

GUJARAT TECHNOLOGICAL UNIVERSITY

Chandkheda, Ahmedabad



VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE

A Project Report On (HOUSE PRICE PREDICTION)

Under subject of DESIGN ENGINEERING-II

B. E. II, Semester - IV (COMPUTER BRANCH)

SUBMITTED BY

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Academic Year (2022-2023)

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1. INRODUCTION

Our house buying and selling project aims to revolutionize the real estate industry by providing a user-friendly online platform that connects buyers and sellers, offering a convenient and efficient way to transact properties. With a comprehensive database of listings, detailed property information, and a wide reach, our platform streamlines the process, saving users time and money. Whether you're a homeowner looking to sell or a buyer searching for the perfect home, our project offers a seamless experience that brings together the benefits of technology and real estate, making property transactions simpler and more accessible for all.

2. OBSERVATION PHASE

During the observation phase of our project, we meticulously study the surrounding environment, local market trends, and community needs to gain valuable insights. Our team of experts conducts thorough research, examining factors such as demographic data, infrastructure development, and economic indicators. Through site visits and analysis, we carefully assess the topography, natural features, and existing structures to understand how they can be leveraged to enhance the project. Additionally, we engage with local stakeholders and residents to gather their input and ensure that our development aligns with their aspirations and contributes positively to the community. This observation phase serves as the foundation for our project, allowing us to create a harmonious and sustainable space that meets the evolving demands of the real estate market and exceeds the expectations of future residents.

2.1 AEIOU Canvas:

AEIOU stands for Activity, Environment, Interactions, Objects and Users. A buyer can buy a house easily, house can also be taken on rent. You can choose the environment and space of your home that suits you. Communicate easily with buyers and sellers.

AEIOU Summary :		Group ID : 418772	Date : 30/3/23	Version :
Domain Name : House Price Prediction				
Environment :	Interactions :	Objects :		
Residential area.	Real estate agent to buyer.	Owner to Buyer guest	Realist on view house price.	Tablet.
Society.	Sales to Real estate agent.	Buying guest to Owner	View House Location.	Mobile.
Global.	Guest agent to viewers.		Laptop.	
Activities :	Users :			
Real estate enter house details.	Real estate agent			
View house location according to area.	block unlock user.			
View House Price.	Virtual tour of house.			
Buy house.	Virtual tour of Society.			
	Sell house.			
	Check feedback.			
	Check basic Amenities.			
	Contact Secretary			
	Real estate agent			
	Local estate agent			
	Viewer (normal person).			
	House owner (seller).			
	Buying guest.			

2.2 Empathy Canvas:

we trying to provide a convenient platform for users to browse through a wide range of properties from the comfort of their own homes, saving time and effort compared to traditional methods. These websites offer comprehensive details about properties, including photographs, descriptions, and specifications, enabling buyers and sellers to make informed decisions based on accurate information.

