

REAL ESTATE WEB APPLICATION

A MINI-PROJECT REPORT

Submitted by

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RAJALAKSHMI ENGINEERING COLLEGE

AUTONOMOUS, CHENNAI

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BONAFIDE CERTIFICATE

Certified that this mini project **“REAL ESTATE WEB APPLICATION”** is the bonafide work of **“AFRIN FATHIMA I (2116220701014)”** who carried out the project work under my supervision.

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ABSTRACT

The "Real Estate Web Application - FindUrHome" is a dynamic platform designed to simplify the process of finding homes. By providing comprehensive property listings, advanced search filters, and an intuitive user interface, the application caters to buyers, renters, and property owners alike. Developed using modern web technologies, it ensures a seamless experience through responsive design and efficient functionality. Users can explore properties based on location, type, and amenities, making informed decisions with ease. With features like interactive layouts and user-friendly navigation, FindUrHome bridges the gap between property seekers and providers, enhancing the home-search journey effectively.

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CHAPTER 1

1.1 INTRODUCTION

The purpose of the real estate web application is to simplify and optimize the process of buying, renting, and managing properties, ensuring users have access to comprehensive listings and tools. It aims to provide a seamless experience for property seekers and owners, enhancing convenience and efficiency in the real estate market.

1.2 SCOPE OF THE WORK

The scope of the real estate web application includes managing property listings, facilitating property searches, and offering tools for buying, renting, and managing properties. It focuses on user account management, advanced search filters, and seamless communication between property seekers and owners. The application is designed to streamline the process of listing, browsing, and inquiring about properties, ensuring a smooth and user-friendly experience for both buyers and renters. The ultimate goal is to provide a comprehensive, easy-to-use platform that enhances the property discovery process, making it more accessible and efficient for users.

1.3 PROBLEM STATEMENT

The current real estate platforms often face challenges such as complex navigation, free-to-use listings with limited features, and lack of personalized tools. Users find it difficult to search, compare, and manage properties effectively, leading to frustration and inefficiency. Additionally, there is a lack of integration between property buyers, renters, and sellers, which results in increased transactional time and reliance on third-party agents. This web application, FindUrHome, is being developed to address these issues and provide an intuitive, streamlined platform for property-related transactions. The goal is to enhance the user experience and reduce dependency on intermediaries and improving market accessibility in the real estate process.

1.4 AIM AND OBJECTIVES OF THE PROJECT

The aim of this project is to develop a user-friendly real estate web application, which streamlines the process of property searching, listing, and management for buyers, renters, and sellers. This platform will offer an efficient and intuitive interface that allows users to easily search for available properties based on various filters such as location, property amenities and type of property. Property owners and agents will be able to list their properties effortlessly, providing detailed information such as photos, prices, and descriptions. The web application is designed to be fully responsive, ensuring optimal functionality across both desktop and mobile devices, thus providing users with a seamless experience.

The system will also include a secure login feature to protect user data and personalize the user experience. Furthermore, the goal is to eliminate the need for third-party agents by creating a direct connection between property seekers and owners, making the platform a cost-effective and efficient solution for real estate transactions.

CHAPTER 2

SYSTEM SPECIFICATIONS

2.1 HARDWARE SPECIFICATIONS

Processor	:	Pentium IV Or Higher
Memory Size	:	128 GB (Minimum)
HDD	:	40 GB (Minimum)

2.2 SOFTWARE SPECIFICATIONS

Operating System	:	WINDOWS 7 Or Higher
Front – End	:	HTML, CSS, BOOTSTRAP, JAVASCRIPT
Back – End	:	PHP, MYSQL

