MURANG’A UNIVERSITY OF TECHNOLOGY PROGRAMMING AND DATABASE PRACTICUM

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HOUSE RENTAL MANAGEMENT PORTAL REPORT

Abstract

We are stuck with technology when what we really want is just stuff that works. With the current paradigm shift in technological field, there is an urgent need to embrace and appreciate the power of technology. Housing sector remains vigilant to face the challenges of change by employing a new strategy that facilitates easy management of rental houses. Hence there is need to develop a rental house management system that can simplify work for the rental managers so that all their work can be efficient and effective. The Rental Management System is Searching in Based on the Apartment Paying Guest, Office, House in metropolitan cities. The Rental Management System is Based on the Owners and the Customers. The Owner is updated on the Apartment, Office details, House, Paying Guest details. The Customer is details about the Room space, Room rent and the Address Details also. The Rental Management System is best Suitable the owners because time save and the only contact and the eligible person and there is no need to explain the room details on the speak. The Rental Management System is best application in the city place The customer contact and the easily search and the suitable place of Apartment, Office, PG, House and based the Money, Limit Person is based on the suitable house. The Rental Management System is save the time also. The Rental Management System is used to easily identify the suitable place in Save time, cost also. The Rental Management System is best way to search the house, Apartment office, Paying Guest. Hence this system is best applicable for the above reasons making House rental an easy process through an online system

Acknowledgement

At the beginning I am very much grateful to almighty God for giving me strength and opportunity and sound mind to complete the House Rental Management report. I want to bid my heartiest thanks to my Lecturer, Dr. Tirus, for guiding and giving me the opportunity to initiate this report. Then I want to thank Jionme Real Estate Ltd for giving me the opportunity to do my research in their organization. Thanks again to my colleagues Thomas, Joseph and Steve Amani without forgetting the 3 Idiots Team.I would also like to thank Murang’a University for their library and internet facilities from where I got enormous information.

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CHAPTER ONE

Introduction

1.1 Problem Statement

House Rental is a house/Apartment/home that can be used temporarily for a fee during a specified period. The individual who needs a house must contact a rental car company and contract out for a room/home/apartment. This system increases customer retention and simplify House and staff management.

1.2 Background

1.2.1 How House Rental Services Work

A House rental is a house that can be used temporarily for a period of time with a fee. Renting a house assists people to live in a comfortable house when they do not have access to build their own personal homes/houses or. The individual who want to rent a house/room/apartment/home must first contact the House rental company for the desire House/Home/apartment. This can be done online. At this point, this person has to supply some information such as; dates of rental, and type of house. After these details are worked out, the individual renting the house must present a valid Identification Card.

Most companies throughout the industry make a profit based of the type of house that are rented. The rental houses are categorized into modern Homes, Colonial, apartment, Rentals etc. And customers are free to choose any house of their choice based on their purse and availability of such houses at the time of booking.

1.2.2 Benefits of Online House Rental Services

- This online house rental solution is fully functional and flexible.
- It is very easy to use.
- This online House rental system helps in back office administration by streamlining and standardizing the procedures.
- It saves a lot of time, money and labor.

- Eco-friendly: The monitoring of the Housing activity and the overall business becomes easy and includes the least of paper work.

- The software acts as an office that is open 24/7.

- It increases the efficiency of the management at offering quality services to the customers.

- It provides custom features development and support with the software.

1.3 Aims & Objectives

- To produce a web-based system that allow customer to register and reserve houses online and for the company to effectively manage their House rental business.
- To ease customer's task whenever they need to rent a house.
- To Transform the manual process of renting a house to an online and computerized system
- To validate the house rental system using user feedback and testimonies
- To produce the documentation such as Software Requirement specification, Software Design Description and Software Development References

1.4 Purpose, Scope and Applicability:

1.4.1 Purpose

The advancement in Information Technology and internet penetration has greatly enhanced various business processes and communication between companies (services provider) and their customers of which Real Estate/House Rentals industry is not left out. This House Rental System is developed to provide the following services:

- Enhance Business Processes: To be able to use internet technology to project the rental company to the global world instead of limiting their services to their local domain alone, thus increase their return on investment.

- Online House/Room Booking: A tools through which customers can book available Rooms/House/Apartment online prior to their date of using the house instead of walking around and asking for a vacant house.

