(APPENDIX 1 :Title Page)

(All the text in the report should be in times new roman)

D-Rooms

A Project Report

Submitted in partial fulfillment of the Requirements for the award of the Degree of

BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

By

Rahul Katpara
549

Under the esteemed guidance of

Mr.gangashankar singh

Designation

COLLEGE LOGO

DEPARTMENT OF INFORMATION TECHNOLOGY

COLLEGE NAME

(Affiliated to University of Mumbai)

MUMBAI, 400067

MAHARASHTRA

2020-21

PNR **No.: ……** Roll no**: 549**

1. Name of the Student:Rahul katpara
2. Title of the Project:Real estate
3. Name of the Guide:prof.Gangashankar singh
4. Teaching/Industry experience of the Guide:5+ years
5. Is this your first submission? Yes No

Signature of the Student: Signature of the Guide:

Date: …… Date: …….

Signature of the Coordinator:

Date: ……

Nagindas khandawala college

(Affiliated to University of Mumbai)

MUMBAI-MAHARASHTRA-400067

DEPARTMENT OF INFORMATION TECHNOLOGY

CERTIFICATE

This is to certify that the project titled, **"D-Rooms"**, is bonafied work of Rahul katpara bearing Seat.No: 549 submitted in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE in INFORMATION TECHNOLOGY from University of Mumbai.

Internal Guide **Coordinator**

External Examiner

Date: CollegeSeal

Abstract

Eproperty – is an Estate Agent and Property Management System is an easy to use contact and property administrator for land experts. It Saves time and pitch more by enabling to effectively monitor leads, oversee postings, and market to new prospects. eProperty created in Visual Basic 6, SQL Server and Crystal Report .

You can free download all the venture documentation, venture source code, venture executable records, database from download interface. Code are all around remarked for your reference, in any case in the event that you need any illumination you can reach me for encourage clarification. click here to see online demo of this application.

Need more activities, click here to get more than 500 remarkable scholarly undertaking thought in various programming dialects. Download this venture idea, unique, SRS, source code to finish extend for your school accommodation.Business visual essential application designer can utilize this task all in all or part of it as required.

Understudy who are presenting their last year venture for BE, BCA, BSC-IT, MCA, MS, MBA. this undertaking is very much remarked, instant task documentation accessible for accommodation.Who need to learn database programming in visual essential.

Who need to know how to create business application from venture prerequisite to execution and last documentation.Win API Programming in visual fundamental.

Understudy of Mumbai, Delhi, Calcutta, Chennai, Pune, Bangalore University of India and other global college.

IGNOU, SMU, DOEACC understudy.

Step by step instructions to make report in Crystal Report and incorporate with visual essential application.

Unique

eProperty – is an Estate Agent and Property Management System is an easy to understand contact and property director for land experts. Spare time and pitch more by engaging to effortlessly monitor leads, oversee postings, and market to new prospects.

eProperty gives you a reasonable perspective of what is happening in your business and gives basic advances that your group can without much of a stretch take after to help develop your business. Take your business to the following level and quit sitting around idly with obsolete or wasteful practices. eProperty has capable hunt and match office to coordinate property with purchaser by the determination parameter. No more requirement for Excel spreadsheets. Monitor every one of your properties. eProperty has offices to keep property related reports, pictures and naturally resizes photographs and makes thumbnails for you.

A standout amongst the most essential strides in maintaining a fruitful land business is viably overseeing contacts and cultivating leads. In constructed scheduler and alert framework will enable you to remind your arrangement and get back to.

Home Agent/Property Management System – eProperty is finished end to end answer for cover all parts of Estate Agent everyday movement and Property purchasing offering method for little and extensive association.

eProperty System Benefits

Kind of property and highlights hunting down.

Match with properties available to be purchased by number of rooms/value criteria.

Show coordinated property subtle elements effortlessly and rapidly by a single tick.

Enter Solicitor subtle elements.

Enter Property available to be purchased points of interest, Add Room depictions.

Mean any nos of photographs and property archive per property

Match property with potential purchasers.

Create Documents, contracts and promoting leaflets with layouts.

Rundown all viewings for property.

Speedy Search for property points of interest.

Simple Connection with Outlook for send email from framework.

Journals all viewings by Agent and by Office.

Make Letters and contracts effortlessly utilizing layouts.

Speedy Search off all records.

Framework bolster catchphrase based propelled look office to look through the whole database without a moment's delay and deliver joined list items.

Channel all perspectives for simple record area.

Permit simple passage of Property and Vendor points of interest .

Intense intelligent client administration for security.

Simple to utilize and noteworthy GUI.

Auto spells checker office to check spelling and propose for changes while entering information by associating MS Word spell checker.

(APPENDIX 6: Acknowledgement)

ACKNOWLEDGEMENT

I would like to express my gratitude and appreciation to all those who gave me the possibility to complete this project. A special thanks to my parents, friends and family for providing me with my needs and their forever stimulating support. I take this opportunity to express my deep sense of gratitude towards my project guide **Mr. Gangashankar** for his help and letting me work as I wished without putting pressure on me.

I also Thank to **Mrs. Sindhu PM** Head of Department of our section in college for supporting me. I am very thankful to **Mrs. Ancy Jose,** the principal of Nagindas Khandwala College for her kind co-operation in the completion of my project requirements and support and co-operation.

My project experience was satisfying, fulfilling acknowledge filled lastly, I would like to thank my college Nagindas Khandwala college of commerce, arts and science (autonomous) for providing me with proper ambience and supplying me with the right amenities that has helped me complete this project on time and satisfyingly

(APPENDIX 7: DECLARATION)

DECLARATION (20 bold, centered, all caps)

I hereby declare that the project entitled, "Real estate" done at **place where the project is done**, has not been in any case duplicated to submit to any other university for the award of any degree. To the best of my knowledge other than me, no one has submitted to any other university.

The project is done in partial fulfillment of the requirements for the award of degree of **BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)** to be submitted as final semester project as part of our curriculum.

Name and Signature of the Student

(APPENDIX 8: Table of Contents)

TABLE OF CONTENTS (20 bold, caps, centered)

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(APPENDIX 9: List of Tables and Figures)

List of Tables

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List of table

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(Project Introduction page format)

Chapter 1

Introduction

This chapter introduces students to the real estate as a behavioral science. This classification comes from the unique nature of the market in which all transactions are negotiated. This unique market mechanism distinguishes real estate from other asset classes. At the same time, it argues for more efforts to understand how space consumers make real estate decisions.

To add more precision, the notion of market segmentation is introduced as a way of identifying the "usual suspects" and focusing on the most probable buyers. The chapter provides an overview of consumer behavior theory and then extends that theory to the real estate market. It introduces the notions of perception and perceptual biases.

It explores high- involvement decisions and explains how spatial consumers approach high involvement decisions. The discussion also explores wants and needs using Maslow's pyramid of needs as a point of discussion. To provide an example of behavioral theory, the impact of confidence levels on the price setting process is explored. The discussion also introduces land residual theory and urban land economics theory.

BACKGROUND

Property Masters Uganda is Uganda's leading real estate dealer. The first branch office of the company was opened in Kampala in 19… Since then, the company has steadily grown and now has 12 branches in the major towns of the country. The company is now so large that more and more staff is being employed to cope with the increasing amount of paper work and business transactions with clients all over the country.