CHAPTER 3

ARCHITECTURE DIAGRAM

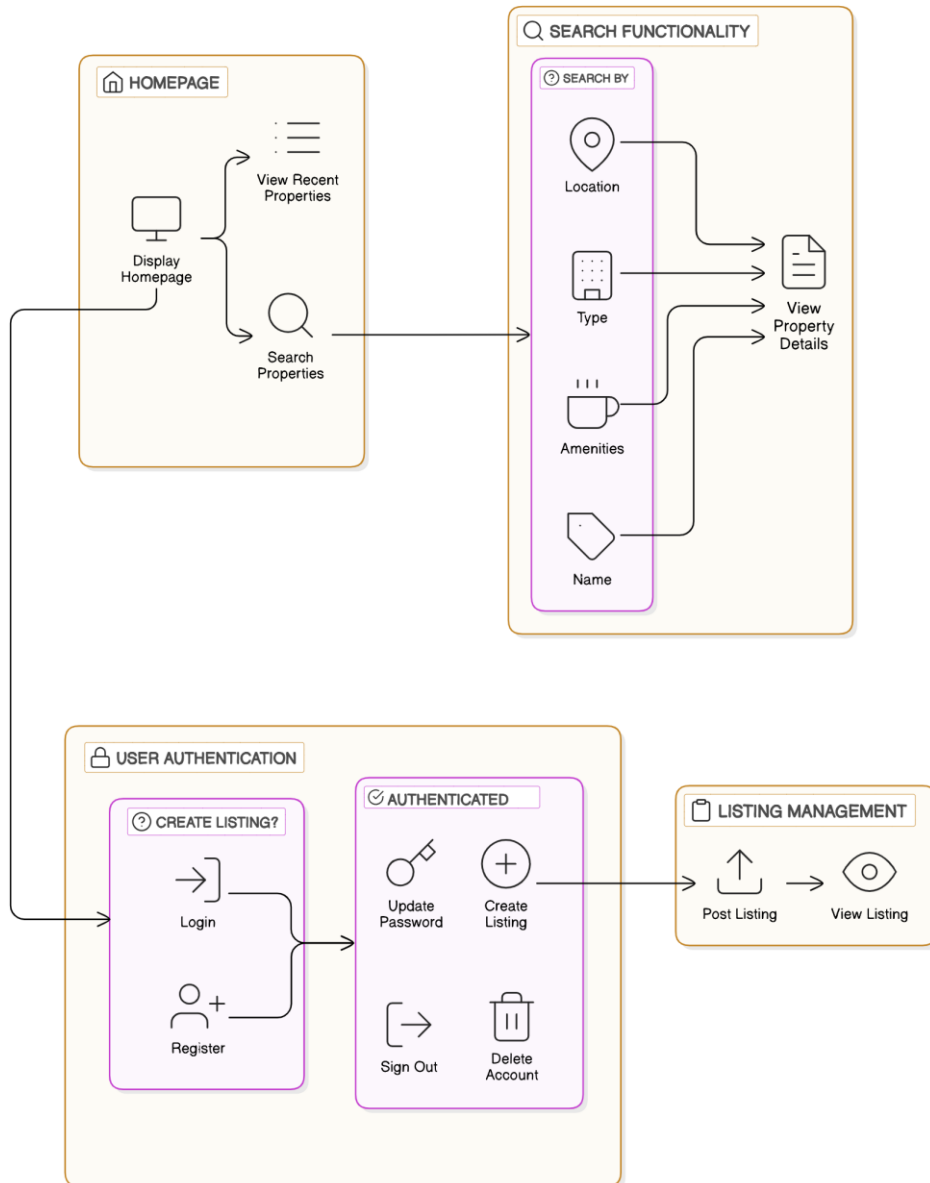


Fig. 3.1. Architecture Diagram

The Architecture Diagram displays a home page where users can view recent properties and search based on criteria like location, name, amenities, and property type. Users must log in or register to create a listing, and once logged in, they can sign out, update their account, and post listings. After posting, the listings are visible to all users, and each listing can be viewed in detail.

CHAPTER 4

MODULE DESCRIPTION

4.1. User Registration and Login Module:

This module enables users to register and log in to the real estate platform. Users can register by providing their basic details such as email address, and password. After registration, users can log in using their credentials (email and password). The login functionality is handled through the login.php file, ensuring secure authentication and user session management. Upon successful login, users can access their profile, post property listings.

4.2. Property Listing and Management Module:

The property listing and management module allows property owners and agents to list properties for sale or rent on the platform. This is handled by the create_listing.php file, where users can enter details about the property, such as location, price, images, and description. The property data is stored in the database and is accessible via the property.php file, where users can view property details.

4.3. About Module:

The About module provides information about the platform, including its purpose, features, and goals. This content is available on the about.php page, which includes details about the platform, its vision, and contact information for support. Users can learn more about the platform's services and how it simplifies the process of buying, renting, and selling properties.

4.4. Profile and User Management Module:

The Profile module allows users to view and manage their personal information. Users can update their account details or delete their account. This functionality is handled through the profile.php file, where users can logout of their session also. This module enhances user experience by providing a personalized dashboard for managing their account and creating listings.

4.5. Property Search Module:

This module enables users to search for properties based on different criteria such as location, property type, and more. The search functionality is implemented in the search.php file, where users can filter and find properties that match their preferences. The module displays a list of matching properties, allowing users to view property details by clicking on individual listings.