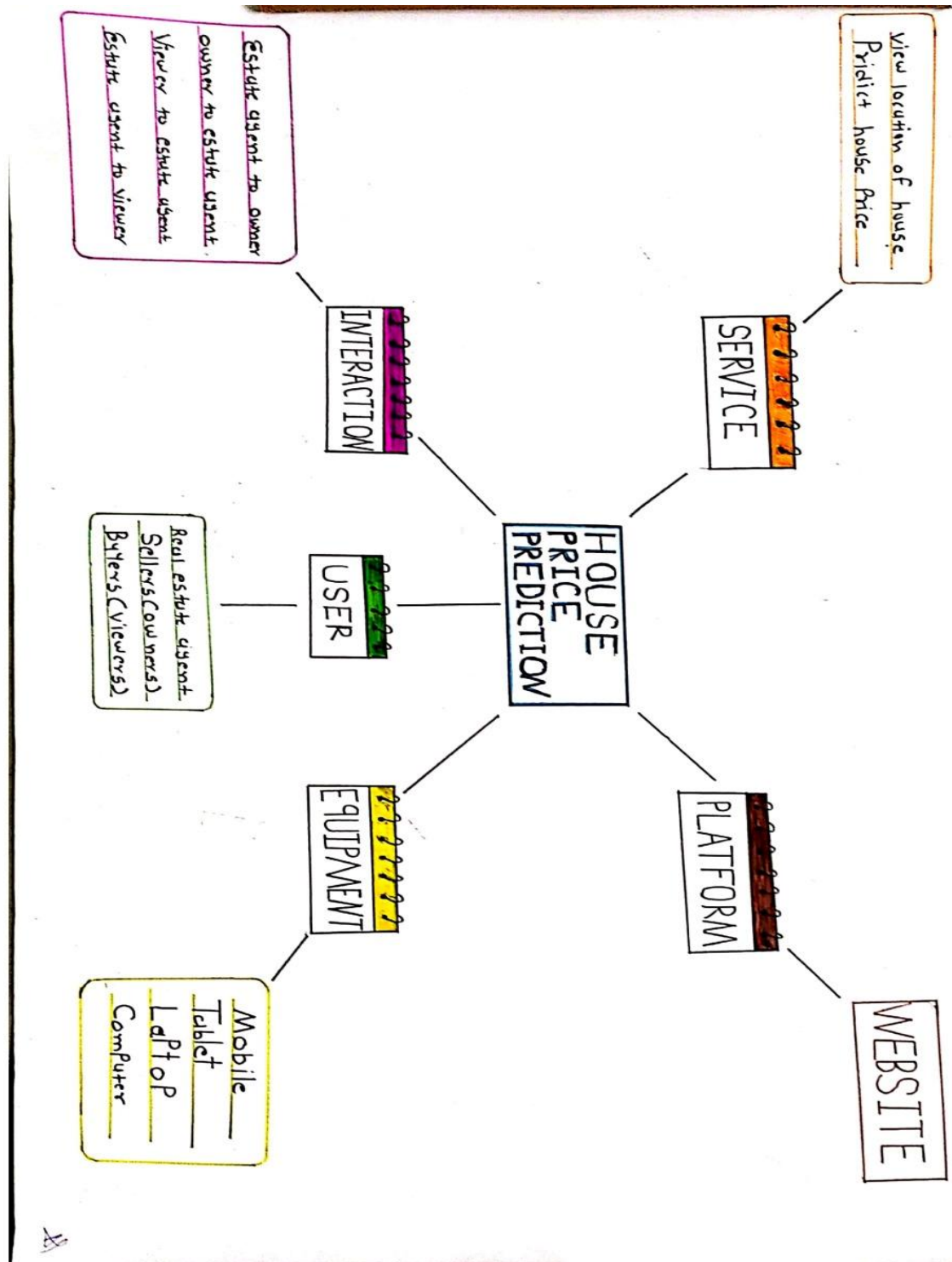
Design For HOUSE PRICE PREDICTION		Design By	
Date 31/3/2023		Version	
		Pamchal Kavish 220173107016 Ruthad Jeet 220173107029 Chaudhuri Siddhant 220173107003 Surya Dey 220173107031	
USER	STAKEHOLDERS		
Real estate Agent local estate Agent Viewer (Normal Person) House Owner Paying Guest	Admin Real estate Agent local estate Agent Viewer Owner Paying Guest		
ACTIVITIES			
Give feedback View house location according to area View House Price Sell house. Virtual tour of House Buy house. Virtual tour of Society. Contact Secretary check feedback Real estate enter house details Rent house block unlock user			
STORY BOARDING			
HAPPY (i) we will Predict the house Price According to the user input. (ii) User can see the house's location and see the interior of the house as well.			
HAPPY (i) User can be blocked for violating the guidelines. (ii) A user can buy a house, sell a house and can give it on a Rent.			
SAD (i) Only Offline payment is accepted. (ii) Time Consuming.			
SAD Buyer and Seller are Totally responsible for the document.			