- Customer's registration: A registration portal to hold customer's details, monitor their transaction and used same to offer better and improve services to them and user account where he/she can view her/his details instead of the poor existing systems where only the administrators control their customer details.

- Rentals Notice and Blog: A tool where customers can see and view the details of nearby available House for rent/sale, and also view the current economic design of houses/apartments.

1.4.2 Scope

This project traverses a lot of areas ranging from business concept to computing field, and required to perform several researches to be able to achieve the project objectives. The area covers include:

- Real Estate Company: This includes study on how the Real Estate business is being done, process involved and opportunity that exist for improvement.
- PHP Technology used for the development of the application.
- General customers as well as the company’s staff will be able to use the system effectively.
- Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.
- Existing Systems: This involves studying the existing systems and learning their weakness hence developing a new system to cater for the challenges the local and world domains faces when dealing with house rental issues.

1.4.3 Applicability

House Rental is a house/Apartment/home that can be used temporarily for a fee during a specified period. The individual who needs a house must contact a House Rental Owners Through House rental Online System by first checking the available Houses, booking it then The system will contact the house owners to check the House and contract out for a room/home/apartment. This system increases customer retention and simplify House and staff management. The System can be used by Real Estate Companies to increase the house rental market around the world. The system will also help people to rent apartments/houses easily instead of walking and manually renting houses. It is also applicable for landlords who wants to expand their house rental business.

CHAPTER TWO

SURVEY OF TECHNOLOGIES

2.1 About PHP

PHP: Hypertext Pre-processor is a widely used, general-purpose scripting language that was originally designed for web development to produce dynamic web pages. For this purpose, PHP code is embedded into the HTML source document and interpreted by a web server with a PHP processor module, which generates the web page document.

As a general-purpose programming language, PHP code is processed by an interpreter application in command-line mode performing desired operating system operations and producing program output on its standard output channel. It may also function as a graphical application. PHP is available as a processor for most modern web servers and as standalone interpreter on most operating systems and computing platforms.

PHP was originally created by Rasmus Lerdorf in 1995 and has been in continuous development ever since. The main implementation of PHP is now produced by the PHP Group and serves as the *de facto* standard for PHP as there is no formal specification. PHP is free software released under the PHP License.

PHP is a general-purpose scripting language that is especially suited to server-side web development where PHP generally runs on a web server. Any PHP code in a requested file is executed by the PHP runtime, usually to create dynamic web page content. It can also be used for command-line scripting and client-side GUI applications. PHP can be deployed on most web servers, many operating systems and platforms, and can be used with many relational database management systems. It is available free of charge, and the PHP Group provides the complete source code for users to build, customize and extend for their own use.

Originally designed to create dynamic web pages, PHP now focuses mainly on server side scripting, and it is similar to other server-side scripting languages that provide dynamic content from a web server to a client, such as Microsoft's Active Server Pages, Sun Microsystems' Java Server Pages, and mod_perl. PHP has also attracted the development of many frameworks that provide building blocks and a design structure to promote rapid application development (RAD). Some of these include CakePHP, Symfony, Code Igniter and Zend Framework, offering features similar to other web application frameworks.

2.2 PHP Syntax:

HTML and PHP code is written on the same page, and to distinguish PHP code from HTML, the PHP code is enclosed within <? php ?> Tags.

For example:

```
<html>

<head><title>php basics</title></head>

<body>

<h2>HELLO</h1> <?php
 echo "hello";

?>

</body>

</html>
```

In the above example PHP code is embedded within HTML. In this way PHP and HTML coding is combined on the same page.

Since PHP is a server side scripting language, the PHP coding cannot be seen by the end user through view source option, due to this feature PHP is very secure.

PHP is a parsed language; therefore PHP environment is necessary at the server for running PHP scripts.

2.3 Working Of PHP:

When a client requests web page containing PHP code from the server, then the requested PHP pages are parsed under PHP environment and interaction with   database is made if required.

After server side processing, the resulting HTML pages are passed to client and displayed on the browser.

In this way the working of php is complete.

2.4 Connecting PHP Application to MySQL Database

Make a connection variable to the database:

```
$con= mysql_connect ("localhost","servername","password");
```

Here $con is a connection variable to database.

