

A
Project Report
On
[Real Estate Website]

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Guided by:
[Mr. Bharat Kanojiya]

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Sardar Patel College of administration & Management

CERTIFICATE



This is to certify that Ms **Krena Thakar** No. _____ of BCA SEM – VI has worked on project entitled **Real Estate Website From 15/12/2023 to 10/3/2024 US05CBCA55 Project - II** is in-house project course of two credits. He was regular in his work and developed around 40 hours for the project including analysis and design. He has completed the project satisfactorily.

Director / Head

Project Guide

Acknowledgment

The satisfaction that accompanies that the successful completion of any task would be incomplete without the mention of people whose ceaseless cooperation made it possible ,whose constant guidance and encouragement crown all efforts with success.

I am grateful to our project guide **Mr. Bharat Kanojiya** for the guidance, inspiration and constructive suggestion that helpful us in the preparation of this project.

I am also thankful to our Head of The Department **Ms. Tulsi Shah** for his continuous guidance.

I am also obliged to our Principal **Dr. Ghanshyam Rathod** for creative support.

I am also pleased to receive all facilities from our Management of **SPEC**.

I also thank my colleagues who have helped in successful completion of the project.

[Krena Kalpesh Thakar]

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1.INTRODUCTION OF PROJECT

- Real estate business and consumer portal is an estate agent and property management system is a user – friendly contact and property manager for real estate professionals. Save times and sell more by empowering to easily keep track of leads, manage listings, and market to new prospects.
- Estate Agent/property management system – Real estate is complete end to end solution to cover all aspects of estate agent day to day activity and property buying selling procedure for small and large organization.
- WE will provide a fresh new approach to our esteemed users to search for properties to buy or rent, and list their properties for selling or leasing.
- The basic objective of developing this project is:
 - Maintain client details like contact details, required property details, client type like residential and commercial client. Price limit. Preference.
 - Maintain property details, registration of property for sale includes property address, property description, price, facilities available. Store property floor plan, property documents.

2. PROBLEM STATEMENTS

- Time Consuming
- Lot of paper work
- Slow data processing
- Difficult to maintain customer's details like who were paid and who were not paid.
- Manually work
- Less Security
- Not User – Friendly environment

3. PROJECT PROFILE

| | |
|-------------------------------|--|
| TITLE OF THE PROJECT | Real Estate Website |
| FRONT-END TOOL | HTML5, CSS3, JAVASCRIPT, BOOTSTRAP |
| BACK-END TOOL | XAMMP, PHP, MySQL DATABASE |
| PROJECT DEVELOPMENT BY | Krena Kalpesh Thakar |
| PROJECT SUBMITTED TO | Sardar Patel College of Administration & Management |
| PROJECT GUIDE | Mr. Bharat Kanojiya |

4.SCOPE OF THE SYSTEM

- The basic objective of developing this project is:
- Maintain client details like contact details, required property details, client type like residential and commercial client. Price limit. Preference.
 - Category of property
 - Features of property
 - Details of property
 - Price Details
 - Available property information
 - Entering the detail contact information, and other information
 - Checking password and confirm password
 - Checking username available or not during registration process.
 - Member id is generated automatically from the table by auto generation
 - Save time of search

5. PROPOSED SYSTEM OVERVIEW

- The proposed system is a web application. It can be accessed by anywhere in the world. The proposed system has to overcome the mediators. The proposed system builds a direct communication between the owner and purchaser. With this both have an understanding and maintain their deals directly without any third party mediators.
- The proposed system for real estate business and consumer portal with graphical user interface (GUI) which handling whole part of the existing system. Due to the wide deficiencies & limited advantages old system, the GUI system was given preference. This system is developed keeping in mind to make easy approach to college is and companies to find good property and give a better change to give updating a profiles to students themselves.
- Some of main function achievements given below:
 - Time Saving
 - Secrecy
 - Attractive Layout
 - Easy modification
 - Security

6.Feasibility Study

Introduction

- A feasibility report is a document that assesses potential solutions to the business problem or opportunity, and determines which of these are viable for further analysis.
- The purpose of the feasibility report is to present the project parameters and define the potential solutions to the defined problem, need, or opportunity. Having brainstormed a variety of potential solutions, the project team expands on each of these potential solutions, providing sufficient detail, including very high-level costing information, to permit the project leader to recommend to the approving authority all of the viable potential solutions that should be further analyses in the next phase (Business Case).
- Project constraints and limitations of expenditure are among the various factors that will determine viability.

➤ **Various types of feasibility that are commonly considered include**

- i. Technical Feasibility
- ii. Operational Feasibility
- iii. Economic Feasibility

i. **Technical Feasibility**

- ii. It is related to the software and equipment specified in the design for implementing a new system.
- iii. **Technical feasibility** is a study of function, performance and constraints that may affect the ability to achieve an acceptable system. During technical analysis, the analyst evaluates the technical merits of the system, at the same time collecting additional information about performance, reliability, maintainability and productivity. Technical feasibility is frequently the most difficult areas to assess. The main technical issue raised during feasibility is the existence of necessary technology and whether the proposed equipment has the capacity to hold required data. The technical guarantee of accuracy, reliability, ease and data were also investigated.

iv. **Operational Feasibility**

- Operational feasibility is a measure of how well a proposed system solves the problems, and takes advantage of the opportunities identified during scope

definition and how it satisfies the requirements identified in the requirements analysis phase of system development.

- Operational feasibility reviews the willingness of the organization to support the proposed system. This is probably the most difficult of the feasibilities to gauge. In order to determine this feasibility, it is important to understand the management commitment to the proposed project.

