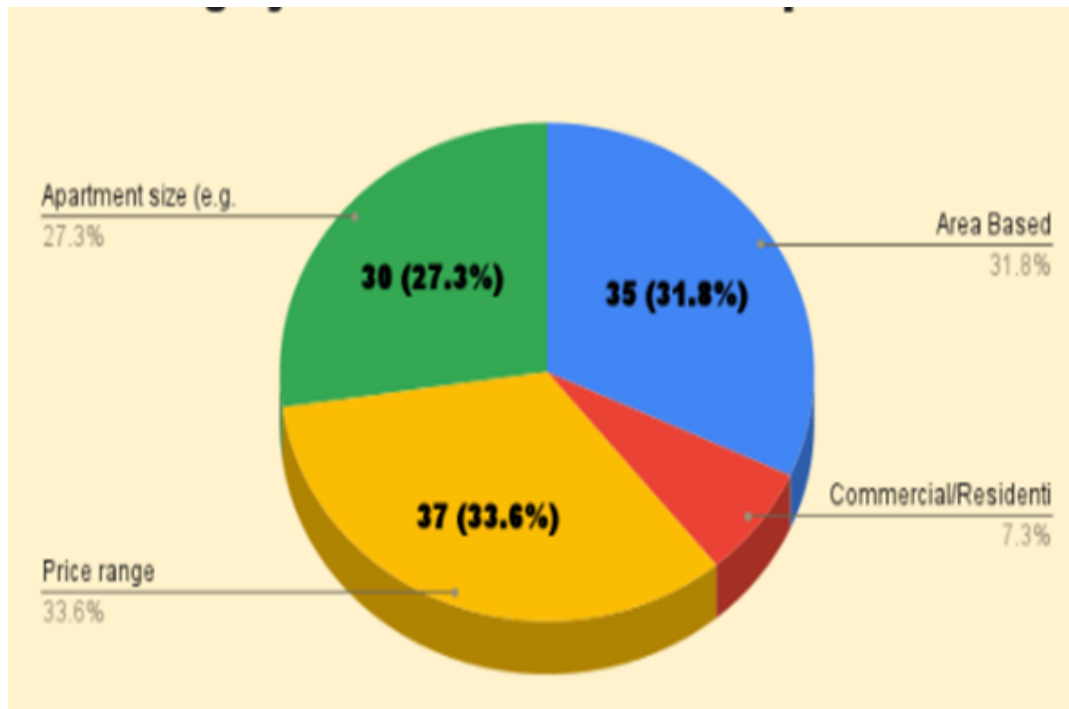
Q1. Which Real Estate websites have you visited before?



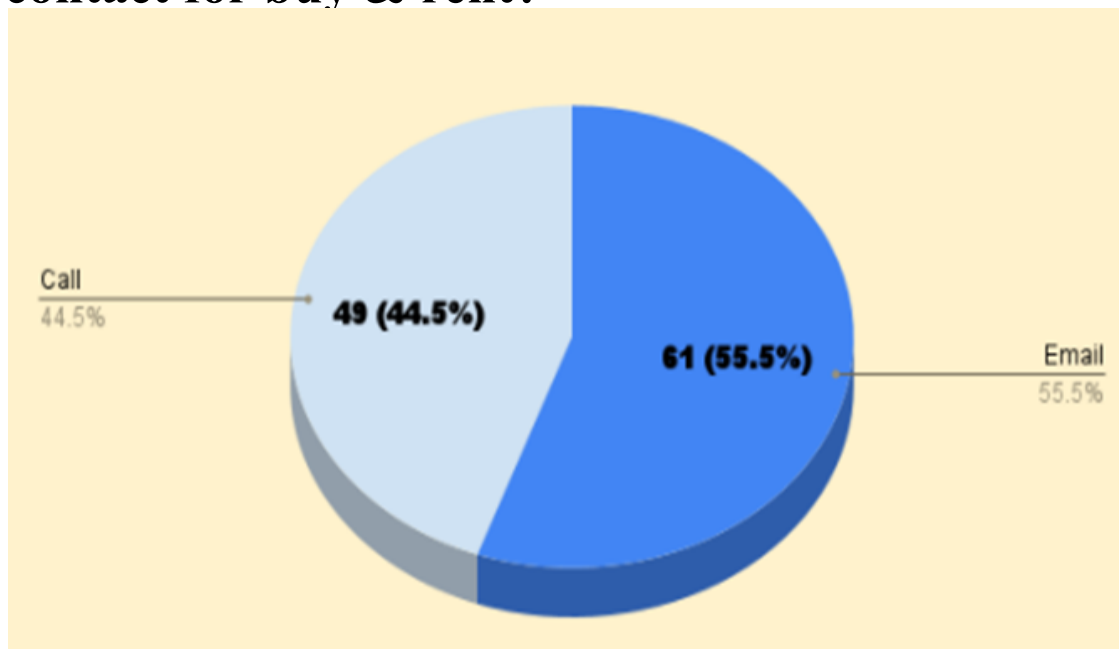
Q2. Which features do you prefer the most as a Real Estate buyer?



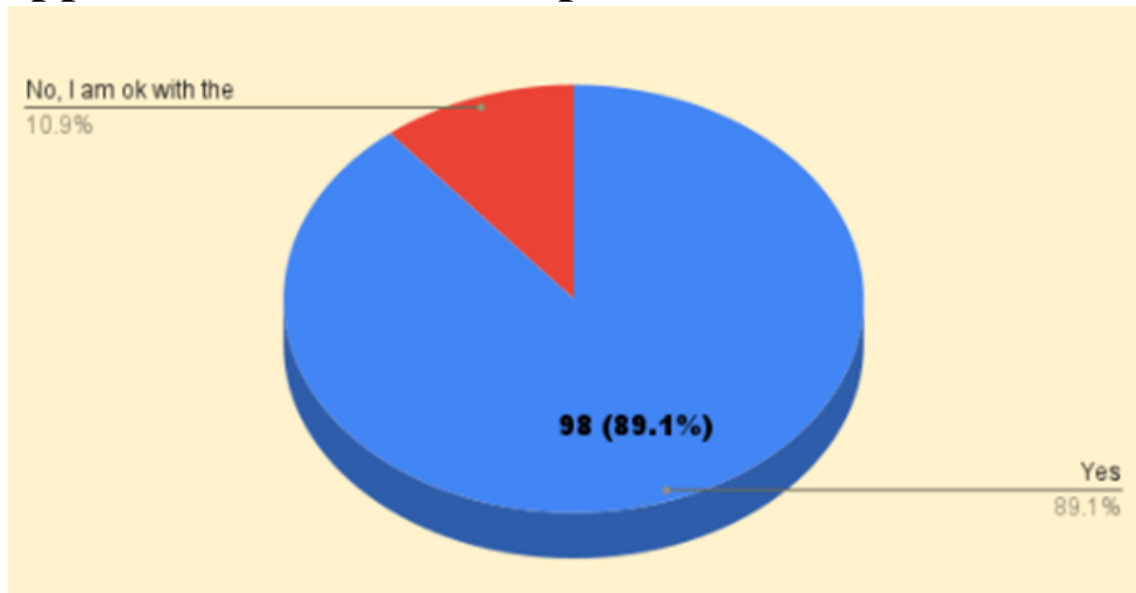
Q3. Based on which category do you like to search for an apartment as a real estate buyer/renter?



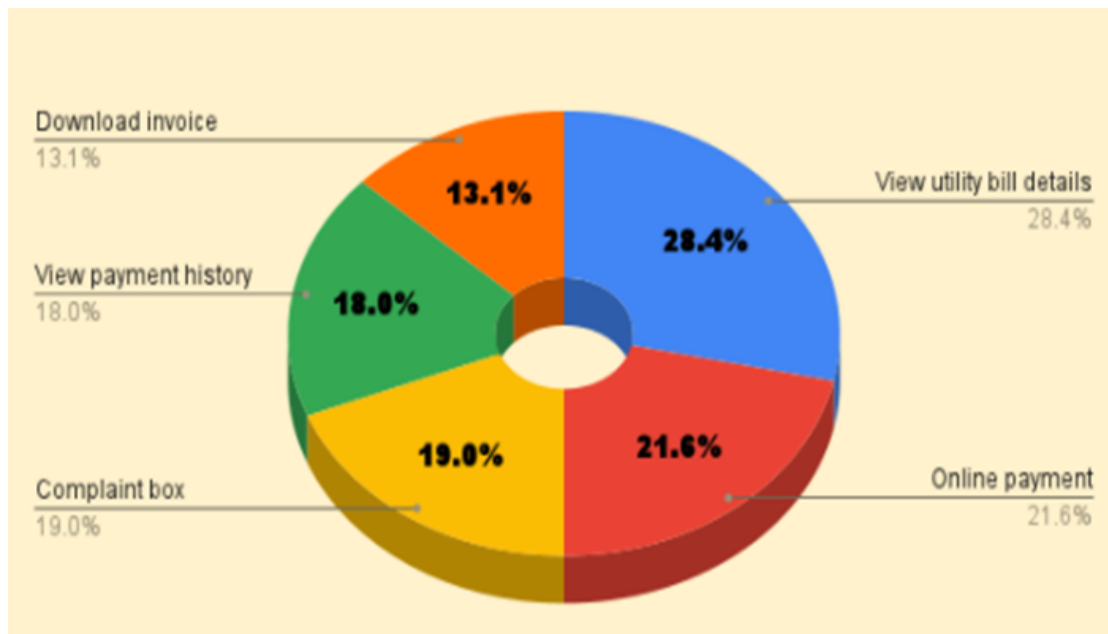
Q4. Which platform do you prefer to use during contact for buy & rent?



