



BIS Graduation Project

Real Estate (Beetcom)

Project No (129)

Prepared By

1	Raphael Mina Attia	18190274
2	Marina Hany Farouk	18190544
3	Michael Emad Mikhael	18190560
4	Mario Magdi Anis	18190548
5	Mazen Mohammed Abdelwahab	18191000
6	Michael Nasser Mikhael	18190561

Supervisors

IT Part

Dr. Nehal Afifi

Business Part

Dr. Rasha Farghali

May 2022



Chapter One: Introduction

- 1.1. System overview & Project background
- 1.2. Project objective and features
- 1.3. System users
- 1.4. System requirements
 - 1.4.1. Hardware
 - 1.4.2. Software
- 1.5. Methodology and time plan
 - 1.5.1. Life cycle models

Chapter Two: Business plan

- 2.1 Brief Description
- 2.2 Customers
- 2.3 System owners
- 2.4 Startup Capital
- 2.6 Business Idea
 - Business market
 - Vision
 - Mission
- 2.7 SWOT Analysis
- 2.8 Customer Segmentation
- 2.9 Marketing Mix
 - 2.10 Legal Form
 - 2.11 Startup Capital
 - 2.11.1 Investment
 - 2.11.2 Working Capital
 - 2.12 Source of Funds
 - 2.13 Business Model
 - Customer Segments
 - Value Proposition
 - Channels



- Customer relationships
- Revenue Stream
- Key Activities
- Key Resources
- Key Partners

2.14 Financial Plan

- Marketing Budget
- Pricing Plan

2.15 Monthly Advertising Revenue Plan (Budgeted) & Commissions

2.16 Monthly Expenses Plan (Budgeted)

2.17 Monthly (Budgeted) Income Statement before Tax

2.18 Monthly (Budgeted) Income Statement after Tax

2.19 Cash Flow (Monthly)

2.20 Budgeted Balance Sheet

Chapter Three: System Analysis

- 3.1 Aim of chapter
- 3.2 User requirements
- 3.3 Functional requirements
- 3.4 Nonfunctional requirements
- 3.5 System requirements
- 3.6 System analysis diagrams
 - 3.6.1 Use case diagrams
 - 3.6.2 Sequence diagrams



Chapter Four: System Design

- 4.1 Introduction
- 4.2 Activity diagram
- 4.3 EER diagram
- 4.4 class diagram
- 4.5 Database schema
- 4.6 Site map

Chapter Five: System Implementation

- 5.1 Aim of Chapter
- 5.2 Project screen shots
- 5.3 Database schema

Chapter Six: System Testing

- 6.1 Aim of chapter
 - 6.1.1 Login validation
 - 6.1.2 sign up validation
 - 6.1.3 Main functions validation

Chapter Seven: Conclusion and Future Work

- 7.1 Aim of chapter
- 7.2 Conclusion
- 7.3 Future work
- 7.4 Appendix
- 7.5 Reference



Chapter One Introduction

1.1 System Overview and background

There are large numbers of commercial real estate online information service providers offering a suite of commercial properties and services tailored to the national and local needs of the commercial investments industry.

These online marketplaces have thousands of commercial real estate properties for sale and lease under various categories including commercial office (space, industrial, single - family, multi - family, land, etc.) both for sale and lease as well. Their purpose is it to attract community of industry professionals including investors, property managers, landlords, and appraisers, local and national buyers to select the properties with desired features.

In this increasingly demanding scenario for a platform which could help buyers to have a look at the available property listings with all its photographs, necessary specification and description.

This application is an effort to provide such a web interface with some attractive and innovative features using the latest technologies.

Beetcom is one of new Egyptian real estate brokerage firm that make web site to illustrate and make sales process is easy

Our web site is (C2C)

We mainly work on resale units that previously owned by someone earlier.

The motivation to develop Real Estate Web Application comes from my urge to make Visual Studio for our units.



The most significant feature in our web application the interactive search criterion which lets the buyer specify their requirements to get the correct set of records from the database.

This application provides a wide description of unit (site, space, finishing)

The development of powerful search engine, it displays and filter units according to customer needs.

1. 2 Project objective and feature

The foremost objective of this project was to give a different visualization styles to the

Real Estate which has more features, attractive animations and all together a new look in contrast to the already existing web application. This Real Estate Web application provides functionalities for both seller and buyer,

The buyers can browse the web site without any additional fee and security hassle and they can search for houses based on state/city/price/features.

For the seller, a security issue is added, The seller needs to create an account in the system and every time he logs in, the previous advertisements posted by him are presented, He can then delete any of these, and he can add new ones, The functionalities are as follows:

1. The buyer can search for properties according to detailed information: state/city/price/property/bedroom/bathroom/additional features.
2. Beetcom enabled controls with no post backs and additional functionalities like sliding bars to select the number of beds, baths, footage and price, drag and drop functionalities, animation enabled collapsible styles, etc. The results can be sorted and viewed by selecting the sorting item and order.
3. When a buyer clicks the link for each listed item, he will be redirected to a page that lists the detail information for this house.
4. Include a new feature of saving the selected property listing
5. When the user logs in the web site, those saved listings are accessible, But this site simply provides a toolbox to drag a selected number of listings and save them during the entire session.



6. A seller can create an account in the system, and each seller has a username and a password. The seller can add new advertisements and provide the detailed information and photos.
7. Seller can add new advertisements and provide the detailed information and photo.

1.3 System users

Admin:

Moderate Ads and make sure of its reliability and check the legal documents required for each unit.

Buyer:

Upload Photos and information about unit, and its price.

Seller:

Search for unit and submit request to identify appointment with seller.

1.4 System requirements

-Hardware

RAM: 4 GB or more,

Hard disk: 50 GB

Database server

- Software

The applications we need to install

Windows 10

Microsoft word and excel sheet,

- Tools & Languages

Back end: Xampp, Apache server, MySQL & PHP,

Front end: HTML5, CSS3, Bootstrap5, Java Script, jQuery, Font Awesome & Sass



MySQL

is a relational database management system based on **SQL (Structured Query Language)**,

Used for a wide range Purpose, it is used to store anything from single record of information,

Features:

Easy to use,

Free to download,

High Flexibility

Compatible on Many OS

Xampp

XAMPP stands for **Cross-Platform (X)**, **Apache (A)**, **MariaDB(M)**, **PHP (P)** and **Perl (P)**, Since XAMPP is simple, lightweight Apache distribution it is extremely easy for developers to create a local web server for testing and deployment purposes, everything you needed was to setup a web server: server application (Apache), database (MariaDB), and scripting language (PHP), XAMPP works equally well on Linux, Mac, and Windows.

Features:

Self-contained, multiple instances of XAMPP can exist on a single computer, and any given instance can be copied from one computer to another.

It also comes with many other modules including OpenSSL, phpMyAdmin, MediaWiki, Joomla, WordPress and more

XAMPP is regularly updated to the latest releases of Apache, MariaDB, PHP, and Perl.

PHP

A general-purpose server-side scripting language originally designed for web development to produce dynamic web pages, It is one of the first server-side scripting languages to be embedded into an HTML source document rather than calling an external file to process data,

Features:

Easy and Simple to Learn

Extremely flexible

Easy integration and compatibility.

Efficient performance

Cost Efficient

Gives Web Developer More Control



HTML5 & Css3

Markup language used to structure and presenting content on the **World Wide Web**.

It is the fifth and latest major version of **HTML**, which is a recommendation of the **World Wide Web Consortium (W3C)**,

Css3:

CSS stands for (**Cascading Style Sheets**) and is the language of design for web pages, giving site designers the ability to suggest how their site documents are styled,

Features

- Cost effective Multi-Platform Development
- Good page ranking,
- Offline browsing
- Consistency across multiple browsers
- Extension of video to a wide range of platforms
- A better user experience,

Bootstrap

Is a free and open-source CSS framework directed at responsive, mobile-first front-end web development.

It contains CSS and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components,

Features

- Fewer Cross browser bugs,
- A consistent framework that supports major of all browsers and CSS compatibility fixes.
- lightweight and customizable.
- Responsive structures and styles.
- Several JavaScript plugins using jQuery.
- Good documentation and community support.
- Loads of free and professional templates, WordPress themes and plugins,
- Great grid system

Java Script

object-oriented language with first-class functions, and is best known as the scripting language for Web pages, but it's used in many non-browser environments as well. It is a prototype-based, multi-paradigm scripting language



that is dynamic, and supports object-oriented, imperative, and functional programming styles.

JavaScript runs on the client side of the web, which can be used to design / program how the web pages behave on the occurrence of an event. JavaScript is an easy to learn and also powerful scripting language, widely used for controlling web page behavior.

jQuery

is a lightweight, "write less, do more", JavaScript library. The purpose of jQuery is to make it much easier to use JavaScript on your website. jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.

Font-Awesome

is the Internet's icon library and toolkit, used by millions of designers, developers, and content creators?

Sass

A CSS preprocessor is a scripting language that extends CSS by allowing developers to write code in one language and then compile it into CSS. Sass ([opens in new tab](#)) is perhaps the most popular preprocessor around right now, but other well-known examples include Less ([opens in new tab](#)) and Stylus ([opens in new tab](#)).



1.5 Methodology and Time plan

Life cycle models

It takes 7 months to end our system starting from research to other competitor problems, plan, design and develop our web site.

Task	Time plan		
	OCT	Nov	Dec
Research			
Business plan			
System Design			
Database Design			
Backend Development			
Frontend Development			





Chapter Two Business Plan

Executive Summary

Name of business:	Beetcom
Legal Form:	General Partnership 6 Partners
Type of Business	Service provider
Contact Telephone:	01032815631
Email:	beetcom1819@gmail.com
Address	198 Abo EIFada Street, Zamalek, Cairo

2.1 Brief Description of Business Idea :

Beetcom is a Service Provider, we are a double-sided platform business that provides an online environment whereby property seekers can connect with real estate agents on the supply side. Users find listings of properties (a.k.a. the supply) that meet their requirement and in turn can connect with relevant agencies quickly and this is how we can reduce the hassle of searching for the right property and reducing time and cost spent on this process and from the other side we help supplier to find the qualified client .

2.2 Customers :

Our customer are mainly the sellers who are separate individuals who own units that they would like to offer it and sell it or Real estate Developers who are searching for the qualified client and the buyer who's searching for his future home or office or even a commercial unit with minimized search cost and hassle and advanced search filter.

2.3 Owners:

We are six youth entrepreneurs who are handling this web application from A to z specialized in Business Development& Management ,System Analysis and



Web Development who work on everything from scratch and handle each and every issue .

2.4. Startup Capital:

Partner	Capital
Mario MagdyAnisAwadallah	136,000 LE
Raphael Mina AttiaYouanes	136,000 LE
Marina Hany Farouk Labib	136,000 LE
Mazen Mohamed Abdelwahab Abdelsalam	136,000 LE
Michael Nasser Mikhaeil	136,000 LE
Michael Emad Mikhaeil	136,000 LE
Total	816,000 LE

Source of capital is Personal Partners Family Loan

Total capital needed = 723,600 +92,400 = 816,000 LE.



2.5 Business Idea and Market:

Description of business idea:

Business idea: as we mentioned before we are an online platform that helps both the user and supplier, helping the user through offering them a wide variety of properties listings that match their search and save their time and searching cost through our advanced search filter and try to help them reach the developer – aka: the supplier- and close the deal and helps the supplier or the owner of the property ,no matter if he's a one of the big name developers we are targeting or even a person who owns a separate building somewhere ,we help them to reach to the qualified client through our advertising and marketing strategies.

Depending on the platform we provide, we assist developers and real estate companies in selling their products. The units for sale are promoted through the platform as well as marketing campaigns launched by the companies and our major client database, increasing the chances of selling these units.

We provide unique solutions for real estate marketing through the use of technology, and we always strive to meet market demands. After discovering that half of the site's visitors access it via mobile devices, we designed the site to be mobile-friendly.

Our platform promotes the available units to a wider audience, ensuring that the exhibiting company receives an actual buyer, that the sale process is simplified, and that the investors' needs are met. When the client finds the unit he wants, he contacts the offering company directly to complete the transaction.

- Vision:**

Our vision is mainly to be a key player in Egyptian real estate market not only this, we want to go beyond our country and to expand worldwide and also Restricting overprice issue of resale unit .

- Mission:**

To develop and manage Real estate brokerage firm that provide the best experiences possible and yield sustainable profits for our clients, (buyer and supplier).



2.6 SWOT Analysis:

Strengths	Weakness
<ul style="list-style-type: none">- Easy to access<ul style="list-style-type: none">- saved list- Accuracy of information<ul style="list-style-type: none">- Response speed- The system provides better data management facilities,	<ul style="list-style-type: none">- competition<ul style="list-style-type: none">- less Finance- less awareness of customer
Opportunities	Threats
<ul style="list-style-type: none">- Providing improved electronic services- Provide consulting service for buyer	<ul style="list-style-type: none">- covid 19 pandemic- increase interest rate at banks- Lack of government support for purchases of resold units



2.7 Customer Segmentation:

Seller

- Ordinary seller that owns unit need to sell it
- Other brokerage firms for resale:

A Class that searches for unit over than 2,000,000 LE

B Class that searches for unit Less than 2,000,000 LE to 1000,000 LE

C Class that searches for unit Less than 1,000,000 LE

Buyer

- 1- A Class that searches for unit over than 2,000,000 LE
- 2- B Class that searches for unit Less than 2,000,000 LE to 1000,000 LE
- 3- C Class that searches for unit Less than 1,000,000 LE

2.8 Marketing Mix:

Once your marketing strategy, there is a ‘Four P Formula’ you should use to continually evaluate and re-evaluate your business activities, These seven are: product, price, promotion, place, packaging, positioning and people, As products, markets, customers, and needs change rapidly, you must continually review these seven Ps to make sure you’re on track and achieving the maximum results possible for you in today’s marketplace.

Marketing mix	
Product	Real estate brokerage firm web application
Prices	we made price plan suitable for all customer segment for make advertisement on our web application and commission on deal
Promotion	Face book marketing campaign to make brand awareness and Google Ads,
Place	online web application serves all segments of people need sell and buy Real estate properties



2.9 Legal Form:

We chose General Partnership and we made this decision based upon its benefits which are:

- 1- Business risk is diversified among partners, which motivates owners to be more aware of the work done and to minimize errors and risks to minimal.
- 2- The partnership helps in processing new and diversified ideas and brainstorming which support the continuity of productivity and higher the chances of success and survival.
- 3- The partnership agreement template defines the roles and contributions of the partners.
- 4- The agreement for partnership includes terms for how profits will be divided, the responsibilities of the partners, how to manage the partnership, & how decisions will be made.
- 5- A buy-sell agreement is used to control what happens to the business partnership ownership & management if a partner sells their share, resigns, dies, or becomes incapacitated in the future



2.10 Startup capital, Working capital

Investment

Capital Expenditure:		
Laptops - RAM: 8 GB or more, - Hard disk: 1000 GB - Windows 10 - useful life 5 years	40,000 LE	
Router use full life 5 years	500 LE	
Furniture's use full life 5 years	51,900	
Total fixed Assets		92,400 LE

Working Capital: This is the capital needed for first year operations

Item	Per month	Per year
Rent	10,000 LE	120,000 LE
Utilities (include Legal establishment expense)	5000 LE	60,000 LE
Salaries	30,000 LE	360,000
Marketing and advertising	15,000	180,000 LE
Hosting server	300 LE	3,600 LE
Total	<u>60,300 LE</u>	<u>723,600 LE</u>

Total capital needed = 723,600 +92,400 = 816,000 LE.



2.11 Source of funds

Our source of fund is Personal partners Family Loan:

Partner	Capital
Mario Magdy Anis Awadallah	136,000 LE
Raphael Mina Attia Youanes	136,000 LE
Marina Hany Farouk Labib	136,000 LE
Mazen Mohamed Abdelwahab	136,000 LE
Michael Nasser Mikhaeil	136,000 LE
Michael Emad Mikhaeil	136,000 LE
Total	816,000 LE



2.12 Business Model:

Baitcom				
KEY PARTNERS	KEY ACTIVITIES	VALUE PROPOSITIONS	CUSTOMER RELATIONSHIPS	CUSTOMER SEGMENTS
<ul style="list-style-type: none"> - More than 6.000 (owners/developers/agents) - Google maps 	<ul style="list-style-type: none"> - Building demand - Building supply - Data verification - Data processing - Data science - Platform development - IT maintenance - IT operation - Customer support - Research and innovation - Marketing - Advertising 	<ul style="list-style-type: none"> - To help people find houses for rent or to buy and charge the broker/builder - To simplify the search for a home - To search for housing based on a range of criteria - Housing adds value to the property owners/developers/agents by driving traffic towards their listings 	<ul style="list-style-type: none"> - Online real estate - Functionality - Convenience - Flexibility - Self-service - Direct sales team via email 	<ul style="list-style-type: none"> - Multi-sided - General consumers seeking to buy or rent properties - Owners/developers/agents that wish to sell properties and market their services
	KEY RESOURCES <ul style="list-style-type: none"> - Online real estate platform - IT infrastructure - Search engine - filtering feature - Value added features - Data and information (local amenities,, floor plans, price and nearby services) -Employees 	<ul style="list-style-type: none"> - Cloud-based sales lifecycle management platform for owners/developers/agents 	CHANNELS <ul style="list-style-type: none"> - Website & App based - Telephone - Social media - Word of mouth - PR-media coverage - App store. 	
8	6	7	2	4
Cost structure <ul style="list-style-type: none"> - Platform development - Platform maintenance - IT infrastructure - Customer acquisition - Advertising and marketing 			REVENUE STREAMS <ul style="list-style-type: none"> - A free service for users searching for property deals (Three different subscription packages for the real estate agents) 	1
3				

Customer segments

- Multi-sided
- General consumers seeking to buy or rent properties
- Owners/developers/agents that wish to sell properties and market their services.

Value proposition

- To help people find houses for rent or to buy and charge the broker/builder
- To simplify the search for a home
- To search for housing based on a range of criteria
- Housing adds value to the property owners/developers/agents by driving traffic towards their listings
- Cloud-based sales lifecycle management platform for owners/developers/agents



Channels

- Web Application & App based
- Telephone
- Social media
- Word of mouth
- PR-media coverage

Customer relationships

We interact with our clients through effective mechanisms of communication to maintain sustainable relationships and ensure clients acquisition and retention,
Online real estate

Functionality

Convenience

Flexibility

Self-service

Direct sales team via email

Revenue stream

- A free service for users searching for property deals
- (Three different subscription packages for the real estate agents)

Key activities

- Building demand
- Building supply
- Data verification
- Data processing
- Data science
- Platform development
 - IT maintenance
 - IT operation
 - Customer support
 - Research and innovation
 - Marketing
 - Advertising

Key resources

- Online real estate platform
- IT infrastructure
- Search engine + filtering feature
- Value added features (Price Heat Maps, Lifestyle Rating and Locality Insights)



- Data and information (local amenities, commuting times, floor plans, price trends and location of nearby services)
- Employees
- Verification process
 - Seed capital and additional investment

Key partners

- More than 6,000 (owners/developers/agents)
- Google maps
- Cost structure
- Platform development
- Platform maintenance
- IT infrastructure
- Customer acquisition
- Advertising and marketing
- Salaries and benefits
- Administration and legal





2.13 Financial plan

- **Marketing budget**

Image Agency offers us one year offer by 120,000 LE that include we be paid monthly 10,000 LE / month.

- road show and giveaways cost 5000 / month and 60,000 / year.