If the request was initiated by management, it is likely that there is management support and the system will be accepted and used. However, it is also important that the employee base will be accepting of the change.

v. **Economic feasibility**

- Economic analysis could also be referred to as cost/benefit analysis. It is the most frequently used method for evaluating the effectiveness of a new system. In economic analysis the procedure is to determine the benefits and savings that are expected from a candidate system and compare them with costs. If benefits outweigh costs, then the decision is made to design and implement the system. An entrepreneur must accurately weigh the cost versus benefits before taking an action.

7. HARDWARE & SOFTWARE REQUIREMENTS

Hardware Requirements:

- Processor Minimum: Pentium 4 CPU and above
- 2.40 GHZ Memory
- RAM: 4GB or more
- Hard Disk:512 GB or more

Software Requirement:

- Technology: PHP
- Editor: VS CODE
- Browser: Google Chrome
- Designing Languages: HTML, CSS, BOOTSTRAP, JS
- Back – End Database: XAMMP, MYSQL
- Other Tools: -----

8. MODULES

- There are Five modules in this project:

1. Admin
2. Individual Buyer
3. Individual Property Owner
4. Builder
5. Agent

1. Admin

- Admin is a person who will handle the entire website. For that person has to give the user name and password to enter the admin page. After entering right password admin person can enter the admin home area. Here user buy different property & sell them to the system. Buyer user property & builder verify each other & make reliable communication to each other.
- **Admin have accessed to the following modules:**

- 1) Manage Property
- 2) Manage Advertisement
- 3) Owner
- 4) Manage Agent
- 5) Manage Buyer
- 6) View Feedback
- 7) Change Password

2. Buyer

- Buyer have accessed to the following modules:
- 1) **Change Password:** Buyer can change password on clicking respected link.
- 2) **Search Property owner:** Buyer can search property owner on clicking this link.
- 3) **Search/Book Property:** Buyer can search property. If property is found in respected location then he/she can book the property.
- 4) **Search Agent:** Searching of agent is done over here.

3. Property Owner

- 1)**Change Password:** Property owner can change password on clicking respected link.

- 2)**Search Property owner:** Property owner can search property owner on clicking this link.
- 3)**Search/Book Property:**Property owner can search property. If property is found in respected location then he/she can book the property.
- 5)**Search Agent:** Searching of agent is done over here.

4. Builder

- 1) **Change Password:** Admin can change password on clicking respected link.
- 2) **Manage Builder:** Admin performs different operation on advertisement.

5. Agent

- 1) **Change password:** Admin can change password on clicking respected link.
- 2) **Manage Owner:** This menu is divided into 3 sub categories.
 - a. **Owner Registration:** Owner registration is done by the agent.
 - b. **View Registered Owner:** View all the registered owner by the agent.
 - c. **View Registered property:** View all property registered by the agent.
- 3)**Manage Property:**
 - a. **Post Property:** Post property by the agent.
 - b. **Edit/Delete Property:** View all the registered owner by the agent.
- 4)**Search Property Owner:** Searching of property owner can be done here.
- 5)**Search Buyer:** Searching of buyer can be done over here.
- 6)**Update Profile:** Agent can make changes in his profile.

9.DIAGRAMS

- 1) Data Flow Diagram
 - a. Zero Level DFD
 - b. One Level DFD

DATA FLOW DIAGRAM (DFD)

A Data Flow Diagram (DFD) is a visual representation of how data moves or flows between different processes in a system. It is a modelling technique used to describe and analyse a system's functions and processes, showing how data enters and exists the system, where it is processed, and how it is stored. The DFD is also called as a data flow graph or bubble chart.

DATA FLOW DIAGRAM SYMBOLS

| Notation | De Marco & Yourdon | Gane and Sarson |
|-----------------|--------------------|-----------------|
| External Entity | | |
| Process | | |
| Data Store | | |
| Data Flow | | |

EXTERNAL ENTITY:

These represent sources of data that are external to the system. External entities are objects outside the system with which system communicates. These are sources and destinations of the system inputs and outputs. They are also known as terminators, sinks, sources or actors.

USER

PROCESS:

These are the functions or activities that transform data from one form to another. Processes can be manual or automated. A process receives input data and process output data with a different form or content. Every process has a name that identifies the function it performs. Process can be as simple as collecting input data and saving in the database or it may be as complex as producing monthly sales report of any particular product in any selected region.

Order
placing

DATA STORE:

These are places where data is stored within system. Data store are repositories of data in the system. They sometimes also referred as files. Each data store receives a simple label such as Orders.

Data of consumer

DATA FLOW:

Data flow is the path for data to move from one part of the system to another. It may be single data element or set of data element. The symbol of data flow is the arrow. These represents the movement of data between different processes, entities, and data stores in the system. The arrow shows the flow direction...