The company currently uses the manual filing system to hold all external and internal correspondence relating to clients and staff. A number of files concerning different transactions and information are labeled and stored in cabinets at a branch. For security purposes, the cabinets have locks. Whenever reference is to be made in the files, one has to go through the filing system, starting from the first entry until he or she finds what they want.

This system used to work well when the company's business transactions and the number of staff were still small. However, with the increase in the number of transactions, the filing system is breaking down since different transactions have to be cross-referenced and processed. Clients, staff and the manager of a branch nowadays want more and more information for decision-making.

A need has also arisen to produce detailed monthly, quarterly and annual reports concerning the company's transactions, expenses and turnover. Due to the isolation of data in different files, it's difficult to access data that should be available for management to take decisions and to easily answer client's enquiries. Such data cannot be easily statistically analyzed to make inferences about the data items handled by a branch for proper management.

OBJECTIVES

PURPOSE: GOALS AND OBJECTIVES

The main purpose of this project is the name follows that is managing the properties (listings) which are added by admin/agent. There are facilities and functionalities that are available in managing the properties. These functions include the login system which helps the agent to get into the system to use it and the functions like property management, add property, add photo of property, and add location to Google map and many more.

1. **Security**:

    - All passwords are stored & encrypted in a way that makes it impossible to guess the original password, even if an attacker has access to the database.

2. **Speed:**

    - Because of optimized coding, Page loads are much quicker than others.

3. **Registration:**

    - Registration process is a First level process of any end user.
    - Without registration client cannot used Some Reserved Feature or Authentication features.
    - JavaScript Validation provided and if JavaScript is disabled in browser then simple php validation is provided.
    - After registration, Conformation of User is done via mail.

4. **Login:**

    - In Login we are also providing User name & password..

- Forgot password facility.
- Prevent SQL injection.

5. General:

- User can view properties based on “For Sale” or “For Rent”.
- Advance Search Facility.
- Most Viewed.
- Post requirements.
- List Properties For sale or Rent
- View on Google Map.
- Properties categorized via types of property, No of Bedrooms and Bathrooms, Total Square, Faculties provided in property.
- User also can able to watch photos & full Detail of property.
- User can directly contact to agent of property via Email.
- User can search properties to filling the search properties form.

6. Uploading:

- Extension validation.

Scope

The scope of MS project “Real Estate Web Application” is to enable the buyers to search for property listings online. The motive of developing this application is to design a feature rich search engine which can make the search of commercial land/properties an easy task.

Chapter 2

System Analysis

2.1 Existing System

Technical analysis evaluates technical merits of the system at the same time collecting additional information about performance, reliability, maintainability and productivity. In some cases, this system analysis step also includes a limited amount of research and design.

Technical Requirement	**How Accomplished?**
Front end	HTML, DHTML, JavaScript
Back end	MS SQL
Technology used	PHP
Documentation Tools	Microsoft word ,Microsoft Visio
Communication Tools	Intranet/Internet

2.2 Proposed System

The proposed system is a web application. It can be accessed by any where in the world. The proposed system has to over come the mediators. The proposed system builds a direct communication between the owner and purchaser. With this both have an understanding and maintain their deals directly with out any third party mediators.

Requirement Analysis

This aimed at determining the data, information, system components, and data processing and analysis functions required by the organization. A detail study of the various components and operations of the current system was undertaken.

This was done using a structured questionnaire as a fact-finding technique. This also aimed at defining decision-making associated with workflow together with the information needed to support decision-making. The outcome of requirement analysis for the system was the specification of the conceptual design

Assumptions

• User will have Internet Connection while using Real Estate Web Application.

• User will have Internet Explorer 5.0 or high IE version while using Real Estate

Web Application.

• User will upload valid images for the Real Estate Web Application.

Environment

• The Real Estate Web Application will be written in C# .NET language.

• The development environment will be Microsoft Visual Studio .NET.

• The Real Estate Web Application will be tested on Windows XP platform.

Hardware Requirements

CPU : Pentium IV 2.4 GHz or higher with 533 MHz bus speed

Motherboard - Intel chipset 845 GV with 533 MHz FSB

CACHE - 512 KB L2 CACHE

RAM - 256 MB DDR SDRAM WITH 266/333 MHz up gradable up to 2 GB

HARD DISK - 40 GB IDE 7200 RPM

1.44 MB Floppy Drive, 48x/52x CD ROM Drive,Integrated 10/100 Mbps Ethernet Card with UTP Port,15"SVGA Color Monitor with 1024X 768 pixel resolution,
On board sound & AGP (Should support 64 MB), PS/2104 keyboard, PS/2 Two Button Optical Mouse with scrolled, and driver software.

Software Requirement

This aimed at determining the data, information, system components, and data processing and analysis functions required by the organization. A detail study of the various components and operations of the current system was undertaken.

This was done using a structured questionnaire as a fact-finding technique. This also aimed at defining decision-making associated with workflow together with the information needed to support decision-making. The outcome of requirement analysis for the system was the specification of the conceptual design.

PHP can be used for different purposes, however, the most popular use of PHP is as the server side programming language for web development. Naturally, to run PHP program for web development, you also need a web server like Apache Web Server, and a database server like MySQL or MariaDB.

You may install these separately on your own computer, however, it is often difficult for beginners to install these tools individually and combine them to run PHP programs. XAMPP does all these for you with just a few clicks.

.NET Framework Architecture

Justification of Platform – (how h/w & s/w satisfying the project)

The selection of technologies for development beyond basic and applied research activities is a key step in the overall technology-development process of the Department. If technology selection is done properly, the selected technologies should be able to move through the complete development process and lead to solutions of identified problems. If it is done poorly, it can result in wasted resources, in customer dissatisfaction, and in lingering problems.

At its most fundamental level, successful technology development is a product of meeting customer needs by solving their problems to an acceptable degree. Where technology development takes place independently of customer (and stakeholder) needs, the rate of technology deployment is low. Where the needs of potential customers (and stakeholders) are identified and considered from the beginning of the development process, the likelihood of eventual technology acceptance and use is high.

The subcommittee recommends that the Department's technology-selection process be intimately linked with identified customer needs. We believe that the most important step that EM can take in this regard is to ensure that a structured process is implemented and consistently applied to require consideration of customer needs explicitly and seriously from the beginning of the process.

Dealing with the management of project complexity, many methodological frameworks have been developed to satisfy the needs of different types of IT projects. This variety of methodological approaches carries on individual, institutional or corporate points of view on project management approaches.

Organizations for example, which develop software, tend to manage a project with the engineering dimension. Consulting organizations manage projects based on the services they provide or sell to their customers (usually by the organizational dimension) . Institutions on the other hand, propose a project management approach based on more metrics or improvement activities (planning and tracking). lists a number of project management methodology categories that could satisfy the project management dimensions.