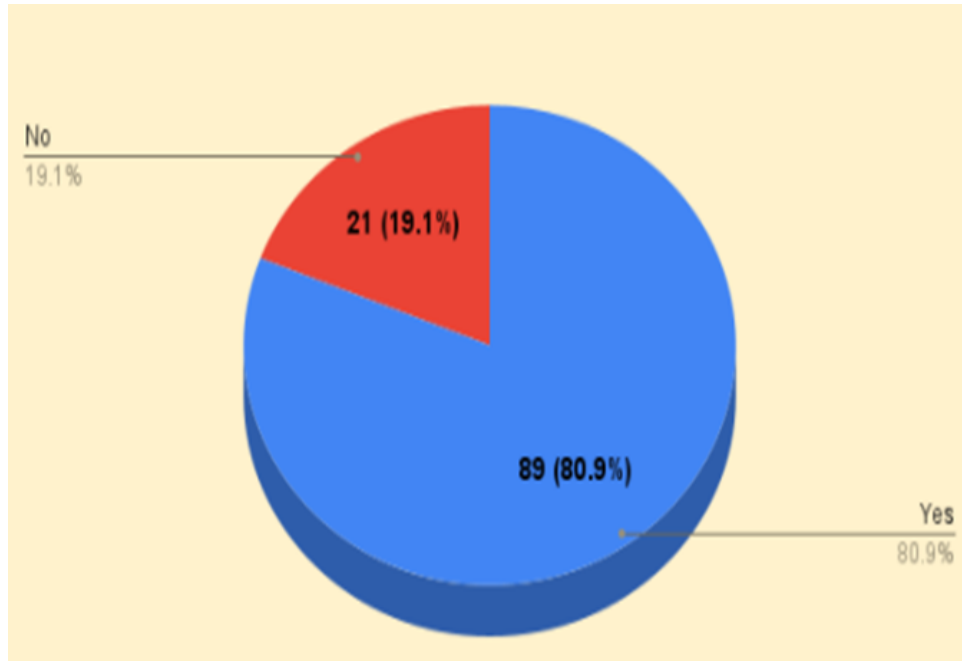
Q5. Before buying/renting, do you want to make an appointment to see the apartment?



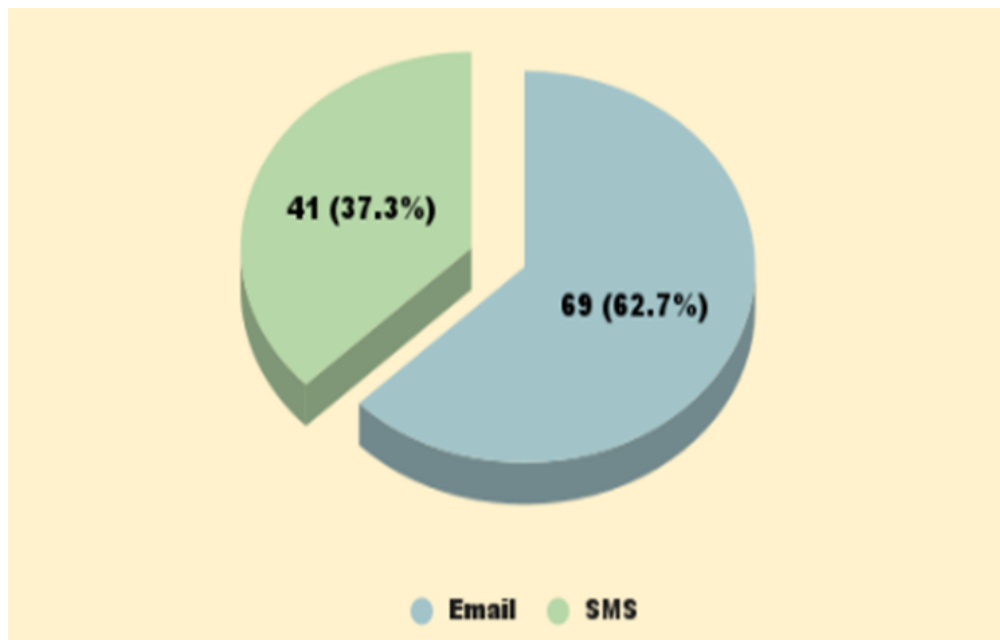
Q6. Which new features would you prefer the most to see on our website?



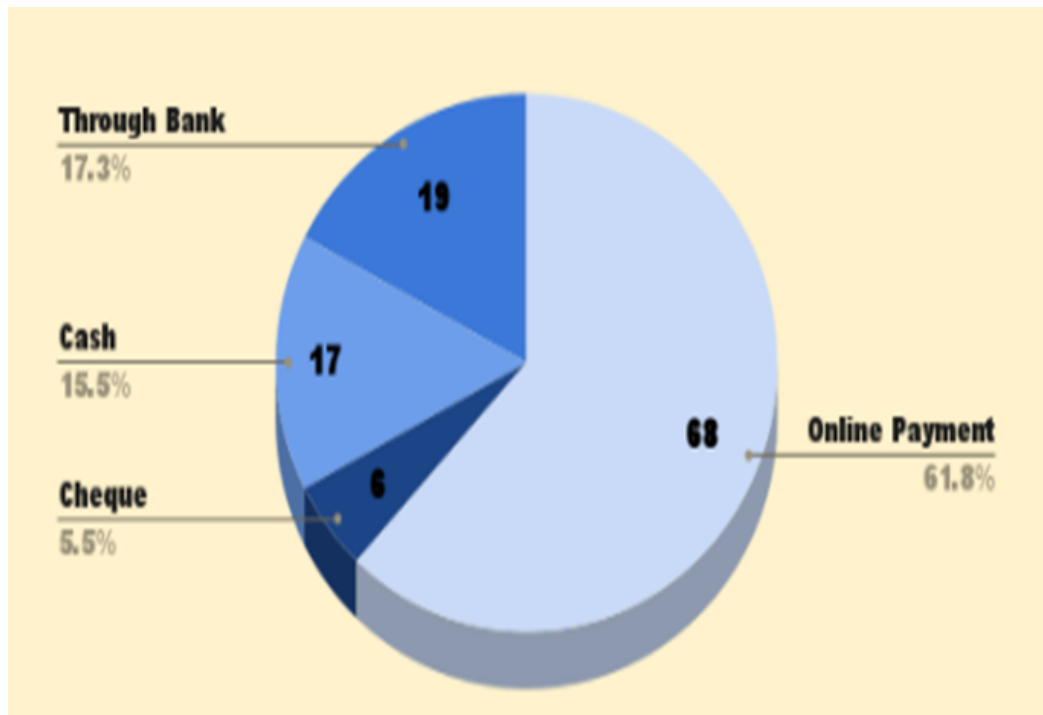
Q7. After buying/renting an apartment ,the apartment's utility bills can be paid through our website. While renting, do you also prefer to pay rent through this site?



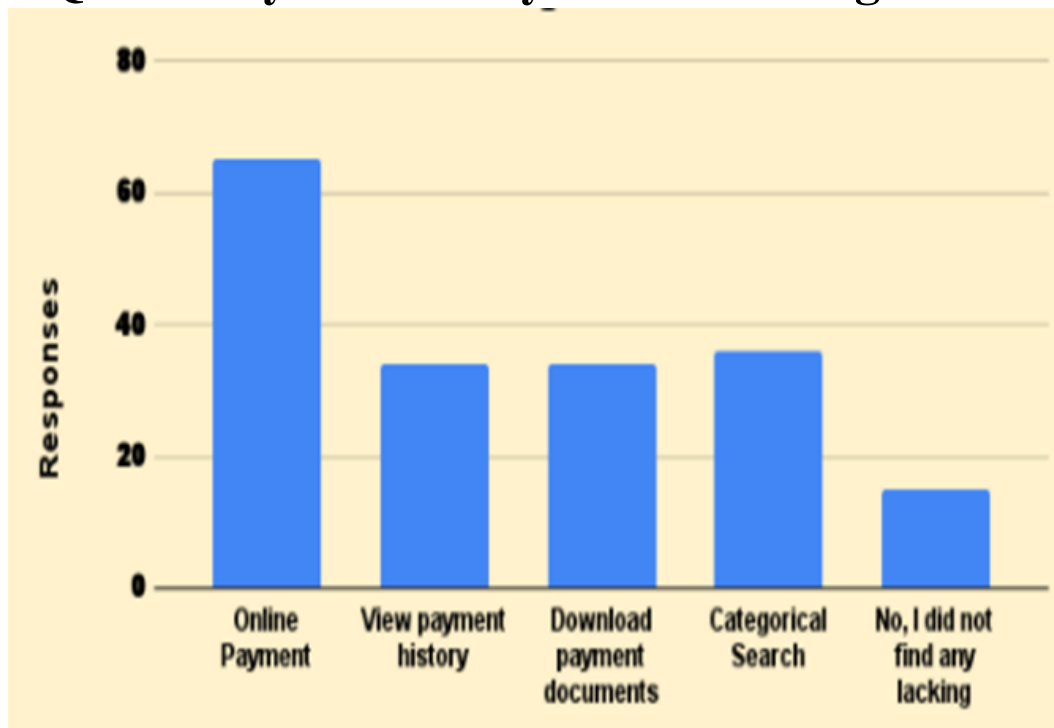
Q8. The invoice will be generated every month automatically on our website. how do you prefer to receive your notifications when an invoice is generated?



Q9. How do you prefer to make your payment during Buy/Rent?



Q10. Did you find any of this lacking in other sites?