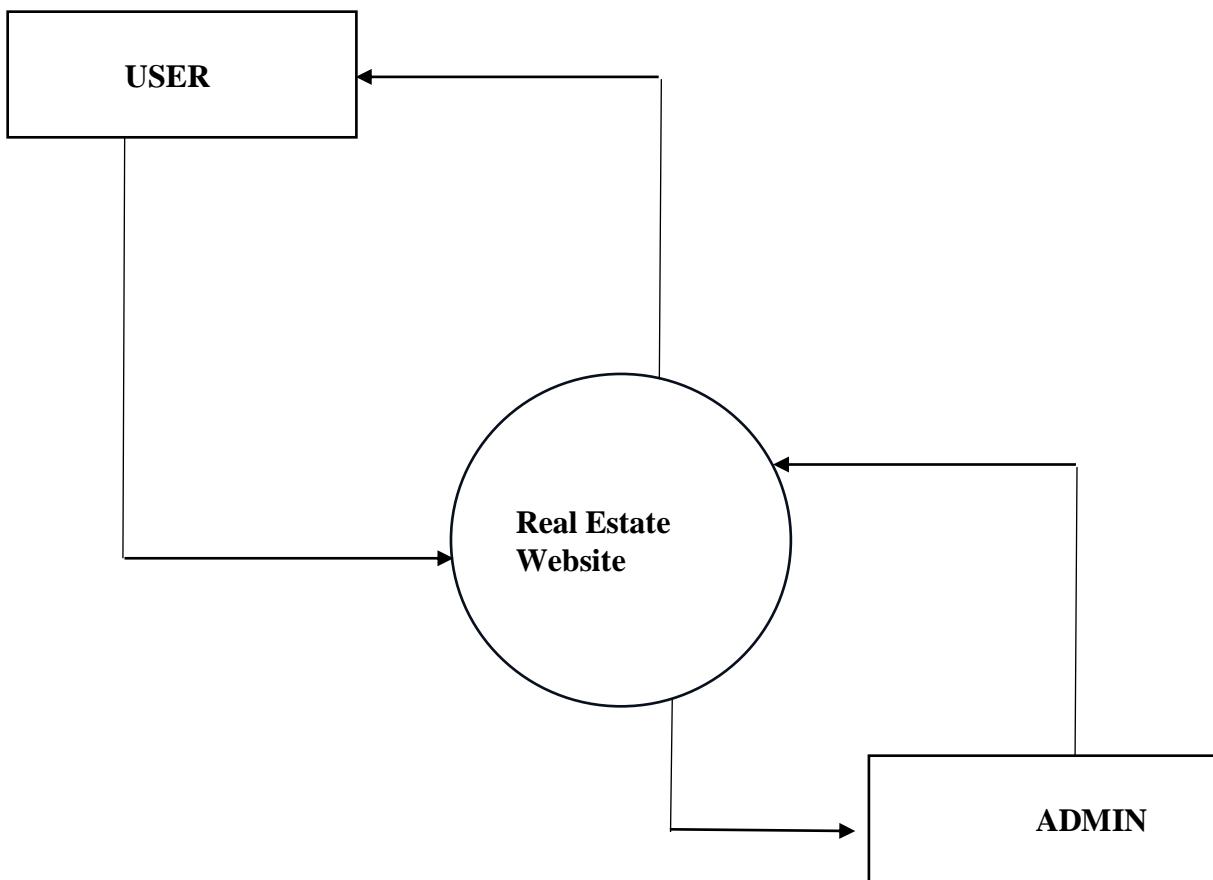


Sharing

DFD LEVELS:

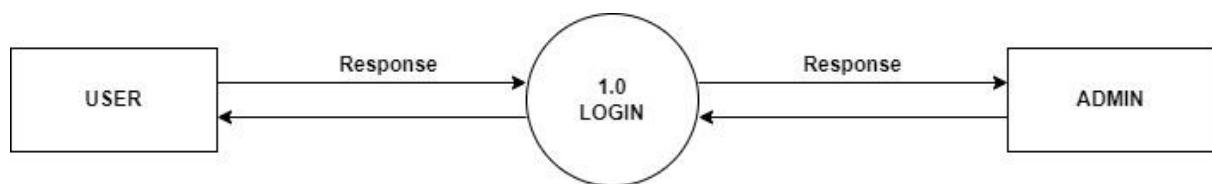
1. CONTEXT LEVEL DFD:

- A Zero level DFD (Data Flow Diagram) is a visual representation of an entire system or process the flow of information between the system and external entities. It shows the interaction between the system and its environment at a high level of abstraction, with no internal details or complexities.
- The Zero Level DFD typically consists of a single process symbol representing the entire system or process, surrounded by external entities that interact with the system

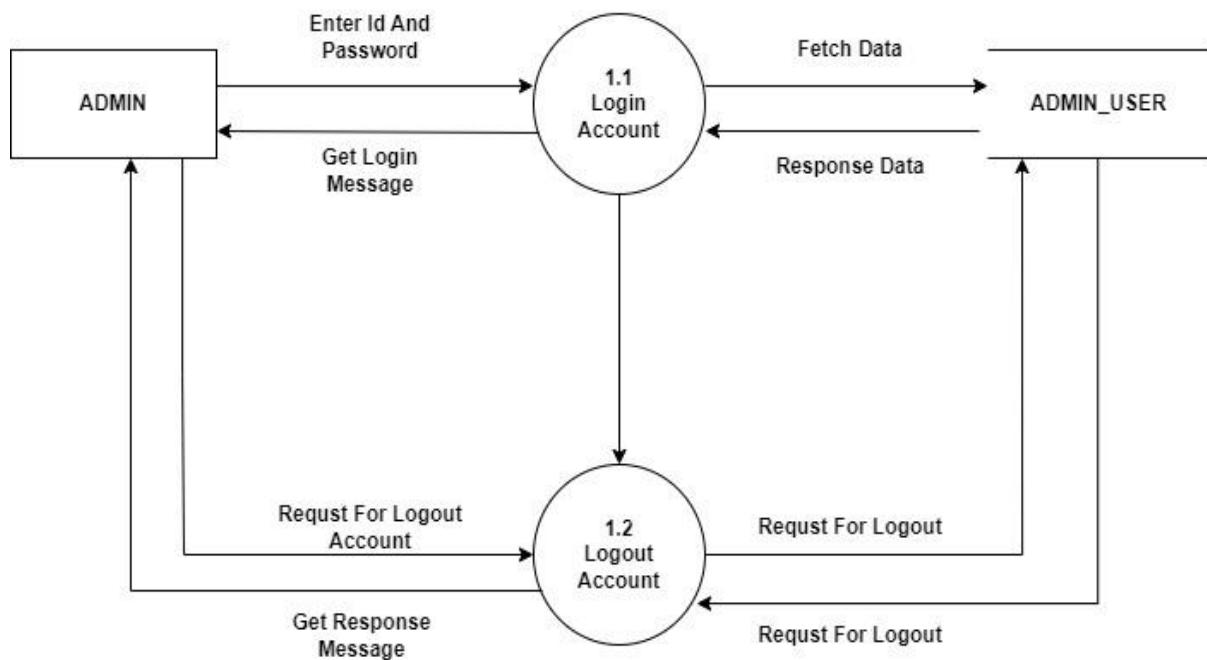


2.ZERO LEVEL DFD :