CHAPTER 5

SYSTEM DESIGN

5.1 USE CASE DIAGRAM

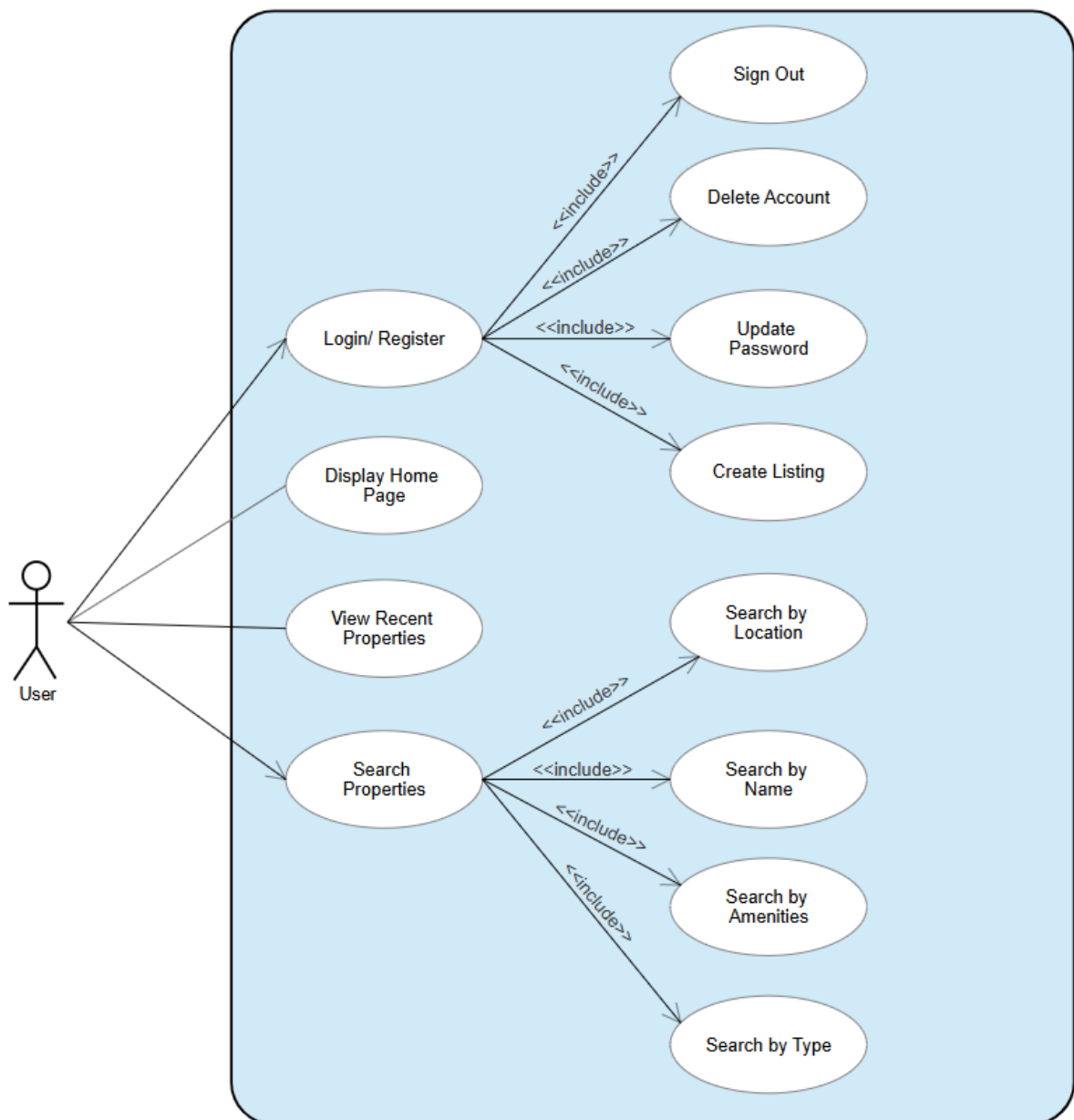


Fig. 5.1. Use Case Diagram

The use case diagram illustrates a system where users can view recent properties, search listings, log in/register to create and manage listings, and view detailed property information.