Select database over that connection variable

```
$db=mysql_select_db("databasename",$con);
Prepare a sql query to execute:
$qry= Select * from abc;
Run the sql query:
$result=mysql_query($qry);
Iterate over the result:
while($row = mysql_fetch_array($result))

  {
                        //some logic
            }
```

2.5 Introduction to MySQL:

MySQL is a relational database management system (RDBMS) that runs as a server providing multi-user access to a number of databases. MySQL is officially pronounced ("My S-Q-L"), but is often pronounced ("My Sequel"). It is named for original developer Michael Widenius's daughter My.

The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL is owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Sun Microsystems, a subsidiary of Oracle Corporation.

MySQL code uses C and C++. The SQL parser uses yacc and a home-brewed lexer, sql_lex.cc.

MySQL works on many different system platforms, including AIX, BSDi, FreeBSD, HPUX, i5/OS, Linux, Mac OS X, NetBSD, Novell NetWare, OpenBSD, OpenSolaris, eComStation, OS/2 Warp, QNX, IRIX, Solaris, Symbian, SunOS, SCO OpenServer, SCO UnixWare, Sanos, Tru64 and Microsoft Windows. A port of MySQL to OpenVMS also exists.

All major programming languages with language-specific APIs include Libraries for accessing MySQL database. In addition, an ODBC interface called MyODBC allows additional programming languages that support the ODBC interface to communicate with a MySQL database, such as ASP or ColdFusion. The HTSQL - URL based query method also ships with MySQL adapter allowing direct interaction with MySQL database from any web client via structured URLs. The MySQL server and official libraries are mostly implemented in ANSI C/ANSI C++.

2.6 Introduction to APACHE SERVER:

In this project apache server is used to parse and execute PHP pages, before deploying websites on the server, the website should be tested at the developer side to get a feel of how the website will work on actual server.

Therefore apache server is like a local server on the developer side, apache server should be informed about the environment on which it should work.

In our project apache server is configured to work with PHP, in this way all the PHP pages are parsed and executed by the server.

When apache is installed on the system, then its services is controlled by apache service monitor.

The following are the database entities used in this system;

Houses: House information, Rental or sale/Buy agreement administration, credit control, cash flow control, compatibility with accounting principles and practices and existing systems, accurate bookkeeping, owner reporting and identifying of key performance indicators.

Tenant: general tenant information (name and contact details), finding space for a tenant, accurate rent billing and collection, handling of payments, accounting and general ledger (GL) functions.

Landlord, Client or Body Corporate: general details (name and contact details), shareholding if applicable.

Basic administration (supervisory level)

Repair and maintenance schedules are required by the House manager, as well as a diary to "flag" important dates for tenant's works, rent review and lease renewal dates. A good software program should also provide for a forward planning facility.

General management (functional level)

Aptly summarises the requirements at this level as follows:

"In terms of accounting procedures, the main property management related tasks will comprise

- Rent invoicing and income connection

- Recovery of expenditure

- Disbursements/outgoings

- Service charge costing and apportionment

- Client and tenant accounts

- Report production.

Any rent invoicing system should record amounts owing from tenants quickly and accurately and bill them accordingly. Receipts will need to be processed quickly and credit control systems maintained. Rent demands and accounts should be easily accessible as should rent apportioned over periods not concurrent with a normal rent review period. Interest on unpaid rent should be calculable and a stop on rent collection made if necessary. Full analysis of rents, classified by tenant, property or client should also be possible. Service charge accounting is often provided as a separate module. This will need to cater for multi tenanted buildings where perhaps some tenants do not contribute to some services. Separate schedules may well need to be set up in such cases. In addition, a full analysis of property expenditure, service suppliers, tenant expenditure, service charges, wages and salaries, and VAT on expenditure should be possible".

Strategic management

Lastly, a software programme should provide the information necessary to make strategic decisions. Such decisions include the performance and valuation of individual properties and property portfolios, as well as development appraisals. Features that are required comprise, among other things, tenancy and tenure details, the calculation of yields and profitability, discounted cash flows, cost, financing, tax implications and the valuation of both freeholds and leaseholds. All these should be supported by good menu-driven features and help facilities.
Technical aspects and user interface requirements are discussed below.