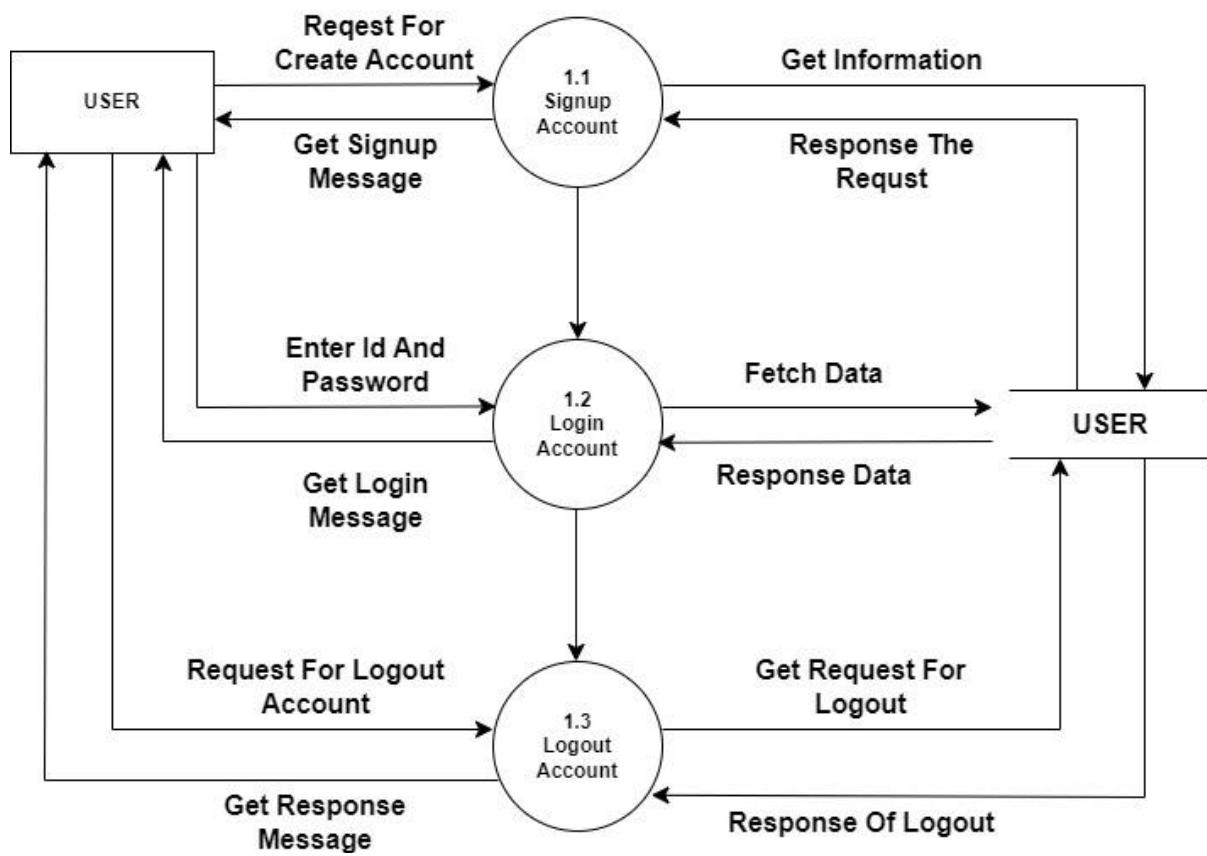
- A Level 1 Data Flow Diagram (DFD) is the next level of diagram that follows the Zero Level DFD. It provides a more detailed view of the system by breaking down each sub process in the Zero Level DFD into Further sub processes or functions. The diagram shows how data flows within each sub process and between the sub processes.



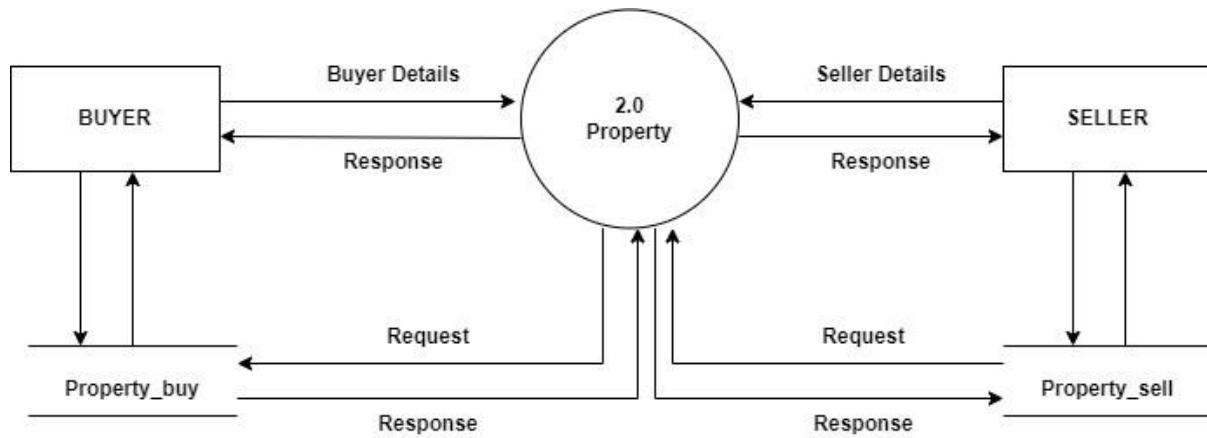
2. First LEVEL DFD (ADMIN SIDE):