5.2 ER DIAGRAM

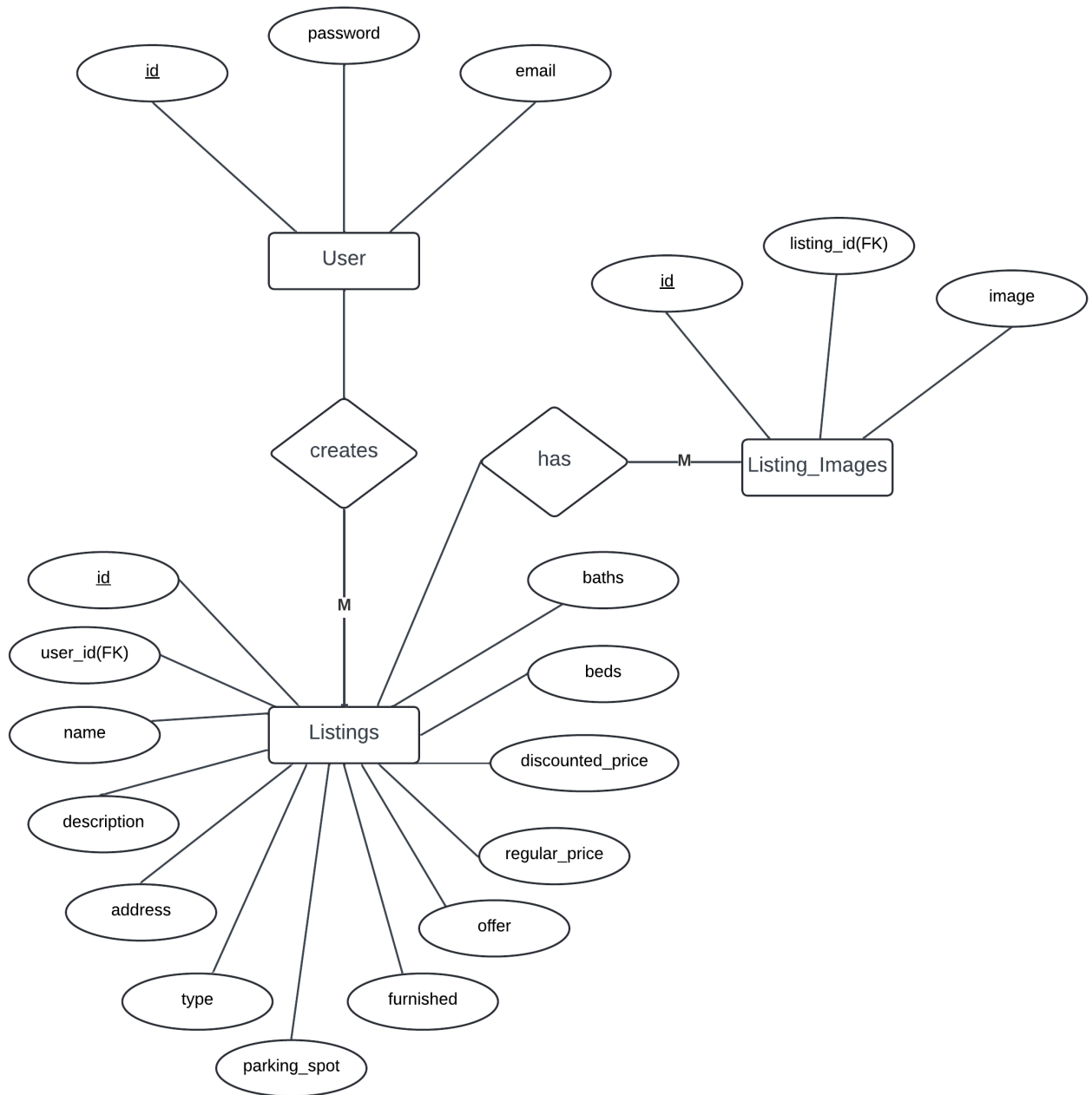


Fig. 5.2. Entity Relationship Diagram

The ER diagram represents the relationships between users, listings, and listing images, where users can create listings, and each listing can have multiple associated images.