Chapter 3

System Design

3.1.Module Division

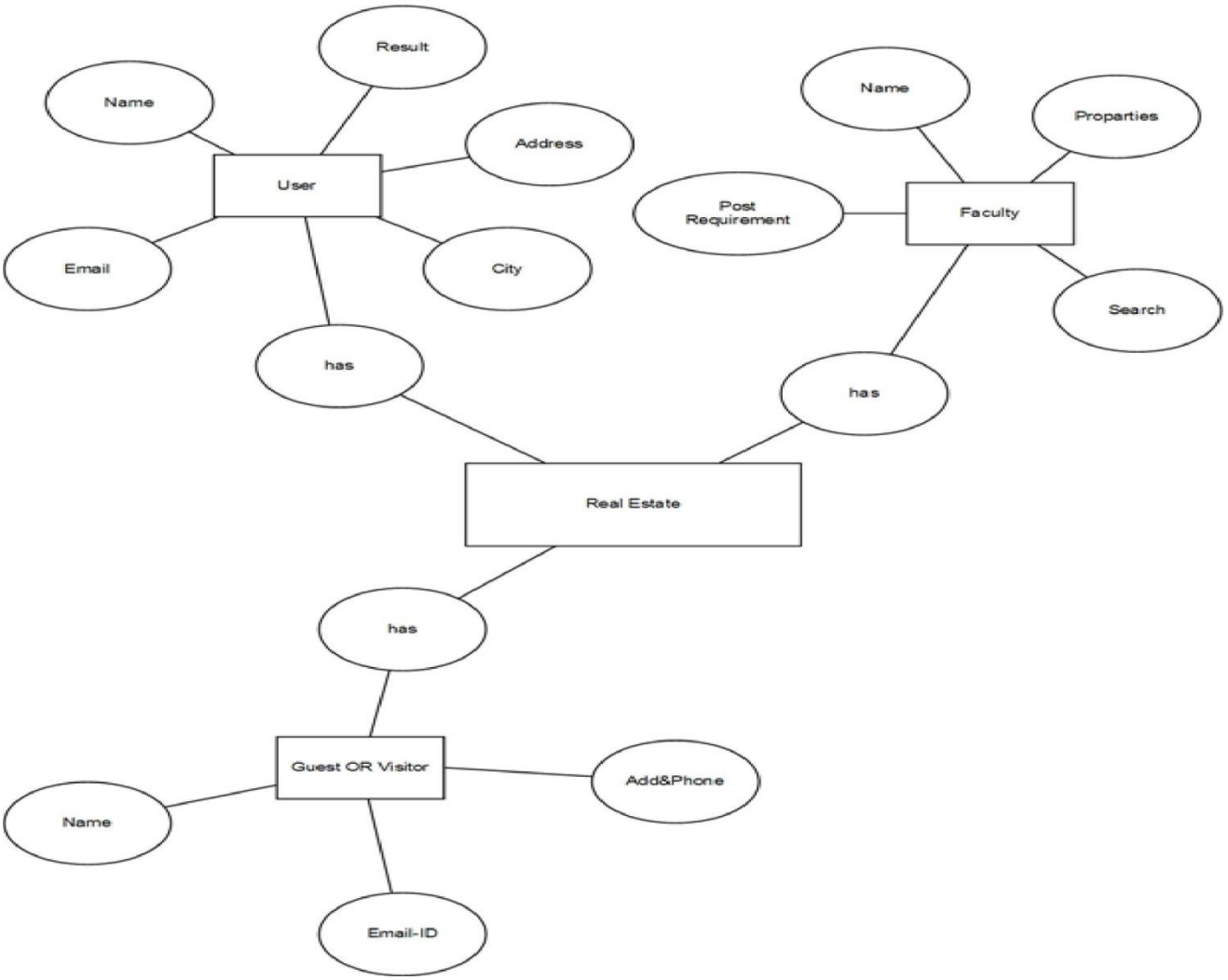
A *module* is a collection of source files and build settings that allow you to divide your project into discrete units of functionality. Your project can have one or many modules and one module may use another module as a dependency. Each module can be independently built, tested, and debugged.

Additional modules are often useful when creating code libraries within your own project or when you want to create different sets of code and resources for different device types, such as phones and wearables, but keep all the files scoped within the same project and share some code.

3.2.Data Dictionary

#	Name	Type	Collation	A
1	**id**	int(11)		
2	**username**	varchar(50)	latin1_swedish_ci	
3	**emailid**	varchar(50)	latin1_swedish_ci	
4	**phonenumber**	varchar(20)	latin1_swedish_ci	
5	**gender**	varchar(10)	latin1_swedish_ci	
6	**address**	varchar(500)	latin1_swedish_ci	
7	**password**	varchar(100)	latin1_swedish_ci	

3.2.E-R Diagrams



3.3.Data Flow Diagrams / UML

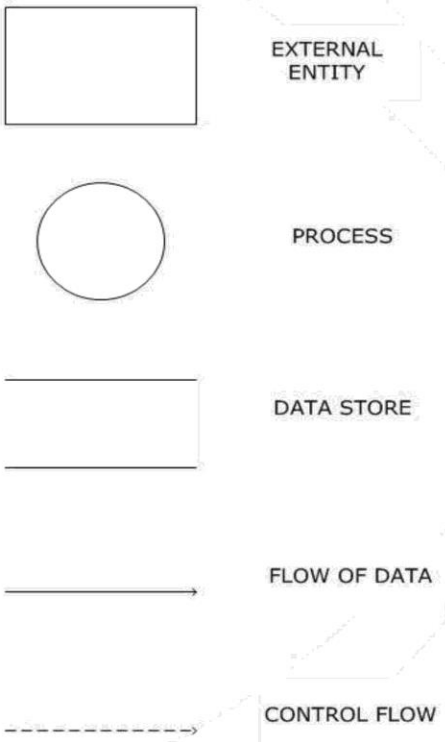
A Data Flow Diagram (DFD) is a diagram that describes the flow of data and the processes that change or transform data throughout a system. It's a structured analysis and design tool that can be used for flowcharting in place of, or in association with, information oriented and process oriented system flowcharts.

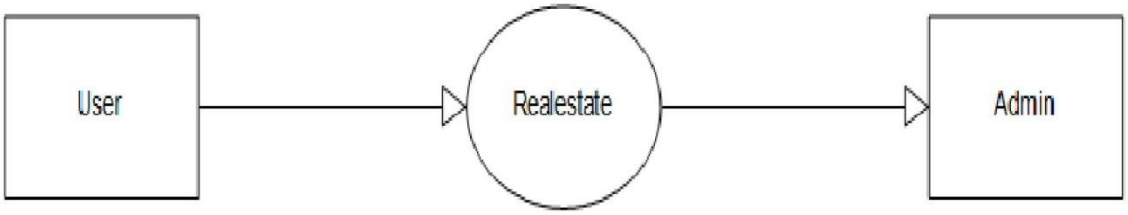
When analysts prepare the Data Flow Diagram, they specify the user needs at a level of detail that virtually determines the information flow into and out of the system and the required data resources.

This network is constructed by using a set of symbols that do not imply a physical implementation. The Data Flow Diagram reviews the current physical system, prepares input and output specification, specifies the implementation plan etc.