2. FIRST LEVEL DFD (USER SIDE) :



2. SECOND LEVEL DFD (PROPERTY):



10.DATA DICTIONARY

ADMIN

| Field | Type | Null | Default | Extra |
|--------|-------------|------|---------|----------------|
| ald | Int(10) | No | None | Auto_increment |
| aEmail | Varchar(50) | No | None | |
| aPass | Varchar(85) | No | None | |
| aName | Varchar(80) | No | None | |
| aphone | Varchar | No | None | |
| Dates | Date | No | None | |

ABOUT

| Field | Type | Null | Default | Extra |
|---------|----------|------|---------|----------------|
| Id | Int | No | None | Auto_increment |
| title | Varchar | No | None | |
| content | Longtext | No | None | |
| image | Varchar | No | None | |

CITY

| Field | Type | Null | Default | Extra |
|-------|---------|------|---------|----------------|
| cid | Int | No | None | Auto_increment |
| cname | Varchar | No | None | |
| sid | Int | No | None | |

CONTACT

| Field | Type | Null | Default | Extra |
|---------|---------|------|---------|----------------|
| cid | Int | No | None | Auto_increment |
| name | Varchar | No | None | |
| email | Varchar | No | None | |
| phone | Varchar | No | None | |
| subject | varchar | No | None | |
| message | varchar | No | None | |

feedback

| Field | Type | Null | Default | Extra |
|--------------|----------|------|---------|----------------|
| fid | Int | No | None | Auto_increment |
| uid | Int | No | None | |
| fdescription | varchar | No | None | |
| status | Int | No | None | |
| date | datetime | No | None | |

PROPERTY

| Field | Type | Null | Default | Extra |
|----------|----------|------|---------|----------------|
| pid | Int | No | None | Auto_increment |
| title | Varchar | No | None | |
| pcontent | Longtext | No | None | |
| type | Varchar | No | None | |

| | | | | |
|-------------------|----------|----|------|--|
| bhk | Varchar | No | None | |
| stype | Varchar | No | None | |
| bedroom | Int | No | None | |
| bathroom | Int | No | None | |
| balcony | Int | No | None | |
| kitchen | Int | No | None | |
| hall | Int | No | None | |
| floor | Varchar | No | None | |
| size | Int | No | None | |
| price | Int | No | None | |
| location | Varchar | No | None | |
| city | Varchar | No | None | |
| state | Varchar | No | None | |
| feature | Longtext | No | None | |
| pimg | Varchar | No | None | |
| Pimg1 | Varchar | No | None | |
| Pimg2 | Varchar | No | None | |
| Pimg3 | Varchar | No | None | |
| Pimg4 | Varchar | No | None | |
| uid | Int | No | None | |
| status | Varchar | No | None | |
| mapimg | Varchar | No | None | |
| topmapimg | varchar | No | None | |
| groundimg | Varchar | No | None | |
| totalfloor | Varchar | No | None | |
| date | Datetime | No | None | |
| isfeatured | int | No | None | |

STATE

| Field | Type | Null | Default | Extra |
|-------|---------|------|---------|----------------|
| sid | Int | No | None | Auto_increment |
| sname | Varchar | No | None | |

USER

| Field | Type | Null | Default | Extra |
|--------|---------|------|---------|----------------|
| uid | Int | No | None | Auto_increment |
| uname | Varchar | No | None | |
| uemail | Varchar | No | None | |
| uphone | varchar | No | None | |
| upass | varchar | No | None | |
| utype | Varchar | No | None | |
| utype | Varchar | No | None | |
| uimg | varchar | No | None | |

11.Design of Input Screen

1)Register

The image shows a registration form titled "Register" with the subtitle "Access to our dashboard". The form includes four input fields: "krena" (username), "krenat@gmail.com" (email), "9854747854" (phone number), and "Your Password*" (password). Below these fields are three radio buttons for selecting a user type: "User" (selected), "Agent", and "Builder". There is also a "User Image" section with a "Choose File" button showing "team 6.jpg". A large green "Register" button is at the bottom. Below the button is the text "OR" followed by a link "Already have an account? Login".

- The registration page on a website allows users to create accounts. It features form fields for entering details like username, password, and optional information.
- Validation ensures data accuracy, while Captcha prevents bots. Users agree to terms, submit the form, and receive confirmation upon successful registration.