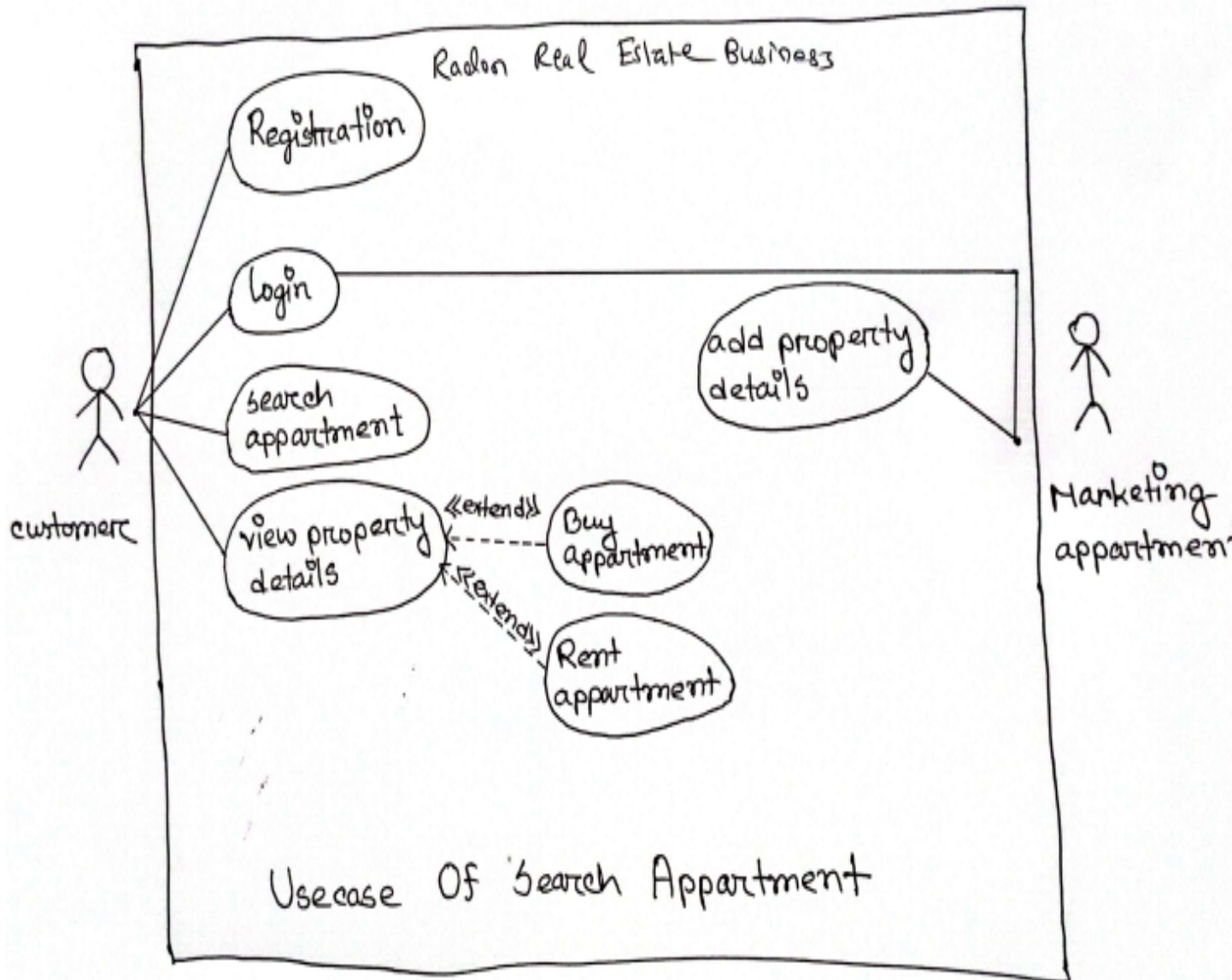
Result Table

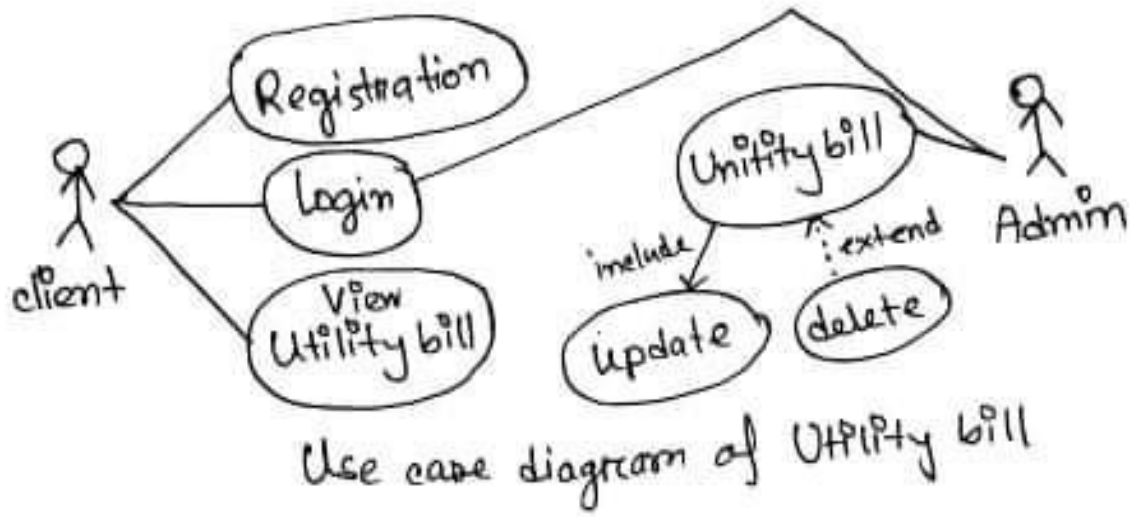
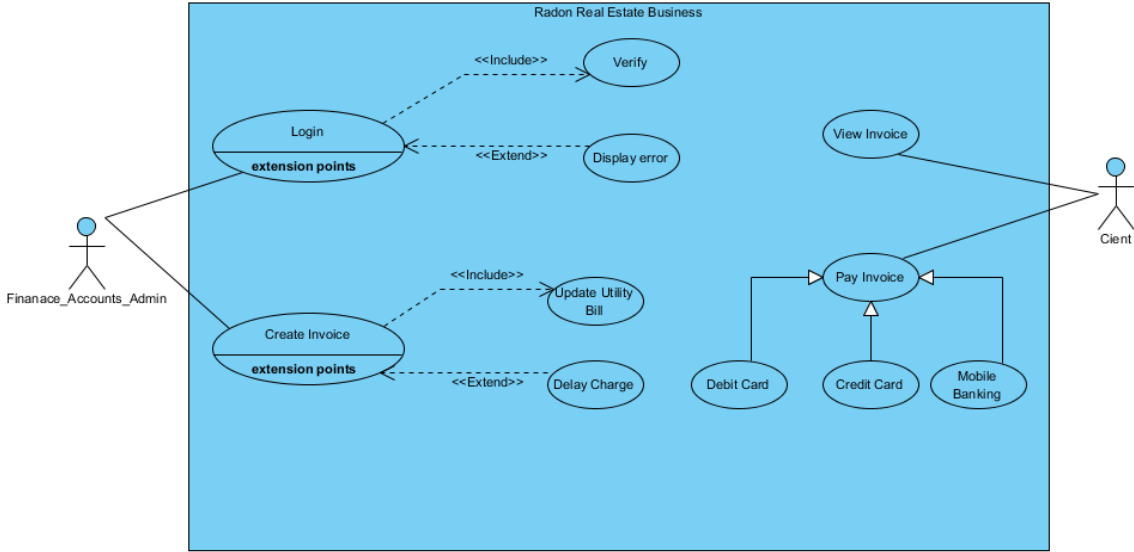
Question	Feasible –	Decision
<p>1)Which features do you prefer the most as a Real Estate buyer?</p> <p>Search (Area Based) 25.2%% Live View Map 8.3% Customer Contact 19.9% View Upcoming Projects 7.0% Reviews 19.5% Ratings 20.2%</p>	<p># search(area based), # customer contact, # review, # rating, #View Upcoming Projects</p>	<p>Discard – #Live View Map</p>
<p>2)Based on which category do you like to search for an apartment as a real estate buyer/renter?</p> <p>Area Based 31.8% Commercial/Residential 7.3% Price range 33.6% Apartment size (e.g. no. of rooms) 27.3%</p>	<p># Area Based, # Price range, # Apartment Size</p>	<p>Discard - #Commercial/Residential</p>
<p>3)Which new features would you prefer the most to see on our website?</p> <p>View utility bill details(ex: water bill, gas bill, etc) 28.4% Online payment through the website (via SSLCommerz) 21.6% Complaint box 19% View payment history 18.1% Download invoice 13.1%</p>	<p>#View utility bill details #Online payment through the website , #Complaint box , #View payment history</p>	<p>Discard – #Download invoice</p>