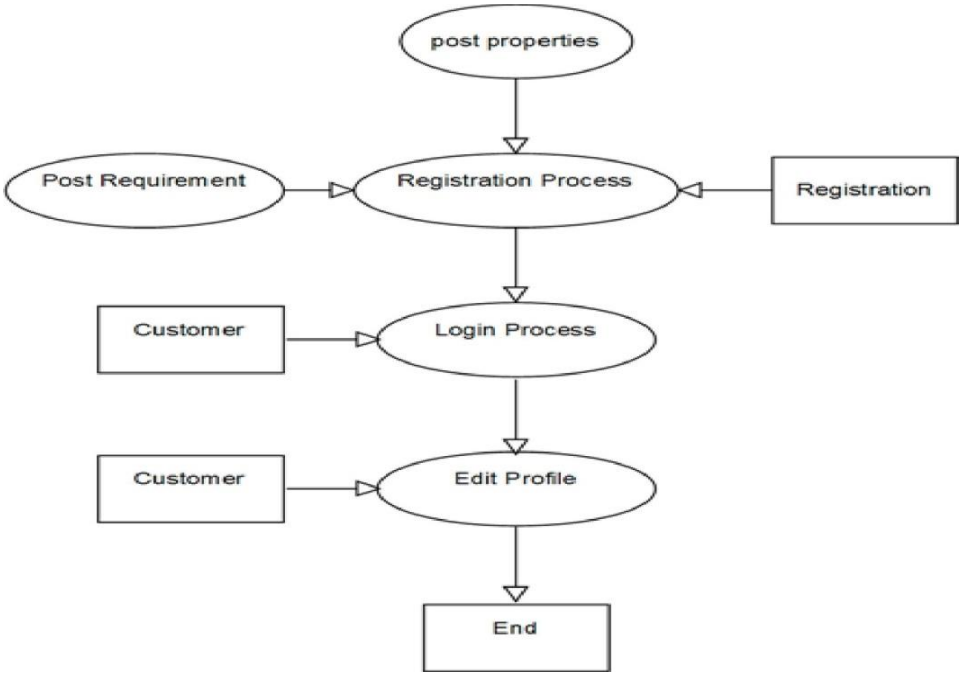
Four basic symbols are used to construct data flow diagrams. They are symbols that represent data source, data flows, and data transformations and data storage. The points at which data are transformed are represented by enclosed figures, usually circles, which are called nodes.