- **Pricing plan**

1- The Golden Package

Price 1000 LE per month

2,5 % commission of sales price

Include

Publishing one month at top

10 in segment

Content creation

2-Silver Package

Price 500 per month

5 % commission of sales price

Include

Publishing one month at top 20 in segment

Content creation

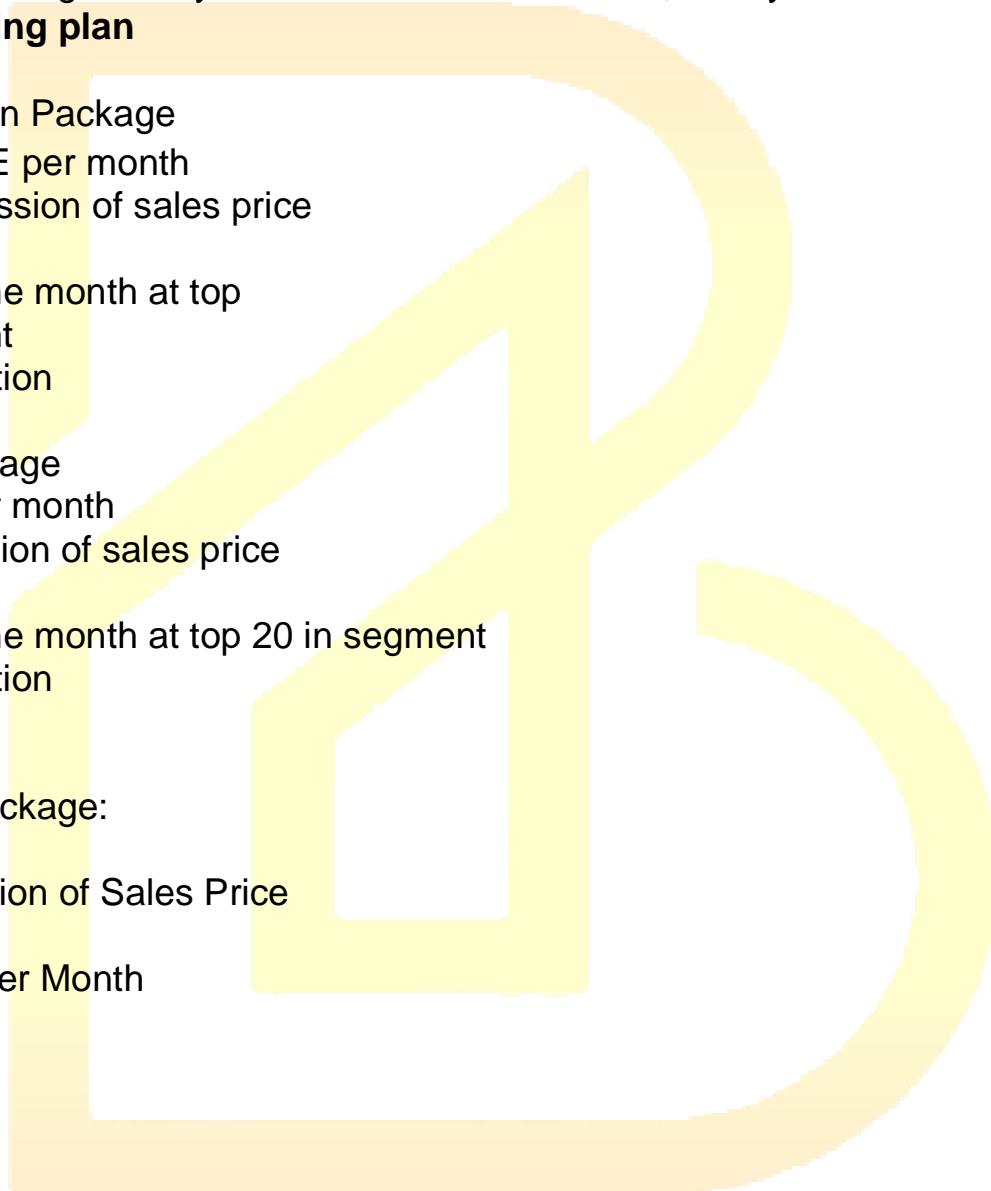
3-Regular Package:

No Fees

6% Commission of Sales Price

Include

2 Free Ads Per Month





2.14 Monthly advertising revenue plan (budgeted) and commissions:

	<u>January</u>		<u>February</u>		<u>March</u>		<u>April</u>		<u>May</u>		<u>June</u>	
Advertising Revenues	5000 LE		8000 LE		10,000 LE		15,000 LE		25,000 LE		35,000 LE	
Subscription Revenues	Qty	Fees	Qty	Fees	Qty	Fees	Qty	Fees	Qty	Fees	Qty	Fees
	10	500	22	1000	30	1000	40	1000	50	1000	100	1000
			60	500	80	500	100	500	120	500	140	500
	<u>5,000 LE</u>		<u>52,000 LE</u>		<u>70,000 LE</u>		<u>90,000 LE</u>		<u>110,000 LE</u>		<u>170,000 LE</u>	
Commission	<u>0</u>		<u>0</u>		<u>80,000 LE</u>		<u>115,000 LE</u>		<u>115,000 LE</u>		<u>95,000 LE</u>	
Total Expected Revenues	<u>10,000 LE</u>		<u>60,000 LE</u>		<u>160,000 LE</u>		<u>220,000 LE</u>		<u>250,000 LE</u>		<u>300,000 LE</u>	

	<u>July</u>		<u>August</u>		<u>September</u>		<u>October</u>		<u>November</u>		<u>December</u>	
Advertising Revenues	40,000 LE		80,000 LE		90,000 LE		90,000 LE		90,000 LE		90,000 LE	
Subscription Revenues	Qty	Fees	Qty	Fees								
	40	1000	120	100	140	1000	160	1000	180	1000	200	1000
	20	500	160	50	180	500	200	500	220	500	240	500
	<u>50,000 LE</u>		<u>200,000 LE</u>		<u>240,000 LE</u>		<u>270,000 LE</u>		<u>300,000 LE</u>		<u>330,000 LE</u>	
Commission	<u>280,000 LE</u>		<u>120,000 LE</u>		<u>240,000 LE</u>		<u>340,000 LE</u>		<u>460,000 LE</u>		<u>630,000 LE</u>	
Total Expected Revenues	<u>370,000 LE</u>		<u>460,000 LE</u>		<u>570,000 LE</u>		<u>700,000 LE</u>		<u>850,000 LE</u>		<u>1,050,000 LE</u>	



2.15 Monthly expenses Plan : (Budgeted)

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>
Rent	10,000 LE					
Legal establishment Fees	5,000 LE					
Hosting	300 LE					
Salaries	30,000 LE					
Advertising	15,000 LE					
Dep,Ex						
Expected Expenses	<u>60,300 LE</u>					
	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Rent	10,000 LE					
Utility and Legal establishment Fees	5,000 LE					
Hosting	300 LE					
Salaries	30,000 LE					
Advertising	15,000 LE					
Dep,Ex						22,850 LE
Expected Expenses	<u>60,300 LE</u>	<u>83,150 LE</u>				



2.16 income statement (Monthly) (Expected) before tax

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>
Revenue	10,000 LE	60,000 LE	160,000 LE	220,000 LE	250,000 L:E	300,000 LE
- Expenses	60,300 LE	60,300 LE	60,300 LE	60,300 LE	60,300 LE	60,300 LE
Expected net income	(50,300) LE	(300) LE	99,700 LE	159,700 LE	189,700 L:E	239,700 LE
Profit Margin	- 503 %	- .5 %	60.3 %	72.5 %	75.8 %	79.9 %

	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Revenue	370,000 LE	460,000 LE	570,000 LE	700,000 LE	850,000 L:E	1,050,000 LE
-Expenses	60,300 LE	60,300 LE	60,300 LE	60,300 LE	60,300 LE	83,150 LE
Expected net income	309,700 LE	399,700 LE	509,700 LE	639,700 LE	789,700 LE	966,850 LE
Profit Margin	83.7 %	86.9 %	89.4 %	91.34 %	92.9%	92 %



2.17 income statement (Monthly) (Expected) After tax:

Month	Income or Loss
January	(50,300) LE
February	(300) LE
March	99,700LE
April	159,700 LE
May	189,700LE
June	239,700 LE
July	309,700 LE
August	399,700LE
September	509,700LE
October	639,700LE
November	789,700LE
December	966,850LE
Net income before tax	4,254,550 LE
Tax 22,5%	957,273.75 LE
Net income after paying tax	3,297,276.25 LE



2.18 Cash Flow (Monthly):

	Preparation	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>
Beg cash	816,000	723,600	673,300	673,000	772,700	932,400	1,122,100
+ Cash inflow		10,000	60,000	160,000	220,000	250,000	300,000
-Cash outflow	92,400	60,300	60,300	60,300	60,300	60,300	60,300
Balance	723,600	673,300	673,000	772,700	932,400	1,122,100	1,361,800

	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Beg cash	1,361,800	1,671,500	2,071,200	2,580,900	3,220,600	4,010,300
+ Cash inflow	370,000	460,000	570,000	700,000	850,000	1,050,000
-Cash outflow	60,300	60,300	60,300	60,300	60,300	83,150 957,273.75
Balance	1,671,500	2,071,200	2,580,900	3,220,600	4,010,300	4,019,876,.25



2.19 Budgeted Balance Sheet:

Assets		Liabilities and owners' Equity	
Current Assets		Liabilities	
Cash	723,600 LE	Mario Magdi Anis Awadallah	0
Fixed Assets		Raphael Mina Attia Youanes	136,000 LE
Laptop	40,000 LE	Marina Hany Farouk Labib	136,000 LE
Router	500 LE	Mazen Mohamed Abdelwahab	136,000 LE
Furniture's	51,900	Michael Nasser Mikhaeil	136,000 LE
Total Fixed Assets	92,400	Michael Emad Mikhaeil	136,000 LE
Total assets	816,000 LE	Liabilities and owners' Equity	816,000 LE



Chapter Three System Analysis

3.1 Aim of chapter

Purpose of this chapter is to understand in detail user requirements, functional, non-functional and system requirements, analyze in detail use-cases, and sequence diagrams that are intended to be implemented in the next chapters of the project.

3.2 User Requirements

The system goals/objectives the user will reach when using beet.com.

- Our value we add to the economy is increasing the number sales and development in Egyptian Real estate field
- make purchase and sales process is easy and safe
- solve overprice issue
- solve brokerage commission issue

3.3 Functional requirements

List of actions that Beetcom performs for the user and the way it performs to certain data

For users (sellers & buyers) :-

- Signing up
- Login
- Enquiry property
- Search property
- Contact us
- book property
- Add property to favorite list
- Add advertising



For users (sellers): -

- Add properties
- Post requirement
- delete property

For user (business account):-

- Signing up
- Upload commercial record
- Upload tax card
- Login
- Add property & compounds
- Post requirement
- delete property & compounds
- Add advertising

Admin

- Update user information
- Delete user
- Edit user's validation
- Search for user
- Approval properties
- Edit properties
- Delete properties
- Approval announcements
- Update announcements
- Delete announcements

3.4 Non- Functional Requirements

• Performance:

Smooth and fast performance with no cutting or hanging while scrolling.

• Security:

Our website is secure, it authenticates users, and restriction is applied to data with data in database.

• Usability:

Extreme ease of use and user-friendly UI that allows users to seamlessly interact with us.



• Extensibility:

Adding new requirements when needed.

• Information security

Is the practice of preventing unauthorized access use, disclosure, distribution, modification, inspection, recording or destruction of information? It is a general term that can be used regardless of the data may take.

• Integrity:

- maintaining & assuring the accuracy & consistency of data. Ensures data is recorded exactly as it's
- Data has not been altered or modified

3.5 System Requirements

Hardware

- RAM: 4 GB or more.
- Hard disk: 50 GB
- Database server

Software

- The applications we need to install.
- any operating system with up-to-date browser
- Microsoft word and excel sheet.

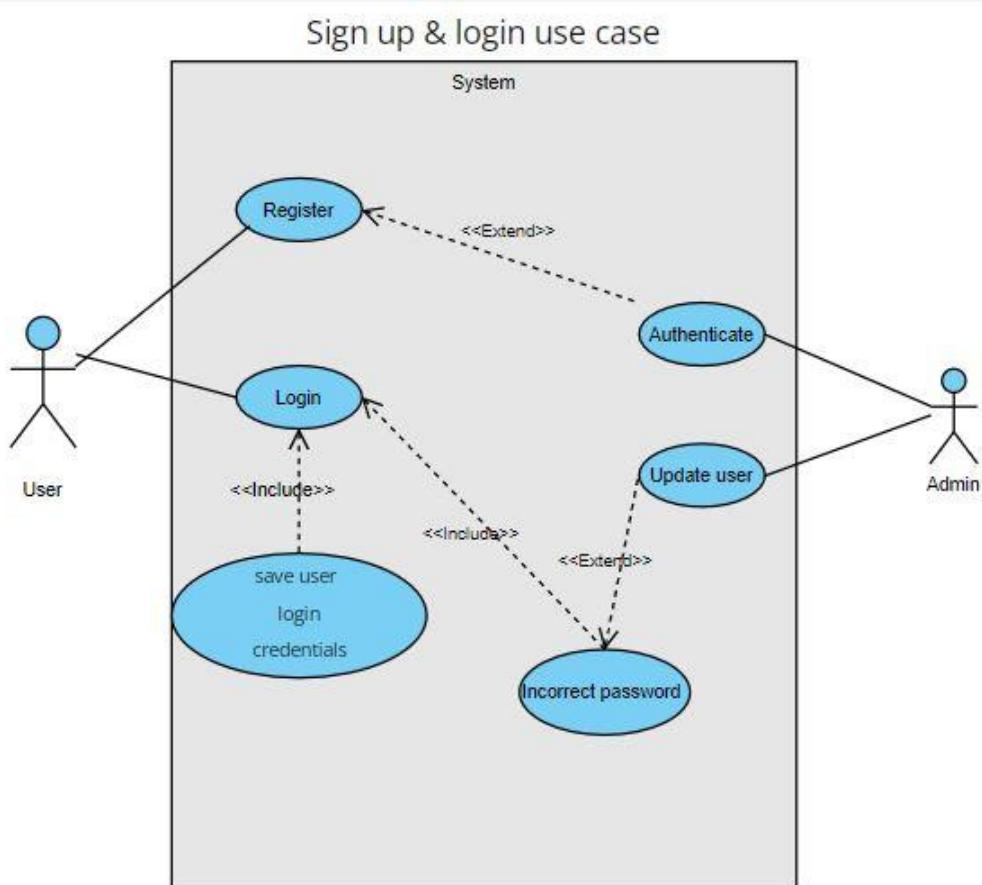
Tools & Languages

Back end: Xampp, Apache server, MySQL and PHP.

Front end: HTML5, CSS3, Bootstrap5, Java Script, Sass and Font Awesome.

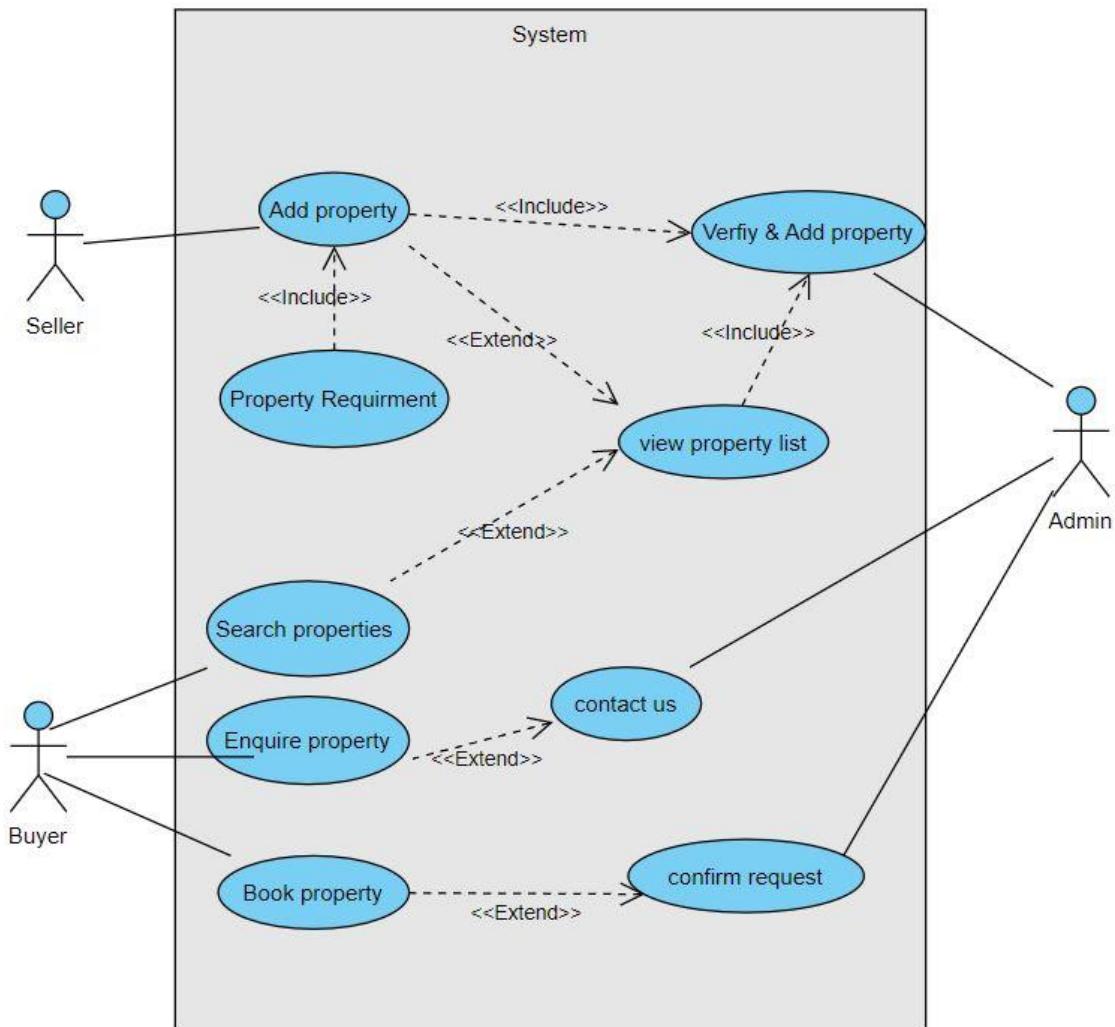
3.6 System analysis diagrams

3.6.1 Use-case Diagram



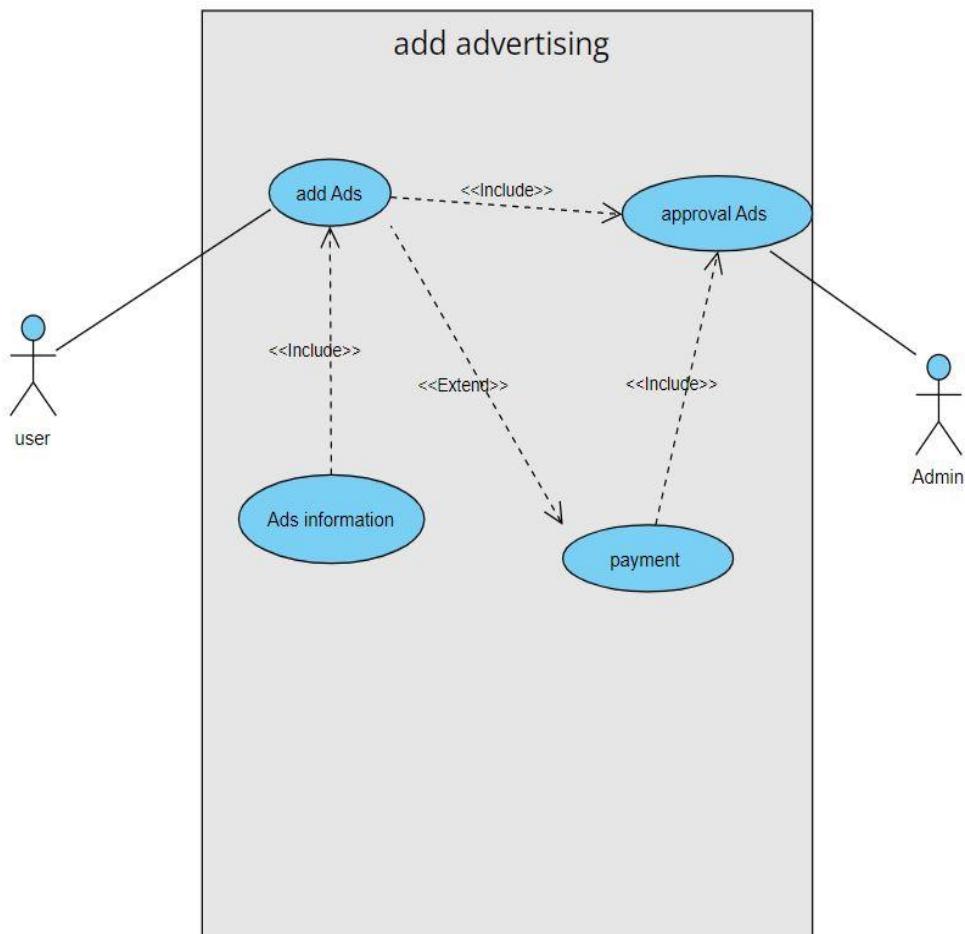


Add property use case diagram





To add advertising



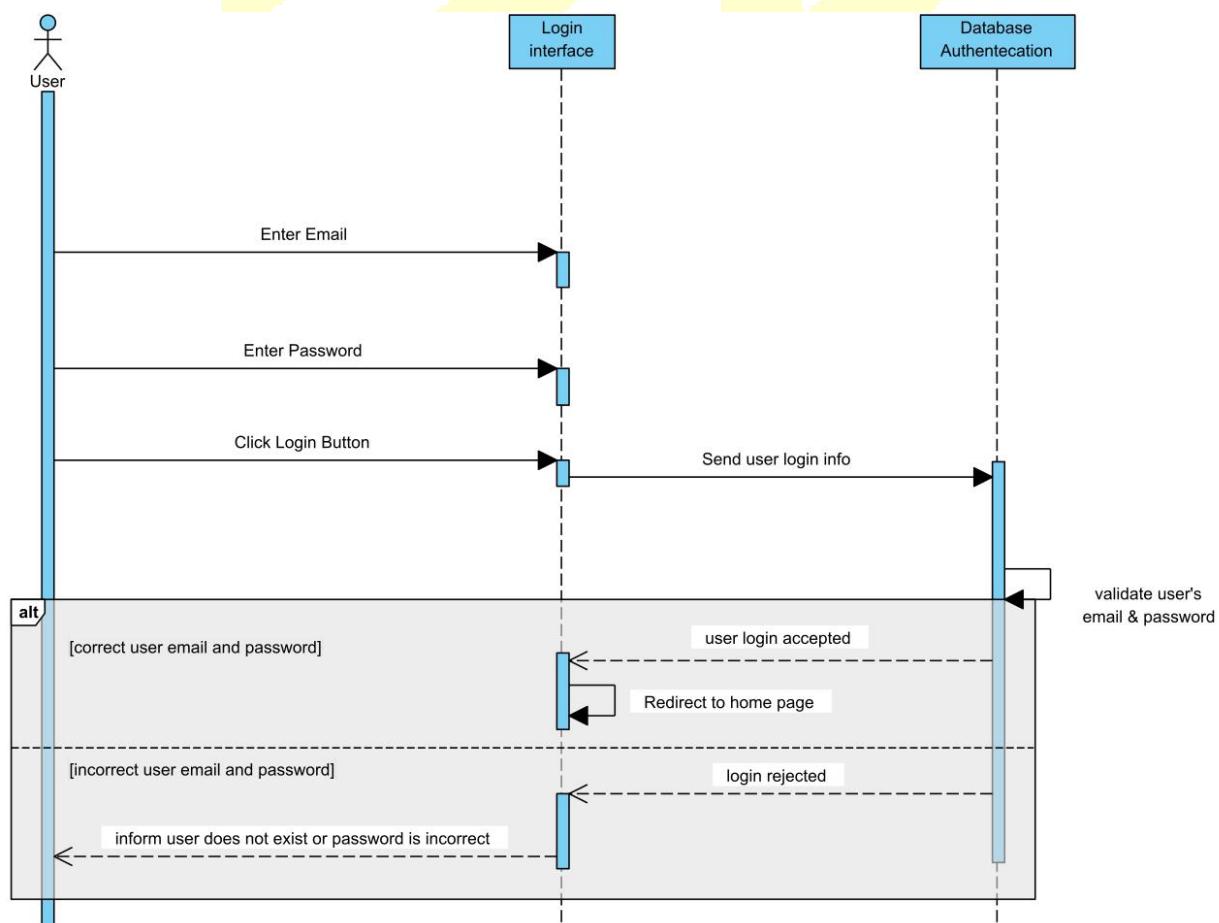
3.6.2 Sequence Diagram

The first UML sequence diagram is for the login process and it shows these lifelines:

- User
- Login UI Page
- Database Authentication

It models the following actions:

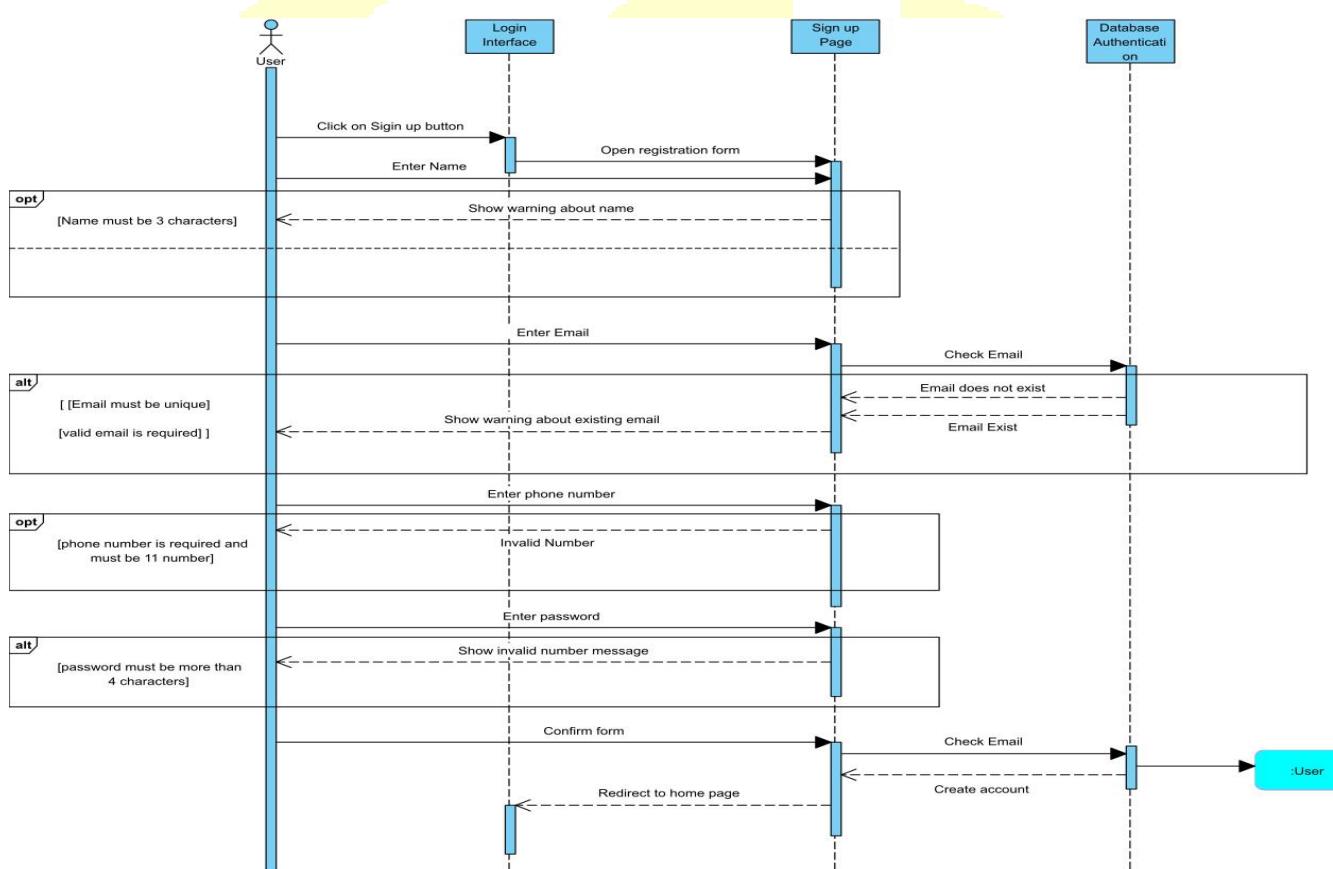
- Enter email
- Enter a password
- Click on the Login button
- Send user login info
- Validate user email & password
- User login accepted
- Redirect to the targeted home page
- User login rejected
- Inform user email does not exist or password is incorrect.



The second UML sequence diagram is for the login process and it shows these lifelines: 1) User 2) Sign up registration Form 3) Database Authentication

It models the following actions:

- Click on **Sign up Instead** button
- Open registration form
- Enter name
- Check name
- Show warning about invalid name
- Enter email
- Check email
- Show warning about used or invalid email
- Enter phone number
- Check for phone number
- Show warning about required phone number
- Enter password
- Show invalid password message
- Confirm the form
- Create account
- User successfully created
- Redirect to home page





The third UML sequence diagram is for the upload apartment, buy apartment process and it shows these lifelines:

- Beetcom
- Server management system
- Admin interface

It models the following actions:

A) Sell apartment

1- To upload the apartment to sell it open my account from website then add properties after fill form

2- The website will send request to server

3-The server will send request notification to admin interface

4-Then the admin can see the notification and will send this respond

5-If Admin accept request from admin interface

Then send notify acceptance to user from beetcom interface through by server

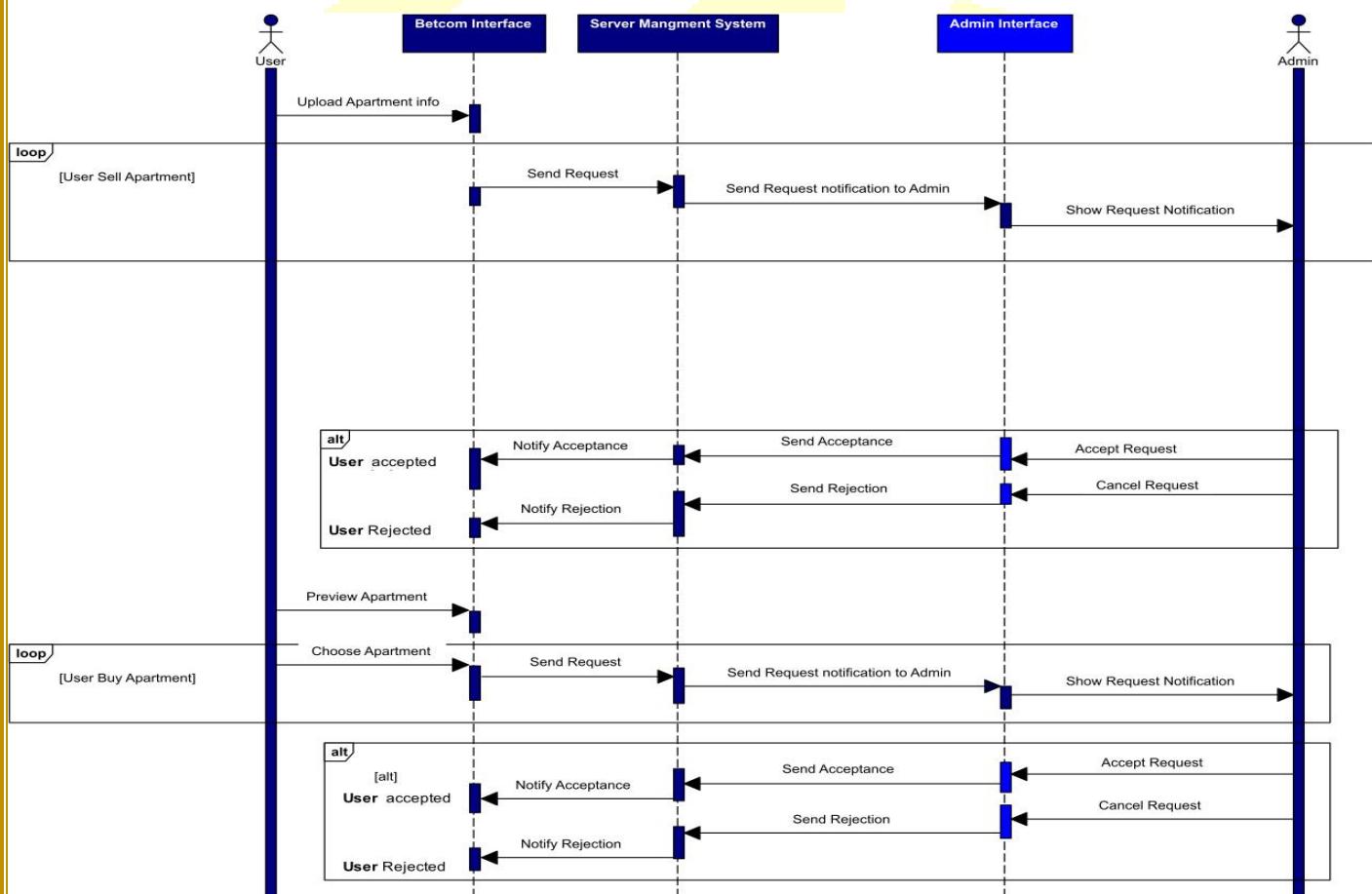
If admin reject request from admin interface

Then send notify rejection to user from beetcom interface through by server

B) Buy apartment

To buy apartment open property page then fill the form of contact agent (Admins)

Then admins contact buyer





The Fourth UML sequence diagram is for the upload advertising process and it shows these lifelines:

- Beetcom
 - Server management system
 - Admin interface
- It models the following actions:

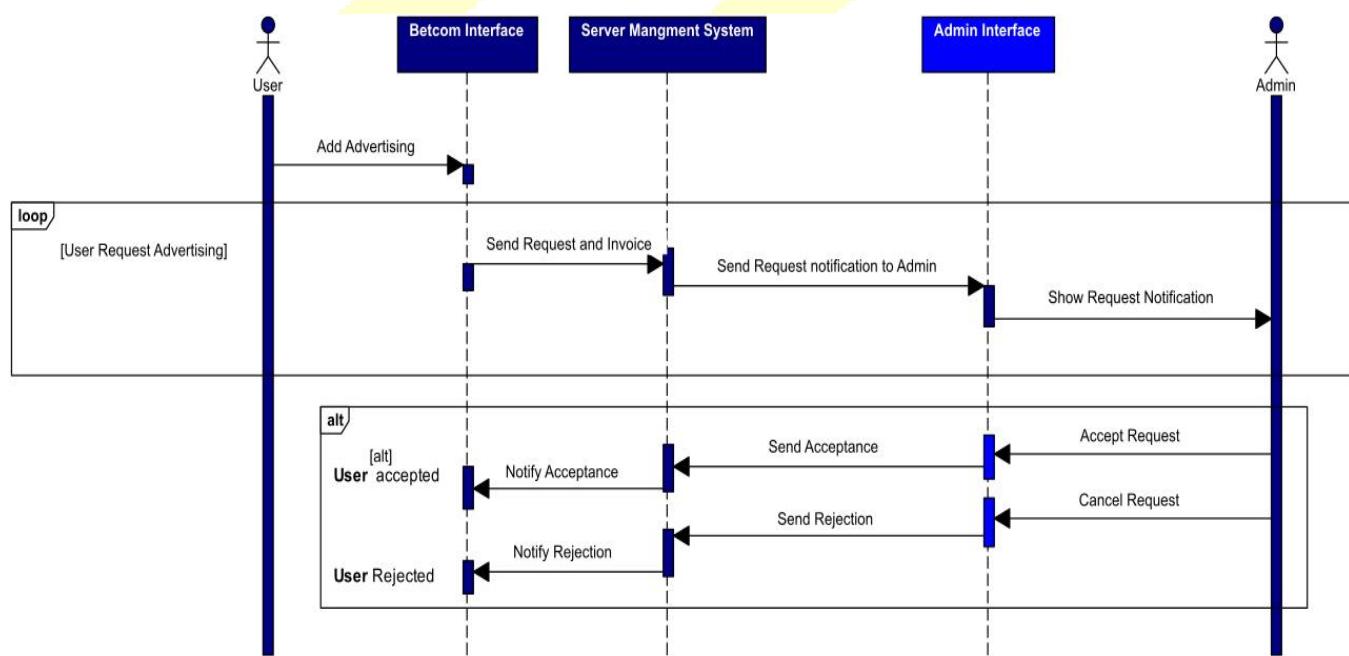
- 1-To add advertising from home page go to side ads then click on the link (join us) then fill form
- 2-The website will send request to server
- 3-The server will send request notification to admin interface
- 4-Then the admin can see the notification and will send this respond

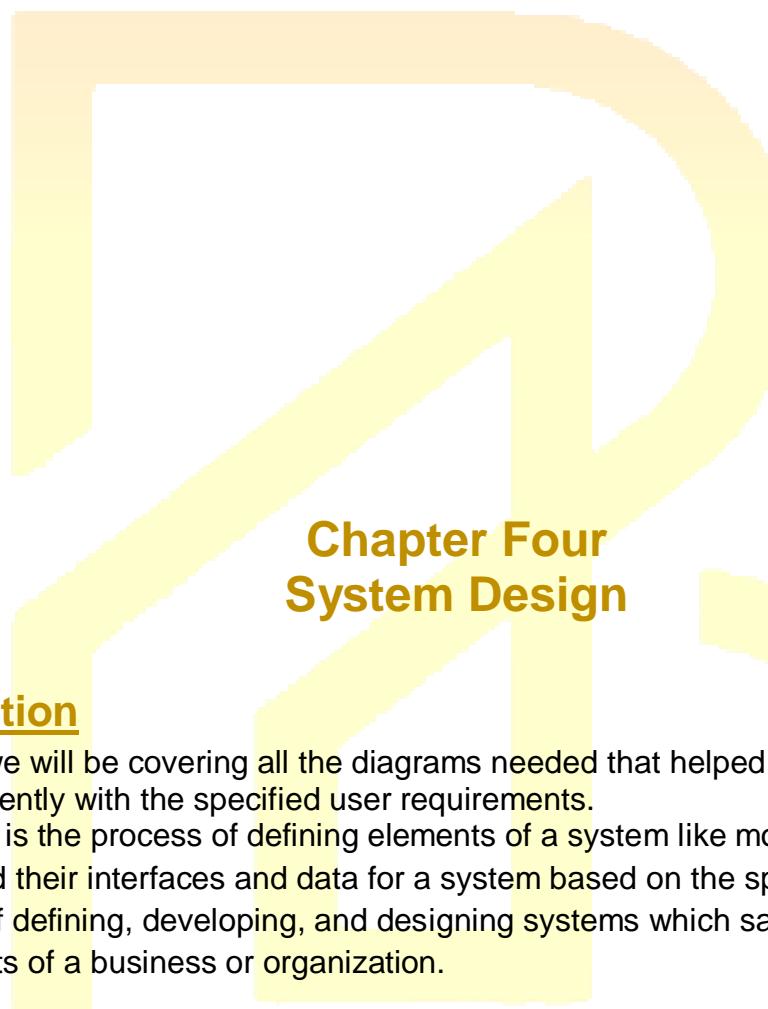
If Admin accept request from admin interface

Then send notify acceptance to user from beetcom interface then through by server then admin request him to upload the invoice to take approval

If admin reject request from admin interface

Then send notify rejection to user from beetcom interface through by server





4.1 Introduction

In this chapter we will be covering all the diagrams needed that helped us implement the application efficiently with the specified user requirements.

Systems design is the process of defining elements of a system like modules, architecture, components and their interfaces and data for a system based on the specified requirements. It is the process of defining, developing, and designing systems which satisfies the specific needs and requirements of a business or organization.

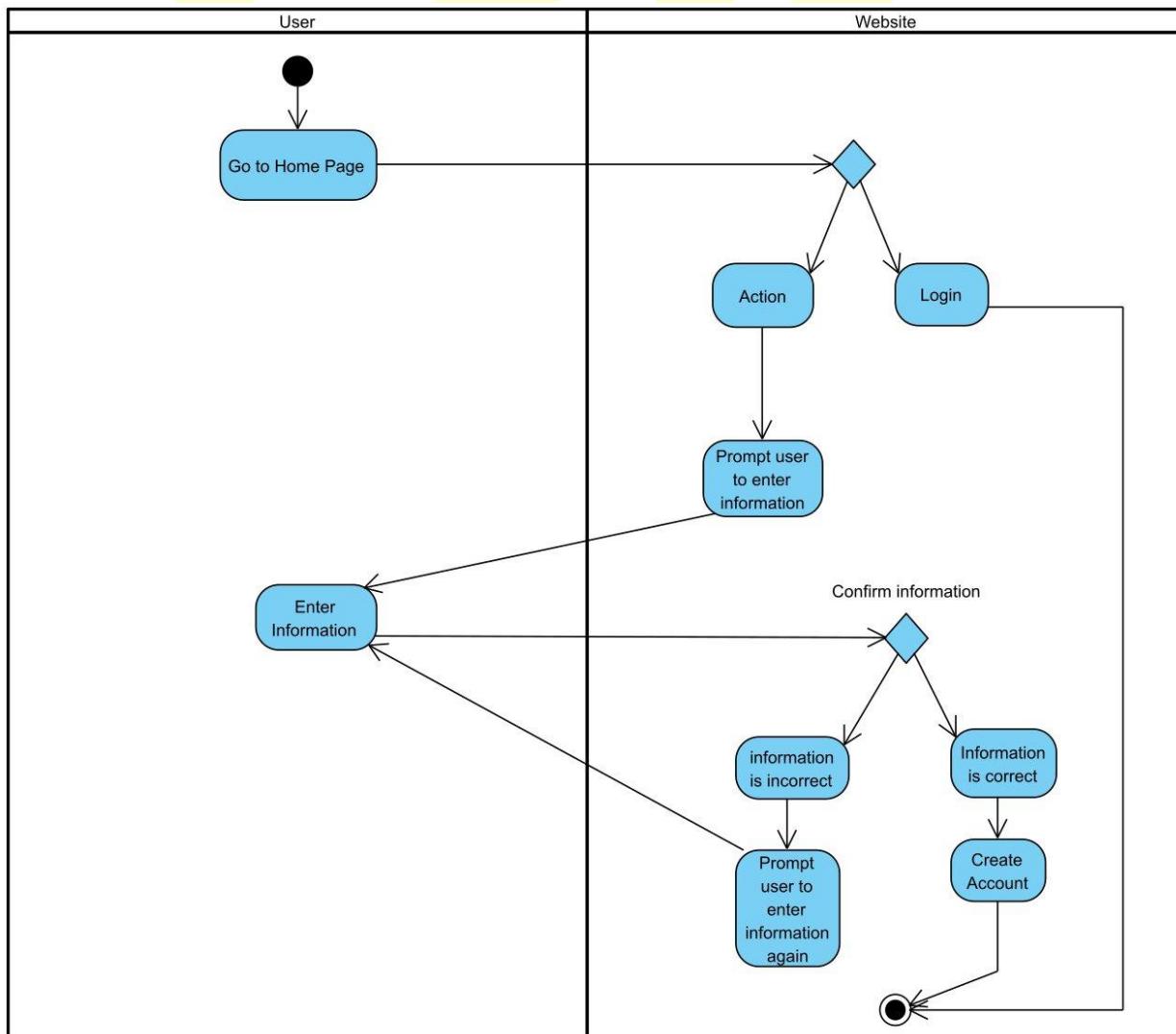
4.2 Activity diagram

- Activity diagram is another important diagram in UML to describe the dynamic aspects of the system.
- Activity diagram is basically a flowchart to represent the flow from one activity to another activity. The activity can be described as an operation of the system.
- The control flow is drawn from one operation to another. This flow can be sequential, branched, or concurrent. Activity diagrams deal with all type of flow control by using different elements such as fork
- The basic purposes of activity diagrams are similar to other four diagrams. It captures the dynamic behavior of the system. Other four diagrams are used to

show the message flow from one object to another but activity diagram is used to show message flow from one activity to another.