CHAPTER THREE

REQUIREMENTS AND ANALYSIS

3.1 HARDWARE & SOFTWARE REQUIREMENT

3.1.1 HARDWARE:

Processor	Pentium-II or higher
Processor Speed	533 MHZ
Hard Disk Space	20 GB (min.)
Ram Memory	32 MB (64 MB recommended)

3.1.2 SOFTWARE:

Operating System	Windows 95/98/NT/2000 /10/7/8
Database Server	MySql /XAMP/WAMP

Front end	PHP
Text Editor	Notepad++

3.2 Functional Requirements

Requirement analysis is a software engineering technique that is composed of the various tasks that determine the needs or conditions that are to be met for a new or altered product, taking into consideration the possible conflicting requirements of the various users.

Functional requirements are those requirements that are used to illustrate the internal working nature of the system, the description of the system, and explanation of each subsystem. It consists of what task the system should perform, the processes involved, which data should the system holds and the interfaces with the user. The functional requirements identified are:

- Customer's registration: The system should allow new users to register online.
- Online reservation of House: Customers should be able to use the system to make booking and online reservation.
- Automatic update to database once reservation is made or new customer registered: Whenever there's new reservation or new registration, the system should be able update the database without any additional efforts from the admin.
- Feedbacks to customers: It should provide means for customers to leave feedback.

3.3 Non-Functional Requirements

It describes aspects of the system that are concerned with how the system provides the functional requirements. They are:

a. Security**:** The subsystem should provide a high level of security and integrity of the data held by the system, only authorized personnel of the company can gain access to the company's secured page on the system; and only users with valid password and username can login to view user's page.

b. Performance and Response time: The system should have high performance rate when executing user's input and should be able to provide feedback or response within a short time span usually 50 seconds for highly complicated task and 20 to 25 seconds for less complicated task.

c. Error handling: Error should be considerably minimized and an appropriate error message that guides the user to recover from an error should be provided. Validation of user's input is highly essential. Also the standard time taken to recover from an error should be 15 to 20 seconds.

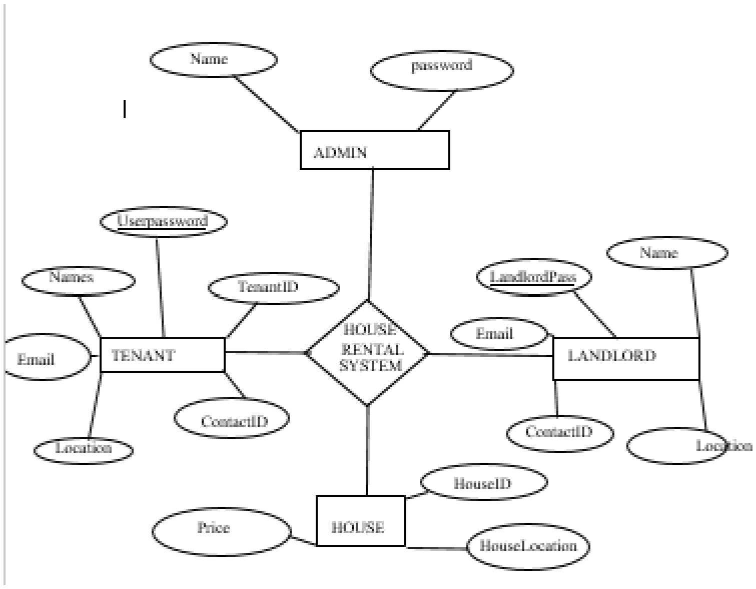
d. Availability: This system should always be available for access at 24 hours, 7 days a week. Also in the occurrence of any major system malfunctioning, the system should be available in 1 to 2 working days, so that the business process is not severely affected

3.4 CONCEPTUAL MODELS

ER diagram

ER diagram is a graphical representation of a system entities their attributes and the relationship between them as shown in the figure below