CONVENTIONS FOR DFD AND CFD

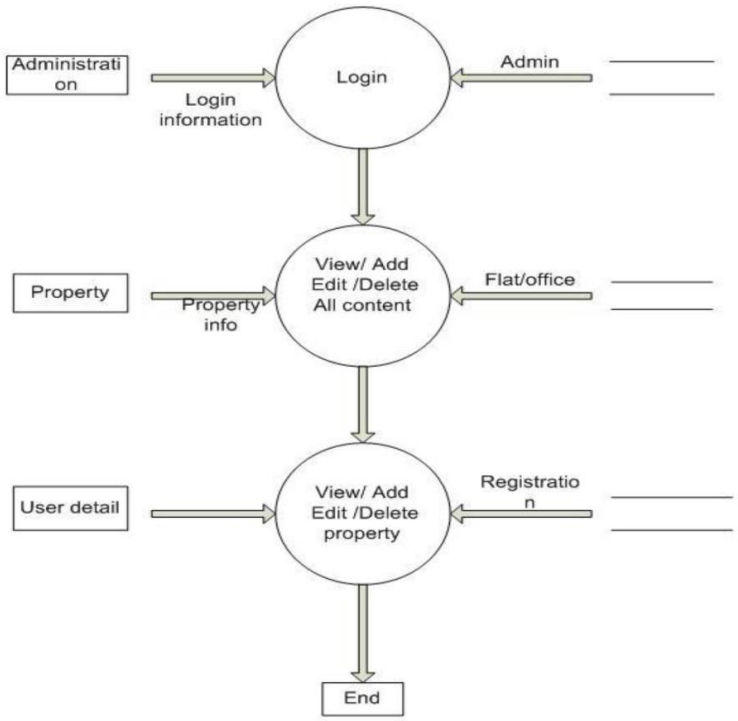




Zero Level Client Module Data Flow Diagram

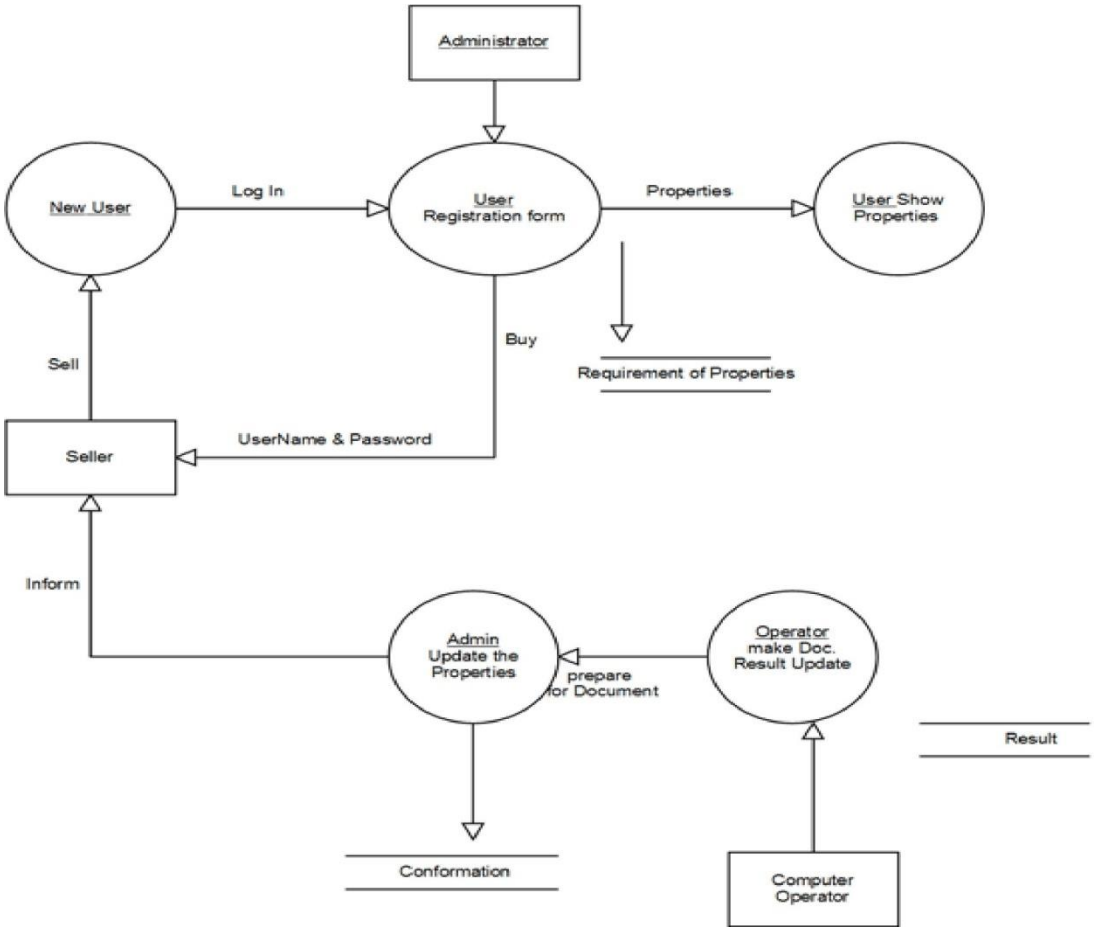


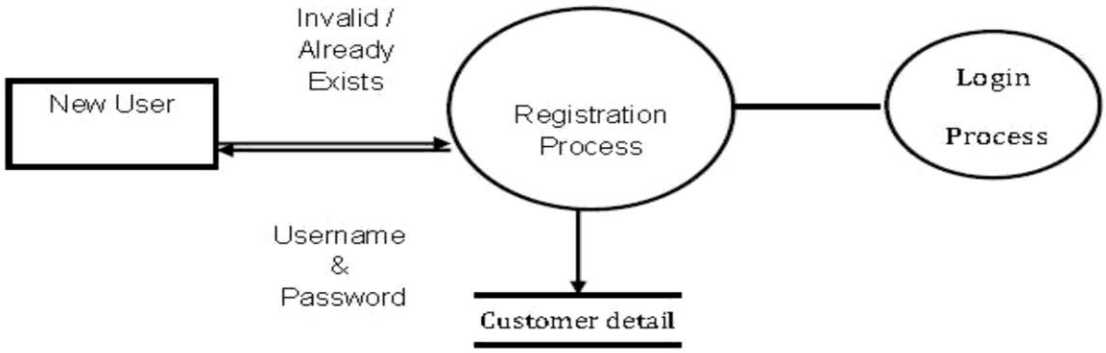
First Level Client Module Data Flow Diagram



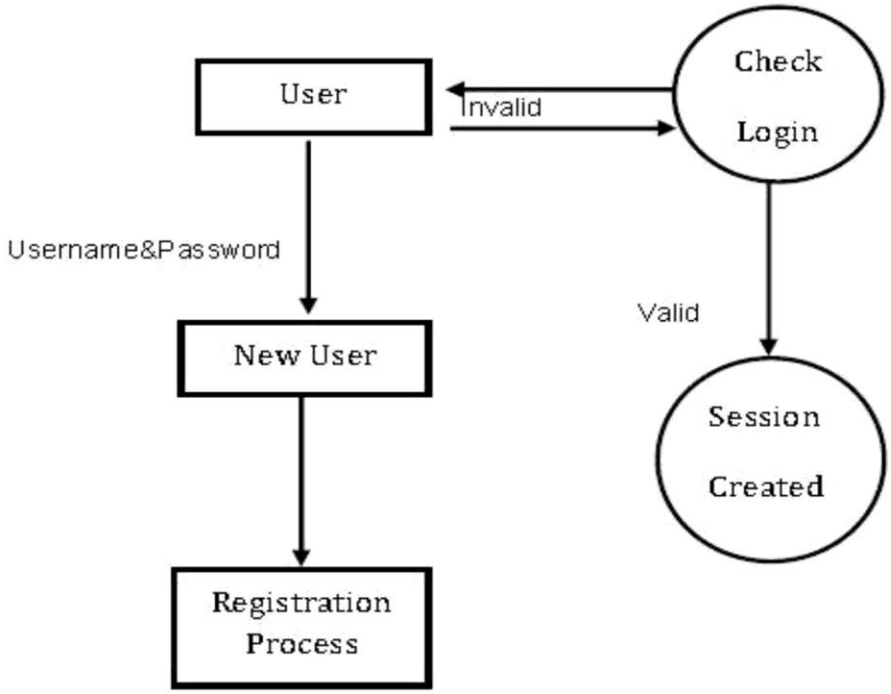
First Level Admin module Data FlowDiagram.

Second Level Admin module Data Flow Diagram





Registration Process



Login Process

Chapter 4

4.1.Implementation and Testing Code (Place Core segments)

Register.php

```
<?php
	session_start();
	include("dbconnection.php");
	$message = array();
	if(isset($_POST["btnSubmit"])){
		$username = $_POST["username"];
		$useremail = $_POST["userEmail"];
		$usernumber = $_POST["usernumber"];
		$userpass = $_POST["userPass"];
		$qry = "INSERT into userdetails(name,emailid,number,password) values('".$username."','".$useremail."','".$usernumber."','".$userpass."')";
		if(mysqli_query($con,$qry)){
			$message["success"] = "1";
			$message["message"] = "Registered Successfully";
		}
		else{
			$message["success"] = "0";
			$message["message"] = "Something Went Wrong";
		}
	}
?>
```

Login

```
<?php
	session_start();
	include("dbconnection.php");
	$message = array();
	if(isset($_POST["btnSubmit"])){
		$useremail = $_POST["userEmail"];
		$userpass = $_POST["userPass"];
		$qry = "SELECT id,name,number from userdetails where emailid = '".$useremail."' and password = '".$userpass."'";
		$res = mysqli_query($con,$qry);
		$row = mysqli_fetch_assoc($res);
		if(isset($row["id"]) and isset($row["name"])){
			$message["success"] = "1";
			$message["message"] = "Logged in Successfully";
			$_SESSION["userid"] = $row["id"];
			$_SESSION["username"] = $row["name"];
			$_SESSION["timestamp"] = time();
			setcookie("user","aayush",time()-60,"/");
			setcookie("institue","kj sim",time()-60,"/");
		}
		else{
			$message["success"] = "0";
			$message["message"] = "Something Went Wrong";
		}
	}
?>
```

Logout

```
<?php
	session_start();
	if(isset($_SESSION["userid"])){
		session_unset();
		session_destroy();
		header("location:index.php");
	}
?>
```

4.2.Testing Approach

Functionality Testing

As the name implies, the overall functionality of the website must be tested. This includes testing all outgoing links from the website, testing all the internal links and testing links that point to the same page. The main objective is to find any broken links, non-existent pages or orphan pages - pages that do not have any parent pages.

Compatibility Testing

A website will be accessed over the globe and so its compatibility is of prime importance. The website must be checked for operating systems compatibility, browser compatibility via automated browser testing tools, mobile browsing and printing options.

Usability Testing

Testing for correct navigation within the webpage must be carried out in order to validate proper surfing of the web pages, consistency between various web pages and presence of proper user help at relevant places.

Also, presence of content on the pages must be tested for accuracy, logical/structural display, any spelling/grammatical errors and coordinated font sizes/colors.

Interface Testing

Interactions between web server interfaces and application server interfaces must be tested properly. Also, relevant error messages must be shown incase any problem arises during the interactions. Interactions between application servers and database servers must also be checked for correctness. Proper data updates/fetches from the backend database must be validated.

Security Testing

Internet is where crime rate is on a steady rise, and so the website must be tested for good and strong security in place.
Login bypasses must be tested, direct URL modification must be tested, and entry into the website through invalid login details must be tested.
Testing must be done to include SQL injection, cross-site scripting, spoofing and password cracking on the website.

Performance/Load Testing

Response time and latency during normal hours must be tested on a website.It is extremely important to ensure that the website does not crumble under the pressure of many users browsing it.

Tester must ensure that when the maximum number of users that the website can support access the website at the same time, its performance does not deteriorate.

Also, when this maximum number of allowed users is exceeded, the website must be tested for proper crash recovery.

Unit Testing

The word `Unit` refers to a block of code, method or an individual or independent class. Unit testing is a software testing process in which code blocks are checked to see whether the produced result matches the expectations. The units are tested by writing a unique test case.

The unit test is generally automatic but could be implemented manually. I have designed a short algorithm to define it visually how unit test work.