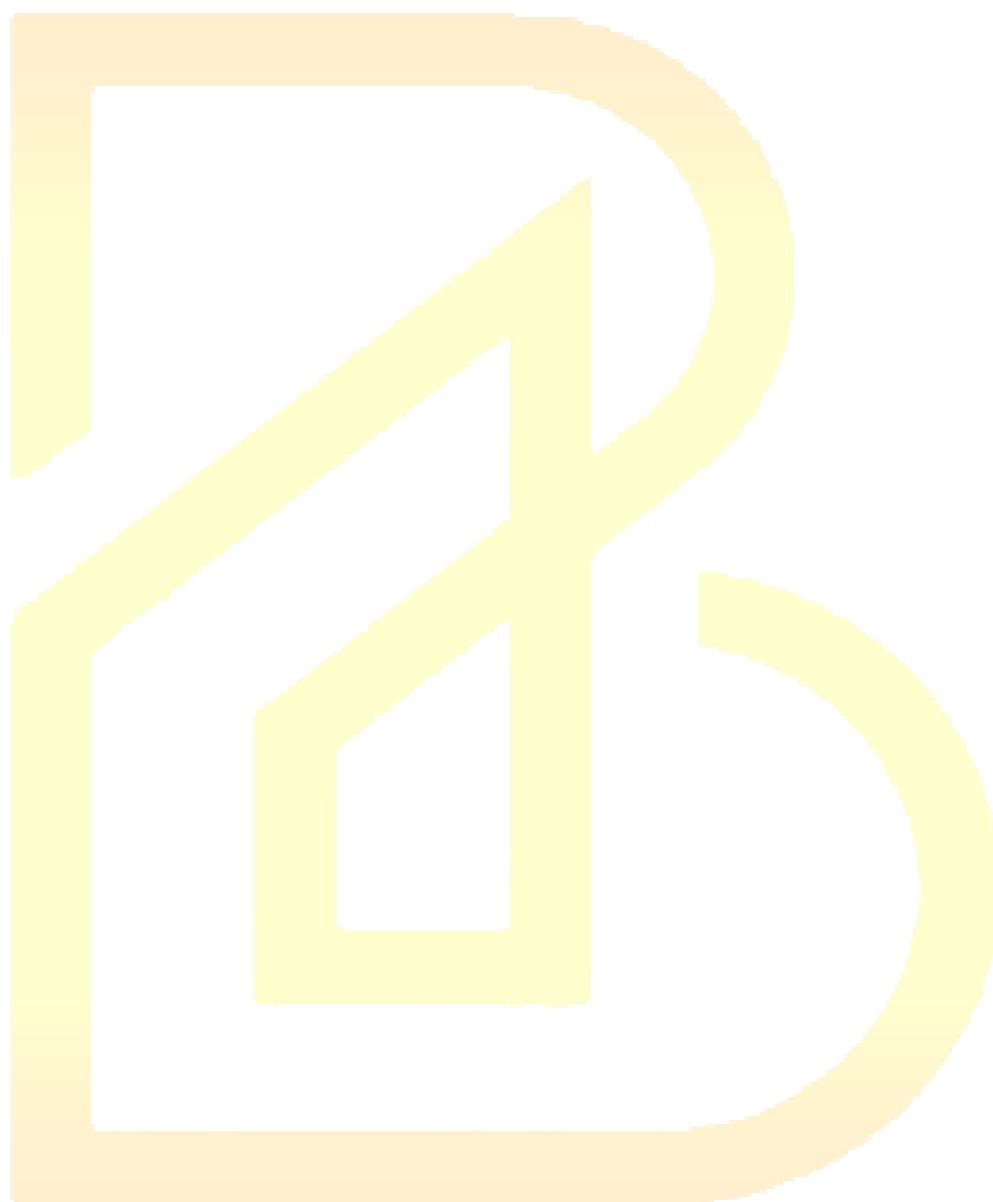
- Activity is a particular operation of the system. Activity diagrams are not only used for visualizing the dynamic nature of a system, but they are also used to construct the executable system by using forward and reverse engineering techniques. The only missing thing in the activity diagram is the message part.
- It does not show any message flow from one activity to another. Activity diagram is sometimes considered as the flowchart. Although the diagrams look like a flowchart, they are not. It shows different flows such as parallel, branched, concurrent, and single.

First activity diagram about login user



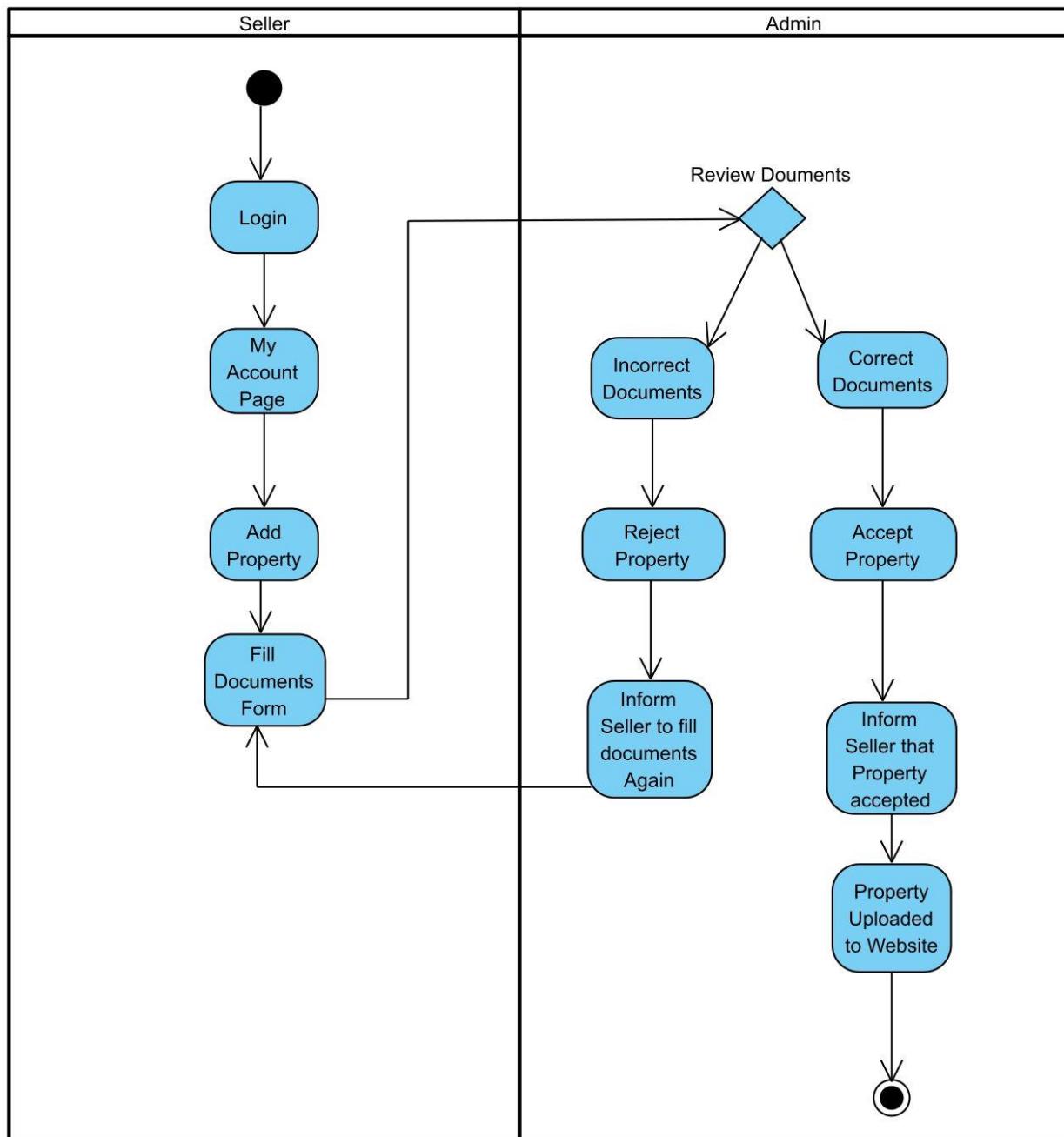


Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)

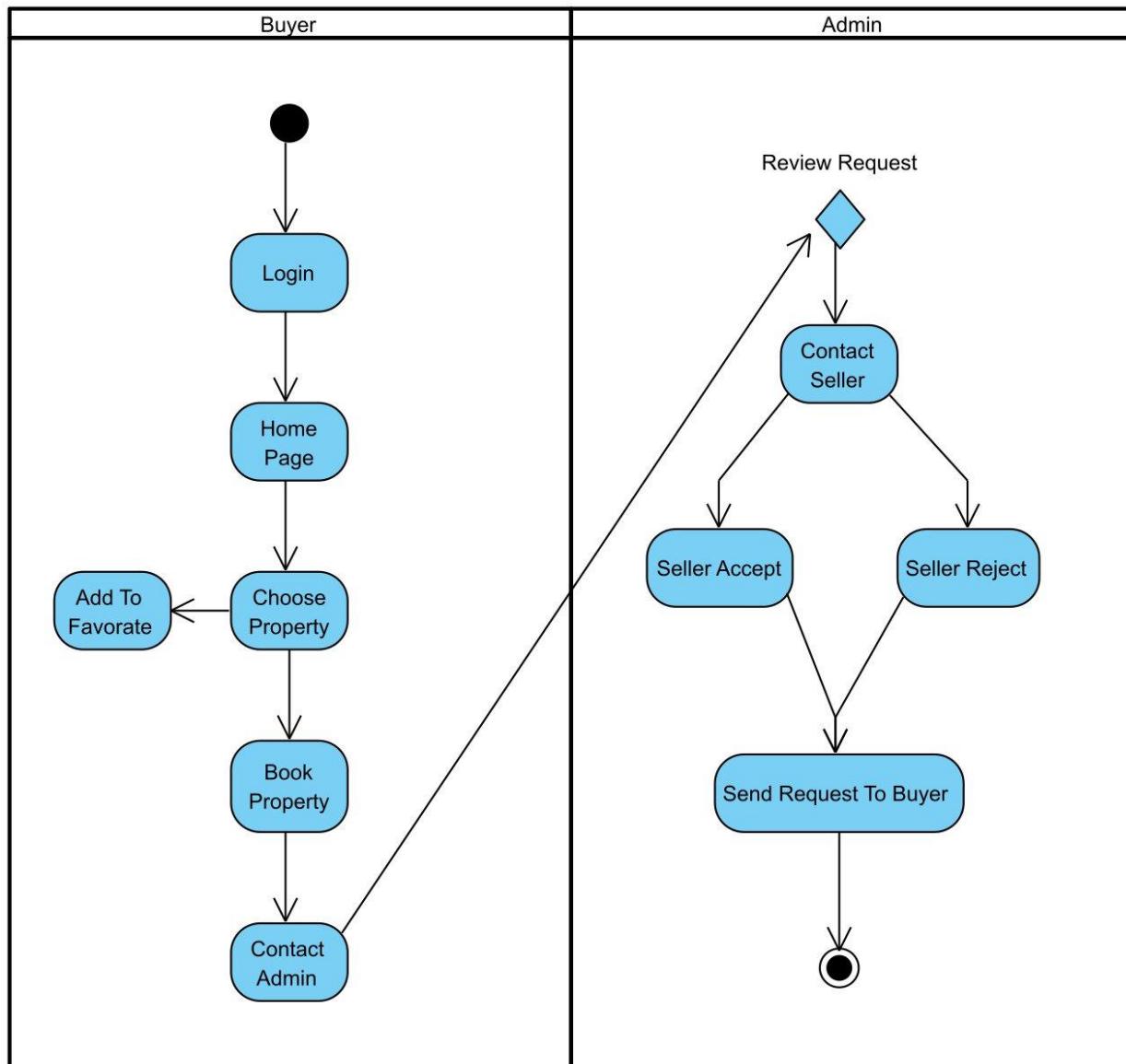


Second activity

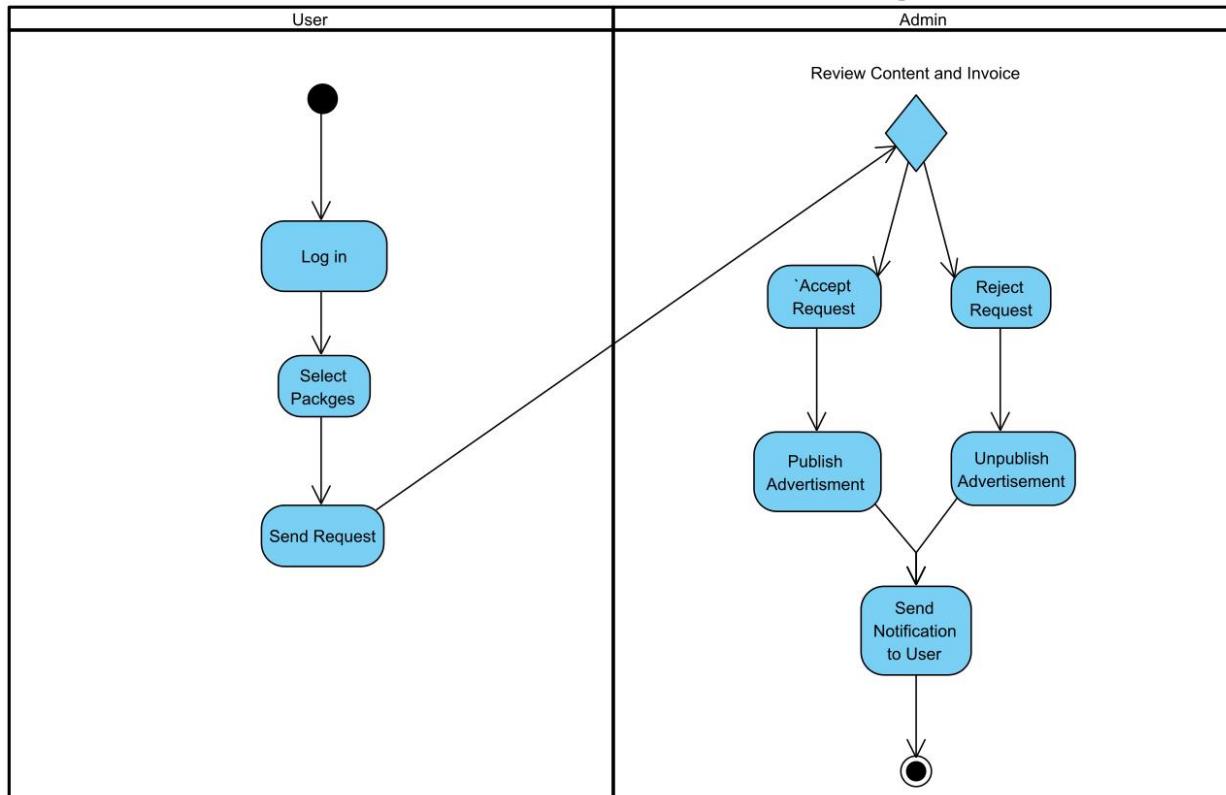
This activity talks about when seller wants to sell the property



Third activity diagram When the buyer wants to book property



Fourth activity diagram When user wants to add advertising in side –ads



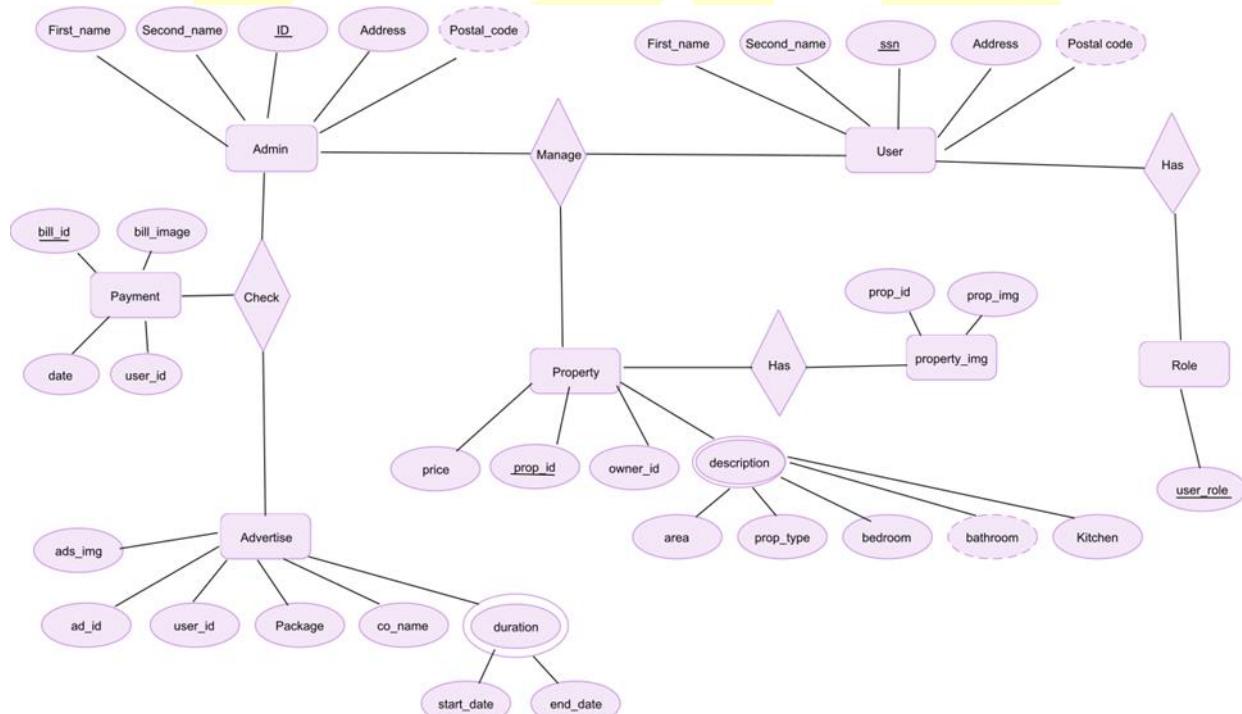
4.3 EER Diagram

ERD

An entity-relationship diagram is a specialized graphic form that illustrates the relationships between entities in a database. ER diagrams often use symbols to represent three types of information: entities (or concepts), relationships and attributes. In industry standard ER diagrams, boxes are used to represent entities. Diamonds are used to represent relationships, and ovals are used to represent attributes.

Although to the untrained eye, entity-relationship diagrams can look incredibly complicated, to knowledgeable viewers, they help business users understand database structures at a high level without accompanying details.

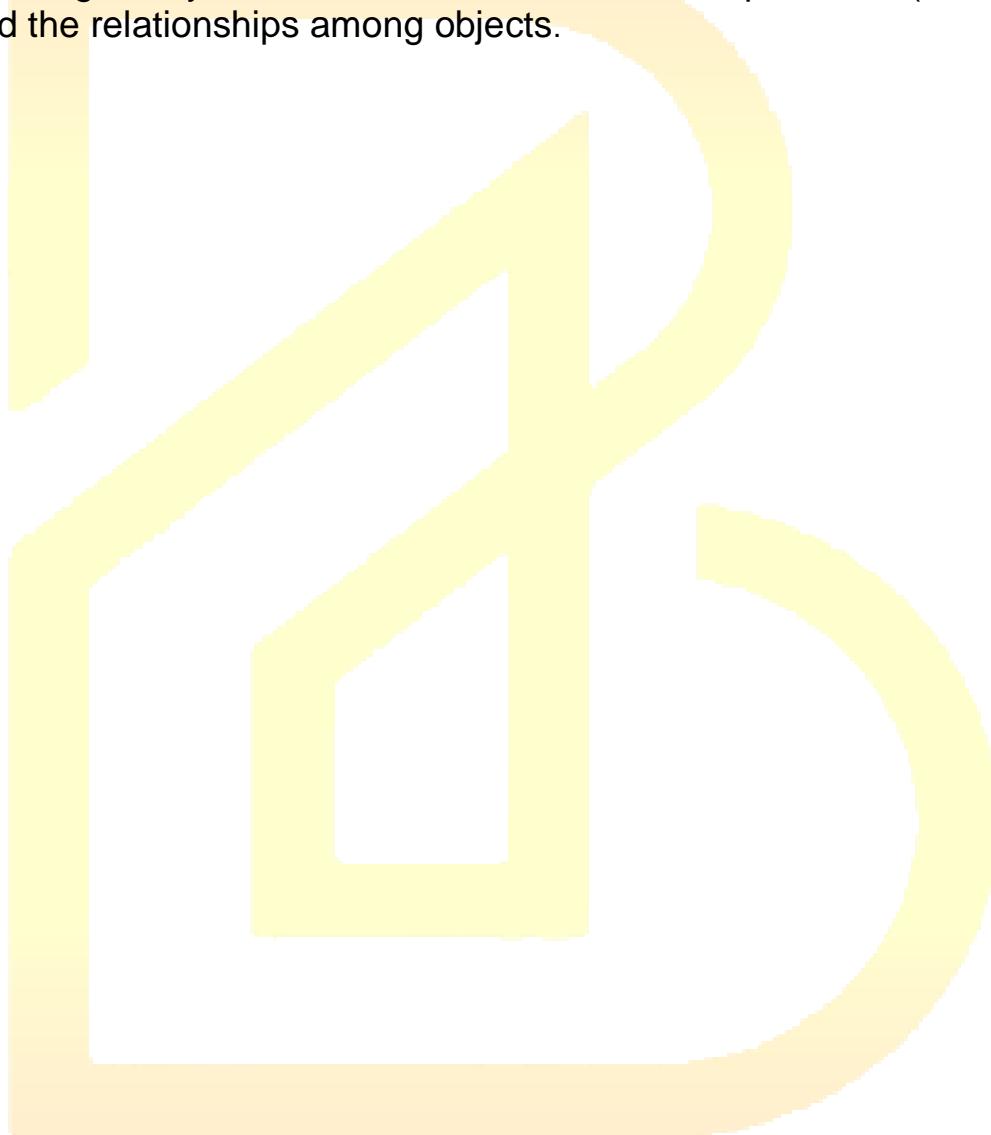
Database designers use ER diagrams for modeling the relationships between database entities in a clear format. Many software packages have automated methods to generate ER diagrams from existing databases.