2.3 Ideation Canvas:

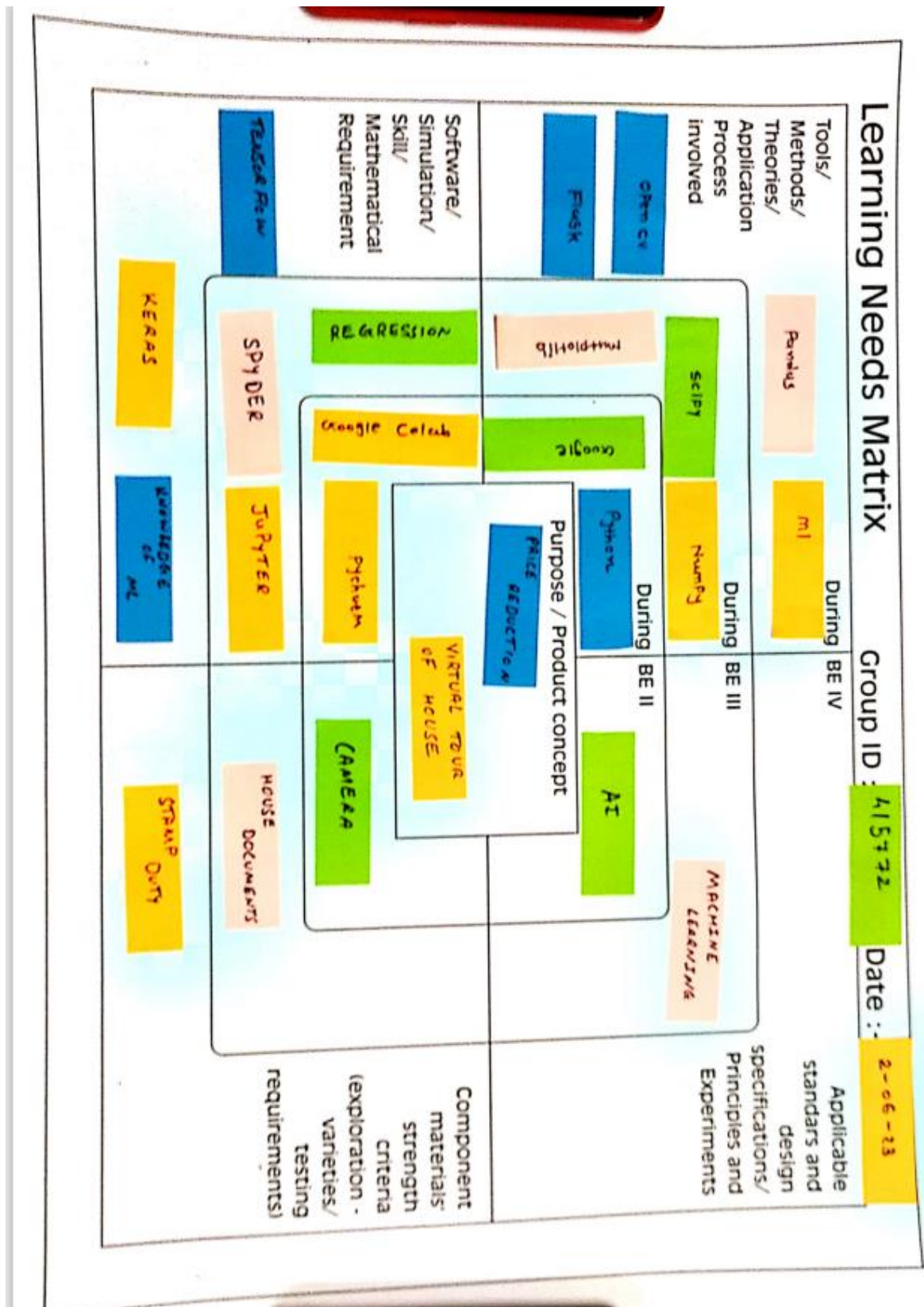


2.4 Mind-Map:

After all these observations and research, we decided to put thoughts of all team members on a single paper. We brainstormed our ideas and wrote them in mind map form, so that we can keep these things in our mind while designing a rough prototype and don't forget anything.



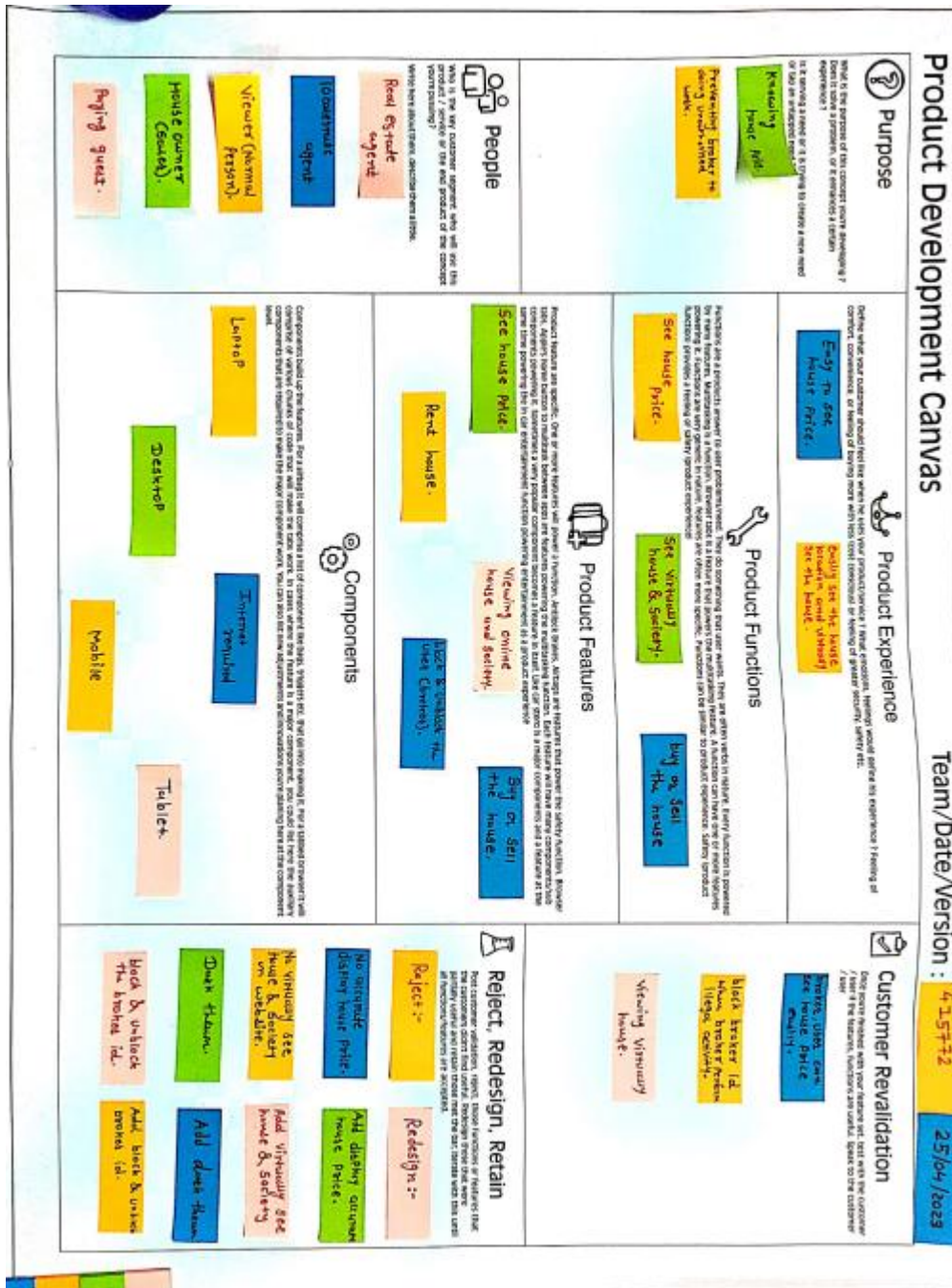
2.5 LNM Canvas:



3. PRODUCT DEVELOPMENT PHASE

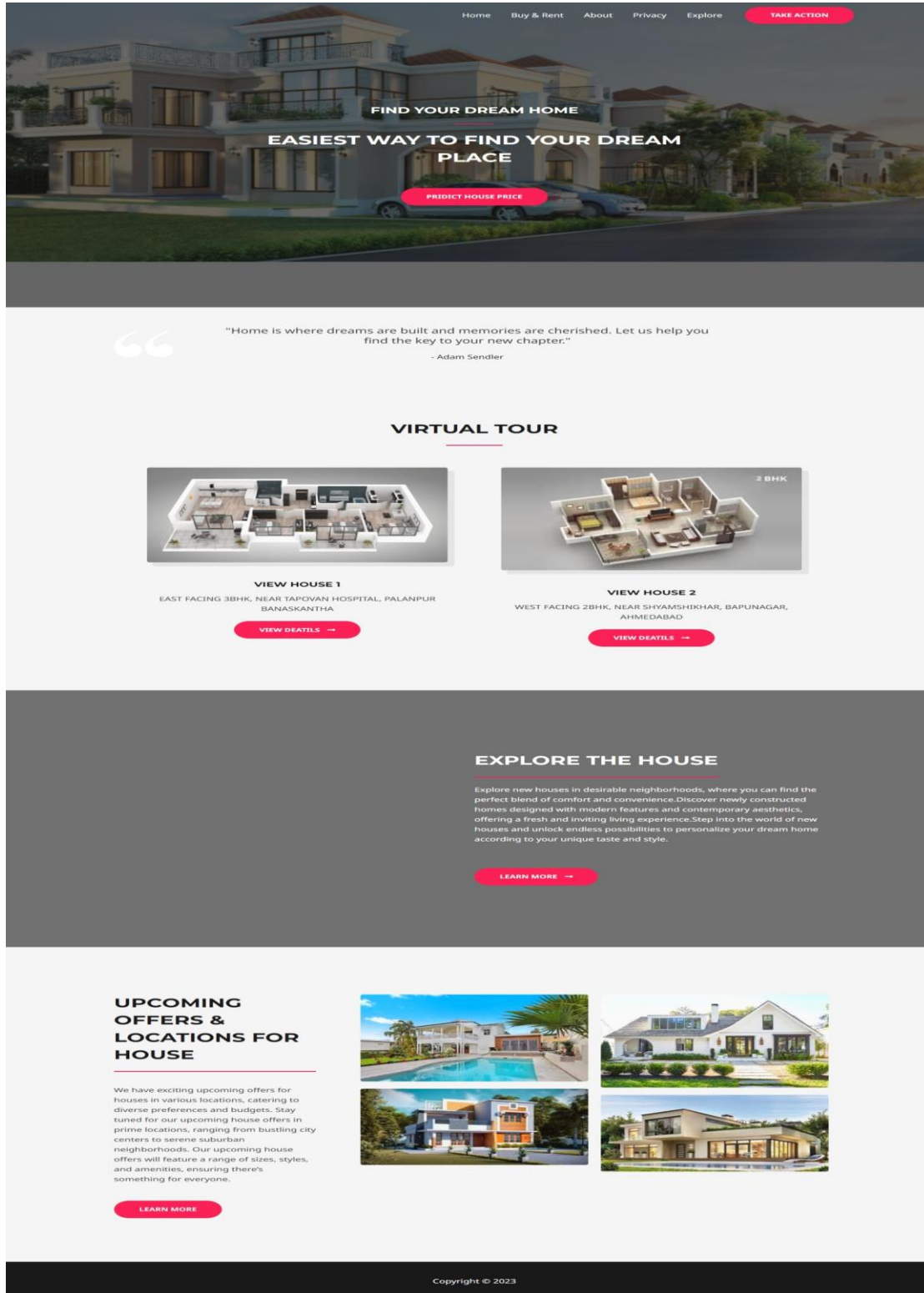
3.1 Product Development Canvas:

Product Canvas is a simple but powerful tool that helps you create a product with a great user experience and the right features. this canvas shows the purpose of the application.

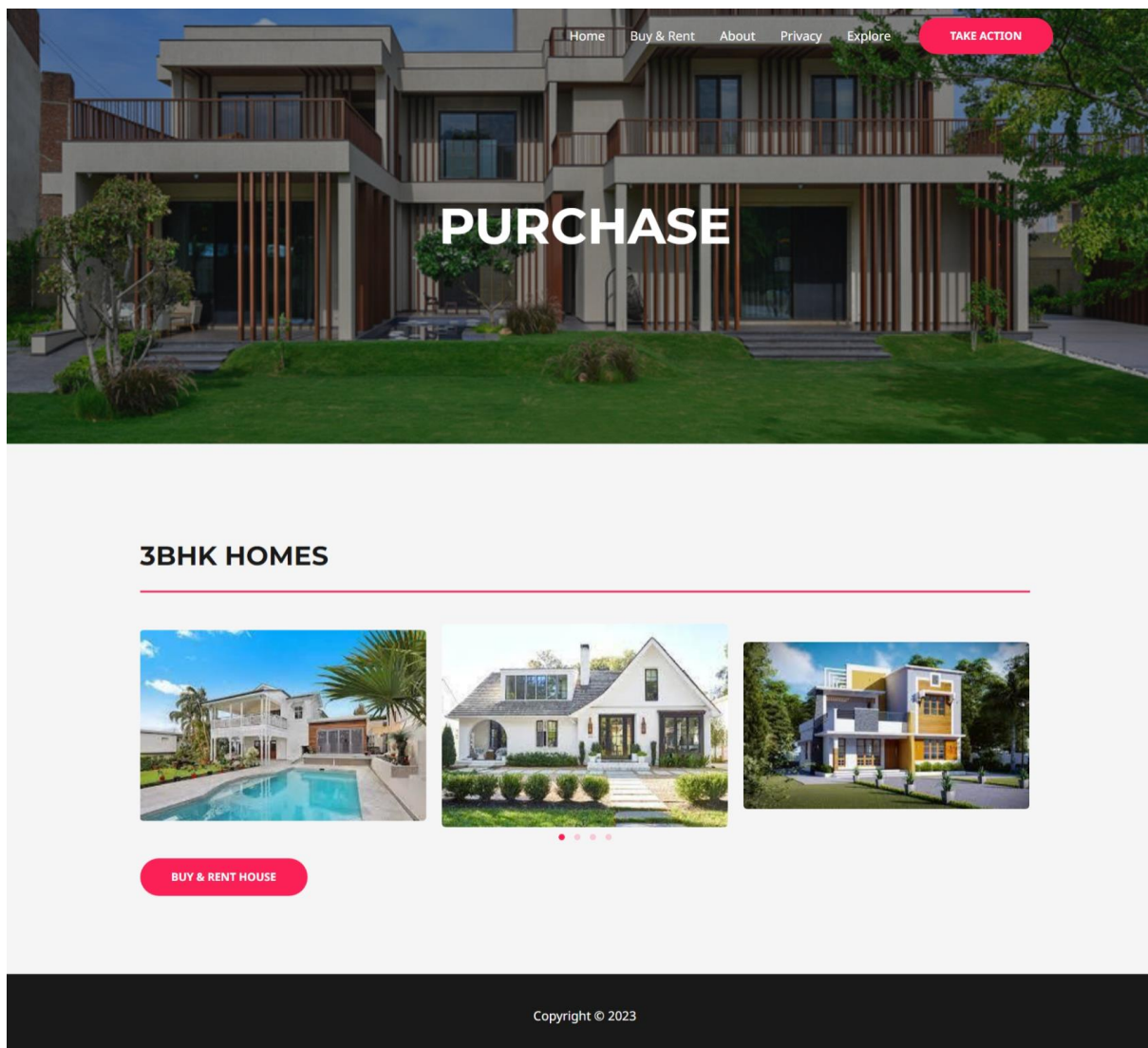


4. PROTOTYPE

4.1 Home page:



4.2 Buy & Rent page:



4.3 About page:

[Home](#) [Buy & Rent](#) [About](#) [Privacy](#) [Explore](#) [TAKE ACTION](#)

CONTACT US

WE'RE READY, LET'S TALK.