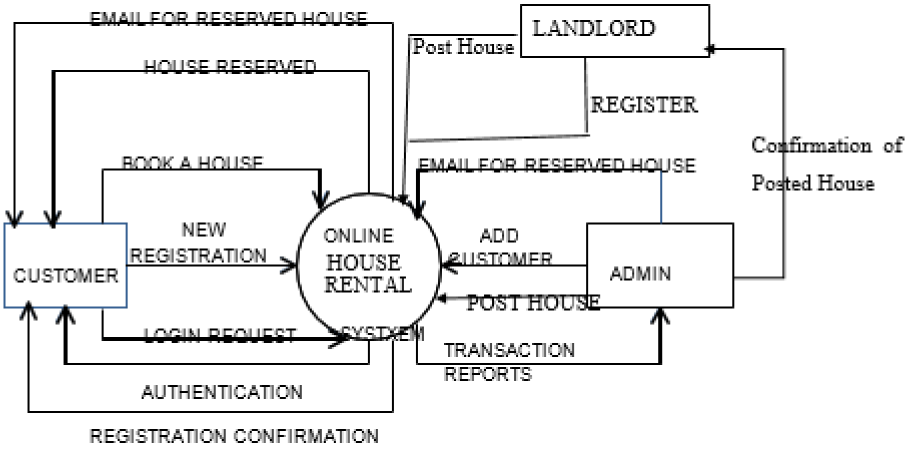
ER diagram Figure 1



Data Flow Diagram (DFD)

A Data Flow Diagram (DFD) is a graphical representation that depicts the information flow and the transforms that are applied as data moves from input to output.

Level 0 DFD diagram for House Rental management system Figure 2



Level 0 DFD of Online House Rental System in this diagram, Customer, Landlords and System Administrator are entity sets.

Functions of Customer:

- New Registration
- Login Request
- Registration Confirmation by the System
- Reserve House
- House Issued by the System
- Email received for Reserved House.

Functions of System Administrator

- Add Customers/Tenants/landlords
- Send E-Mails for Reserved House
- View Transaction reports
- Post Vacant Houses

Functions of Landlord:

- Register in the system
- Post a New house
- Send House Confirmation to System Administrator