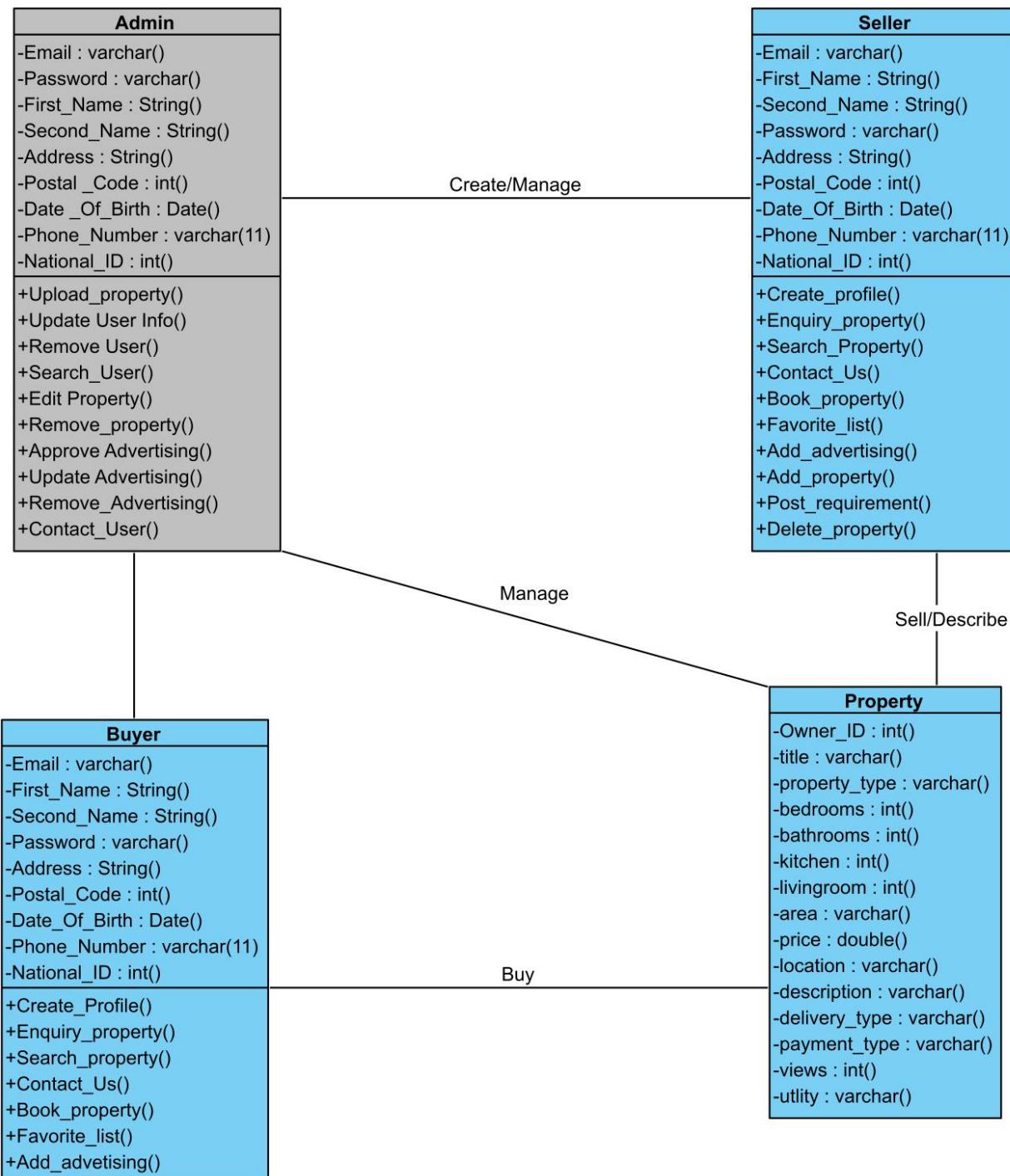




4.4 Class diagram

In software engineering, a class diagram in the Unified Modeling Language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, operations (or methods), and the relationships among objects.

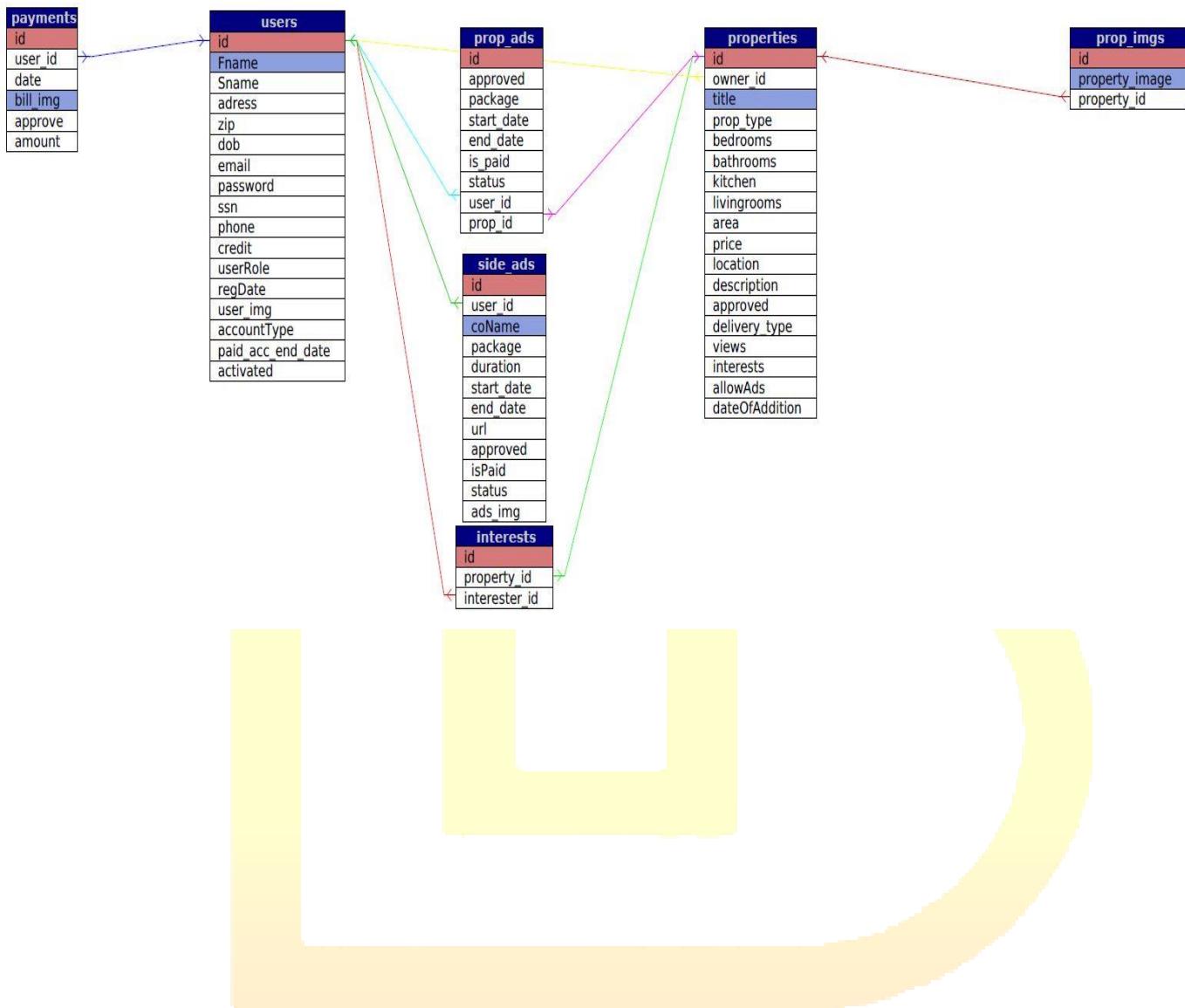




4.5 Database Schema:

The database schema is its structure described in a formal language supported by the database management system (DBMS).

A database schema specifies, based on the database administrator's knowledge of possible applications, the facts that can enter the database, or those of interest to the possible end-users.



4.6 Site Map:

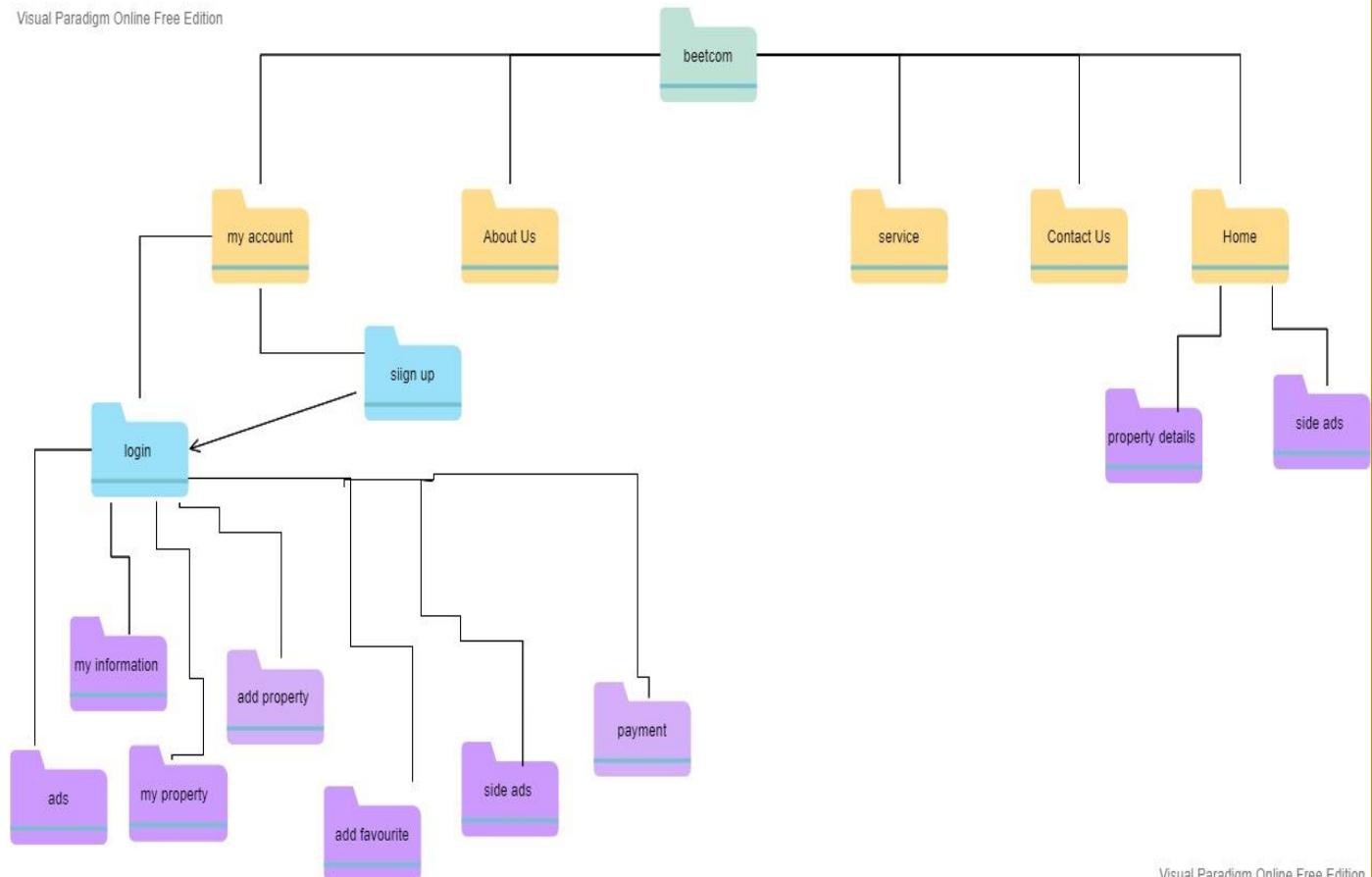
A site map is a model of a website's content designed to help both users and search engines navigate the site. A site map can be a hierarchical list of pages (with links) organized by topic, an organization chart, or an XML document that provides instructions to search engine crawl bots.



Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)



Visual Paradigm Online Free Edition



Visual Paradigm Online Free Edition



Chapter five System Implementation

5.1 Introduction

Front-end

A user interface is the part of the system with which the users interact. It includes the screen displays that provide navigation through the system, the screens and forms that capture data, and the reports that the system produces (whether on paper, on the Web, or via some other media).

Primary methods used in the interface design include prototyping and simulation.

Typical human-machine interface design consists of the following stages: interaction specification, interface software specification and prototyping:

- Common practices for interaction specification include user-centered design, persona, activity-oriented design, scenario-based design, and resiliency design.
- Common practices for interface software specification include use cases, constrain enforcement by interaction protocols, intended to avoid use errors.
- Common practices for prototyping are based on interactive design based on libraries of interface elements

Back-end

Responsible for managing the interchange of data between the site/software users and servers. The primary focus of the Backend Developer is to develop the server-side logic as well as the development and maintenance of the central database, ensuring high responsiveness and performance to requests from the frontend.

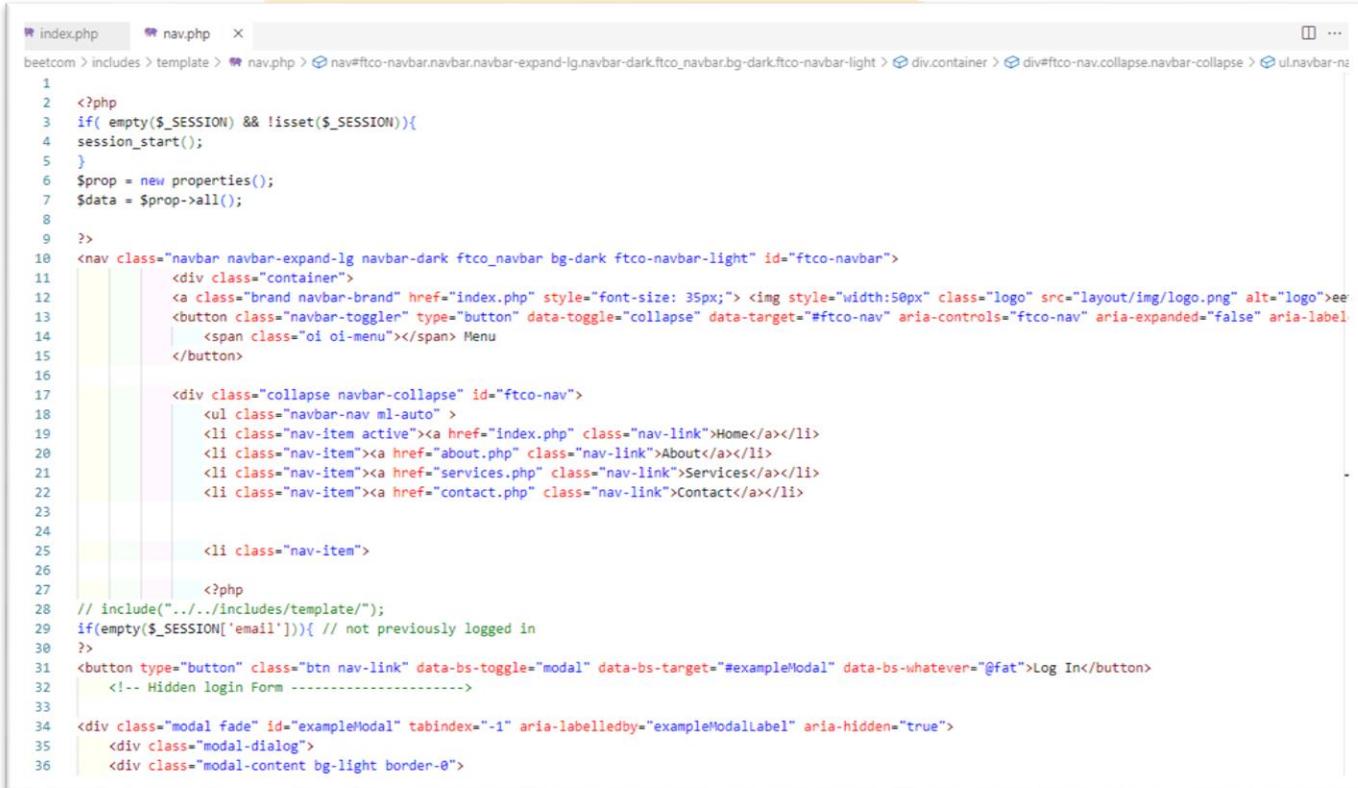
The Backend Developer is responsible for the integration of frontend elements built by the frontend teams, hence, requiring that he have a basic understanding of frontend technologies. The Backend Developer must be highly skilled at developing Application Program Interface (APIs).



The backend development team not only owns the API, but the engines that are used to drive the APIs as well, for example, Elastic Search and MySQL. The Backend Developer works with his team in building and supporting all of the business's web properties.

5.2 Project front-end & back-end screen shots

5.2.1 Index



A screenshot of a code editor displaying the contents of index.php. The code is a PHP script that includes logic for session management and generates an HTML navbar. The navbar is styled with Bootstrap classes like 'navbar-expand-lg', 'navbar-dark', and 'ftco-navbar-light'. It features a logo, a toggle button for mobile navigation, and a dropdown menu with links to Home, About, Services, and Contact. A modal login form is also included at the bottom.

```
index.php nav.php
beetcom > includes > template > nav.php > nav#ftco-navbar.navbar.navbar-expand-lg.navbar-dark.ftco-navbar.bg-dark.ftco-navbar-light > div.container > div#ftco-nav.collapse.navbar-collapse > ul.navbar-n
1
2 <?php
3 if( empty($_SESSION) && !isset($_SESSION)){
4 session_start();
5 }
6 $prop = new properties();
7 $data = $prop->all();
8
9 ?>
10 <nav class="navbar navbar-expand-lg navbar-dark ftco-navbar bg-dark ftco-navbar-light" id="ftco-navbar">
11     <div class="container">
12         <a class="brand navbar-brand" href="index.php" style="font-size: 35px;"> ee
13         <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#ftco-nav" aria-controls="ftco-nav" aria-expanded="false" aria-label="Toggle navigation">
14             <span class="oi oi-menu"></span> Menu
15         </button>
16
17         <div class="collapse navbar-collapse" id="ftco-nav">
18             <ul class="navbar-nav ml-auto" >
19                 <li class="nav-item active"><a href="index.php" class="nav-link">Home</a></li>
20                 <li class="nav-item"><a href="about.php" class="nav-link">About</a></li>
21                 <li class="nav-item"><a href="services.php" class="nav-link">Services</a></li>
22                 <li class="nav-item"><a href="contact.php" class="nav-link">Contact</a></li>
23
24
25                 <li class="nav-item">
26                     <?php
27 // include("../includes/template/");
28 if(empty($_SESSION['email'])){ // not previously logged in
29 ?>
30             <button type="button" class="btn nav-link" data-bs-toggle="modal" data-bs-target="#exampleModal" data-bs-whatever="@fat">Log In</button>
31             <!-- Hidden login Form ----->
32
33             <div class="modal fade" id="exampleModal" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
34                 <div class="modal-dialog">
35                     <div class="modal-content bg-light border-0">
```



Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)



```
index.php  nav.php  X  ...  
beetcom > includes > template > nav.php > nav#ftco-navbar.navbar.navbar-expand-lg.navbar-dark.ftco-navbar.bg-dark.ftco-navbar-light > div.container > div#ftco-nav.collapse.navbar-collapse > ul.navbar-  
36   <div class="modal-content bg-light border-0">  
37     <div class="modal-header">  
38       <h5 class="modal-title" id="exampleModalLabel">Log In</h5>  
39  
40       <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>  
41     </div>  
42   <div class="modal-body">  
43  
44     <form method="post" action="includes/functions/login.php">  
45       <div class="mb-3">  
46         <label for="recipient-name" class="col-form-label">Email:</label>  
47         <input type="email" class="form-control" id="recipient-name" name="email" required>  
48       </div>  
49       <div class="mb-3">  
50         <label for="message-text" class="col-form-label">Password:</label>  
51         <input type="password" class="form-control" id="recipient-pass" name="pass" required>  
52       </div>  
53       <a class="create" href="reg.php">Create Account?</a>  
54  
55  
56       <div class="modal-footer">  
57         <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Close</button>  
58         <button type="submit" class="btn btn-primary">Log In</button>  
59       </div>  
60     </form>  
61   </div>  
62 </div>  
63  
64   </div>  
65 </div>  
66 </div>  
67 </div>  
68   <!-- END Of Hidden login Form ----->  
69 <?php }elseif(isset($_SESSION['email']) && !empty($_SESSION['email'])){  
70 ?>  
71 <!-- ----- Profile Icon -->
```