2)Login

Login
Access to our dashboard

krenathakar@gmail.com

••••

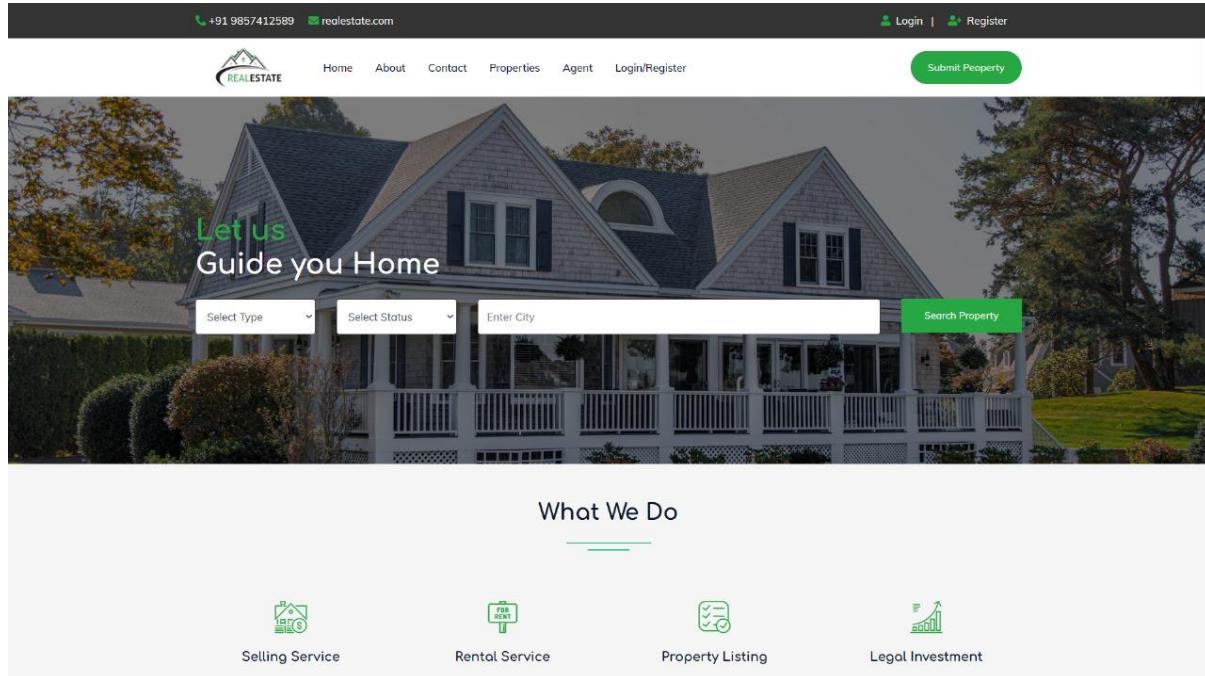
Login

OR

Don't have an account? [Register](#)

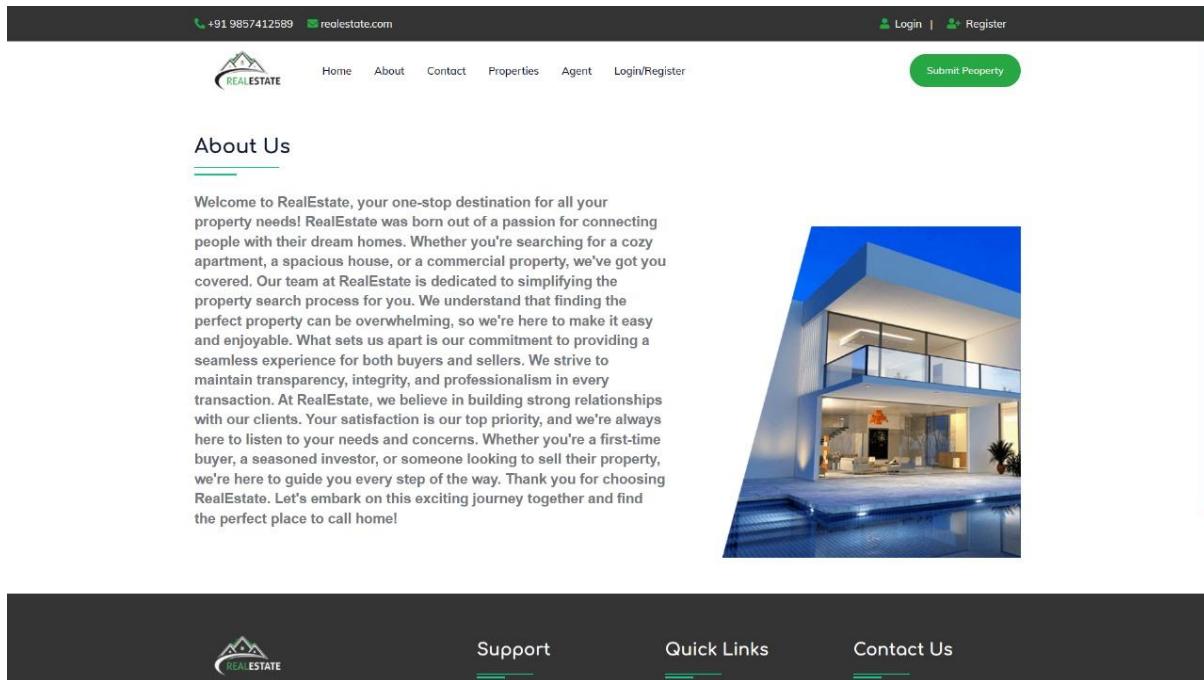
- The login page on a website enables users to access their accounts. It typically includes fields for entering a username/email and password. After submission, the server validates the credentials, granting access upon success. Error messages may display for incorrect entries. Security measures like encryption safeguard user data.

3) Home Page



- The home page of a real estate website provides a welcoming introduction to visitors, showcasing featured properties, search options, and key services.

4) About Us Page



The screenshot shows a real estate website's 'About Us' page. At the top, there is a dark header bar with contact information (+91 9857412589) and a logo (real estate). To the right are 'Login' and 'Register' buttons. Below the header is a navigation menu with links to 'Home', 'About', 'Contact', 'Properties', 'Agent', and 'Login/Register'. A green button labeled 'Submit Property' is located in the top right corner. The main content area has a title 'About Us' with a horizontal line underneath. Below the title is a paragraph of text. To the right of the text is a large, modern, two-story house with a swimming pool at night.