5.3 DFD DIAGRAM

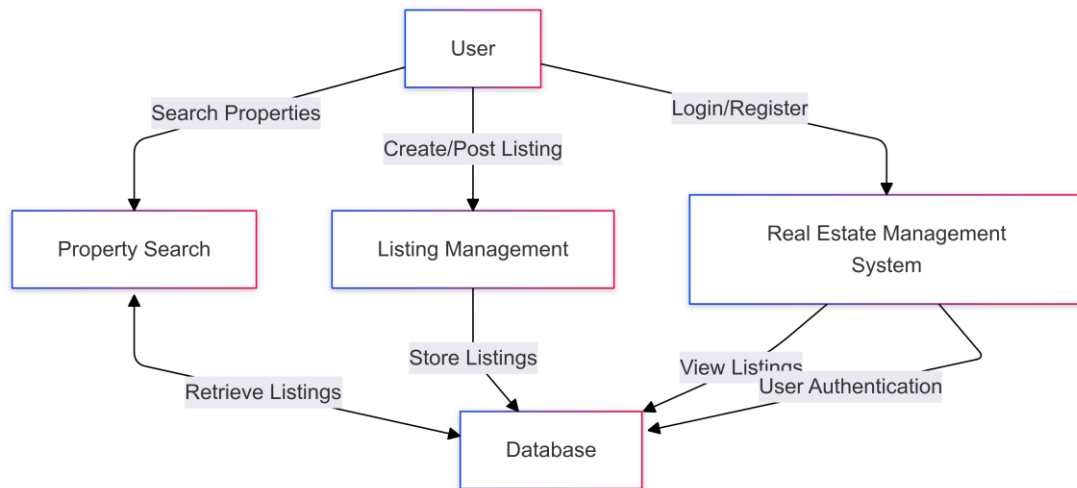


Fig. 5.3.1. DFD Level-0 Diagram

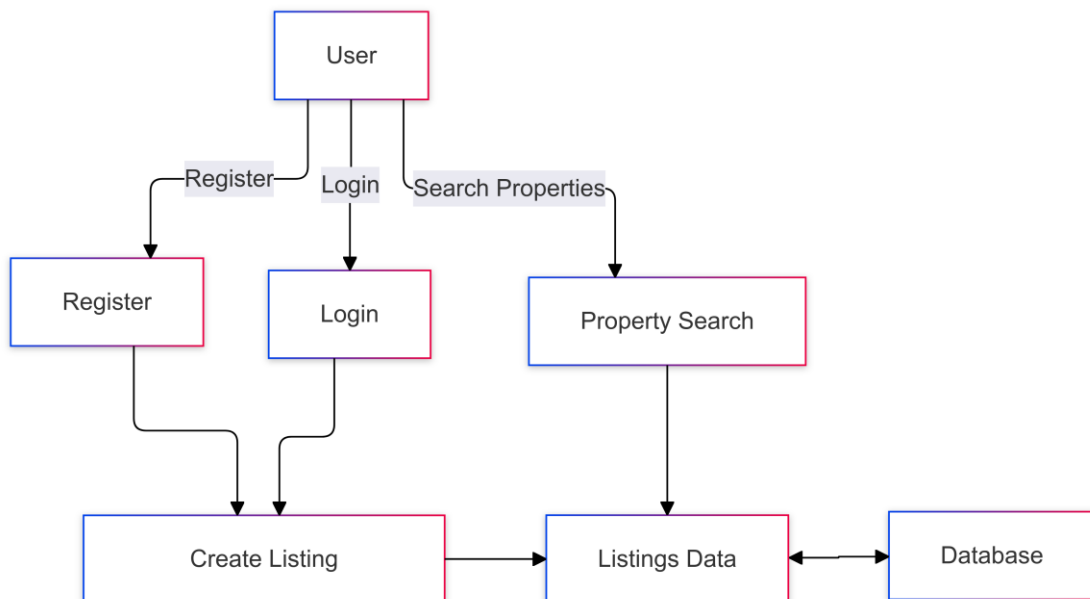


Fig. 5.3.2. DFD Level-1 Diagram

5.4 ACTIVITY DIAGRAM

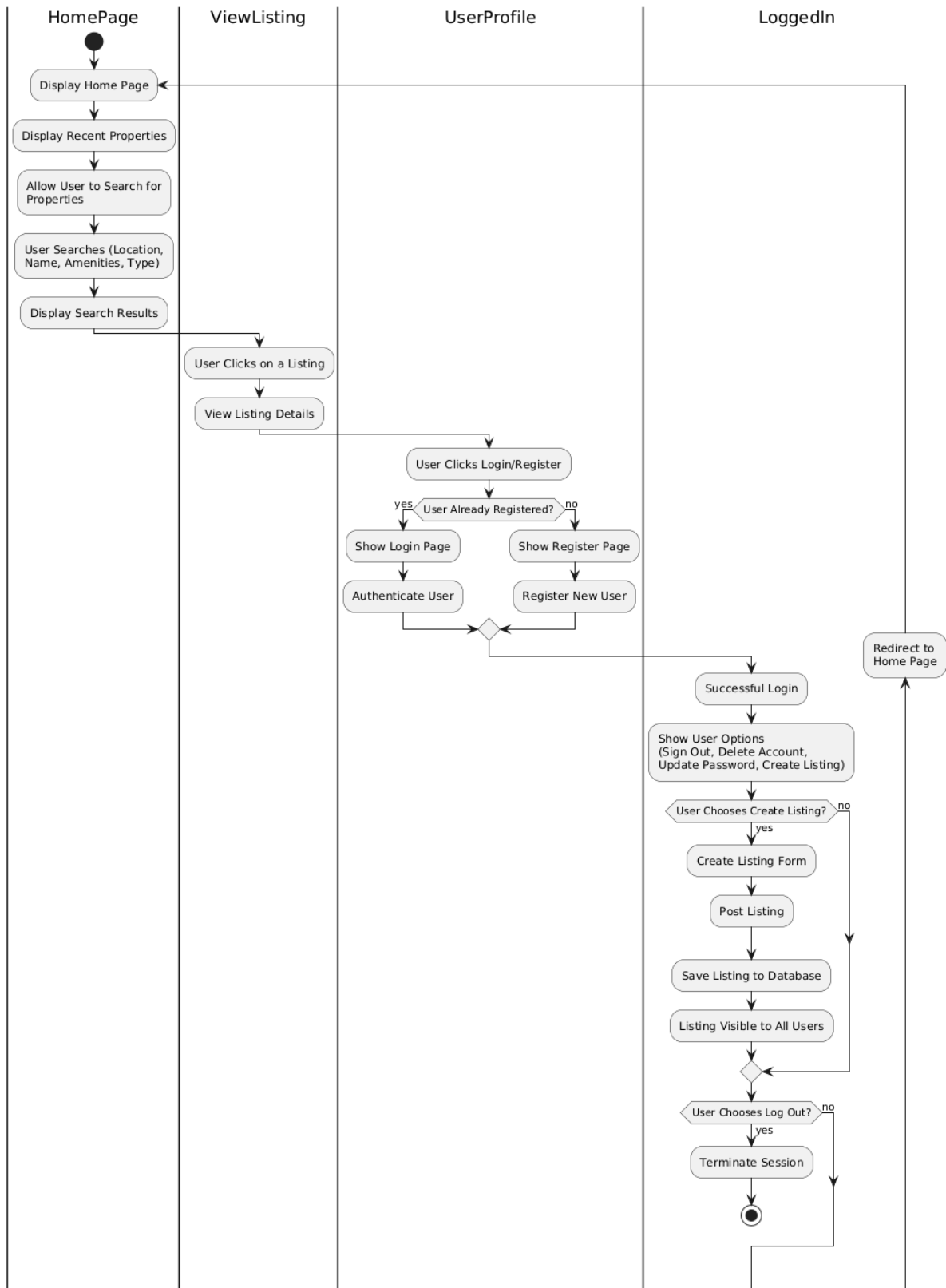
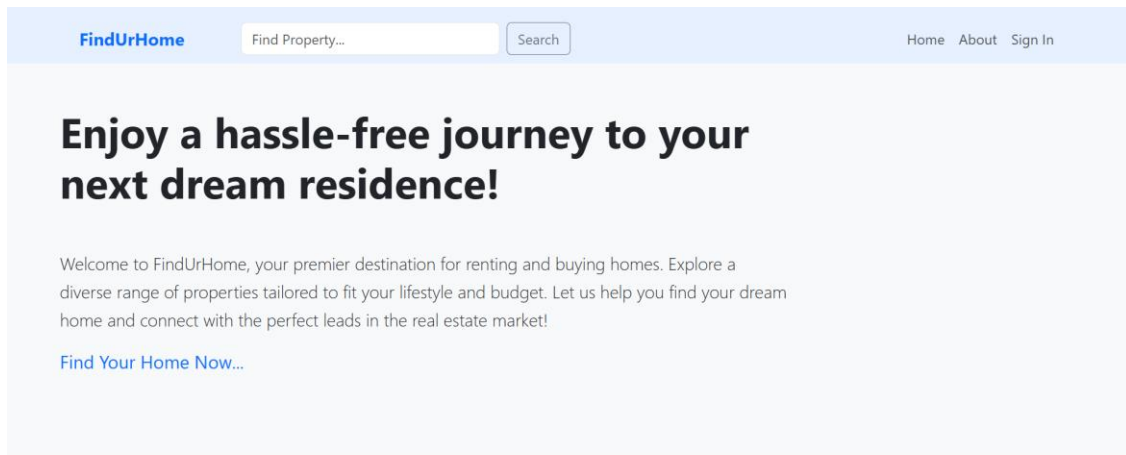


Fig. 5.4. Activity Diagram

CHAPTER 6

SCREENSHOTS



Recent Properties



Fig. 6.1. Home Page

The home page provides user-friendly interface to explore properties and access key features.

FindUrHome

Find Property...

Search

HomeAboutSign In

Register

Email:

afrin.shah2004@gmail.com

Password:

.....

Register

Already Registered? [Login Here](#)

FindUrHome

Find Property...

Search

HomeAboutSign In

Login

Email:

afrin.shah2004@gmail.com

Password:

.....

Login

New user? [Register Here](#)

Fig. 6.2. Login and Register Module

The login/register module lets users create accounts or access their profiles securely.

FindUrHome

Find Property...

Search

HomeAboutProfile

Your Profile

Email:

afrin.shah2004@gmail.com

New Password:

Confirm New Password:

Update Password

Create a Listing

Delete Account

Sign Out

Fig. 6.3. Profile Page

The profile module allows users to update their password, create listings, delete their account, and sign out securely.