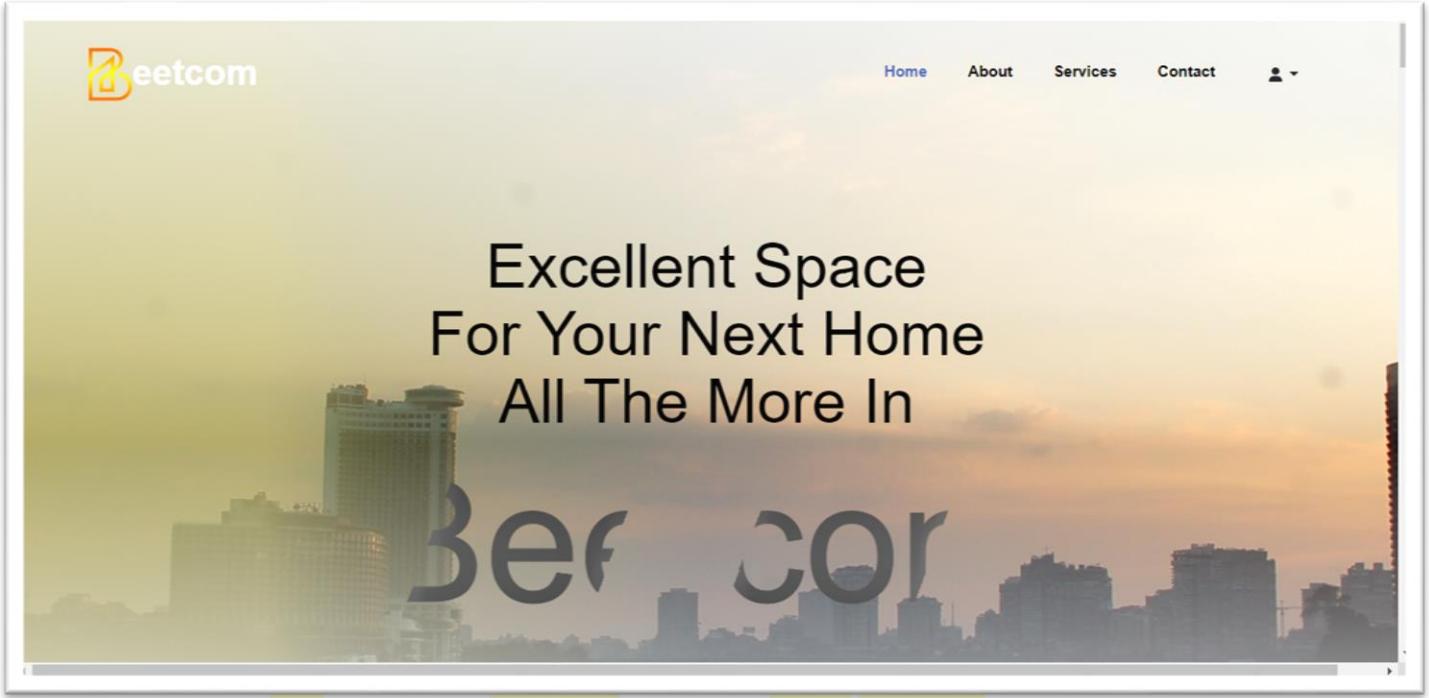
```
index.php  nav.php  X  ...  
ainer > div#ftco-nav.collapse.navbar-collapse > ul.navbar-nav.ml-auto > li.nav-item > div#exampleModal.modal.fade > div.modal-dialog > div.modal-content.bg-light.border-0 > div.modal-body > form  
55  
56  
57   <div class="modal-footer">  
58     <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Close</button>  
59     <button type="submit" class="btn btn-primary">Log In</button>  
60   </div>  
61  
62   </form>  
63 </div>  
64  
65 </div>  
66 </div>  
67 </div>  
68   <!-- END Of Hidden login Form ----->  
69 <?php }elseif(isset($_SESSION['email']) && !empty($_SESSION['email'])){  
70 ?>  
71 <!-- ----- Profile Icon -->  
72  
73  
74 <div class="dropdown nav-link">  
75   <button class="btn dropdown-toggle" type="button" id="dropdownMenuButton" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">  
76     <i class="fa-solid fa-user"></i>  
77   </button>  
78   <div class="dropdown-menu" role="menu" aria-labelledby="menu1" aria-labelledby="dropdownMenuButton">  
79     <h4 class="offcanvas-title text-center"><?php echo $_SESSION['Fname'] ?></h4>  
80     <a class="dropdown-item" href="personal.php?id=<?php echo $_SESSION['id']?>"><button class="dropdown-item" type="button">My Account</button></a>  
81     <a class="dropdown-item" href="fav.php"><button class="dropdown-item" type="button">My Favourite</button></a>  
82     <a class="dropdown-item" href="includes/functions/logout.php"><button class="dropdown-item danger" type="button">LogOut</button></a>  
83   </div>  
84 </div>  
85 </div>  
86  
87  
88 <?php } ?>  
89  
90   </li>
```



Excellent Space
For Your Next Home
All The More In
Beet cor

```
index.php x nav.php
beetcom > index.php > div.hero-wrap
6 $interest = new interests();
7 if( isset( $_POST['liked']) ){
8     $prop_id = $_POST['prop_id'];
9     @var string $page_title , $_SESSION['id'];
10    $page_title = 'BeetCom';
11
12 include("includes/template/header.php");
13 include("includes/template/nav.php");
14 ?>
15
16 <!-- Slider main container -->
17 <div class="hero-wrap" style="background-image: url(..//beetcom/layout/img/2272186909_de0f7e5dal_o.jpg); " data-stellar-background-ratio="0.5">
18     <div class="overlay"></div>
19     <div class="overlay-2"></div>
20     <div class="container">
21         <div class="row no-gutters slider-text justify-content-center align-items-center">
22             <div class="col-lg-8 col-md-6 ftc-animate d-flex align-items-end">
23                 <div class="text text-center w-100">
24                     <h1 class="mb-4">Excellent Space <br>For Your Next Home <br>All The More In</h1>
25                     <!-- <p><a href="#" class="btn btn-primary py-3 px-4 search-btn">Search Properties</a></p> -->
26                     <h1 class="mb-4" id="text-box">Beetcom</h1>
27                 </div>
28             </div>
29         </div>
30     </div>
31     <div class="mouse">
32         <a href="#" class="mouse-icon">
33             <div class="mouse-wheel"><span class="ion-ios-arrow-round-down"></span></div>
34         </a>
35     </div>
36 </div>
37
38
39
40 <!-- FILTER-->
41 <?php
42 include("includes/template/filter.php");
43 ?>
44 <!-- Filter -->
45 <div id="check">
46
47 </div>
48
49
```

In 17, Col 139 Spaces: 2 UTF-8 LF PHP Go Live



```
index.php X nav.php
bestorm > index.php ...
41 <div> ..... FILTER-->
42 </php>
43 include("includes/template/filter.php");
44 >
45 <!------- Filter -->
46 <div id="check">
47
48 </div>
49
50
51 <div class="container">
52   cascade class="parent-ad col-md-1">
53     cp class="ad">
54       <php include("includes/functions/manage_side_ads.php"); >
55       <a href="side_ads_form.php" class="join">Join Us and Create a Side Ads...</a>
56     </cp>
57   </aside>
58
59   <div id="ajaxData" class="col-md-11">
60
61 </div>
62 </div>
63
64 <!------- Premium Section --->
65 <section class="ftco-section ftco-fullwidth <php >">
66   <div class="overlay" style="background-color: #fff; opacity: 0.8;>
67     <div class="container">
68       <div class="row justify-content-center">
69         <div class="col-md-12 heading-section text-center ftco-animate mb-5">
70           <h2 class="mb-2 mt-3">Why Choose Us?</h2>
71           <div>
72             </div>
73           </div>
74           <div class="container-fluid px-0">
75             <div class="d-flex flex-wrap align-items-stretch">
76               <div class="col-6 d-flex flex-wrap align-items-stretch" style="background-image: url(/layout/img/about.jpg); border-radius: 27px; margin-left: 17px;">
77                 <div class="one-half half-text d-flex justify-content-center align-items-center">
78                   <div class="text-inner pl-10 pr-5">
79                     <div class="row d-flex">
80                       <div class="col-md-4 d-flex align-self-stretch ftco-animate">
81                         <div> ..... block 6 services wrap d-flex" style="background-color: #fff; padding: 10px; border-radius: 10px; margin-right: 10px;">
82                           <div class="row d-flex justify-content-center align-items-center"><span class=""$</span></div>
83                           <div class="media-body pl-4">
84                             <h3>Downpayment</h3>
85                             <p>A small river named Duden flows by their place and supplies it with the necessary regollialia.</p>
86                           </div>
87                         </div>
88                       </div>
89                     </div>
90                   <div class="col-md-12 d-flex align-self-stretch ftco-animate">
91                     <div class="media block-6 services-wrap d-flex">
92                       <div class="row d-flex justify-content-center align-items-center"><span class="flaticon wallet"></span></div>
93                       <div class="media-body pl-4">
94                         <h3>All Cash Offer</h3>
95                         <p>A small river named Duden flows by their place and supplies it with the necessary regollialia.</p>
96                       </div>
97                     </div>
98                   </div>
99                 </div>
100               </div>
101             </div>
102             <h3>Experts In Your Corner</h3>
103             <p>A small river named Duden flows by their place and supplies it with the necessary regollialia.</p>
104           </div>
105         </div>
106       </div>
```



Helwan University

Faculty of Commerce & Business Administration

Business Information Systems (BIS)



Home About Services Contact

Location

Property Type

Property Status

Price



Join Us and Create a Side Ads.

```
index.php x nav.php
index.php > index.php > section#section-counter.ftco-counter.ftco-section img > div.container > div.row > div.col-md-6.col-lg-3.justify-content-center.counter-wrap.ftco-animate.counter-row > div.block-18 > div.text.text-border.d-flex.align-items-center
70 | <h2 class="mb-2 mt-3">Why Choose Us?</h2>
71 | </div>
72 | </div>
73 | </div>
74 | <div class="container-fluid px-0">
75 | <div class="row d-md-flex text-wrapper align-items-stretch">
76 | <div class="one-half mb-md-0 mb-4" style="background-image:url(layout/img/about.jpg); border-radius: 27px; margin-left:17px;"></div>
77 | <div class="one-half half-text d-flex justify-content-end align-items-center">
78 | <div class="text-inner pl-md-5">
79 | <div class="row d-flex">
80 | <div class="col-md-12 d-flex align-self-stretch ftco-animate">
81 | <div class="media block-6 services-wrap d-flex">
82 | <div class="icon d-flex justify-content-center align-items-center"><span class="">$</span></div>
83 | <div class="media-body pl-4">
84 | <h3>No Downpayment</h3>
85 | <p>A small river named Duden flows by their place and supplies it with the necessary regelialia.</p>
86 | </div>
87 | </div>
88 | </div>
89 | <div class="col-md-12 d-flex align-self-stretch ftco-animate">
90 | <div class="media block-6 services-wrap d-flex">
91 | <div class="icon d-flex justify-content-center align-items-center"><span class="flaticon-wallet"></span></div>
92 | <div class="media-body pl-4">
93 | <h3>All Cash Offer</h3>
94 | <p>A small river named Duden flows by their place and supplies it with the necessary regelialia.</p>
95 | </div>
96 | </div>
97 | </div>
98 | <div class="col-md-12 d-flex align-self-stretch ftco-animate">
99 | <div class="media block-6 services-wrap d-flex">
100 | <div class="icon d-flex justify-content-center align-items-center"><span class="flaticon-file"></span></div>
101 | <div class="media-body pl-4">
102 | <h3>Experts in Your Corner</h3>
103 | <p>A small river named Duden flows by their place and supplies it with the necessary regelialia.</p>
104 | </div>
105 | </div>
106 | </div>
107 | <div class="col-md-12 d-flex align-self-stretch ftco-animate">
108 | <div class="media block-6 services-wrap d-flex">
109 | <div class="icon d-flex justify-content-center align-items-center"><span class="flaticon-locked"></span></div>
110 | <div class="media-body pl-4">
111 | <h3>Locked in Pricing</h3>
112 | <p>A small river named Duden flows by their place and supplies it with the necessary regelialia.</p>
113 | </div>
114 | </div>
```

Ln 139, Col 46 Spaces: 2 UTF-8 LF PHP Go Live



Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)



Beetcom

[Home](#) [About](#) [Services](#) [Contact](#) [...](#)

Why Choose Us?



- No Downpayment**
No pays in the early stages of purchasing an expensive good or service.
- All Cash Offer**
We are working hard to save your money. So we offer you the best place at the suitable price for you.
- Experts In Your Corner**
Experience is our name. We have stuffed experts to help you to own your dreamed place.
- Locked In Pricing**
We will use if you ask us and we agree to establish ("Lock-In").

```
index.php x  index.php
beetcom > index.php > section#section-counter.ftco-counter.ftco-section img > div.container > div.row > div.col-md-6.col-lg-3.justify-content-center.counter-wrap.ftco-animate.counter-row
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
<!-- Gallery By Location -->
<section class="ftco-section testimony-section bg-light">
```



Helwan University

Faculty of Commerce & Business Administration

Business Information Systems (BIS)





Locked In Pricing
We will use it if you ask us and we agree to establish ("Lock-In").

305 Area Population

1,090 Total Properties

209 Average House

67 Total Branches

Clients' Review

```
index.php x nav.php
p > section.ftco-section.testimony-section.bg-light > div.container > div.row.ftco-animate > div.col-md-12 > div.carousel-testimony.owl-carousel.ftco-owl > div.item > div.testimony-wrap.py-4 > div.text > div.d-flex.align-items-center > div.p-3
164 <section class="ftco-section testimony-section bg-light">
165   <div class="container">
166     <div class="row justify-content-center mb-5">
167       <div class="col-md-7 text-center heading-section ftco-animate">
168         <h2 class="mb-3 mt-5">Clients' Review</h2>
169       </div>
170     </div>
171     <div class="row ftco-animate">
172       <div class="col-md-12">
173         <div class="carousel-testimony owl-carousel ftco-owl">
174           <div class="item">
175             <div class="testimony-wrap py-4">
176               <div class="text">
177                 <p class="mb-4">I did not have the financial ability to pay all this amount of money at once but I found the financial facilities</p>
178               <div class="d-flex align-items-center">
179                 <div class="p-1-3">
180                   <p class="name">Michael Emad</p>
181                   <span class="position">Business Analyst</span>
182                 </div>
183               </div>
184             </div>
185           </div>
186         </div>
187         <div class="item">
188           <div class="testimony-wrap py-4">
189             <div class="text">
190               <p class="mb-4">One of the best realestate web-site that satisfied my needs</p>
191             <div class="d-flex align-items-center">
192               <div class="p-1-3">
193                 <p class="name">Michael Nasser</p>
194                 <span class="position">Web Developer</span>
195               </div>
196             </div>
197           </div>
198         </div>
199       </div>
200       <div class="item">
201         <div class="testimony-wrap py-4">
202           <div class="text">
203             <p class="mb-4">Very good customer service and excellent after-purchase services. I did not expect to find workers to finish my apartment, but <strong>Beetcom</strong> they saved
204             <div class="d-flex align-items-center">
205               <div class="p-1-3">
206                 <p class="name">Mario Magdi</p>
207                 <span class="position">System Analyst</span>
208               </div>
209             </div>
210           </div>
211         </div>
212       </div>
213     </div>
214   </div>
215 </div>
```



Clients' Review

One of the best realestate web-site that satisfied my needs

Michael Nasser

Web Developer

Very good customer service and excellent after-purchase services. I did not expect to find workers to finish my apartment, but **Beetcom** they saved me all this at the lowest costs.

Mario Magdi
System Analyst

I was confused about the prices due to the great disparity in the prices that exist in the market while I found in **Beetcom** the best price and the best place. It is very difficult to have both but **Beetcom** achieve this

Marina Robile
Business Analyst



The header features the Beetcom logo on the left, followed by a navigation bar with links for Home, About, Services, Contact, and a user icon. The main content area has a dark background image of a city skyline at night. On the left, there's a section for 'About Us' with links to Our Mission, Our Vision, and Our Value. In the center, there's a 'Company' section with links to About Us, Services, and Contact Us. On the right, there's a 'Have a Question?' section with contact information: address (198 Abo ElFada Street, Zamalik, Cairo), phone number (+20 128 829 3741), and email (beetcom1819@gmail.com). Social media icons for Twitter, Facebook, and Instagram are also present.

5.2.2 About Us



About Us

HOME > ABOUT US >

```
index.php    about.php    absolu.php    nav.php
  1 <?php
  2     include('header.php');
  3
  4     $clients = get_posts([
  5         'post_type'      => 'clients',
  6         'posts_per_page' => -1,
  7         'order'          => 'ASC'
  8     ]);
  9
 10    if($clients->have_posts()):
 11        while($clients->have_posts()):
 12            $clients->the_post();
 13
 14            echo '

15                <div class="clients-item">
 16                    <div class="clients-item__img" style="background-image: url(' . get_the_post_thumbnail($post->ID) . ')';
 17                    </div>
 18
 19                    <div class="clients-item__text">
 20                        <p>' . get_the_content($post->ID) . '</p>
 21                    </div>
 22
 23                </div>
 24            </div>';
 25
 26        endwhile;
 27    endif;
 28
 29    wp_reset_postdata();
 30
 31    include('footer.php');
 32
 33    exit();
 34
 35    <?>
 36


```



Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)



Home About Services Contact User



Welcome To BeetCom a Real Estate Agency

Established in 2022, We are here to help you to get the life you deserve.
It's not a property, or a better home you look for, but for better future.

We have successfully delivered on schedule several **BeetCom** resorts in Ain Sokhna, the North Coast, EL PATIO residential compounds in EL Shorouk City and New Cairo, as well as in 6th of October City and Sheikh Zayed.

Our Mission

To develop and manage Real estate brokerage

Our Vission

Our vision is mainly to be a key player in

Our Value

To help people find houses for rent or to buy and



Home About Services Contact User

Our Mission

To develop and manage Real estate brokerage firm that provide the best experiences possible and yield sustainable profits for our clients, (buyer and supplier).

Our Vission

Our vision is mainly to be a key player in Egyptian real estate market not only this ,we want to go beyond our country and to expand worldwide and also Restricting overprice issue of resale unit

Our Value

To help people find houses for rent or to buy and charge the broker/builder also to simplify the search for a home, to search for housing based on a range of criteria, housing adds value to the property owners/developers/agents by driving traffic towards their listings and cloud-based sales lifecycle management platform for owners/developers/agents



The screenshot shows the Beetcom website's 'Clients' Review' section. The header features the Beetcom logo, navigation links for Home, About, Services, Contact, and a user icon. Below the header, the title 'Clients' Review' is displayed in large blue text. Three testimonial cards are shown, each with a quote, the name of the reviewer, and their occupation. The first card is for Michael Nasser, a Web Developer, who says: 'One of the best real estate web-site that satisfied my needs'. The second card is for Mario Magdi, a System Analyst, who says: 'Very good customer service and excellent after-purchase services. I did not expect to find workers to finish my apartment, but Beetcom they saved me all this at the lowest costs'. The third card is for Marina Robile, a Business Analyst, who says: 'I was confused about the prices due to the great disparity in the prices that exist in the market while I found in Beetcom the best price and the best place. It is very difficult to have both but Beetcom achieve this'. At the bottom, there is a horizontal ellipsis with five dots, where the third dot is blue.

5.2.3 Services

```
index.php  footer.php  services.php  nav.php
beetcom > services.php > section>services-section> div.container > div.row.d-flex > div.col-md-3.d-flex.align-self-stretch.ftco-animate > div.media.block-6.services.d-block.text-center
27 </div>
28 </div>
29 </div>
30 </div>
31 </div>
32 </div>
33 <section class="ftco-section" id="services-sec">
34 <div class="container">
35 <div class="row justify-content-center">
36 <div class="col-md-12 heading-section text-center ftco-animate mb-5">
37 <h2 class="mb-2">Choose Our Services</h2>
38 </div>
39 </div>
40 <div class="row d-flex">
41 <div class="col-md-3 d-flex align-self-stretch ftco-animate">
42 <div class="media block-6 services d-block text-center">
43 <div class="icon d-flex justify-content-center align-items-center"><span class="">$</span></div>
44 <div class="media-body py-md-4">
45 <h3>No Downpayment</h3>
46 <p>A small river named Duden flows by their place and supplies it with the necessary regelialia.</p>
47 </div>
48 </div>
49 </div>
50 <div class="col-md-3 d-flex align-self-stretch ftco-animate">
51 <div class="media block-6 services d-block text-center">
52 <div class="icon d-flex justify-content-center align-items-center"><span class="flaticon-wallet"></span></div>
53 <div class="media-body py-md-4">
54 <h3>All Cash Offer</h3>
55 <p>A small river named Duden flows by their place and supplies it with the necessary regelialia.</p>
56 </div>
57 </div>
58 </div>
59 <div class="col-md-3 d-flex align-self-stretch ftco-animate">
60 <div class="media block-6 services d-block text-center">
61 <div class="icon d-flex justify-content-center align-items-center"><span class="flaticon-file"></span></div>
62 <div class="media-body py-md-4">
63 <h3>Experts in Your Corner</h3>
64 <p>A small river named Duden flows by their place and supplies it with the necessary regelialia.</p>
65 </div>
66 </div>
67 </div>
68 <div class="col-md-3 d-flex align-self-stretch ftco-animate">
69 <div class="media block-6 services d-block text-center">
70 <div class="icon d-flex justify-content-center align-items-center"><span class="flaticon-locked"></span></div>
71 <div class="media-body py-md-4">
72 <h3>Locked in Pricing</h3>
73 <p>A small river named Duden flows by their place and supplies it with the necessary regelialia.</p>
74 </div>
75 </div>
76 </div>
77 </div>
78 </div>
79 </div>
80 </div>
81 </div>
82 </div>
```



Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)



Home About Services Contact

Services

[HOME](#) > [SERVICES](#) >

Choose Our Services



No Downpayment

No pays in the early stages of purchasing an expensive good or service.



