

HomeLance

Jannatul Ferdush 212-15-14735 and
Mahfujur Rahman 212-15-14718;

Course Code: CSE415,

Course Title: Web Engineering Lab;

Department of Computer Science and Engineering, Daffodil International University.



Project Idea:



Our product idea is to create a website named **HomeLance** using HTML, CSS, PHP and JavaScript, where apartment owners or agents can upload their home pictures, videos, and information about the apartment, and users can choose a home for buy or rent in their preferred area quickly.

Problem Statement:



Many of us can't afford to buy an apartment so we need to rent an apartment to live in and Someone needs to buy a home. When someone searches for an home, the person has to go to the area and physically visit lots of apartments to select one. To find and rent an apartment, a person needs to invest many times, travel or visit many places to see and choose the apartment, cost money, get bored, and lose energy. On the other hand, the apartment owner hangs a notice outside their apartment for a long time, and apart from that, it's totally impossible for someone to find out whether the apartment is available for rent or not. At the end of the day, they suffer a lot to find and rent an apartment.

Solution Statement:



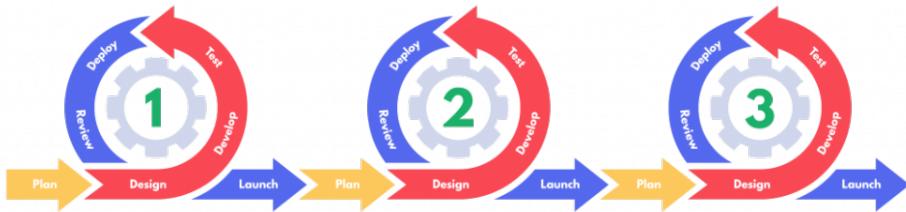
HomeLance application connects you with a huge database of active apartments from all over Bangladesh that allows you to find and rent an apartment. This app lets you find and rent an apartment by a filter option like location, type of apartment, area, and price range. You can find all the necessary information about an apartment on one simple screen and can choose an apartment by watching photos and videos of the apartment. This application saves you valuable time and energy and can visit many apartments in a very short time. This application features become very helpful for users and owners and you can directly contact the home owner/ agents by message, phone call, or email. Finally, from each transaction, we will take a 5% commission for our revenue.

Technology Stack:

- **Frontend:** HTML, CSS, JavaScript
- **Backend:** PHP
- **Database:** MySQL (phpMyAdmin)
- **Development Tools:** XAMPP
- **Methodology(SDLC):** Agile Model



AGILE DEVELOPMENT



Features:



User-Friendly Interface.

- Simple and intuitive design for easy navigation.
- Responsive layout for compatibility with desktop and mobile devices.

Apartment Listing

- Apartment owners can create detailed listings with:
 - High-quality photos.
 - Videos showcasing the apartment layout and amenities.
 - Key information, such as location, size, type, rent price, and available facilities (e.g., parking, security).

Advanced Search and Filter Options

- Filters based on:
 - **Location:** Search apartments in preferred areas or neighborhoods.
 - **Type of Apartment:** Studio, 1-bedroom, 2-bedroom, etc.
 - **Area:** Filter by square footage.
 - **Price Range:** Set minimum and maximum rent prices.

Detailed Apartment Information

- Comprehensive details, including:
 - Address with map integration.
 - Nearby landmarks, schools, hospitals, and transportation.
 - Terms of rental agreements

Communication Features

- Direct contact options for apartment owners via:
 - In-app messaging system.
 - Phone call integration.
 - Email link.

Apartment Availability Status

- Real-time updates on apartment availability to avoid outdated listings.

User Accounts

- **For Renters:**
 - Easy registration and login
 - Quick property search
 - Create profiles to save favorite apartments.
 - Track inquiries and contact history.
- **For Apartment Owners:**
 - Manage listings.
 - View analytics on listing views and inquiries.

Admins Operations

- Manage everything
- View, add, edit, and delete property
- View user, agents, builders, and delete

Revenue Model

- Automatic deduction of a 5% commission from each completed transaction.

Review and Rating System

- Renters can leave feedback on apartments and owners after rental.
- Helps maintain a trustworthy community.