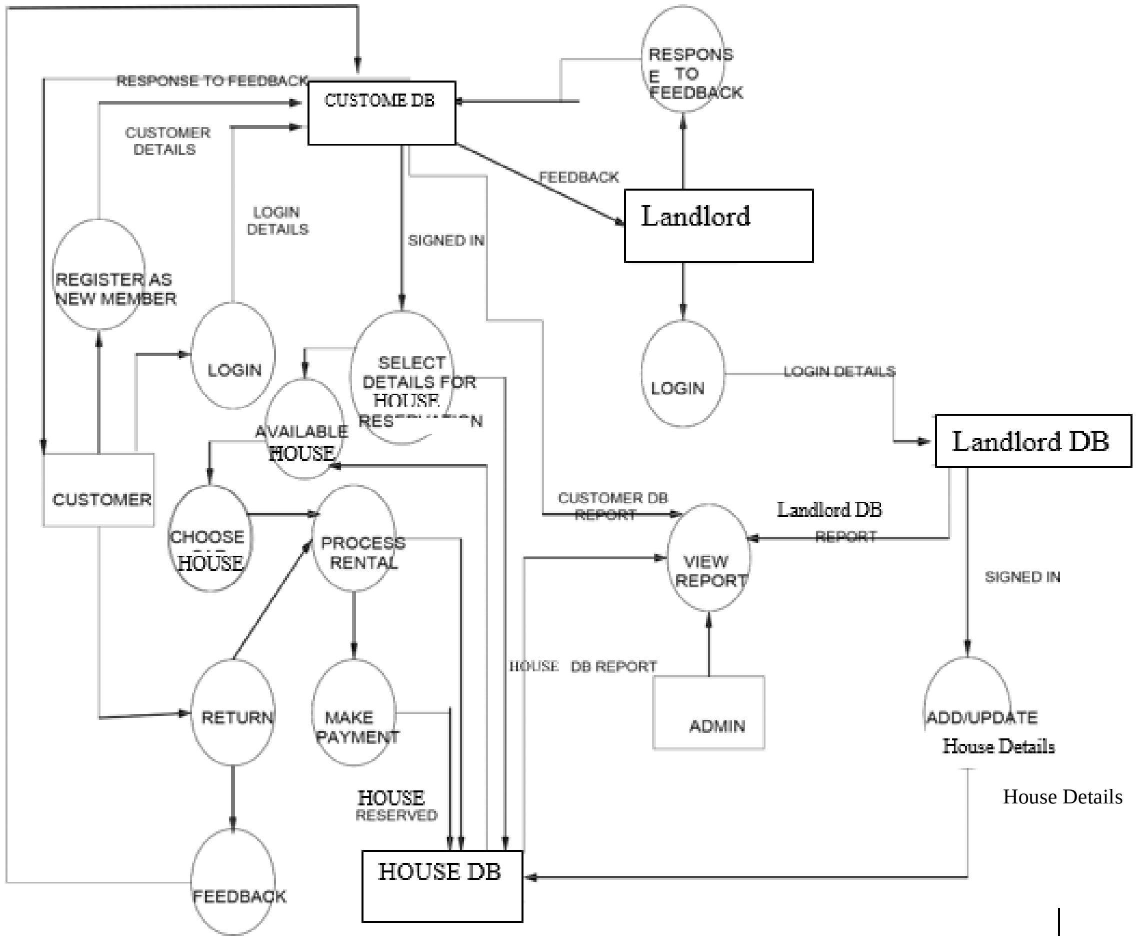


Figure 3Level 1 DFD of Online House Rental System

USE-CASE DIAGRAMS

Actor and Use Case Description

Actor and use case description shows the detail description of interaction between the actors and their use cases. The description enables to have a proper understanding of how actor interacts with the system through their use cases.

Actor	Use Case	Use Case Description
Customer	Register as member	This use case describes the activities of the customer to register online and become a member. Customer's details are required as part of the registration. Customer chooses his login details by entering user name and password registration.

	Make reservation	This use case enable customer to search and make reservation. Non-register customer will be directed to register before their reservation can be confirmed. Notification is automatically send to the customer after the task is completed.
	Account management	This use case describes the event of customer setting his account and viewing his bookings.
	Give feedback And testimonies and subscription	This use case is used by the customer to provide feedbacks and Testimonies to the company; The user also subscribes to the news feeds to automatically get news on the available houses. a confirmation notification will be send to the customer once a feedback has been submitted.
Landlord	Add new House	This use case is used by the landlords to add new and vacant house for rent or sale to the company's fleet database. Landlord will needed to login to activate this use case.
	Update House details	This use case is used by the Landlord to edit and modify House details whenever there is new renewal (images, fees). It allows the company to keep up-to-date records of their fleet
	Reply to customer's feedback	This use case describes the event by which Landlords sends reply to customer's earlier feedback. It depends on `give feedback' use case from the customer.
	Process rental	This use case described the event by which landlord updates the system when customer take the house
Admin	Add new landlord	This use case describes the event by which Admin add new landlord detail to the company's landlord database. It is invoke whenever a new landlord join the company.
	View report	This use case is used by the Admin to view transaction report.
	Post House	This use case is used by admin to add/edit new house
	Manage pages	This use case allows admin to manage system pages by either adding,deleting or editing
	Manage Testimonies	This use case allows admin to view and manage Customers Testimonies
	Manage Bookings	This use case describes the event by which admin views and confirm house bookings from the customer and the send the customer a confirmation message

	Manage users	This use case allows admin to add, edit, delete new customer
	Manage County/State/Area	This use case allows admin to add, delete or edit county, state, area of the properties
	Manage listing Types	This use case describe how admin can add, delete or edit house listing Types
	Manage Subscribers	This use case allows admin to edit system subscribers.