All Cash Offer

We are working hard to save your money. So we offer you the best place at the suitable price for you.



Experts in Your Corner

Experience is our name. We have stuffed experts to help you to own your dreamed place.



Lokced in Pricing

We will use if you ask us and we agree to establish ("Lock-In").



5.2.4 Contact Us

The page features a large background image of a person's profile with glowing contact icons (phone, email, envelope, and '@ symbol') overlaid. At the bottom, the text "Contact Us" is centered, along with a "HOME > CONTACT >" breadcrumb.

This screenshot shows the contact information section. It includes three circular icons with icons for address, phone, and email. Below each icon is the corresponding information: Address (198 Abo ElFada Street, Zamalik, Cairo), Phone (+20 128 829 3741), and Email (beetcom@gmail.com). At the bottom, there is a form with fields for "Your Name", "Your Email", and "Subject".



5.2.5 Log In

The screenshot shows a code editor with the file `login.php` selected in the left sidebar. The code is a PHP script for handling user login. It includes logic to check if the email exists in the database, verify the password, and set session variables for the user's information if successful. It also handles cases where the password is incorrect or the user does not exist.

```
<?php
// Email is Exist
if($ifExist > 0){
    $data = $users->findbyemail($email);
    $SEmail = $data['email'];
    $HashedPass = $data['password'];
    $Fname = $data['Fname'];
    $Sname = $data['Sname'];
    $UserRole = $data['userRole'];
    $UserImg = $data['user_img'];
    $Id = $data['id'];

    //Check password is MATCHED
    if( password_verify( $pass , $HashedPass)){
        echo '<div class="alert alert-success" role="alert"><h1>Welcome ' . $Fname . ' :</h1></div>';

        $_SESSION['id'] = $id;
        $_SESSION['email'] = $Email;
        $_SESSION['Fname'] = $Fname;
        $_SESSION['Sname'] = $Sname;
        $_SESSION['userRole'] = $UserRole;
        $_SESSION['user_img'] = $UserImg;

        header('refresh:1;url=../../index.php');
    }else{
        echo '<div class="alert alert-danger" role="alert"><h1>Wrong Password .....Please Try again</h1></div>';
        header('refresh:4;url=../../index.php');
    }
}
else{
    echo '<br><div class="alert alert-danger" role="alert"><h1>We are sorry..... BUT(' . $email . ') Doesn\'t EXIST :( </h1></div>';
    header('refresh:4;url=../../index.php');
}
?>
```

The screenshot shows a web browser displaying a login page for a website named `Beetcom`. The page has a dark background with yellow highlights. It features a central modal window titled "Log In". The modal contains fields for "Email" and "Password", both represented by input boxes. Below the password field is a link "Create Account?". At the bottom of the modal are two buttons: "Close" and "Log In". Above the modal, there is a navigation bar with links for "About", "Services", "Contact", and "Log In". To the right of the modal, there is a large, semi-transparent graphic of a telephone handset and an '@' symbol.



The screenshot shows a website interface for a real estate platform. At the top, there's a navigation bar with links for Home, About, Services, and Contact. A user profile icon is on the right, which, when clicked, reveals a dropdown menu for 'Raphael'. The menu includes options for My Account, My Favourite, and LogOut. The main content area displays two images of buildings.

5.2.5 Registration

The screenshot shows a code editor with the file 'reg.php' open. The code is a PHP script for a registration form. It includes HTML and CSS-like classes for layout and validation rules for input fields. The code is organized into several sections for different form fields like personal information, address, and date of birth.

```
index.php footer.php reg.php nav.php  
beetcom > reg.php  
-----  
5 <div class="container">  
6   <form method="post" action="includes/functions/insert.php" enctype="multipart/form-data">  
7     <h3>Personal Information</h3>  
8  
9       <!-- Personal Information & Just Buyer -->  
10      <div class="row">  
11        <div class="col-2 "><label>Upload Image</label></div>  
12        <div class="col-6">  
13          <input class="form-control" type="file" name="img" accept="image/png, image/jpeg">  
14        </div>  
15      </div>  
16    <br>  
17    <div class="row">  
18      <div class="col-2 "><label>First Name</label></div>  
19      <div class="col-6"> <input required class="form-control" type="text" name="Fname"> </div>  
20    </div>  
21    <br>  
22    <div class="row">  
23      <div class="col-2 "><label>Second Name</label></div>  
24      <div class="col-6"> <input required class="form-control" type="text" name="Sname"> </div>  
25    </div>  
26    <br>  
27  </div>  
28  <br>  
29  <div class="row">  
30    <div class="col-2 "><label>Address</label></div>  
31    <div class="col-6"> <input required class="form-control" type="text" name="adress"> </div>  
32    <br>  
33  </div>  
34  <br>  
35  <div class="row">  
36    <div class="col-2 "><label>Postal Code</label></div>  
37    <div class="col-6"> <input class="form-control" type="text" maxlength="5" name="zip"> </div>  
38    <br>  
39  </div>  
40  <br>  
41  <div class="row">  
42    <div class="col-2 "><label>Date Of Birth</label></div>  
43    <div class="col-6"> <input required class="form-control" type="date" name="dob"> </div>  
44    <br>  
45  </div>  
46  <br>  
47  <div class="row">  
48    <div class="col-2 "><label>Email</label></div>  
49    <div class="col-6"> <input required class="form-control" type="email" name="email"> </div>  
50    <br>  
51  </div>  
52  <br>  
53  <div class="row">  
54    <div class="col-2 "><label>Phone Number</label></div>  
55    <div class="col-6"> <input required class="form-control" type="text" maxlength="11" name="phone"> </div>  
56    <br>  
57  </div>
```



Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)



Home About Services Contact Log In

Personal Information

Upload Image

No file chosen

First Name

Second Name

Address

Postal Code

Date Of Birth

 mm/dd/yyyy

Email

Phone Number

Second Name

 Mina

Address

 5st salam

Postal Code

 11311

Date Of Birth

 05/07/2012

Email

 raphael303

Phone Number

 01288222558

National ID

 30004201904444

password

Confirm Password

SUBMIT



5.2.6 My Account

5.2.1 Personal Information

```
 19 <div class="layout-wrapper layout-content-navbar">
20   <div class="layout-container">
21     <!-- Menu -->
22
23     <aside id="layout-menu" class="layout-menu menu-vertical menu bg-menu-theme">
24       <div class="app-brand demo">
25         <a href="index.php" class="app-brand-link">
26           <span class="app-brand-logo demo">
27             <img alt="Logo" data-bbox="111 118 188 138" />
28           </span>
29         </a>
30       </div>
31       <div class="menu-inner">
32         <ul class="menu-item">
33           <li class="menu-item">
34             <a href="#" class="menu-link">
35               <span>Dashboard</span>
36             </a>
37           </li>
38           <li class="menu-item">
39             <a href="#" class="menu-link">
40               <span>Components</span>
41             </a>
42           </li>
43           <li class="menu-item">
44             <a href="#" class="menu-link">
45               <span>Tables</span>
46             </a>
47           </li>
48           <li class="menu-item">
49             <a href="#" class="menu-link">
50               <span>Charts</span>
51             </a>
52           </li>
53           <li class="menu-item">
54             <a href="#" class="menu-link">
55               <span>Icons</span>
56             </a>
57           </li>
58           <li class="menu-item">
59             <a href="#" class="menu-link">
60               <span>Forms</span>
61             </a>
62           </li>
63         </ul>
64       </div>
65     </aside>
66
67     <div class="main-content">
68       <div class="main-content-inner">
69         <div class="page-header">
70           <div class="page-title">
71             <h1>Dashboard</h1>
72             <small>Welcome to your dashboard</small>
73           </div>
74           <div class="page-breadcrumb">
75             <ul class="list-item">
76               <li><a href="#">Home</a></li>
77               <li><a href="#">Components</a></li>
78               <li><a href="#">Icons</a></li>
79             </ul>
80           </div>
81         </div>
82
83         <div class="row">
84           <div class="col-12 col-md-6 col-lg-3">
85             <div class="card card-bordered">
86               <div class="card-body">
87                 <div class="text-center">
88                   <img alt="Icon" data-bbox="111 118 188 138" />
89                   <h3>100</h3>
90                   <small>Visitors</small>
91                 </div>
92               </div>
93             </div>
94           </div>
95           <div class="col-12 col-md-6 col-lg-3">
96             <div class="card card-bordered">
97               <div class="card-body">
98                 <div class="text-center">
99                   <img alt="Icon" data-bbox="111 118 188 138" />
100                  <h3>200</h3>
101                  <small>Sales</small>
102                </div>
103              </div>
104            </div>
105          </div>
106          <div class="col-12 col-md-6 col-lg-3">
107            <div class="card card-bordered">
108              <div class="card-body">
109                <div class="text-center">
110                  <img alt="Icon" data-bbox="111 118 188 138" />
111                  <h3>300</h3>
112                  <small>Tasks</small>
113                </div>
114              </div>
115            </div>
116          </div>
117        </div>
118      </div>
119    </div>
120  </div>
```


[Home](#) [About](#) [Services](#) [Contact](#)



[My Account](#)

- My Information**
- My Properties
- Add Properties
- My Favourite
- Ads
- Side Banner Ads
- Payment

Personal Information


Upload new photo

Allowed JPG, GIF or PNG. Max size of 800K.

<small>First Name</small> Michael
<small>Last Name</small> Nasser
<small>Address</small> Taher street-El-sahel Cairo
<small>Phone</small> 01286306548
<small>ZIP Code</small> 55555
<small>Date of Birth</small> 05/29/1999

Save Changes



5.2.2 My Properties

```
index.php footer.php reg.php my_prop.php nav.php
bstcom > my_prop.php > ...
173
174
175     for($i=0; $i < count($prop_data); $i++){
176
177
178         <div class="col-lg-6">
179             <div class="card">
180                 <div class="card-body">
181                     <div class="property-entry h-100 mb-3">
182
183                         <div class="p-4 property-body">
184
185                             <h2 class="property-title"><a class="address" href="prop_details.php?id=<php echo $prop_data[$i]['id'] ?><?php echo $prop_data[$i]['title'] ?>"></a><h2>
186                             <span class="property-location d-block mb-3"><span class="property-icon icon-room"></span> <?php echo $prop_data[$i]['location'] ?></span>
187                             <strong class="property-price text-primary mb-3 d-block text-success"><?php echo number_format($prop_data[$i]['price']) ?></strong>
188                             <ul class="property-specs-wrap mb-3 mb-0">
189
190                                 <li>
191                                     <span class="property-specs prop-ap">Bed<span>
192                                     <span class="property-specs-number"><?php echo $prop_data[$i]['bedrooms'] ?></span>
193
194                                 </li>
195
196                                 <li>
197                                     <span class="property-specs prop-sp">Baths<span>
198                                     <span class="property-specs-number"><?php echo $prop_data[$i]['bathrooms'] ?></span>
199
200                                 </li>
201
202                                 <li>
203                                     <span class="property-specs prop-sp">Meter<span>
204                                     <span class="property-specs-number"><?php echo $prop_data[$i]['area'] ?></span>
205
206                                 </li>
207
208                             </ul>
209
210                         <label>Upload Your Property Images</label>
211                         <-----ADD Property Images ----->
212                         <form action="includes/functions/insert_prop_imgs.php" method="post" enctype="multipart/form-data">
213                             <div class="form-group mt-3 d-flex justify-content-center">
214                                 <input type="file" class="form-control" id="formfileMultiple" name="images[] " multiple required>
215                                 <input type="hidden" name="prop_id" value="<php echo $prop_data[$i]['id'] ?>">
216                                 <input type="submit" name="submit" class="btn btn-primary" value="Upload Images">
217
218                             </div>
219                         </form>
220                         <br>
221
222                         <form method="post" action="includes/functions/delete_prop.php">
223                             <input type="hidden" name="prop_id" value="<php echo $prop_data[$i]['id'] ?>">
224                             <input type="submit" name="del" class="btn btn-danger" value="DELETE">
225                         </form>
226
227                         </div>
228                         </div>
229                         </div>
230
231                     </div>
232
233                 </div>
234
235             </div>
236
237         </div>
```



Home About Services Contact





5.2.3 Add Property

```
index.php footer.php reg.php add-prop.php nav.php
190 </div>
191 </div>
192 </div>
193 </div>
194 </div>
195 <div class="d-flex justify-content-center">
196 <div class="col-lg-4">
197 <form action="includes/functions/insert_prop.php" method="post" enctype="multipart/form-data">
198 <div class="form-group mt-3 d-flex justify-content-center" style="margin-bottom: 22px;">
199 <select id="defaultSelect" class="form-select" name="prop_type" required>
200 <option value="0">Property Type</option>
201 <option value="Villa">Villa</option>
202 <option value="Penthouse">Penthouse</option>
203 <option value="Apartment">Apartment</option>
204 <option value="Townhouse">Townhouse</option>
205 <option value="Chalet">Chalet</option>
206 <option value="iVilla">iVilla</option>
207 <option value="Duplex">Duplex</option>
208 <option value="WIn House">WIn House</option>
209 <option value="Hotel Apartment">Hotel Apartment</option>
210 </select>
211 </div>
212 <div class="mb-3">
213 <textarea class="form-control" id="message-text" placeholder="Property Title" name="title" required></textarea>
214 </div>
215 <div class="form-group mt-3 d-flex justify-content-center">
216 <select id="defaultSelect" class="form-select" name="delivery_type" required>
217 <option value="0">For Sale</option>
218 <option value="1">For Rent</option>
219 </select>
220 </div>
221 <div class="form-group mt-3">
222 <input type="text" id="address" class="form-control" placeholder="Address" name="address" required>
223 </div>
224 <div class="form-group mt-3">
225 <input type="number" id="bed" class="form-control" placeholder="Bedrooms Number" name="bedroom" required>
226 </div>
227 <div class="form-group mt-3">
228 <input type="number" id="path" class="form-control" placeholder="Bathrooms Number" name="bathroom" required>
229 </div>
230 <div class="form-group mt-3">
231 <input type="number" id="living" class="form-control" placeholder="Livingrooms Number" name="livingroom" required>
232 </div>
233 <div class="form-group mt-3">
234 <input type="number" id="kitchen" class="form-control" placeholder="Kitchens Number" name="kitchen" required>
235 </div>
236 <div class="form-group mt-3">
237 <input type="number" id="area" class="form-control" placeholder="Area(meter sequer)" name="area" required>
238 </div>
239 <div class="form-group mt-3">
240 <input type="text" id="price" class="form-control" placeholder="Average Price" name="price" required>
241 </div>
242 <div class="mb-3">
243 <label for="message-text" class="col-form-label">Description
```

The screenshot shows a web-based property listing application. At the top left is the logo for 'beetcom'. The navigation bar includes links for Home, About, Services, and Contact. A sidebar on the left lists account-related options: My Account, My Information, My Properties, Add Properties (which is currently selected), My Favourites, Ads, and Payment.

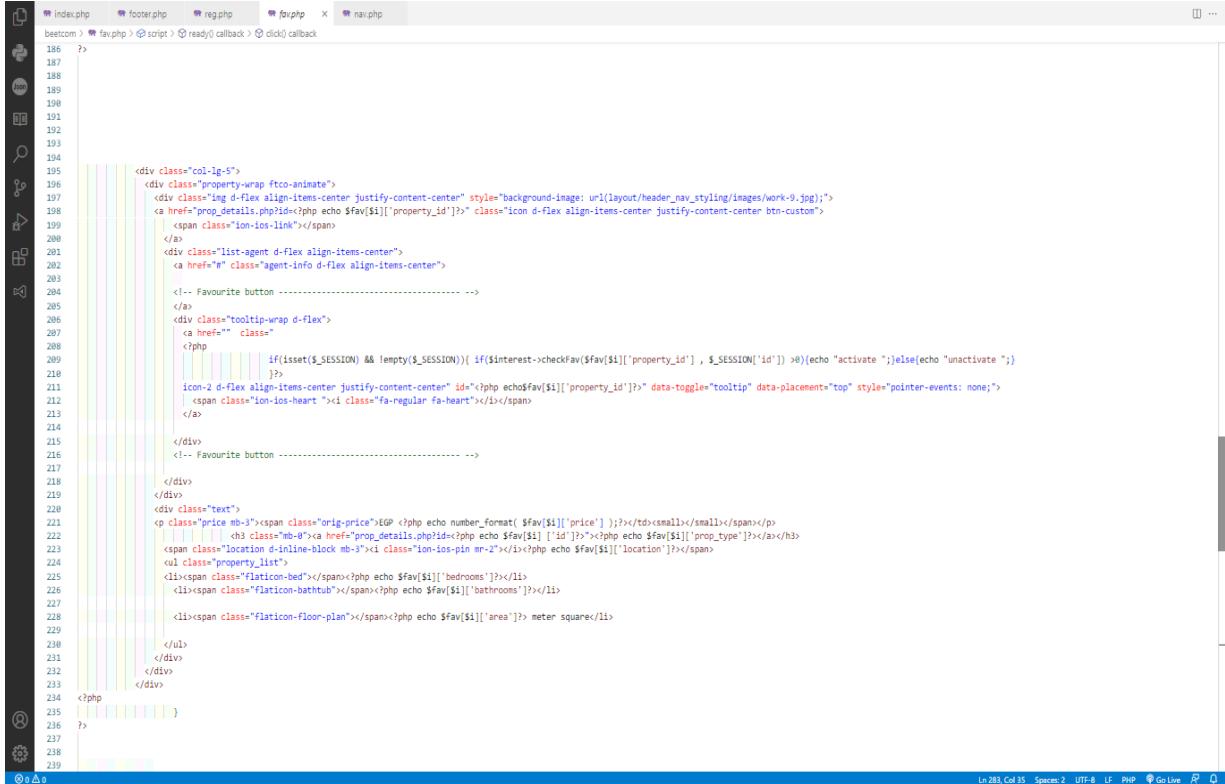
The main content area features a three-step process:

- Sell Your Property**: This section contains a large input field labeled "List your property details" with the placeholder "Add all the information related to your property". Below it is a "Property Type" dropdown menu set to "For Sale". Other input fields include "Address", "Bedrooms Number", "Bathrooms Number", "Livingrooms Number", "Kitchens Number", "Ametre sequer", "Average Price", and a large "DESCRIPTION" text area.
- One of our agents will call you**: A message box stating "We will help you find the best buyer".
- Meet with serious buyers**: A message box stating "Final step to sell your property".

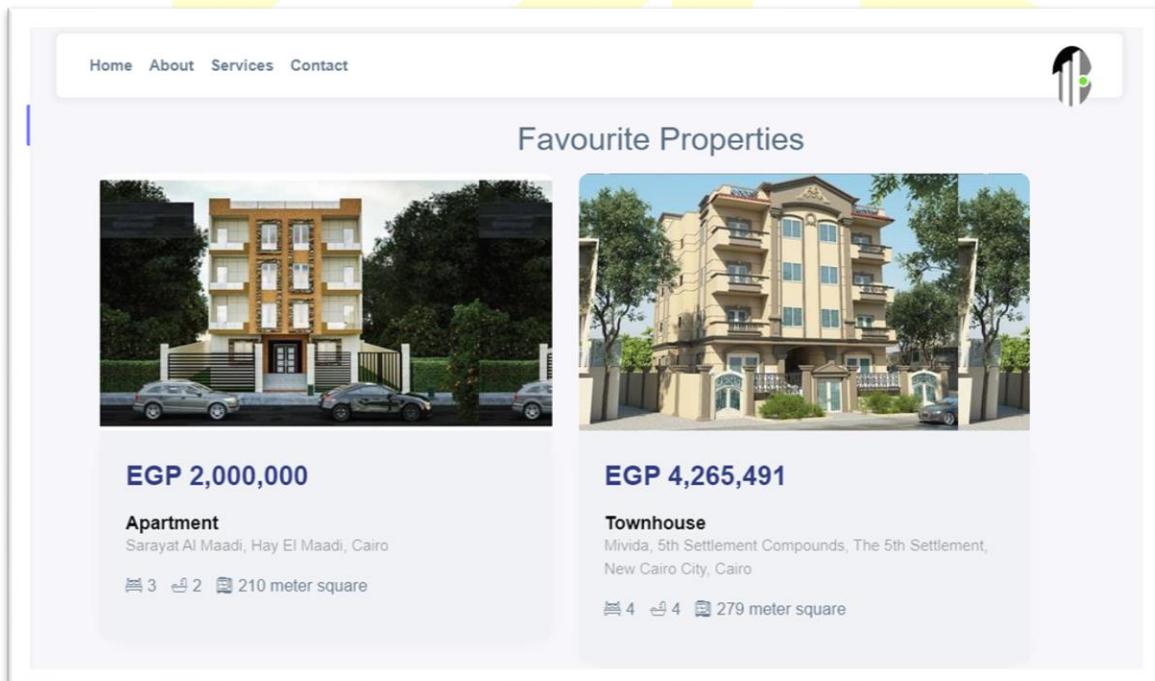
At the bottom right of the form is a blue "Add Property" button.