Welcome to RealEstate, your one-stop destination for all your property needs! RealEstate was born out of a passion for connecting people with their dream homes. Whether you're searching for a cozy apartment, a spacious house, or a commercial property, we've got you covered. Our team at RealEstate is dedicated to simplifying the property search process for you. We understand that finding the perfect property can be overwhelming, so we're here to make it easy and enjoyable. What sets us apart is our commitment to providing a seamless experience for both buyers and sellers. We strive to maintain transparency, integrity, and professionalism in every transaction. At RealEstate, we believe in building strong relationships with our clients. Your satisfaction is our top priority, and we're always here to listen to your needs and concerns. Whether you're a first-time buyer, a seasoned investor, or someone looking to sell their property, we're here to guide you every step of the way. Thank you for choosing RealEstate. Let's embark on this exciting journey together and find the perfect place to call home!

- The "About Us" page on a real estate website provides essential information about the company, its mission, and its team.
- The "About Us" page on a real estate website offers insight into the company's background, values, and expertise.

5)Contact

The screenshot shows a contact form on a real estate website. At the top, there's a dark header bar with a phone icon (+91 9857412589), a mail icon (realestate.com), and user account links (Login | Register). Below the header is a navigation menu with links: Home, About, Contact, Properties, Agent, Login/Register, and a green 'Submit Property' button. On the left, there's a sidebar titled 'Contacts' containing three sections: 'Address' (27 Ingram Street, Ahmedabad), 'Call Us' (+91 9857412587, +91 9857412575), and 'Email Address' (helpline@realestate.com, helpline@realestate.com). The main right section is titled 'Get In Touch' and features a 'Type Comments...' text area, four input fields for 'Your Name*', 'Email Address*', 'Phone', and 'Subject', and a 'Send Message' button at the bottom.

- The contact page on a real estate website facilitates communication between potential clients and the company.
- The contact page on a real estate website provides users with essential information to reach out for inquiries or assistance.

6)Property

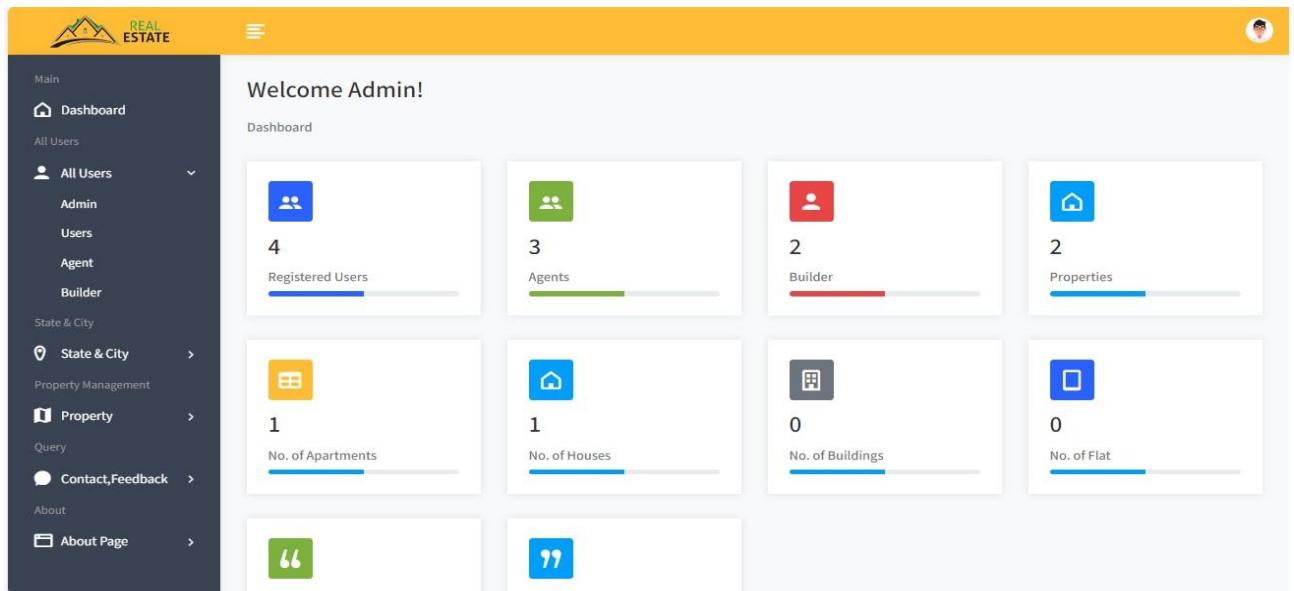
The screenshot shows a real estate website interface. At the top, there is a header bar with a phone number (+91 9857412589), a logo, and links for Home, About, Contact, Properties, Agent, Login/Register, and a green 'Submit Property' button. Below the header, there are two property cards:

- Zills Home**: A single-story house with a red door and a small porch. It is labeled "For sale" and has a price of ₹2196900 and 1869 Sqft.
- Home Town**: A modern, multi-story house with a large swimming pool. It is labeled "For sale" and has a price of ₹2500000 and 2000 Sqft.

On the right side of the page, there is an "Instalment Calculator" section with input fields for Property Price, Duration Year, and Interest Rate, followed by a "Calculate Instalment" button. Below that is a "Featured Property" section showing a thumbnail of a house labeled "Home Town" and "Anand". Further down is a "Recently Added Property" section showing another thumbnail of a house labeled "Home Town" and "Anand".

- The property description page on a real estate website provides detailed information about individual properties.
- The property description page on a real estate website offers comprehensive details about a specific property.

7) Admin Dashboard



- The admin dashboard page on a real estate website provides a centralized interface for managing various aspects of the platform.
- The admin dashboard page on a real estate website serves as a control panel for administrators to oversee and manage the website's operations.