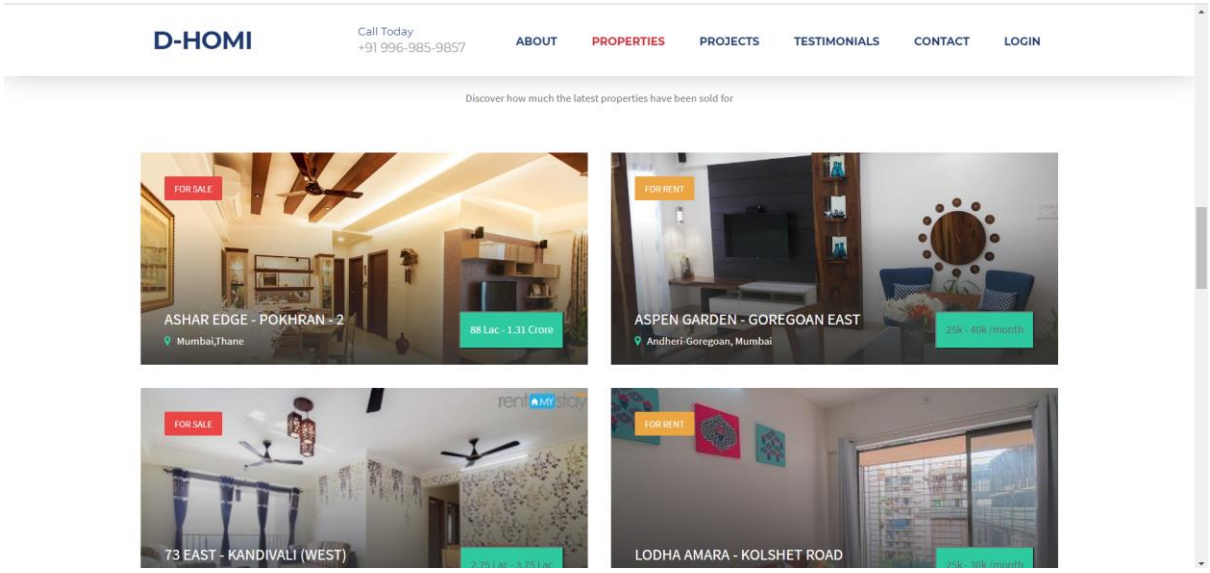
Integration Testing

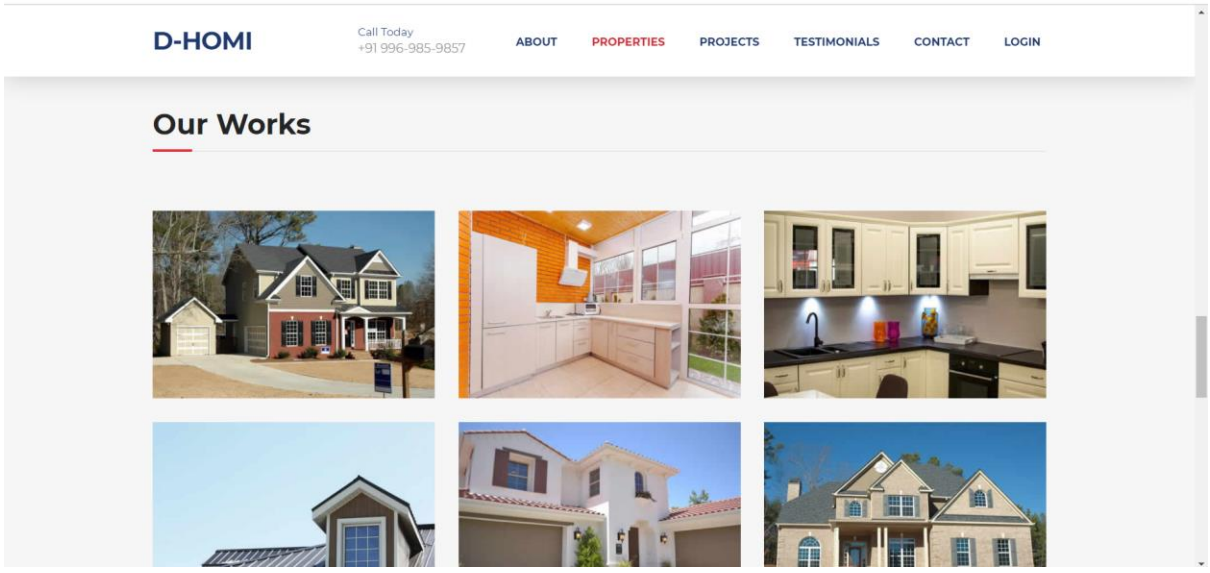
Integration testing (sometimes called integration and testing, abbreviated I&T) is the phase in software testing in which individual software modules are combined and tested as a group. Integration testing is conducted to evaluate the compliance of a system or component with specified functional requirements.

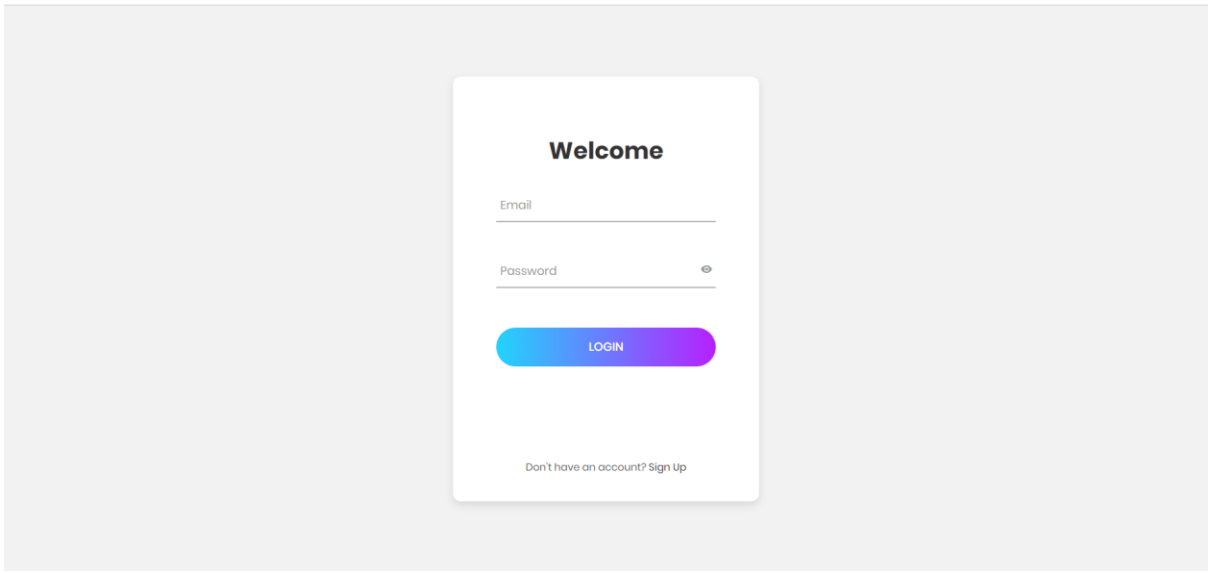
It occurs after unit testing and before validation testing. Integration testing takes as its input modules that have been unit tested, groups them in larger aggregates, applies tests defined in an integration test plan to those aggregates, and delivers as its output the integrated system ready for system testing.