Your Name

Email Address

Message

SEND MESSAGE

CONTACT INFO

Address

Email Us
abc@gmail.com

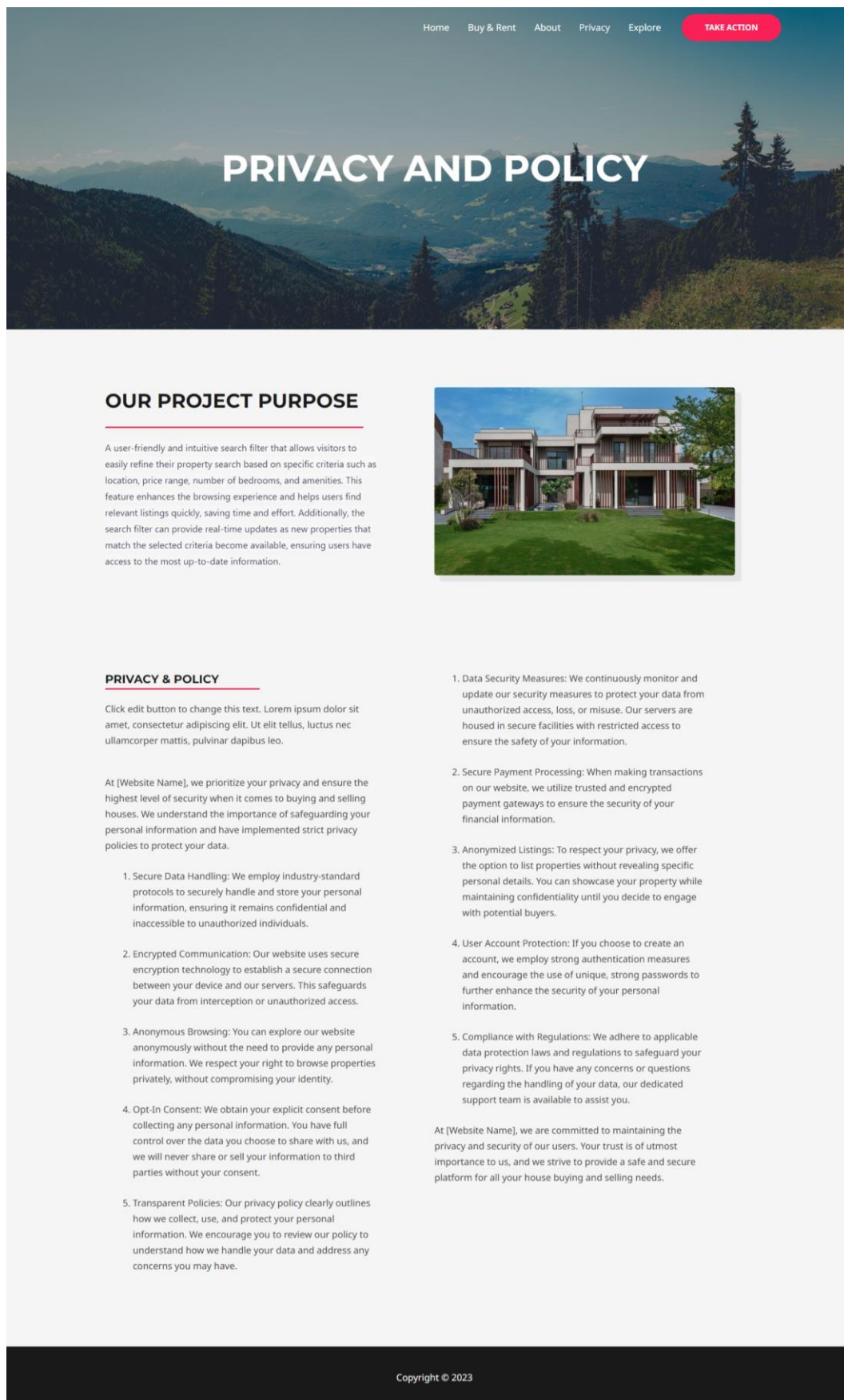
Call Us
800-123-456

Follow Us