7)All Users

Admin List

| # | Name | Email | Date Of Birth | Contact | Action |
|---|-------|-----------------|---------------|------------|-------------------------|
| 1 | admin | admin@gmail.com | 1994-12-06 | 1470002569 | <button>Delete</button> |

Showing 1 to 1 of 1 entries

User List

| # | Name | Email | Contact | Utype | Image | Action |
|---|----------|-------------------|------------|-------|-------|-------------------------|
| 1 | Crisisha | crisisha@mail.com | 7777444655 | user | | <button>Delete</button> |
| 2 | Thomas | thomas@mail.com | 7896605555 | user | | <button>Delete</button> |
| 3 | Stones | Stones@mail.com | 7965555444 | user | | <button>Delete</button> |
| 4 | shruti | shruti@mail.com | 8542221140 | user | | <button>Delete</button> |

Showing 1 to 4 of 4 entries

Agent List

| # | Name | Email | Contact | Utype | Image | Action |
|---|-------|----------------|------------|-------|-------|-------------------------|
| 1 | Mick | mick@mail.com | 7775552214 | agent | | <button>Delete</button> |
| 2 | Moore | moore@mail.com | 7896547855 | agent | | <button>Delete</button> |
| 3 | Jones | Jones@mail.com | 568547852 | agent | | <button>Delete</button> |

Showing 1 to 3 of 3 entries

Builder List

| # | Name | Email | Contact | Utype | Image | Action |
|---|----------|------------------|------------|---------|-------|-------------------------|
| 1 | Fredrika | fred@mail.com | 7850002587 | builder | | <button>Delete</button> |
| 2 | krenat | krenat@gmail.com | 8587412587 | builder | | <button>Delete</button> |

Showing 1 to 2 of 2 entries

12. Testing Procedure & Implementation Phases

❖ Testing Procedure for a Real Estate Website:

Functionality Testing: Ensure all website features work as expected. Test property search, listings, filters, and user registration.

Compatibility Testing: Verify website performance across different browsers (like Chrome, Firefox, Safari) and devices (desktop, tablet, mobile).

Usability Testing: Assess user-friendliness. Check if navigation is intuitive, and users can easily find properties and access essential information.

Performance Testing: Evaluate website speed and responsiveness. Ensure pages load quickly, and the website can handle multiple users without crashing.

Security Testing: Test for vulnerabilities like data breaches and unauthorized access. Check SSL certificates, secure payment gateways, and user authentication mechanisms.

SEO Testing: Ensure the website is optimized for search engines. Check metadata, URLs, and content to improve visibility on search engine result pages.

Integration Testing: Verify seamless integration with third-party tools like property management software, CRM systems, and payment gateways.

Regression Testing: Test to ensure recent changes or updates haven't adversely affected existing functionalities.

❖ **Implementation Phases for a Real Estate Website:**

Planning: Define project goals, target audience, and features required. Create a roadmap and allocate resources.

Design: Develop wireframes and prototypes. Design user interfaces, considering branding and usability principles.

Development: Build the website using appropriate technologies (like HTML, CSS, JavaScript, and backend frameworks). Implement features such as property search, listings, user registration, and payment processing.

Testing: Conduct various tests as outlined in the Testing Procedure section to ensure the website functions correctly and meets quality standards.

Deployment: Launch the website on a hosting platform. Configure servers, domain, and databases. Monitor performance and address any issues that arise during deployment.

Optimization: Continuously optimize the website for speed, usability, and search engine ranking. Collect user feedback and make necessary improvements.

Maintenance: Regularly update content, fix bugs, and address security vulnerabilities. Keep the website relevant and competitive in the real estate market.

13. Limitations

1. **Limited Property Insight:** Users can't physically experience properties through the website, so they may miss details like the feel of the space or the neighborhood vibe.
2. **Reliance on Visuals:** Users heavily depend on images and descriptions, which might not always accurately depict the property's condition or surroundings.
3. **Incomplete Information:** Some vital details about a property may be missing, leaving users with an incomplete picture.
4. **Lack of Personal Guidance:** Users might not receive personalized advice from real estate professionals as they would in person.
5. **Limited Property Listings:** Not all available properties may be listed on the website, reducing user options.
6. **Technology Barriers:** Users lacking access to technology or the internet might find it difficult to use real estate websites.
7. **Privacy and Security Risks:** Sharing personal information online raises concerns about privacy and data security for some users.

14. Proposed Enhancement

- 1. Virtual Tours:** Introduce virtual tour features allowing users to explore properties remotely, providing a more immersive experience.
- 2. Advanced Filtering Options:** Enhance filtering options to allow users to narrow down property searches based on specific criteria like price range, amenities, and property type.
- 3. Integrated Mortgage Calculator:** Include a mortgage calculator tool to help users estimate monthly payments and better understand their financial commitments.
- 4. Personalized Recommendations:** Utilize user data to offer personalized property recommendations based on their search history and preferences.
- 5. Localized Content:** Provide localized content such as market trends, neighborhood guides, and school information to offer valuable insights to users.
- 6. Responsive Design:** Ensure the website is optimized for various devices, providing a seamless experience across desktops, tablets, and mobile phones.

15. Conclusion

- Real estate websites serve as valuable platforms for property search and information dissemination. However, they come with limitations such as reliance on visuals, incomplete information, and transaction complexities. Proposed enhancements like virtual tours, advanced filtering options, and personalized recommendations can address some of these limitations, improving user experience and engagement. Despite challenges, real estate websites continue to evolve, striving to provide more comprehensive and user-friendly solutions for property seekers.

15. References

- <https://github.com/topics/real-estate-website>
- <https://www.geeksforgeeks.org>
- <https://www.w3schools.com/php/default.asp>