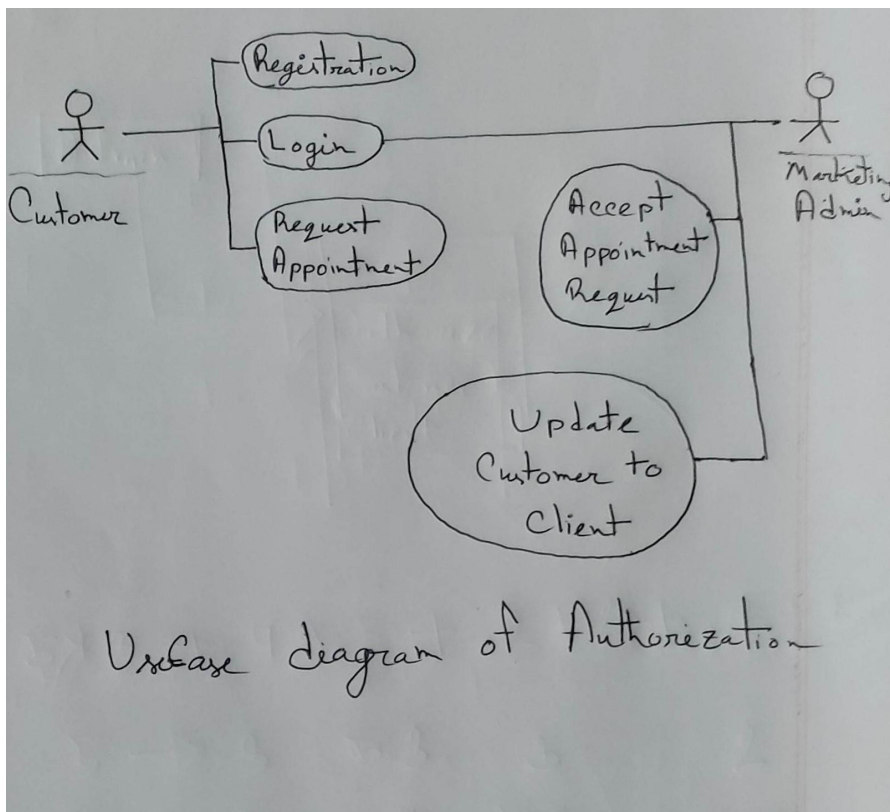
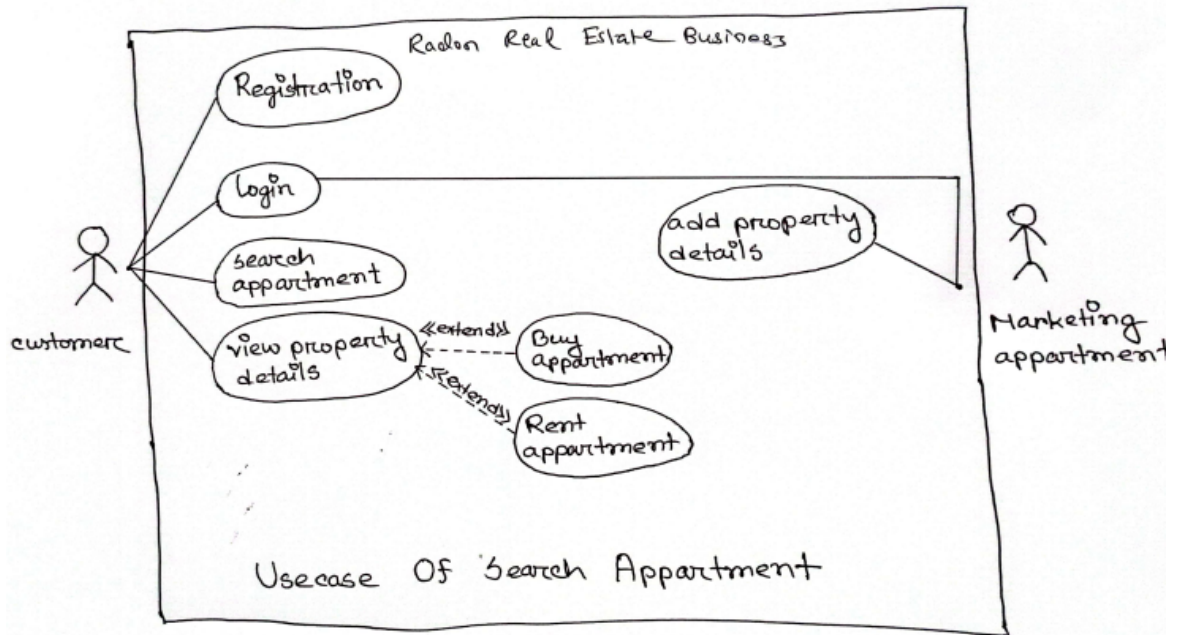
<p>4)How do you prefer to make your payment during Buy/Rent? Online Payment (via SSLCommerz) 61.8% Cheque 5.5% Cash 15.5% Through Bank 17.3%</p>	<p>Feasible – # Online payment.</p>	<p>Discard – #Cheque, #Cash, #through bank</p>
<p>5)Which platform do you prefer to use during contact for buy & rent? Email - 55.5% Call - 44.5</p>	<p>Feasible – #email, #call</p>	<p>Discard – no feature</p>
<p>6) The invoice will be generated every month automatically on our website. how do you prefer to receive your notifications when an invoice is generated? Email-62.7% Sms -37.3%</p>	<p>Feasible – #Email</p>	<p>Discard – #Sms</p>

Chapter 4 Diagrams

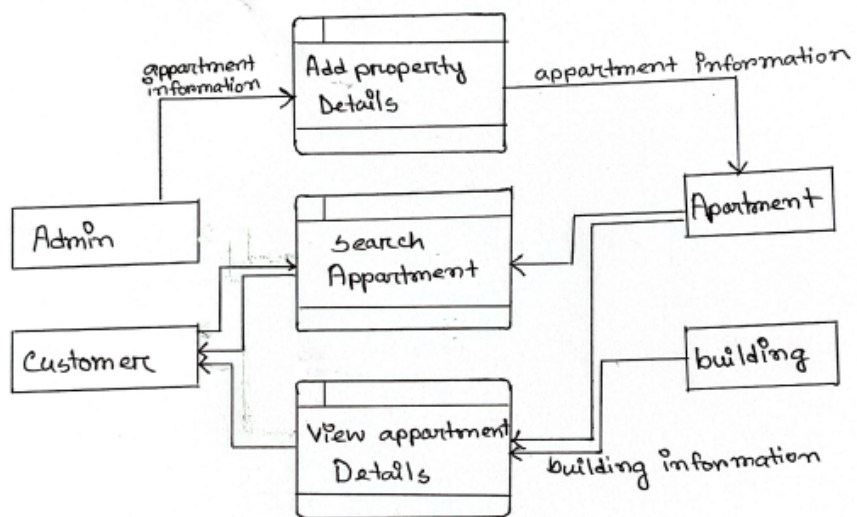
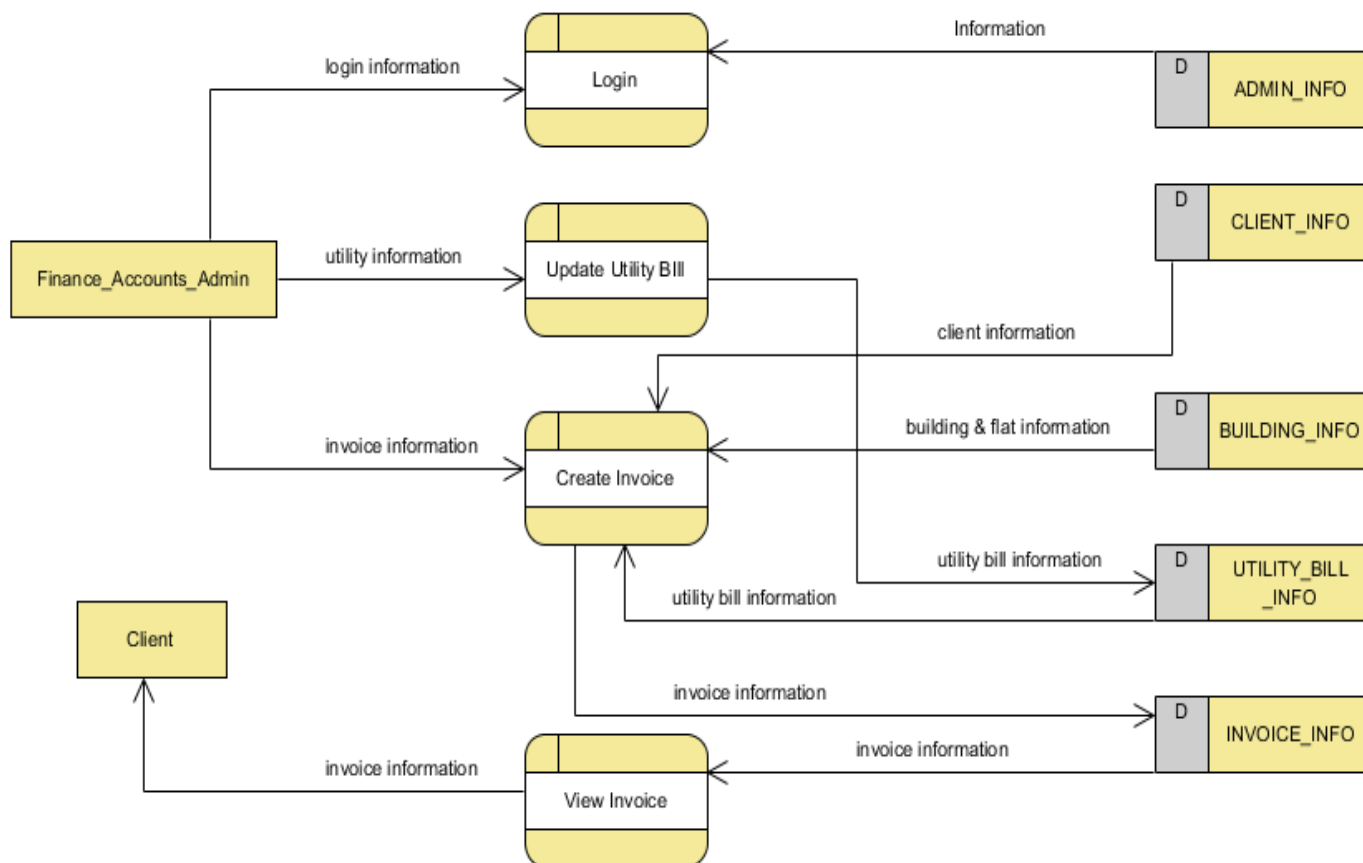
a. Use case diagram