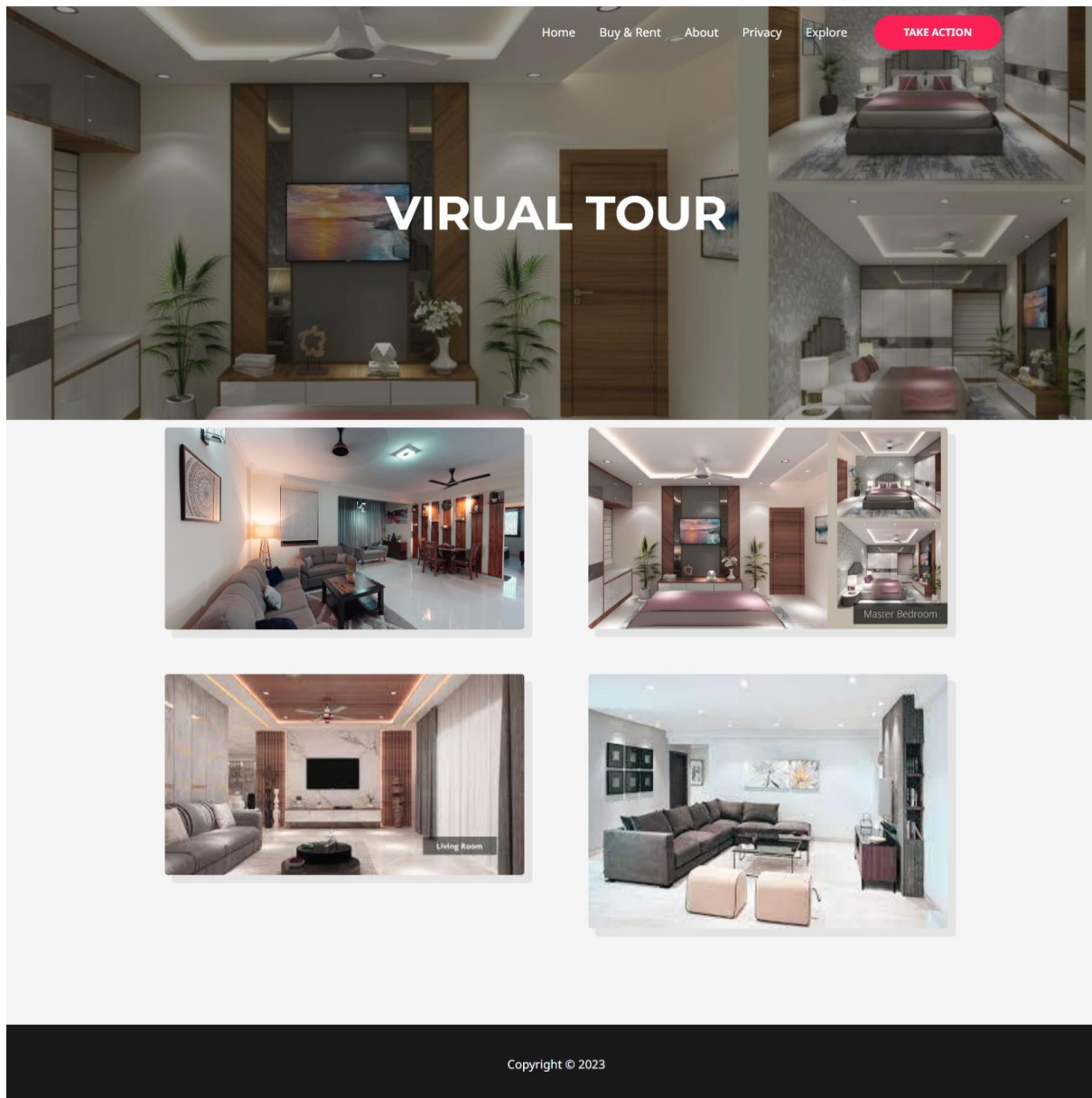
[!\[\]\(6480c1a481686073b026be5c26ab9053_img.jpg\)](#) [!\[\]\(f1bd3e98741d4ab0f132d8252e1fc285_img.jpg\)](#) [!\[\]\(083acc69ea87041ae60ef3a70a837664_img.jpg\)](#)