Data Privacy and Security

- Compliance with data protection laws to safeguard user information.
- Secure storage of payment and personal details.

Support and Help Center

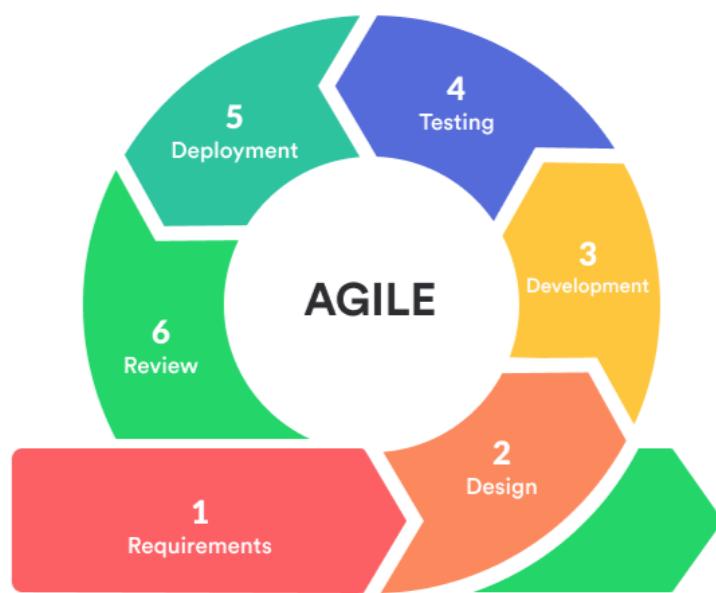
- 24/7 customer support for queries and issue resolution.
- FAQs and guides for renters and owners.

Analytics and Insights (for Owners)

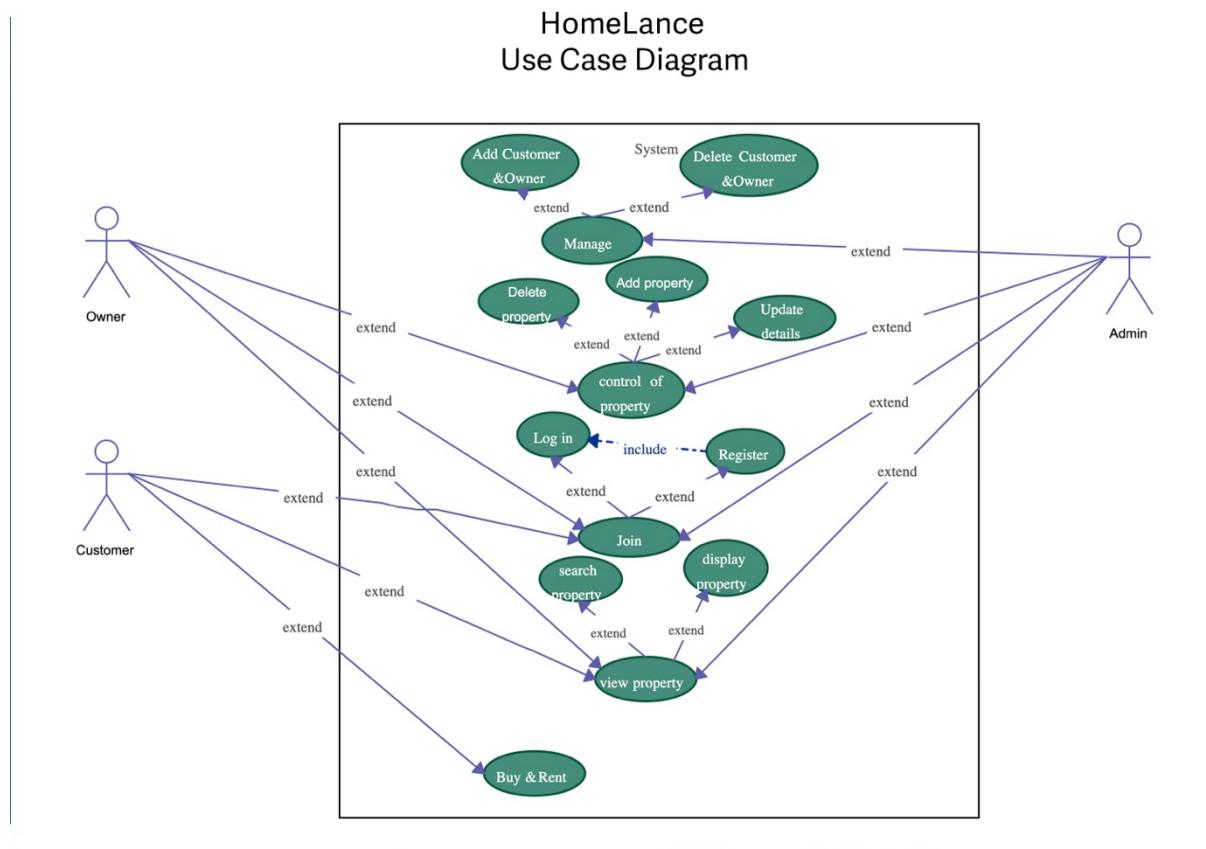
- Dashboard showing listing performance, inquiries, and conversion rates.