FindUrHome

Find Property...

Search

HomeAboutProfile

Create Listing

Name:

AVN Eden Gardens

Description:

A luxurious 2 BHK apartment in a prime location, offering modern amenities and excellent connectivity.

Address:

MG Road, Bengaluru, Karnataka

Sell or Rent:

Rent

☒ Parking Spot

☒ Furnished

☒ Offer

Regular Price (Rs. / Month):

50000

Beds:

3

Baths:

2

Upload Images:

Choose Files2 files

Create Listing

Fig. 6.4. Create Listing

The create listing module lets users add property details for sale or rent, including name, description, price, features, and images

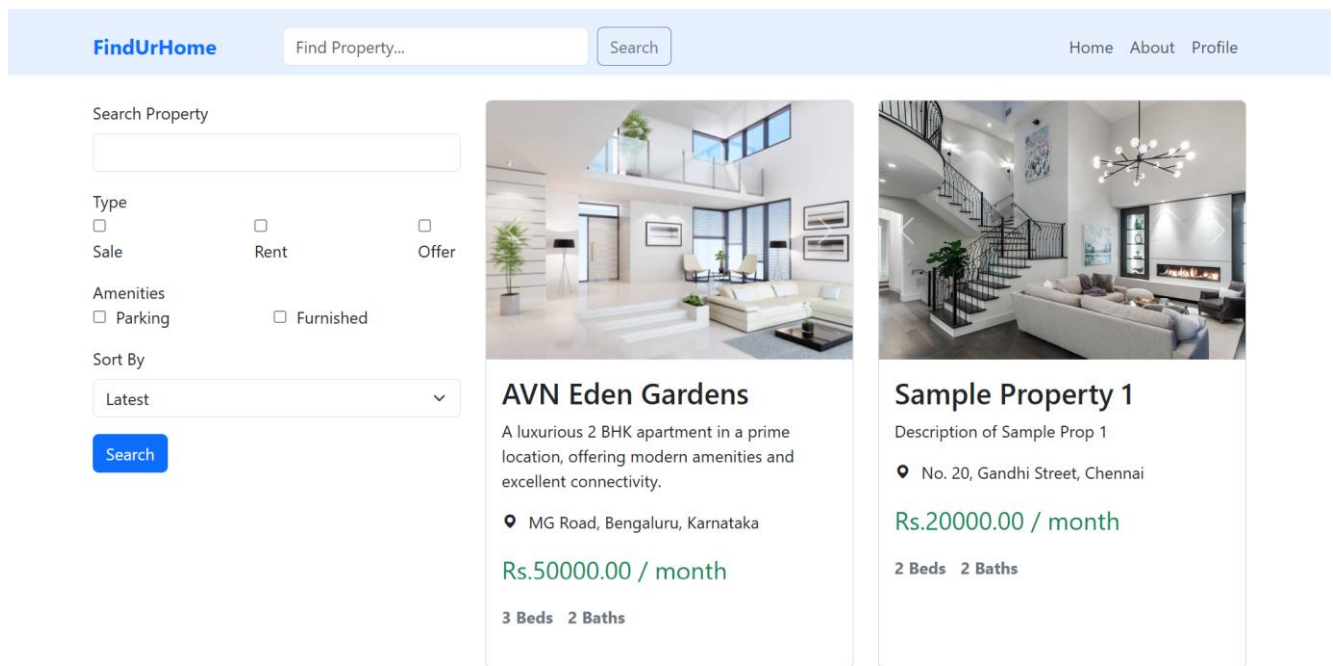


Fig. 6.5. Search Property

The search property module enables users to filter and explore properties based on type, amenities, and sorting preferences.



AVN Eden Gardens

Rs. 50000.00

\$ For Rent

📍 MG Road, Bengaluru, Karnataka

Discounted Price: Rs. 49000.00

A luxurious 2 BHK apartment in a prime location, offering modern amenities and excellent connectivity.

🛏 3 Beds 🚿 2 Baths 🚗 Parking Available 🏠 Furnished

Contact Landlord

Landlord's Email: afrin.shah2004@gmail.com

Fig. 6.6. Search page section

From this above figure student and admin can see the detailed information about the Search page.