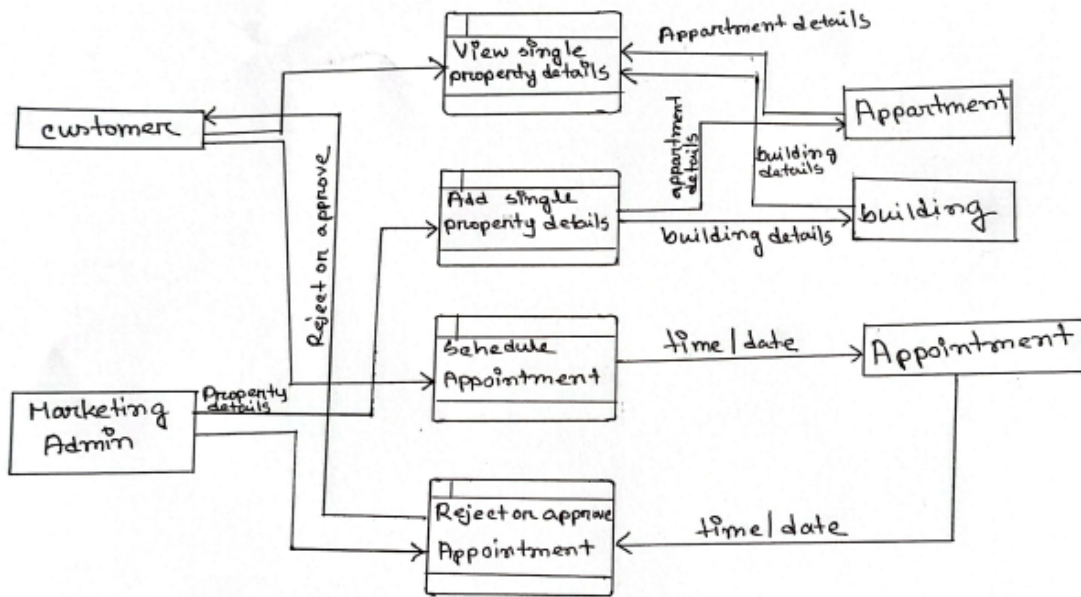




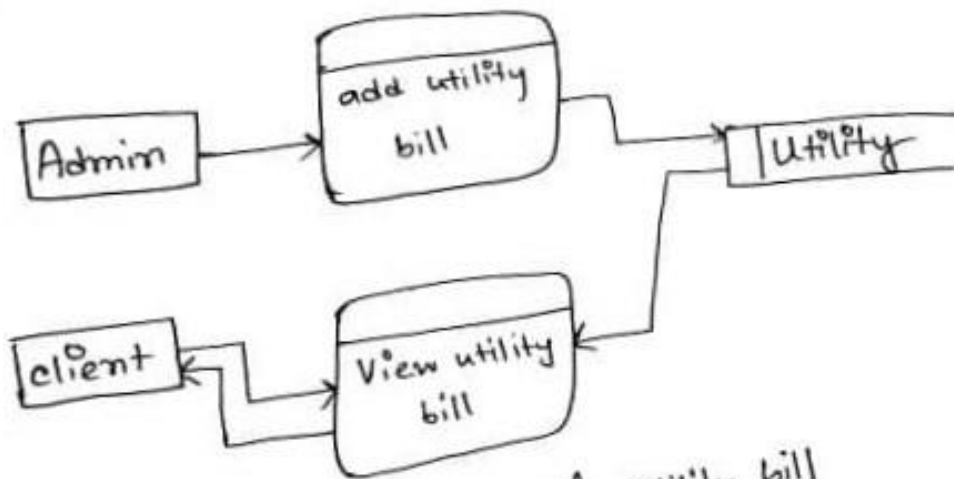
b. Data flow diagrams



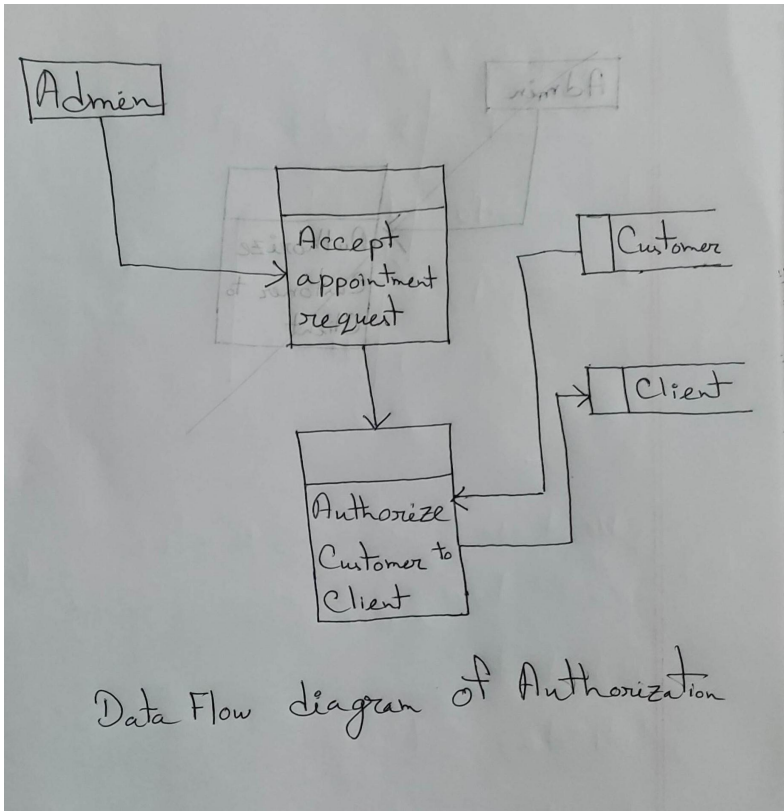
Data Flow Diagram of Search Apartment



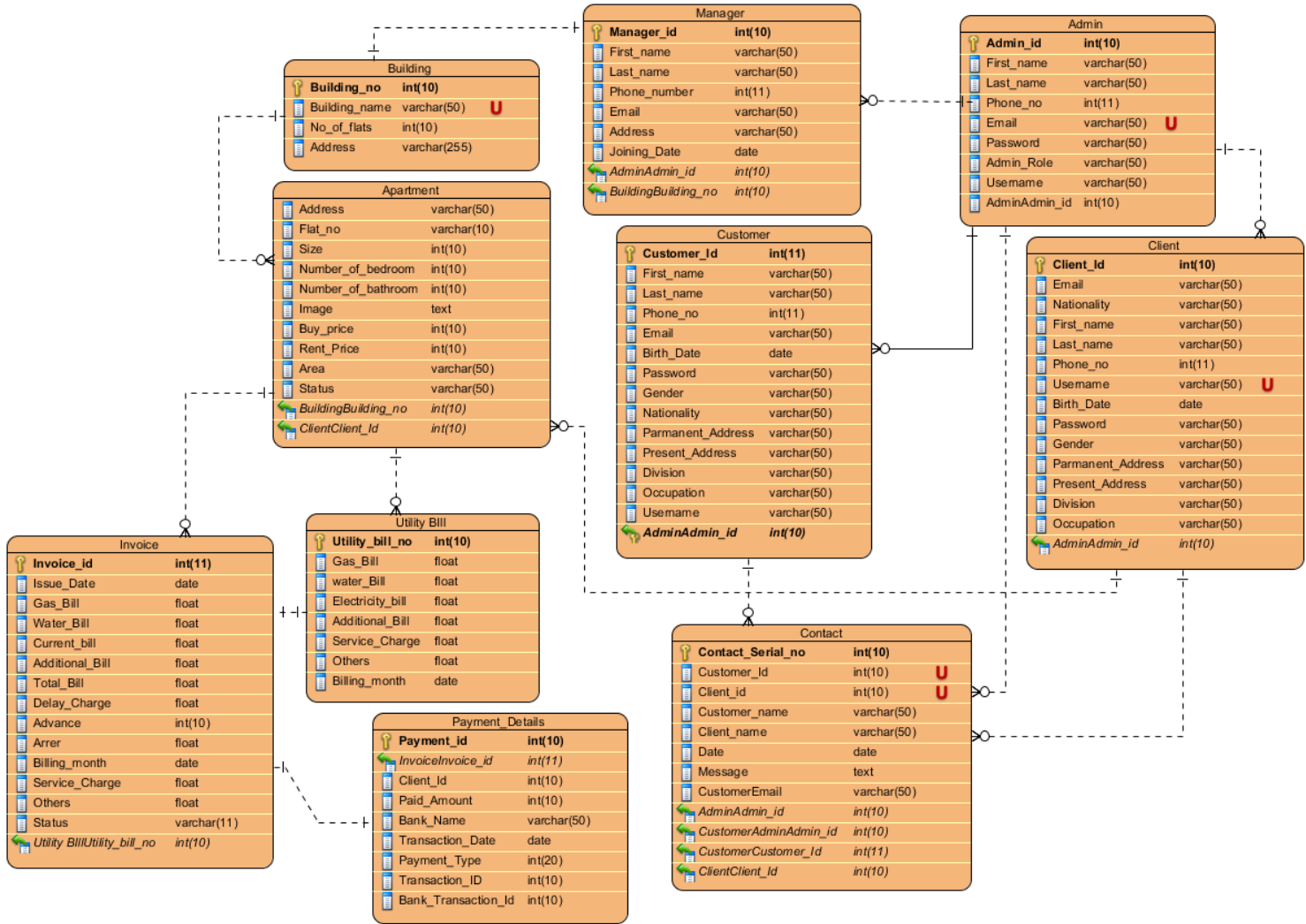
Data Flow Diagram for Buy OR Rent



Data Flow diagram of Utility bill

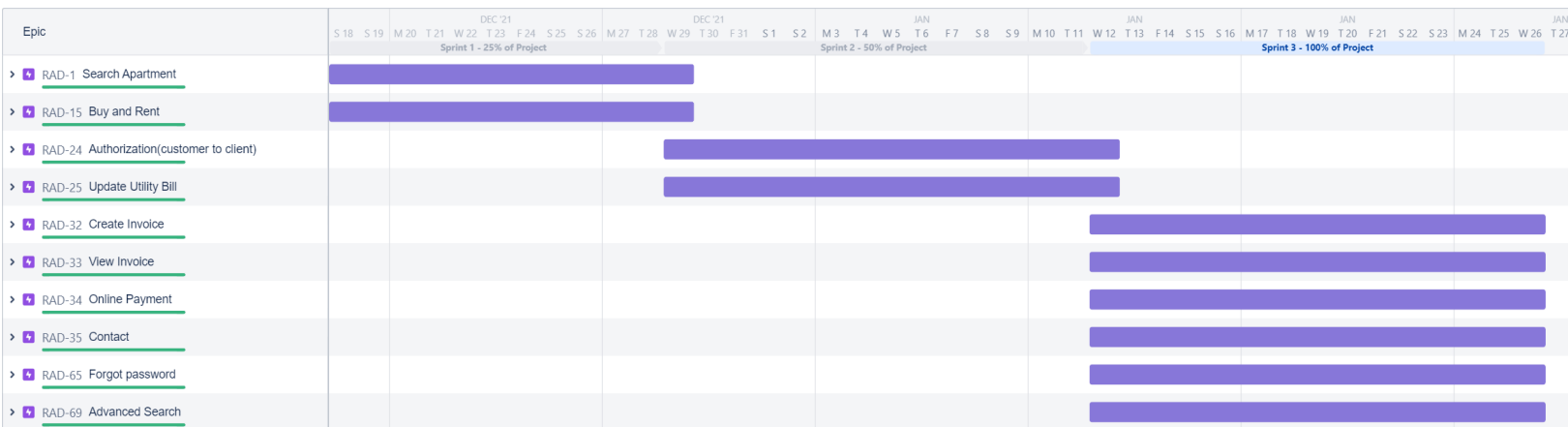


c. ERD



Chapter 5

Gantt Chart



Chapter 6

SWOT Analysis

Strengths

- Online payment will avoid embezzlement and it's convenient for the pandemic phase.
- Invoice will be generated automatically which will help to achieve a flawless record.

Weaknesses