SDLC



USE CASE DIAGRAM



Results/Screenshots:

The screenshot shows the homepage of the HomeLance website. At the top, there is a dark header with contact information (+8801723001560, jannatul15-14735@diu.edu.bd), a login/register link, and a submit property button. The main banner features a photograph of a residential area at dusk with the text "Let us Find your dream home!". Below the banner is a search bar with dropdowns for "Select Type", "Select Status", and "Enter City", followed by a "Search Property" button. The main content area is titled "What We Do" and contains four service sections: "Selling Service", "Rental Service", "Property Listing", and "Legal Investment", each with a brief description and an icon.

Home Page

The screenshot shows the login page of the HomeLance website. It features a central "Login" form with the heading "Login" and the sub-instruction "Access to our dashboard". The form includes fields for "Your Email*" and "Your Password", a "Show Password" checkbox, and a "Login" button. Below the form is an "OR" separator followed by a "Login with" section containing social media icons for Facebook, Google, Twitter, and Instagram. At the bottom of the form, there is a link "Don't have an account? Register". The top navigation bar is identical to the one on the homepage, including the logo, contact info, and user links.

Login option!

+8801723001560 jannatul15-14735@diu.edu.bd

Login | Register

HomeLance

Home About Contact Properties Agent Login/Register Submit Property

Register

Access to our dashboard

Your Name*

Your Email*

Your Phone*

Your Password*

Show Password

User Agent Builder

User Image

Choose file No file chosen

Register

OR

Register with    

Already have an account? [Login](#)

Registration!

HomeLance

Home About Contact Properties Agent Login/Register Submit Property

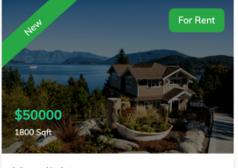
Recent Property



Aesthetic Home
Jashore

2268 Sqft 10 Beds 6 Baths 4 Kitchen 5 Balcony

By : Sayma35 13-12-2024



Moonlight
Bikrampur, Munshiganj

1800 Sqft 5 Beds 5 Baths 2 Kitchen 3 Balcony

By : Sayma 13-12-2024



Natural Home
Bikrampur, Munshiganj

2100 Sqft 6 Beds 6 Baths 3 Kitchen 3 Balcony

By : Sayma 12-12-2024



Property 4
For Sale

\$5600000 1500 Sqft



Property 5
For Rent

\$5600000 1500 Sqft



Property 6
For Sale

\$5600000 1800 Sqft

Property listing!

+8801723001560 jannatul15-14735@diu.edu.bd

Login | Register

HomeLance

Home About Contact Properties Agent Login/Register

Submit Property

Let us Find your dream home!

House Sale Munshiganj Search Property

What We Do

Search tools!

HomeLance

Home About Contact Properties Agent Login/Register

Submit Property

FILTER PROPERTY

Home > Filter Property

Natural Home

For sale

\$85000000
2100 Sqft

Bikampur, Munshiganj

By : Sayma 12-12-2024

Instalment Calculator

Property Price

Duration Year

Interest Rate

Calculate Instalment

Recently Added Property

Aesthetic Home

Jashore

Search result!