Table: Actors and Use Case Description

Use Case Diagram

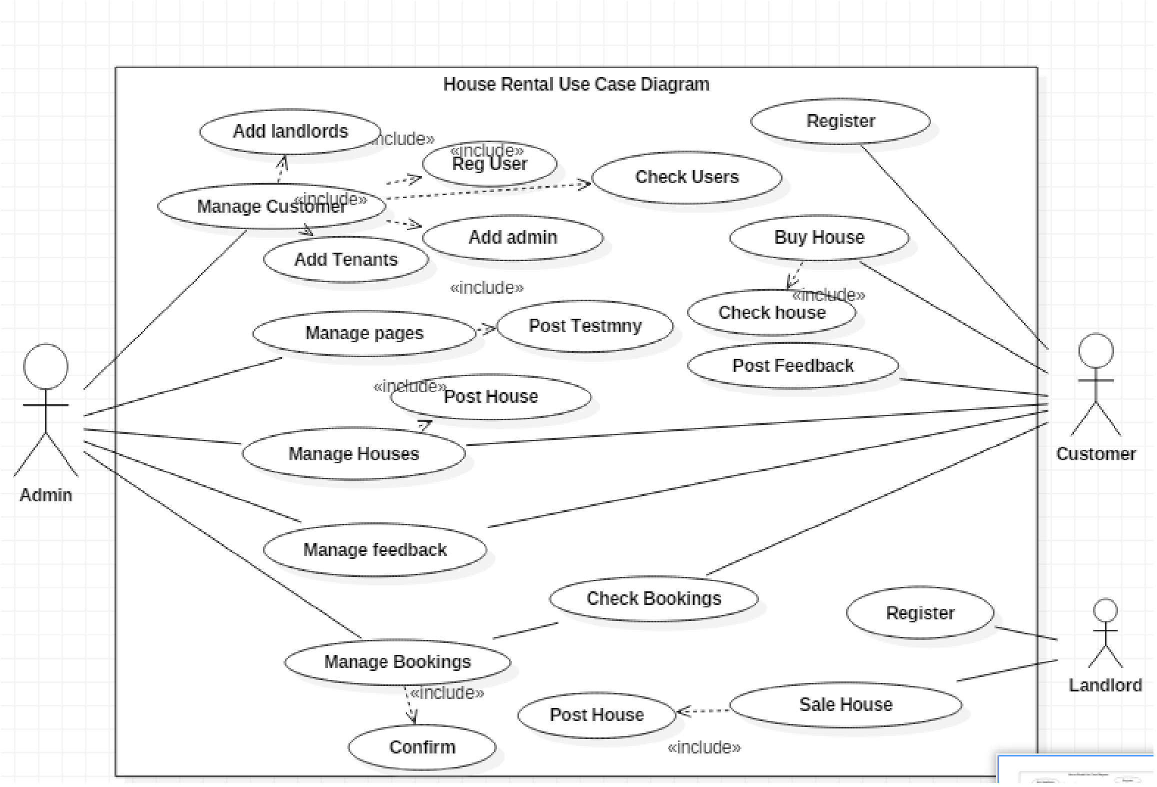


Figure 4: Use Case Diagram

Use-Case Dependency Diagram

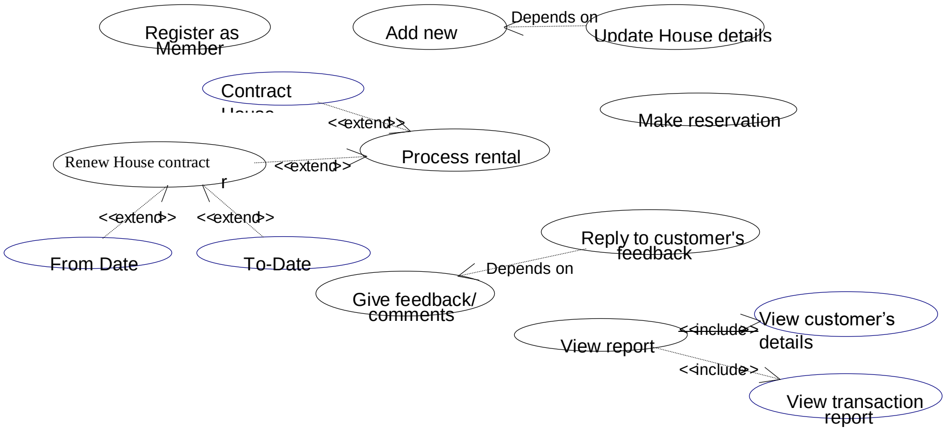


Figure 5Dependency Use Case Diagram

Class Diagram

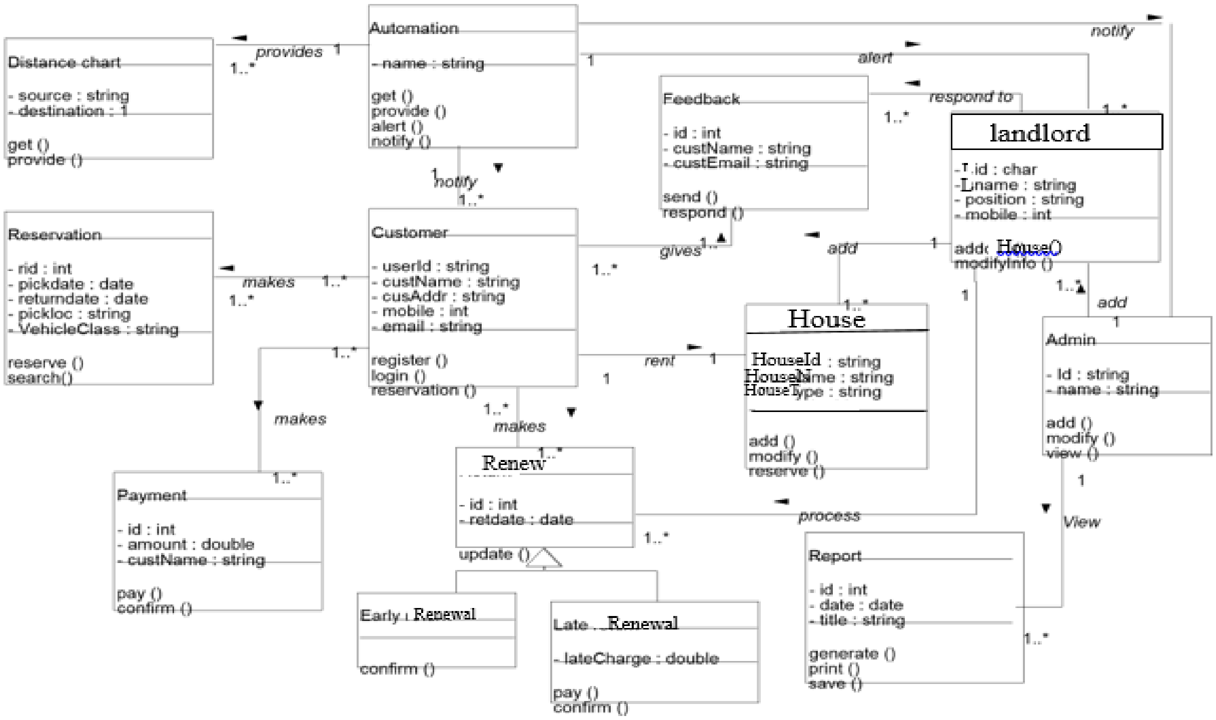