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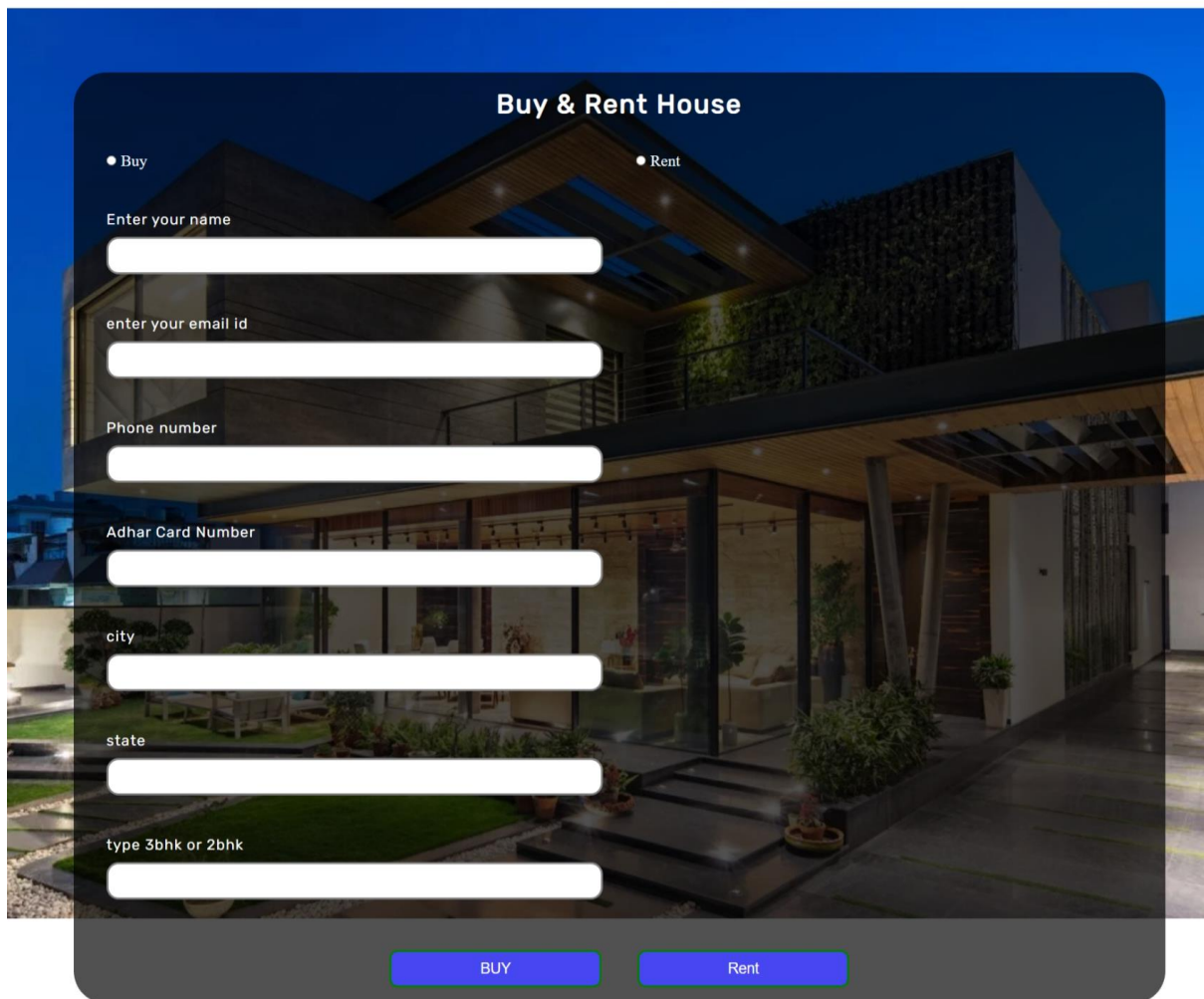
4.4 Privacy Policy page:



4.5 Virtual tour page



4.6 Buy & rent house user detail page:-

The image shows a mobile application interface for buying or renting a house. The background is a dark, high-quality photograph of a modern house at night, with interior lights glowing and some outdoor landscaping visible. Overlaid on this is a dark grey rounded rectangle containing the form. At the top of the form, the title "Buy & Rent House" is centered in white. Below the title are two radio buttons: "Buy" (which is selected) and "Rent". The form consists of seven white input fields stacked vertically, each with a label to its left: "Enter your name", "enter your email id", "Phone number", "Adhar Card Number", "city", "state", and "type 3bhk or 2bhk". At the bottom of the form, there are two blue buttons with white text: "BUY" and "Rent".

Buy & Rent House

☒ Buy ☐ Rent

Enter your name

enter your email id

Phone number

Adhar Card Number

city

state

type 3bhk or 2bhk

BUY Rent

4.7 Predict house price page:



The image shows a web form titled "House price Prediction Page" overlaid on a background image of a modern house. The form contains several input fields for property details, a set of action buttons, and a result display area.

House price Prediction Page

🟢 Broker Email ID: {{data}}

Bedrooms	Bathrooms	sqft_living
<input type="text"/>	<input type="text"/>	<input type="text"/>
sqft_lot	floor	waterfornt
<input type="text"/>	<input type="text"/>	<input type="text"/>
sqft_above	sqft_basement	yr_built
<input type="text"/>	<input type="text"/>	<input type="text"/>
Gardan	city	country
<input type="text"/>	<input type="text"/>	<input type="text"/>

LOGOUT RESET SUBMIT

Result

{{data1}}

{{data2}}

5. conclusion

Our website provides a user-friendly interface for users to easily buy or rent houses. Through the website, users can conveniently view accurate house prices based on the city or state, as well as additional parameters they enter. Additionally, buyers have the option to virtually explore houses and the societies.