PROPERTY DETAIL

For Sale Natural Home **\$8500000**

Description
This 2100 sq ft home in Munshiganj offers a comfortable living space with 6 bedrooms, 4 bathrooms, and spacious balconies. The wide windows allow ample natural light, creating an airy and open environment. The apartment features a well-designed kitchen, and the building is equipped with elevators, CCTV security, electricity backup, and dedicated guard and maintenance staff, ensuring convenience and safety for residents.

Property Summary

BHK:	5 BHK	Property Type:	House
Floor:	4th Floor	Total Floor:	5Floor
City:	Munshiganj	Division:	Dhaka

Features
Property Age: 10 Years Type: Apartment

Instalment Calculator

Featured Property

- Twin House
- Premium Home

Recently Added Property

- Aesthetic Home
- Moonlight
- Natural Home
- LUX HOME
- Twin House
- Hello Home
- Home Square

Property details!

HomeLance Home About Contact Properties Agent Login/Register **Submit Property**

Floor Plans

Basement Floor

Ground Floor

Contact Agent

Sayma
170505
sayma35@gmail.com

[f](#) [t](#) [g+](#) [in](#) [r](#)

Property details and contact agent!

The screenshot shows the HomeLance website's EMI Calculator page. At the top, there is a navigation bar with links for Home, About, Contact, Properties, Agent, Login/Register, and a green 'Submit Property' button. Below the navigation is a title 'EMI Calculator'. A table displays the following data:

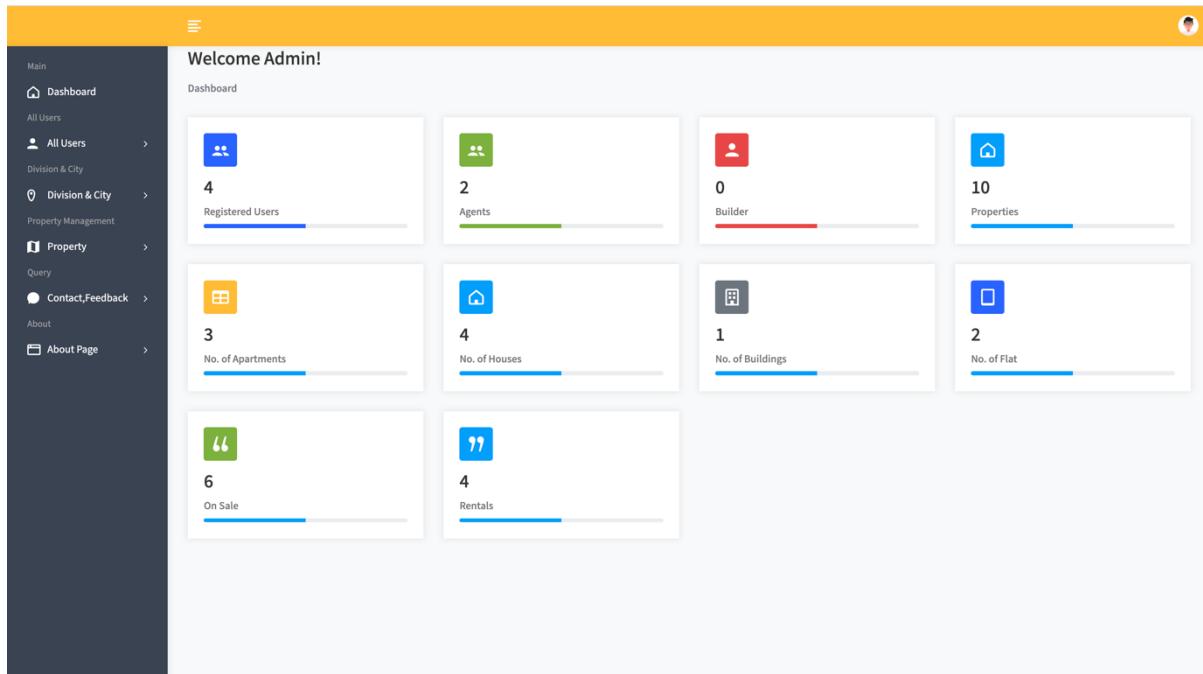
Term	Amount
Amount	\$850000
Total Duration	4 Months
Interest Rate	5%
Total Interest	\$42500
Total Amount	\$892500
Pay Per Month (EMI)	\$223125

At the bottom of the page is a footer section with the HomeLance logo, a brief description, and links for Support, Quick Links, and Contact Us.