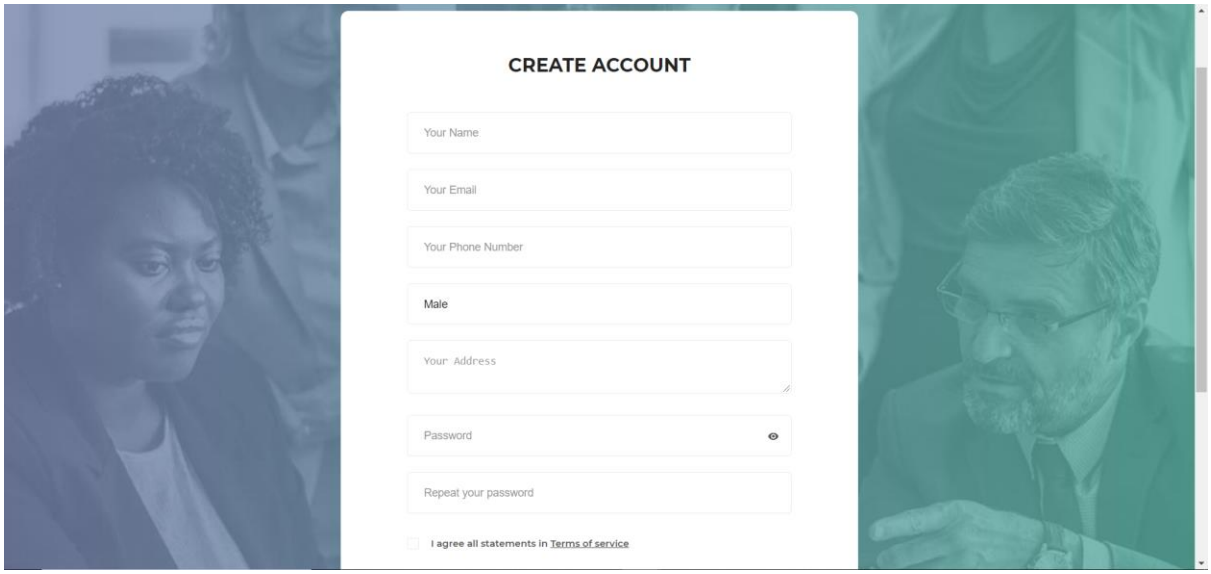
Chapter 5

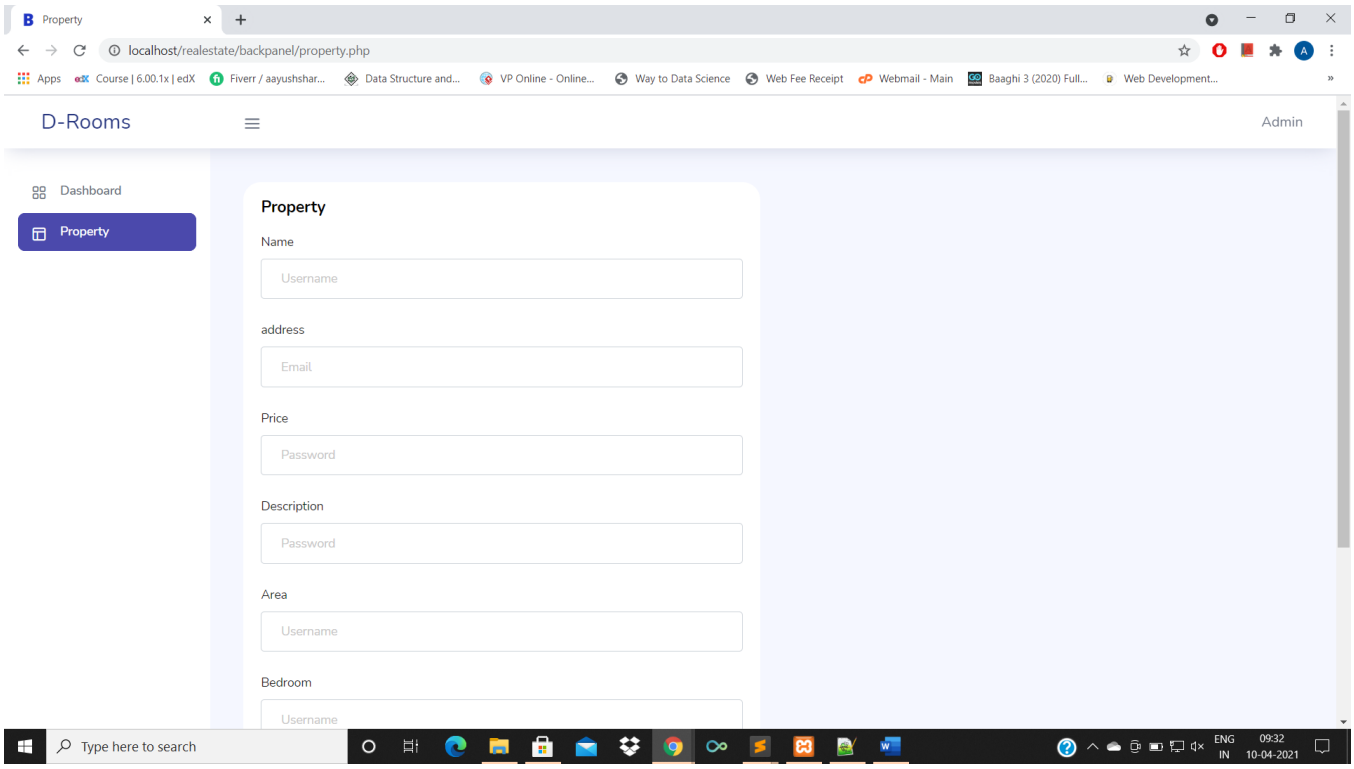
Results and Discussions

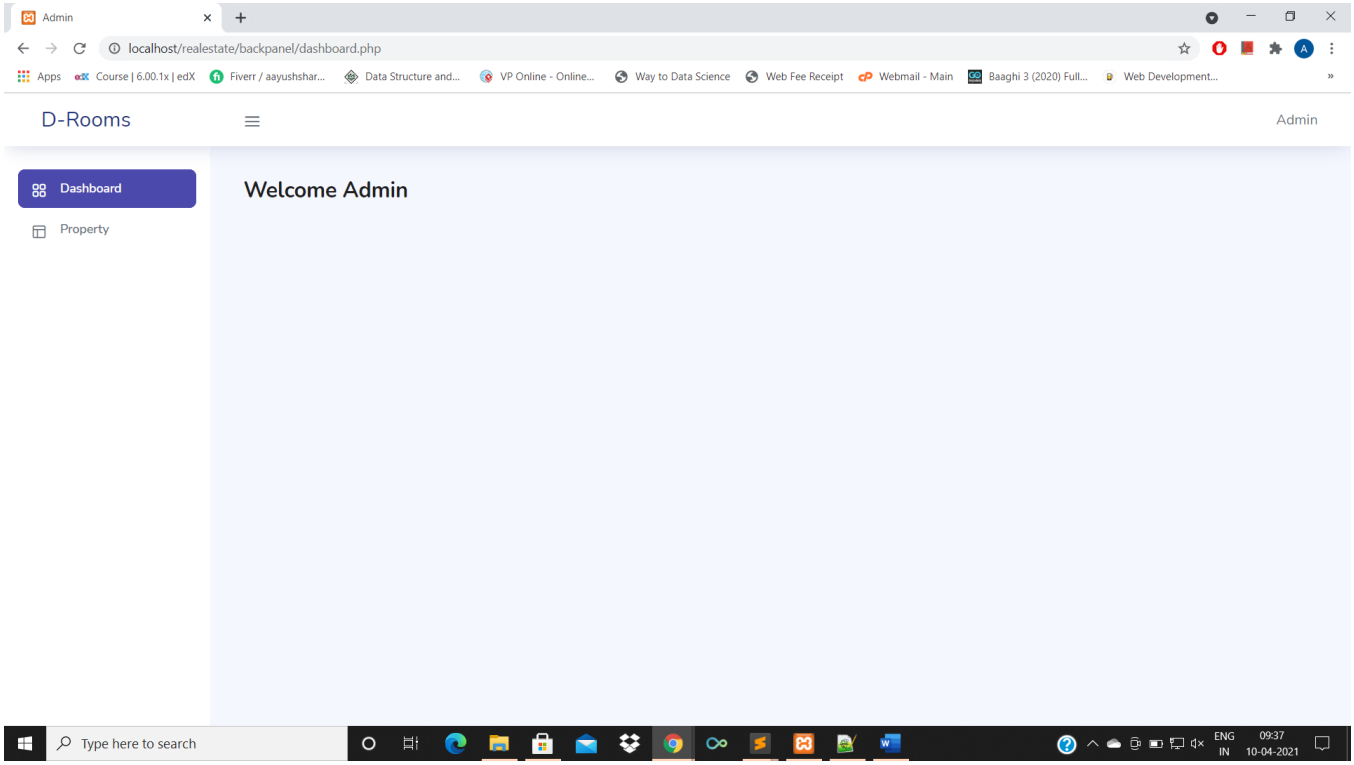


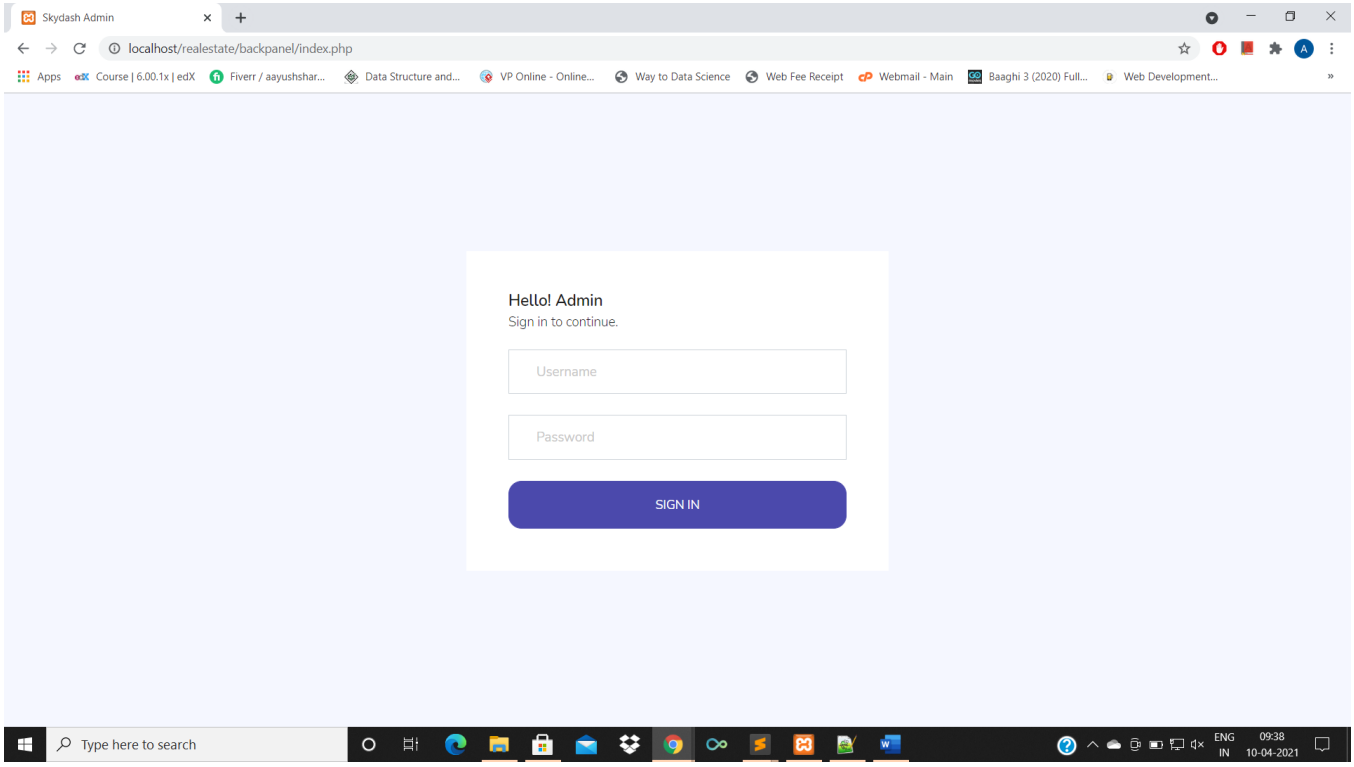



Welcome
Email
Password
LOGIN
Don't have an account? Sign Up


CREATE ACCOUNT
Your Name
Your Email
Your Phone Number
Male
Your Address
Password
Repeat your password
I agree all statements in Terms of service


Property
localhost/realestate/backpanel/property.php
D-Rooms
Admin
Dashboard
Property
Property
Name
Username
address
Email
Price
Password
Description
Password
Area
Username
Bedroom
Username
Type here to search


Admin
localhost/realestate/backpanel/dashboard.php
D-Rooms
Admin
Dashboard
Property
Welcome Admin
Type here to search


Skydash Admin
localhost/realestate/backpanel/index.php
Apps
Course | 6.00.1x | edX
Fiverr / aayushshar...
Data Structure and...
VP Online - Online...
Way to Data Science
Web Fee Receipt
Webmail - Main
Baaghi 3 (2020) Full...
Web Development...
Hello! Admin
Sign in to continue.
Username
Password
SIGN IN
Type here to search
ENG
IN
09:38
10-04-2021

Chapter 6

Conclusion and Future Work

As above we have seen the process of how real estate works and what are the deficiencies in the Normal system and because of the current scenario there is an requirement of an online system where there should be an ease in viewing the properties online. Currently the system only lets the user to view all the properties and register with the site.

In future, there will be an option given where the user can request for seeing the property or can contact to respected owner or the broker to buy, sell, or rent an property. Here we can see that currently there are some restrictions, in buying and selling the property, the online system helps with all such features and helps the user to select the proper property which it wants as his dream house. This systems helps us in prevent all the deficiencies and covers all the points as mentioned above. In future there will be an search feature will be given to the user for searching the properties and searching based on the locations and area where the user wants to find the property.

There will be an admin panel where the admin can add delete and change the status of the property. If the user requests for the property visit, it will be shown to the admin, and then the admin can contact to the respected user. The user can also view its last properties, which he has seen, the admin can view the count of how many people have seen the particular property.

Chapter 7

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