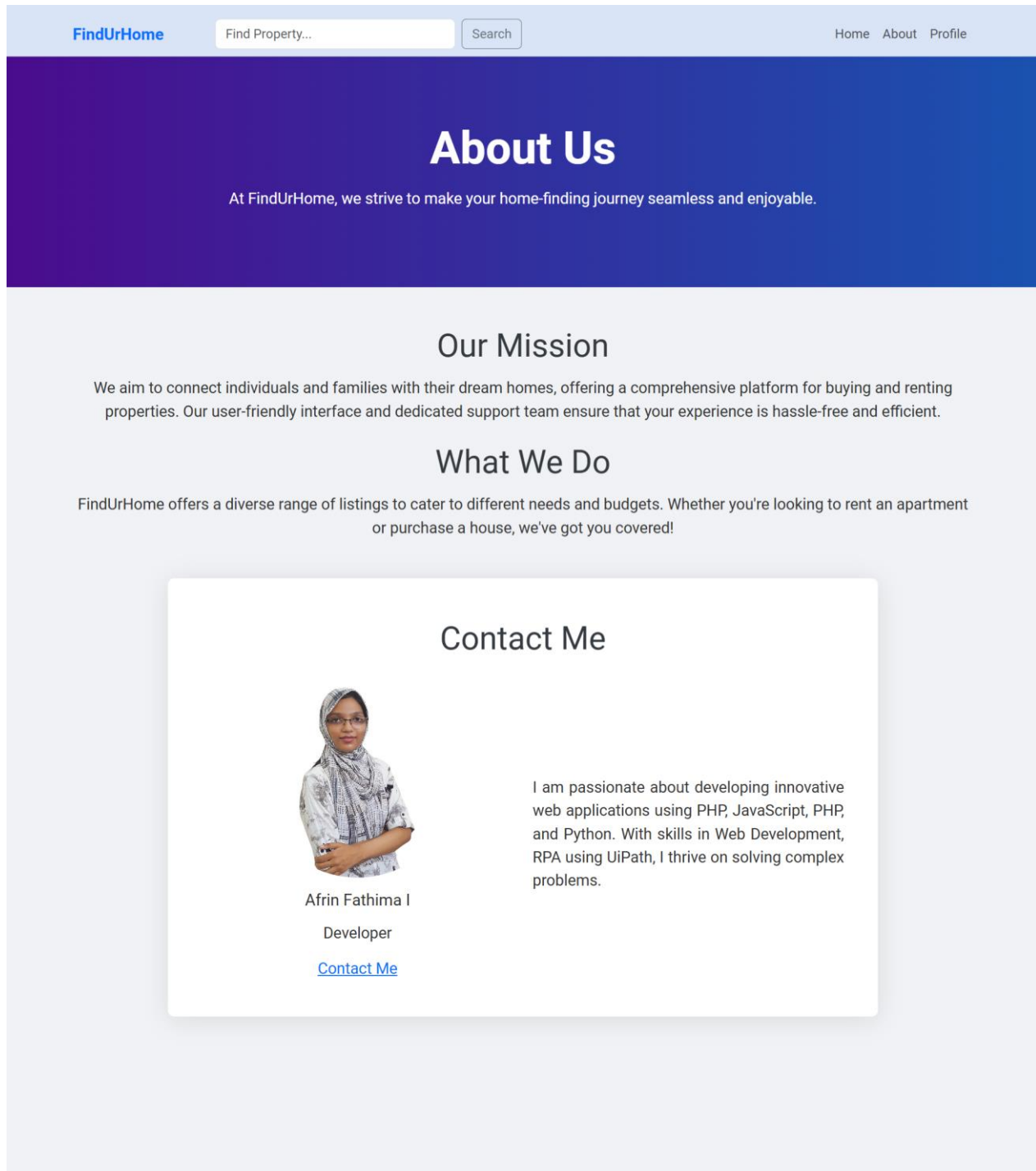


Fig. 6.7. About Page

The About page provides information about the platform, its purpose, and info about the developer.

CHAPTER 7

CONCLUSION

In conclusion, the Real Estate Web Application successfully addresses the complexities of property buying, renting, and management by offering a streamlined, user-friendly platform. Through its comprehensive property listings, advanced search filters, and responsive design, the application enhances user experience, allowing property seekers and owners to connect directly without the need for third-party agents. The platform's efficient navigation, secure login, and seamless functionality across devices ensure accessibility and convenience for all users.

As the real estate market continues to evolve, the future development of this Real Estate Web Application could incorporate innovative features such as AI-based property recommendations, virtual tours, and integration of market trend analytics to further enhance the user experience. These improvements would not only increase efficiency but also provide a more personalized and engaging property search experience. The Real Estate Web Application aims to reshape the real estate industry, making property transactions more accessible, transparent, and cost-effective for all parties involved.

REFERENCES

- [1] HTML, CSS, JS – [W3Schools](#)
- [2] PHP, MySQL – [YouTube](#)
- [3] Carousel Slider – [Bootstrap Carousel](#)
- [4] Icons – [Boxicons](#)
- [5] Bootstrap – [Bootstrap Framework](#)