- No experience and proper budget planning.
- HCI (human-computer interaction) is very weak.

Opportunities

- Take advantage of the increasing popularity of online systems in the COVID situation.
- There is no other real estate company that handles apartment financial needs through an online platform.

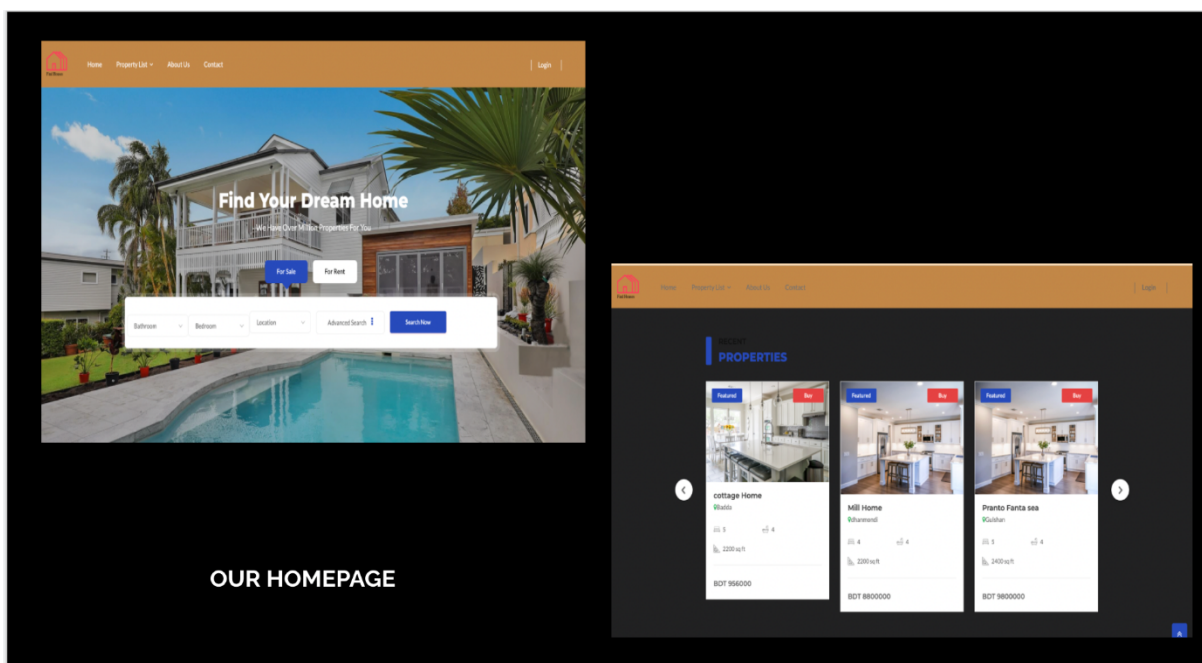
Threats

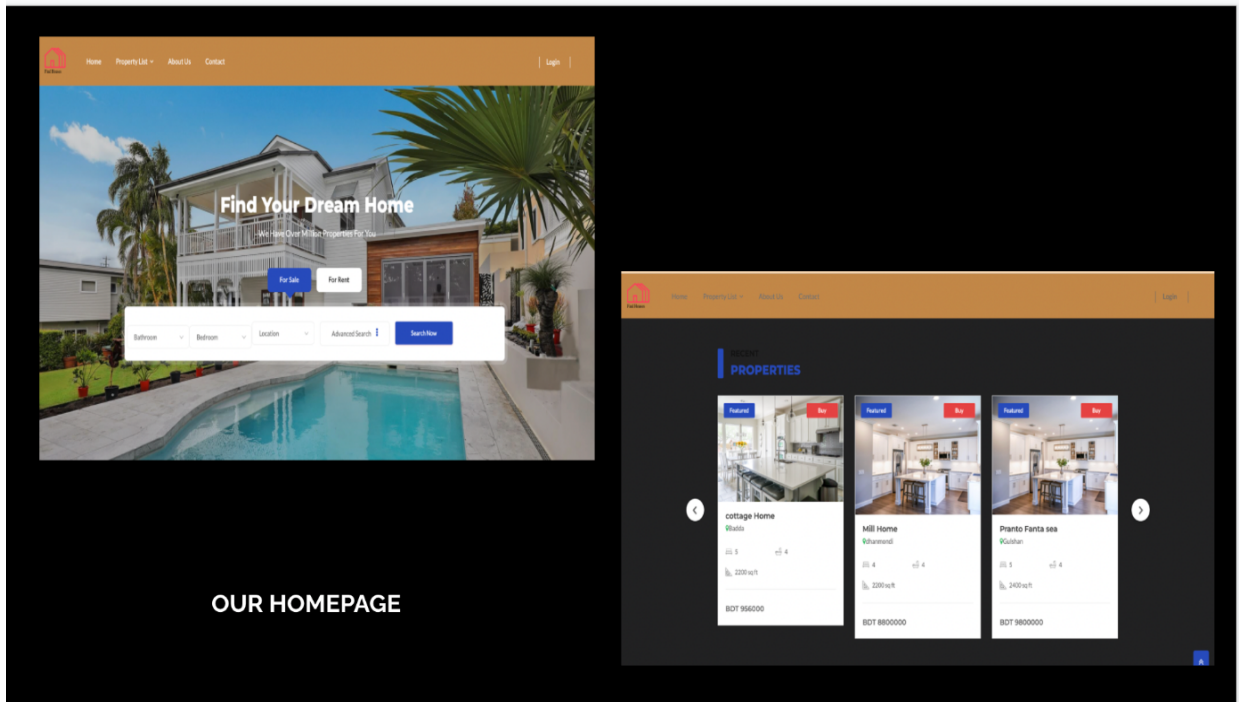
- Many people are still not used to online payment methods.
- Data can get lost or systems can crash because of online platforms.

Chapter 7

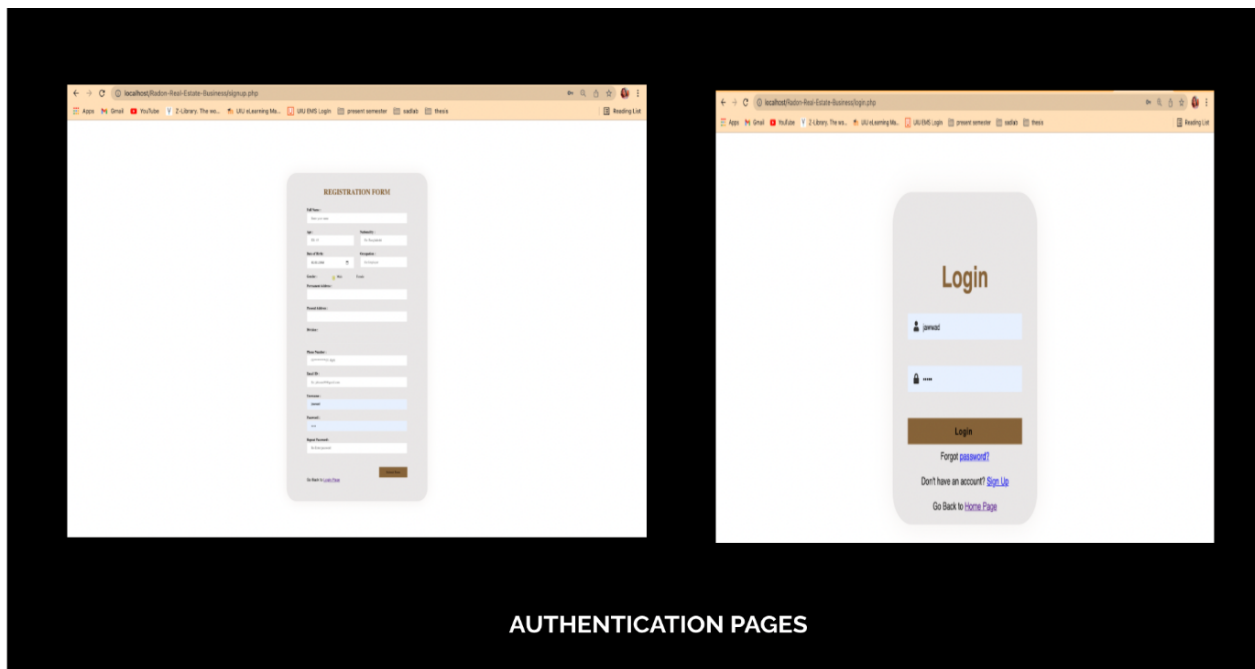
Snapshots of our application

Homepage:

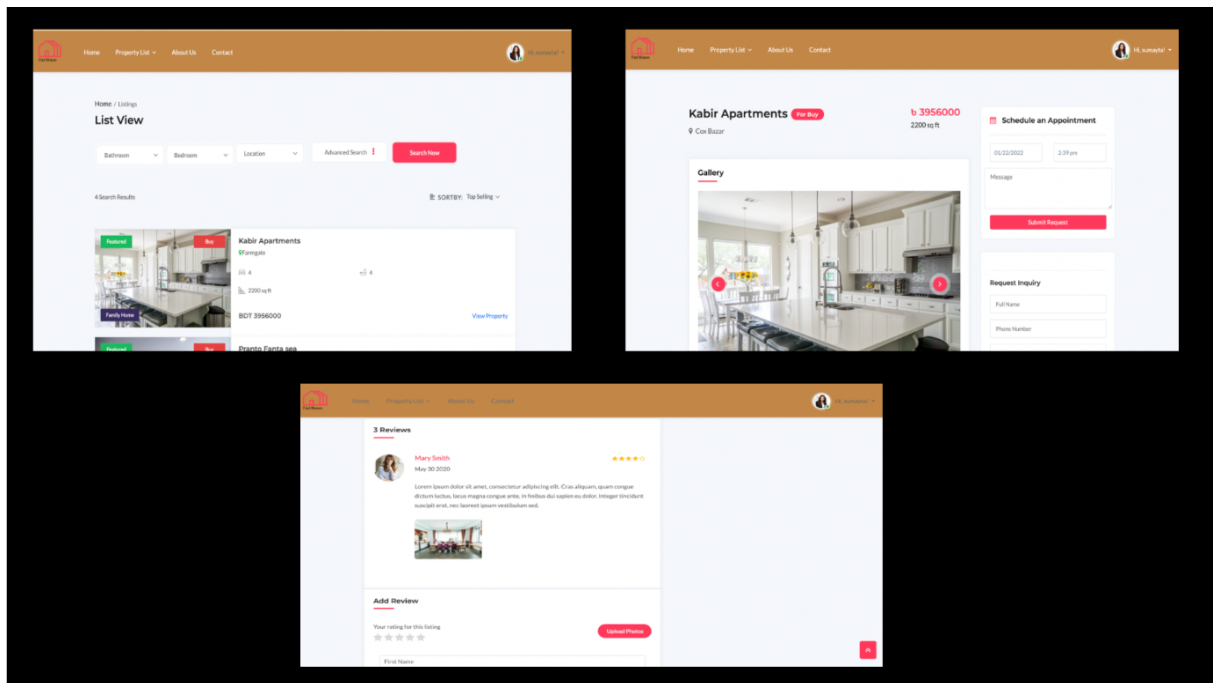
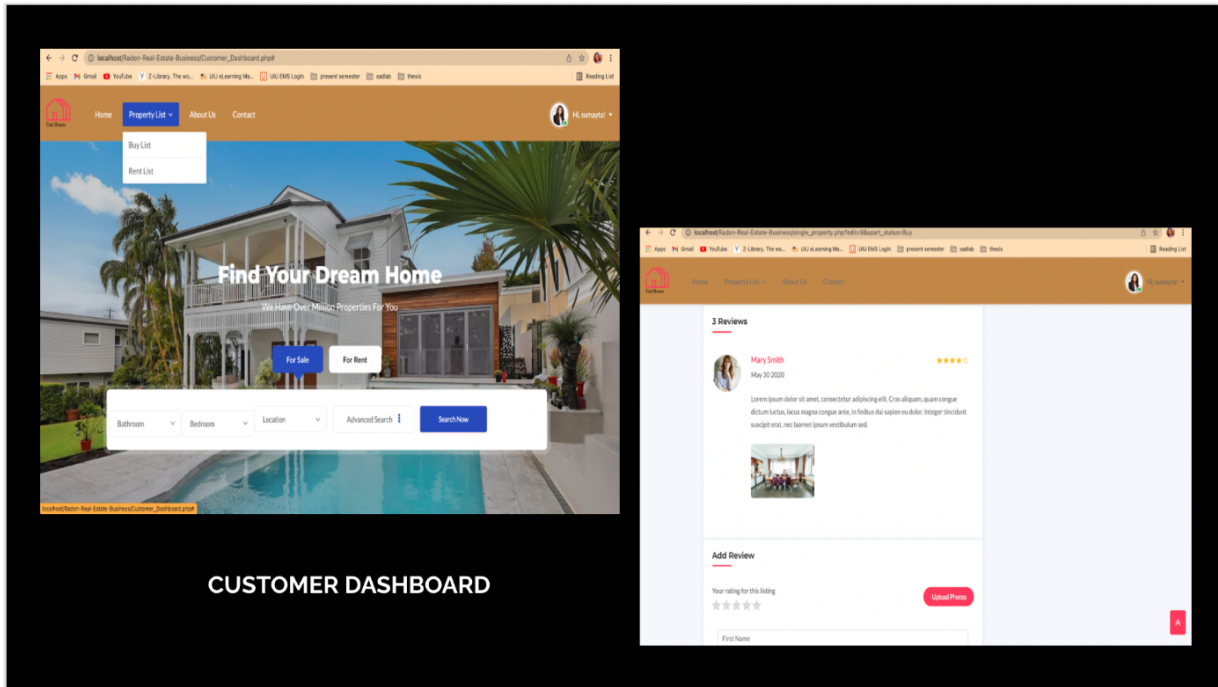




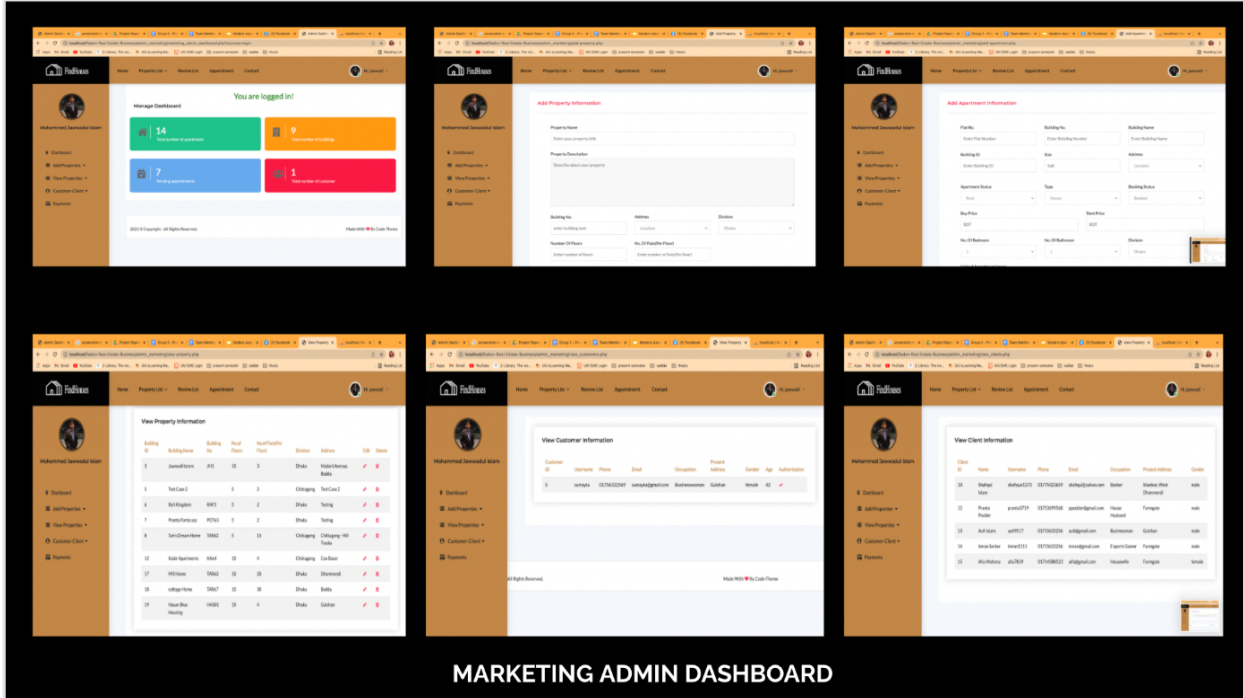
Authentication:



Customer Dashboard:

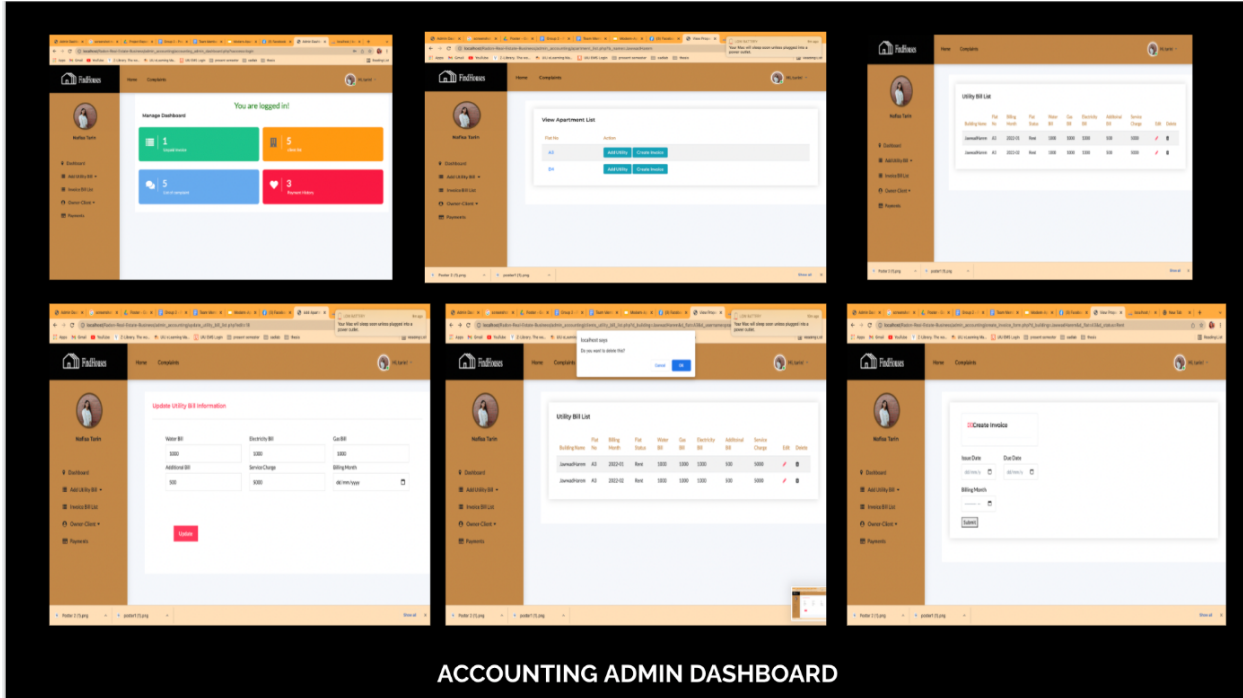


Marketing Admin Dashboard:

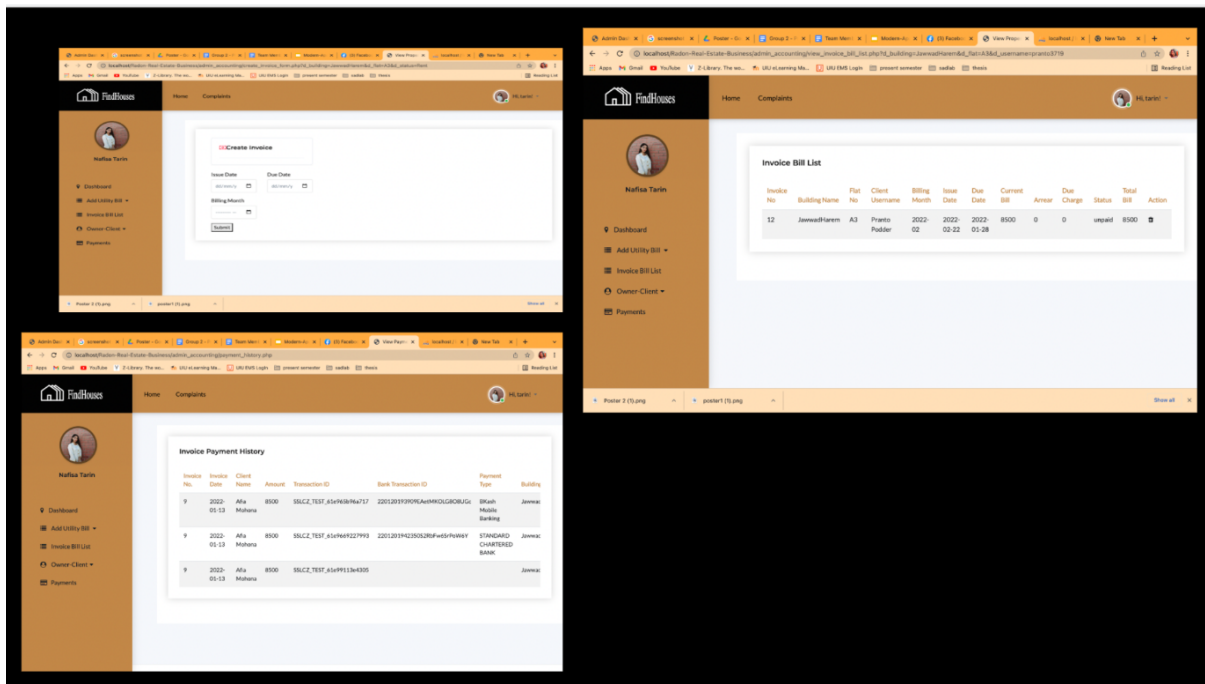


MARKETING ADMIN DASHBOARD

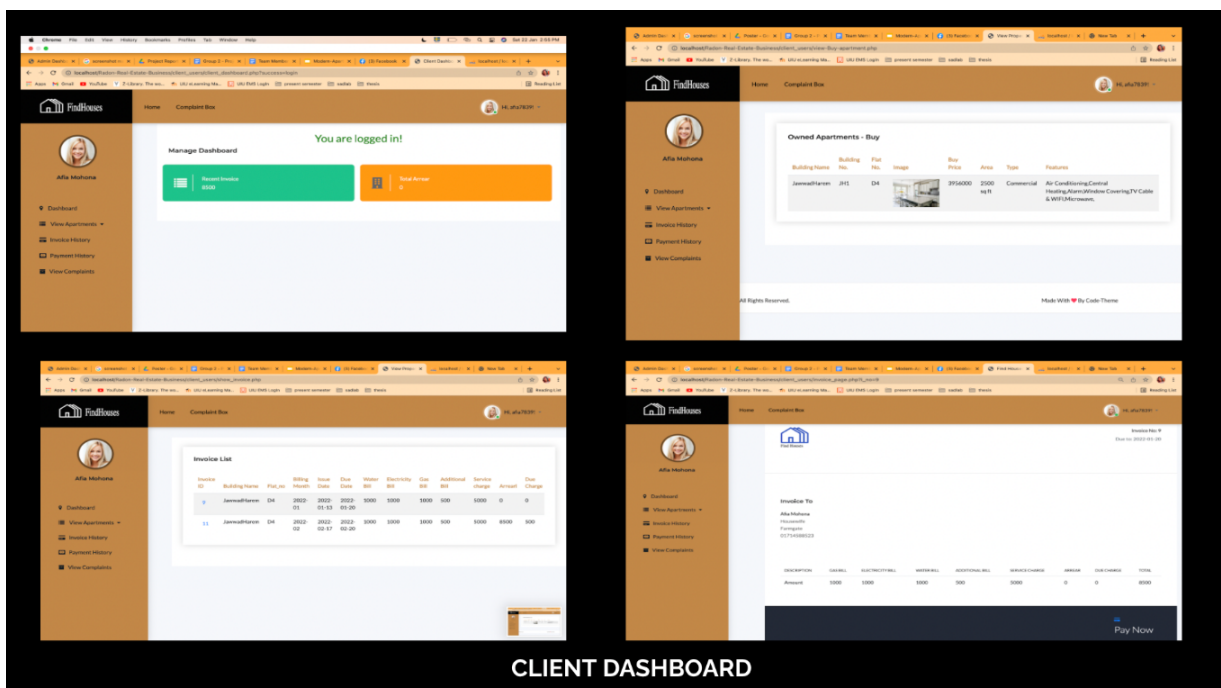
Accounting admin dashboard:



ACCOUNTING ADMIN DASHBOARD



Client dashboard:



CLIENT DASHBOARD

Chapter 8

Future Work

In the future, we would like to expand the scope of our project to include more locations and divisions across Bangladesh.

Second, we would like to implement a system where the invoice is generated automatically every month after the utility bill for each client is entered into the system.

Finally, we would also like to implement a balance sheet where the profit/loss of our company would be calculated automatically every month/year.

Chapter 9

Project Posters



REAL ESTATE BUSINESS

LETS US GUIDE YOUR HOME

Our company is online based Real estate business where users can buy and rent luxurious properties from online. Our company has two field to explore. Firstly we have a pure real estate platform where customer can buy and rent apartments or properties from anywhere through online. Second our company will still take care of clients properties management and accounting even after handing over the property. Here clients can view every details of their property and property's invoices.



OUR UNIQUE FEATURES:

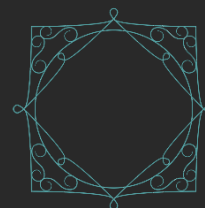
- **Categorical Search:**
 - Area based,
 - location based,
 - No. of bedroom,
 - No. of bathroom,
 - Advance search:
 - price range,
 - size based
- **Online Invoice**
 - payment through online.
 - Track all invoice list.
 - Show all payment history.

OTHER FEATURES:

- Buy & Rent apartments
- Utility bill show
- Authorized client panel
- Contact through email

Real Estate Agent
017-950-87285
MD. FAHAD AL RAFI

YOUR COMFORT | IS OUR PRIORITY



RADON REAL
ESTATE BUSINESS



THE PROPERTY

- A modern and sleek home
- A relaxing breathing space for the family

WEBSITE FEATURES

- Categorical search
 - search your home according to your area, size, price ect.
 - With great location and tight security.
- Monthly invoice update
 - Get your important bills and papers all in one place in our website.

OTHER FEATURES

- Buy or Rent
- utility bill .doc download
- Authorized clients and Admins

FOR CONTACT

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517-985-8215
Aysha Siddika