5.2.4 Favorite Properties



```
index.php footer.php reg.php fav.php nav.php
beetcom > fav.php > script > ready() callback > click() callback
186 >
187
188
189
190
191
192
193
194
195     <div class="col-lg-5">
196         <div class="property-wrap ftc-animate">
197             <div class="img d-flex align-items-center justify-content-center" style="background-image: url(layout/header_nav_styling/images/work-9.jpg);">
198                 <a href="prop_details.php?id=<?php echo $fav[$i]['property_id']?>>" class="icon-d-flex align-items-center justify-content-center btn-custom">
199                     <span class="ion-ion-link"></span>
200                 </a>
201             <div class="list-agent d-flex align-items-center">
202                 <a href="#" class="agent-info d-flex align-items-center">
203                     <!-- Favourite button ----->
204                     </div>
205                     <div class="tooltip-wrap d-flex">
206                         <a href="#" class="">
207                             <?php
208                                 if(isset($_SESSION) && !empty($_SESSION)){ if($interest->checkFav($fav[$i]['property_id'] , $_SESSION['id']) >0){echo "activate ";}else{echo "unactivate ";}
209                                 ?>
210                                 icon-2 d-flex align-items-center justify-content-center" id="<?php echo $fav[$i]['property_id']?>>" data-toggle="tooltip" data-placement="top" style="pointer-events: none;">
211                                     <span class="ion-ios-heart"><i class="fa-regular fa-heart"></i></span>
212                                 </a>
213
214                     </div>
215                     <!-- Favourite button ----->
216                 </div>
217             </div>
218         </div>
219         <div class="text">
220             <p class="price mb-3"><span class="orig-price">EGP <?php echo number_format( $fav[$i]['price'] )?></td><small></small></span></p>
221             <h3 class="mb-0"><a href="prop_details.php?id=<?php echo $fav[$i]['id']?>>"><?php echo $fav[$i]['prop_type']?></a></h3>
222             <span class="location d-inline-block mb-3"><i class="ion-ion-pin mr-2"></i><?php echo $fav[$i]['location']?></span>
223             <ul class="property_list">
224                 <li><span class="flaticon-bed"></span><?php echo $fav[$i]['bedrooms']?></li>
225                 <li><span class="flaticon-bathhtub"></span><?php echo $fav[$i]['bathrooms']?></li>
226
227                 <li><span class="flaticon-floor-plan"></span><?php echo $fav[$i]['area']?> meter square</li>
228             </ul>
229         </div>
230     </div>
231     </div>
232 </div>
233 </div>
234 </?php
235 ?>
236
237
238
239
```



Home About Services Contact

Favourite Properties



EGP 2,000,000

Apartment
Sarayat Al Maadi, Hay El Maadi, Cairo

3 2 210 meter square



EGP 4,265,491

Townhouse
Mivida, 5th Settlement Compounds, The 5th Settlement,
New Cairo City, Cairo

4 2 279 meter square



The screenshot shows two apartment listings on the Beetcom website:

- Left Listing:** Apartment for sale at EGP 3,150,000. It is located in Azad, 5th Settlement Compounds, The 5th Settlement, New Cairo City, Cairo. It has 3 bedrooms, 3 bathrooms, and 182 square meters.
- Right Listing:** Apartment for sale at EGP 3,450,000. It is located in Mivida, 5th Settlement Compounds, The 5th Settlement, New Cairo City, Cairo. It has 2 bedrooms, 2 bathrooms, and 136 square meters.

A blue circle highlights the "Add to favorite" button for the second listing.

5.2.5 Paid Properties

The screenshot shows the Beetcom website's paid advertising options:

- Left Column (My Account menu):**
 - My Information
 - My Properties
 - Add Properties
 - My Favourite
 - Ads** (selected)
 - Side Banner Ads
 - Payment
- Gold Plan:** Cost: 500 EGP, Commission: 5%, Duration: 1 Month, Quantity of Ads: Unlimited, Order: Top 20 Properties.
- Platinum Plan:** Cost: 1000 EGP, Commission: 2.5%, Duration: 1 Month, Quantity of Ads: Unlimited, Order: Top 10 Properties.



5.2.6 Side Ads

- Your Information
- My Properties
- Add Properties
- My Favourite
- Ads
- Side Banner Ads**
- Payment

Side Ads Information

USER NAME Michael Nasser
COMPANY NAME Lays
SELECTED PACKAGE Silver Package Info:
• Duration: 1 Month
• Package Cost: 2,500\$
YOUR CREDIT: 27,500\$
STATUS Active
START DATE 0000-00-00
END DATE 0000-00-00



Location

Property Type

Property Status

Price

City/Locality Name



Property Type



Type



Price



Join Us and Create a Side Ads...



Inserting Side Banner

The screenshot shows a web form titled "Side Ads Banner". It includes fields for "Company Name", "Package type", "Redirect URL", and a file upload field for "Upload Side banner with(2:3 img ratio)". A blue button at the bottom right says "Request Adding Ads".

5.2.7 Payment

The screenshot shows a sidebar menu with "My Account" selected, listing "My Information", "My Properties", "Add Properties", "My Favourite", "Ads", "Side Banner Ads", and "Payment". The main content area displays three payment method cards: "Fawry" (yellow background), "vodafone cash" (red background), and "أمان وإنجاز" (blue background). Below the cards are input fields for "Reference Number" (90-021-321), "Amount Transferred", and a "UPLOAD THE BILL PHOTO" section with a file upload field.



5.2.8 Property Details



The image shows a screenshot of the 'More Info' page for the same property listing. The page includes a brief description of the apartment and its location, along with contact information for the agent.

More Info

Apartment 185m in Midtown for sale New Cairo

Apartment 185m in Midtown for sale New Cairo- Project: Midtown- For Sale - 3 Bedrooms / 3 Bathrooms - Semi-Finished - BUA: 185 m- Price: 2,200,000 cashServices of Midtown 5th Settlement- A huge shopping mall- Plenty of restaurants and cafes in the area.- Spaces have been designated for parking for residents.- Many swimming pool Artificial lakes- Security and guard throughout the dayAbout The Firm Property consultancyFind your property with The Firm Property consultancy the specialized real estate agency in Egypt . We offer a wide variety of professional real estate and contracting services. Now you can buy, rent, sell, invest and renovate your property with a trusted team of expert consultants serving you around the clock to guarantee a fast smart and reliable service even after the sale is done.

Location : Midtown, South Investors Area, New Cairo City, Cairo

Contact Agent

Name
Email



EGP 3,150,000

Apartment

📍 Azad, 5th Settlement Compounds, The 5th Settlement, New Cairo City, Cairo

🛏️ 3 • 🚧 3 • 📦 182 meter square

EGP 3,450,000

Apartment

📍 Mividia, 5th Settlement Compounds, The 5th Settlement, New Cairo City, Cairo

🛏️ 2 • 🚧 2 • 📦 136 meter square

5.3 Database Schema

1 interests									
Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME	
<code>id</code>	<code>int(11)</code>		No		<code>auto_increment</code>				
<code>property_id</code>	<code>int(11)</code>		No			-> properties.id ON UPDATE CASCADE ON DELETE CASCADE			
<code>interester_id</code>	<code>int(11)</code>		No			-> users.id ON UPDATE CASCADE ON DELETE CASCADE			

2 payments									
Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME	
<code>id</code>	<code>int(11)</code>		No		<code>auto_increment</code>				
<code>user_id</code>	<code>int(11)</code>		No			-> users.id ON UPDATE RESTRICT ON DELETE RESTRICT			
<code>date</code>	<code>date</code>		No	<code>current_timestamp()</code>					
<code>bill img</code>	<code>varchar(11)</code>		No						
<code>approve</code>	<code>int(11)</code>		No	0					
<code>amount</code>	<code>int(11)</code>		No	0					



Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)



3 properties

Creation: Jul 01, 2022 at 08:11 AM
 Last update: Jul 01, 2022 at 12:22 PM

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
<code>id</code>	<code>int(11)</code>		No		<code>auto_increment</code>			
<code>owner_id</code>	<code>int(11)</code>		Yes	<code>NULL</code>		<code>-> users.id</code> ON UPDATE CASCADE ON DELETE CASCADE		
<code>title</code>	<code>varchar(50)</code>		Yes	<code>NULL</code>				
<code>prop_type</code>	<code>varchar(15)</code>		Yes	<code>NULL</code>				
<code>bedrooms</code>	<code>varchar(6)</code>		Yes	<code>NULL</code>				
<code>bathrooms</code>	<code>int(11)</code>		Yes	<code>NULL</code>				
<code>kitchen</code>	<code>int(11)</code>		Yes	<code>NULL</code>				
<code>livingrooms</code>	<code>int(11)</code>		Yes	<code>NULL</code>				
<code>area</code>	<code>varchar(7)</code>		Yes	<code>NULL</code>				
<code>price</code>	<code>double</code>		Yes	<code>NULL</code>				
<code>location</code>	<code>varchar(93)</code>		Yes	<code>NULL</code>				
<code>description</code>	<code>varchar(1980)</code>		Yes	<code>NULL</code>				
<code>approved</code>	<code>int(11)</code>		Yes	0			<code>0 => Suspended</code> <code>1 => Approved</code> <code>2 => Denied</code>	
<code>delivery_type</code>	<code>varchar(4)</code>		Yes	<code>NULL</code>				
<code>views</code>	<code>int(255)</code>		No	0				
<code>interests</code>	<code>int(11)</code>		No	0				
<code>allowAds</code>	<code>int(11)</code>		No	0			<code>0 => Allow Ads</code> <code>1 => Dis-Allow Ads</code>	
<code>dateOfAddition</code>	<code>date</code>		No	<code>current_timestamp</code>				
<code>isPaid</code>	<code>int(2)</code>		No	0			<code>0 => free prop</code> <code>1 => paid from Silver pkg</code> <code>2 => paid from Gold pkg</code>	

4 prop_imgs

Creation: Jun 27, 2022 at 07:45 AM
 Last update: Jul 01, 2022 at 01:42 PM

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
<code>id</code>	<code>int(11)</code>		No		<code>auto_increment</code>			
<code>property_image</code>	<code>varchar(200)</code>		No					
<code>property_id</code>	<code>int(11)</code>		No			<code>-> properties.id</code> ON UPDATE CASCADE ON DELETE CASCADE		

5 side_ads

Creation: Jun 27, 2022 at 05:34 AM
 Last update: Jun 30, 2022 at 10:22 AM

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
<code>id</code>	<code>int(255)</code>		No		<code>auto_increment</code>			
<code>user_id</code>	<code>int(255)</code>		No			<code>-> users.id</code> ON UPDATE CASCADE ON DELETE CASCADE		
<code>coName</code>	<code>varchar(255)</code>		No					
<code>package</code>	<code>int(4)</code>		No				<code>1 => Silver</code> <code>2 => Gold</code> <code>3 => Platinum</code>	
<code>duration</code>	<code>int(255)</code>		No				<code>number of weeks</code>	
<code>start_date</code>	<code>date</code>		No					
<code>end_date</code>	<code>date</code>		No					
<code>url</code>	<code>varchar(255)</code>		No					
<code>approved</code>	<code>int(25)</code>		No	0			<code>0 => Suspended</code> <code>1 => Approved</code> <code>2 => Denied</code>	
<code>isPaid</code>	<code>int(11)</code>		No	0			<code>0 => not paid yet</code> <code>1 => Paid</code>	
<code>status</code>	<code>int(11)</code>		No	0			<code>0 => Reviewed</code> <code>1 => Active</code> <code>2 => rejected</code> <code>3 => Completed</code>	
<code>ads_img</code>	<code>varchar(255)</code>		No					



6 users

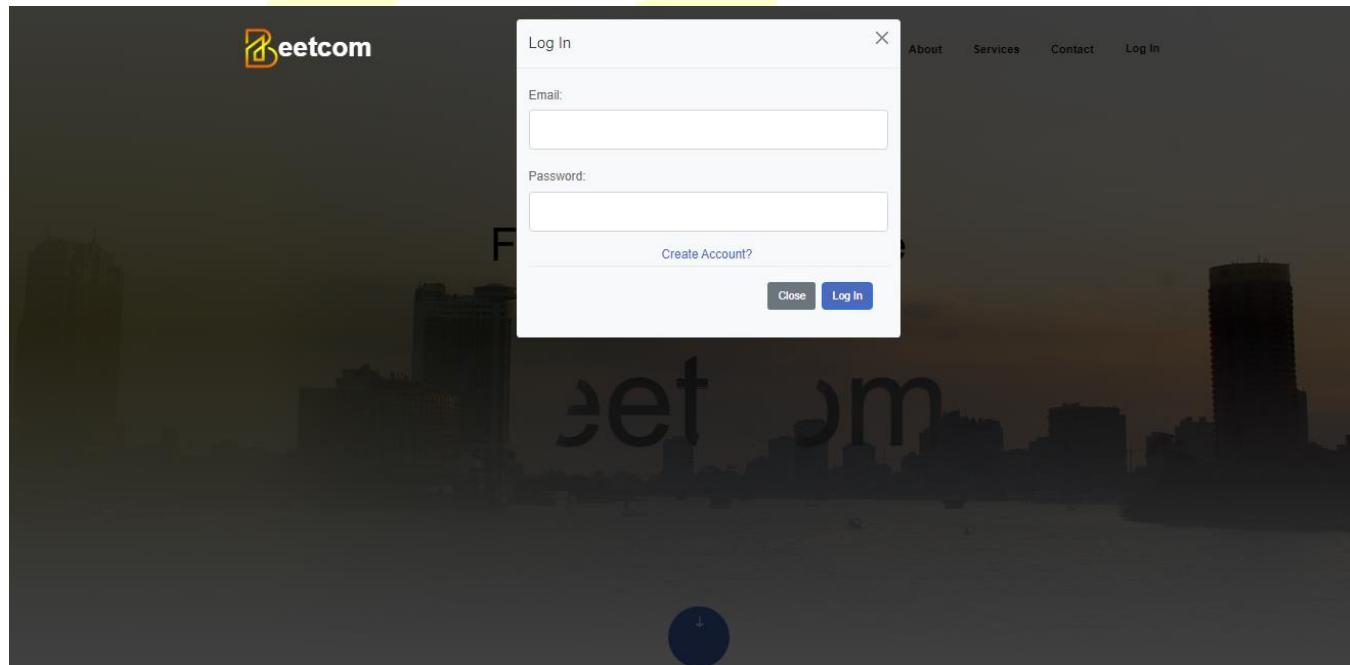
Creation: Jul 01, 2022 at 08:41 AM
Last update: Jul 01, 2022 at 11:47 AM

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(10)		No		auto_increment			
Fname	text		No					
Sname	text		No					
address	text		No					
zip	int(10)		Yes	NULL				
dob	date		No					
email	varchar(255)		No					
password	varchar(255)		No					
ssn	varchar(255)		Yes	NULL				
phone	varchar(11)		No					
credit	int(255)		No	0				
userRole	int(11)		No	0			0 => for normal users & 1 => for Admins	
regDate	date		No	current_timestamp			Date of Account Registration	
user_img	varchar(255)		No					
accountType	tinyint(255)		No	0			0 => normal user account 1 => Gold package User 2 => Platinum package User	
paid_acc_end_date	date		No					
activated	int(255)		No	0			0 for activated account	

Chapter Six: System Testing

6.1 Aim of chapter

6.1.1 Login validation



Correct Email and Password



Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)



Welcome Michael :)

Correct and Wrong Password

Wrong PasswordPlease Try again

Email doesn't exist



We are sorry..... BUT(user1@gmail.com) Doesn't EXIST :(

Establishing secure connection...

6.1.2 Sign up validation

6.1.2.1 Register with existing email

This email is already Exist

6.1.2.2 Invalid Email format



Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)



Personal Information

Upload Image	<input type="file"/> Choose File No file chosen
First Name	First
Second Name	Second
Address	addressaddress
Postal Code	miklm
Date Of Birth	06/11/1997
Email	new1
Phone Number	01200000000 ! Please include an '@' in the email address. 'new1' is missing an '@'.
National ID	2990000000000
password
Confirm Password

6.1.2.3 Password Doesn't Match

Password Doesn't Match



6.1.3 Main functions validation

The image displays two screenshots of the eetcom website, illustrating its main functions for property management.

Screenshot 1: Properties Page

This screenshot shows a property listing for a Platinium account valid until August 1, 2022. The listing includes:

- Property Title:** 2,500,000
- Beds, Baths, Meter:** 3, 1, 210
- Upload Your Property Images:** Choose Files (No file chosen), Upload Images, Delete

Screenshot 2: Sell Your Property Page

This screenshot illustrates the three-step process for selling a property:

- List your property details:** Add all the information related to your property.
- One of our agents will call you:** We will help you find the best buyer.
- Meet with serious buyers:** Final step to sell your property.

Form fields shown include:

- Property Type
- Property Title
- For Sale
- Address
- Bedrooms Number
- Bathrooms Number



Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)



Your Property is Added successfully



- [My Account](#) ▾
- My Information
- **My Properties**
- Add Properties
- My Favourite
- Ads
- Side Banner Ads
- Payment

Home About Services Contact



Properties

Property Title

taher

2,500,000

BEDS BATHS METER

3 1 230

Upload Your Property Images

No file chosen

title

m

15,000,000

BEDS BATHS METER

5 2 250

Upload Your Property Images

No file chosen



Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)



eetcom

Home About Services Contact

My Account

- My Information
- My Properties
- Add Properties**
- My Favourite
- Ads
- Payment

Sell Your Property

1

List your property details
Add all the information related to your property

2

One of our agents will call you
We will help you find the best buyer

3

Meet with serious buyers
Final step to sell your property

Property Type
Property Title
For Sale
Address
Bedrooms Number
Bathrooms Number

Sorry but you exceed the Limit of adding properties.

You can [Delete](#) some of your Properties

OR

[Upgrade Your Account](#) and Choose one of our Packages According to your needs....



Helwan University

Faculty of Commerce & Business Administration

Business Information Systems (BIS)



- * My Information
- * My Properties
- * Add Properties
- * My Favourite
- Ads**
- * Payment

Gold

Cost: 500 EGP
Commission: 5%
Duration: 1 Month
Quantity of Ads : Unlimited
Order: Top 20 Properties

Note that : Your Credit in our Page must cover the the Package Cost

Are You Sure that You want such Package and it fits your needs?

[Send message](#)

Platinum

Cost: 1000 EGP
Commission: 2.5%
Duration: 1 Month
Quantity of Ads : Unlimited
Order: Top 10 Properties

Note that : Your Credit in our Page must cover the the Package Cost

Are You Sure that You want such Package and it fits your needs?

[Send message](#)

- * My Information
- * My Properties
- * Add Properties
- * My Favourite
- Ads**
- * Payment

Gold

Cost: 500 EGP
Commission: 5%
Duration: 1 Month
Quantity of Ads : Unlimited
Order: Top 20 Properties

Note that : Your Credit in our Page must cover the the Package Cost

Are You Sure that You want such Package and it fits your needs?

[Send message](#)

Platinum

Cost: 1000 EGP
Commission: 2.5%
Duration: 1 Month
Quantity of Ads : Unlimited
Order: Top 10 Properties

Note that : Your Credit in our Page must cover the the Package Cost

Are You Sure that You want such Package and it fits your needs?

[Send message](#) Please check this box if you want to proceed.



Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)



SorryBUT Your Credit doesn't cover tha package cost

The screenshot displays a web-based application interface, likely a plugin or extension for a platform like eetcom. The interface includes:

- Left Sidebar:** Labeled "BIS" and "Business Information Systems". It contains a navigation menu with links: My Account, My Information, My Properties, Add Properties, My Favourite, Ads, and Payment.
- Top Content Area:** A banner featuring logos for Fawry (yellow), Vodafone Cash (red), and Oaman (blue).
- Central Content Area:** A "Properties" section showing two property listings. Both listings include:
 - Property Title:** 2,500,000
 - BEDS BATHS METER:** 3 1 210
 - Upload Your Property Images:** Buttons for Choose Files, No file chosen, and Upload Images.
 - DELETE:** A red button.
- Bottom Left:** A vertical toolbar with icons for camera, video, and other functions.



Helwan University
Faculty of Commerce & Business Administration
Business Information Systems (BIS)



eetcom

Home About Services Contact

My Account

- My Information
- My Properties
- Add Properties**
- My Favourite
- Ads
- Payment

Sell Your Property

1

List your property details
Add all the information related to your property

2

One of our agents will call you
We will help you find the best buyer

3

Meet with serious buyers
Final step to sell your property

Property Type

Property Title

For Sale

Address

Bedrooms Number

Bathrooms Number

Your Property is Added successfully





Chapter seven **Conclusion and Future Work**

7.1 Project Conclusion

The goal of the project is to create a reputable website with a reliable service that helps all property finders to reach their passion, we aim to reach customer satisfaction in terms of providing minimum time with maximum effort and ensuring the quality of the process and they are satisfied, so we do our best to get competitive offers to be the first Comes to the minds of customers which increases our branding and get our customers loyalty.

7.2 Future Features

1. Expansion in the Middle East.
2. Two ways of authentication for forget Password.
3. Notify customers (Mailing) with recent recommended properties.
4. Rent and exchanging properties.
5. Mobile Application.

7.3 References

1. <http://www.investopedia.com/terms/l/limitedpartnership.asp#ixzz4mTS8mwHH>
2. <http://www.investopedia.com/terms/l/limitedpartnership.asp#ixzz4mTS8mwHH>
3. https://www.olx.com.eg/en/properties/?invite=CPCSEM_15208482943&gclid=Cj0KCQjwtvqVBhCVARIsAFUxcRtEBSUIVdnURZ-WW9sC5NmfcwThtd_68ntxSqKQxsFo0ki_RYuA8MAaAnEtEALw_wcB
4. WWW.W3schools.com
5. www.stackoverflow.com
6. www.zerewebschool.com
7. <http://www.guru99.com/system-testing.html>
8. <http://softwaretestingfundamentals.com/system-testing/>
9. <http://www.investopedia.com/terms/l/limitedpartnership.asp>
10. <http://php.net/manual/en/ref.mysql.php>