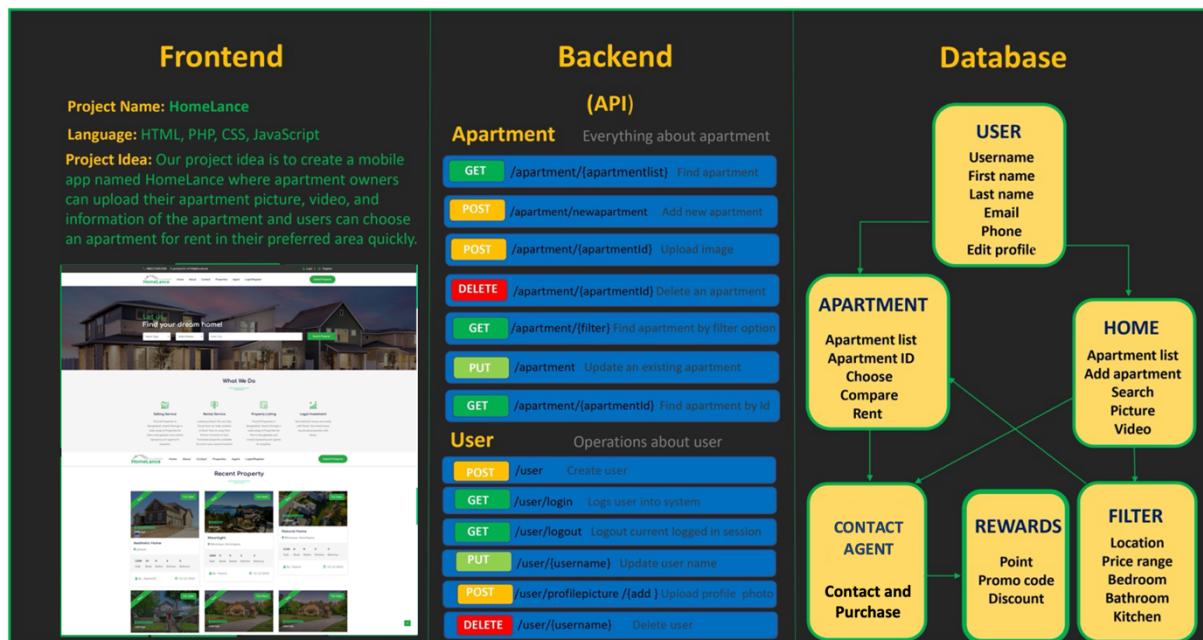
EMI Calculation!

The screenshot shows the HomeLance website's Contact Us page. At the top, there is a navigation bar with links for Home, About, Contact, Properties, Agent, Login/Register, and a green 'Submit Property' button. On the left, there is a 'Contacts' sidebar with sections for Address, Call Us, and Email Address. The main area is titled 'Get In Touch' and contains fields for Your Name*, Email Address*, Phone, Subject, and a large text area for Type Comments... A 'Send Message' button is at the bottom of this form. Below the contact form is a Google Map of Dhaka, Bangladesh, showing various landmarks and locations.

Contact us!



Admin dashboard!



Project Architecture!

Augmented Reality

Future Work:



- **Augmented Reality (AR):** Enable immersive virtual property tours.
- **Mobile Application:** Provide seamless access on the go.
- **AI Recommendations:** Deliver personalized property suggestions.
- **Enhanced Security:** Implement advanced encryption for data protection.
- **Multilingual Support:** Add Bangla and other regional languages.
- **Blockchain:** Ensure secure and transparent transactions.
- **Scalable Infrastructure:** Upgrade to handle increased traffic.
- **Analytics Dashboard:** Offer insights for admins and property owners.

Conclusion:



HomeLance successfully bridges the gap in the property management ecosystem by providing an efficient, user-friendly platform. The project simplifies property transactions, saves time and effort, and sets the foundation for future advancements in the real estate domain for a developing country like Bangladesh!

Thank You!