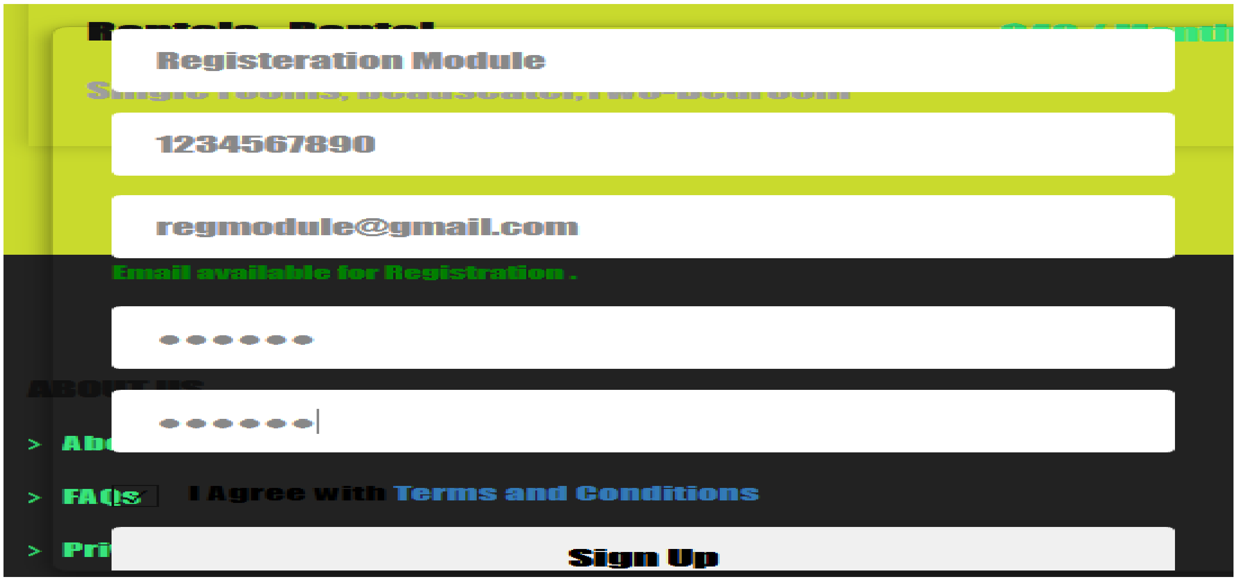


Figure 6 Class Diagram

CHAPTER FOUR
SYSTEM DESIGN

Tenant Registration Module

This module allows Tenants or the system users to register and log in in case they want to make any inqueries in the system



Registeration Module

1234567890

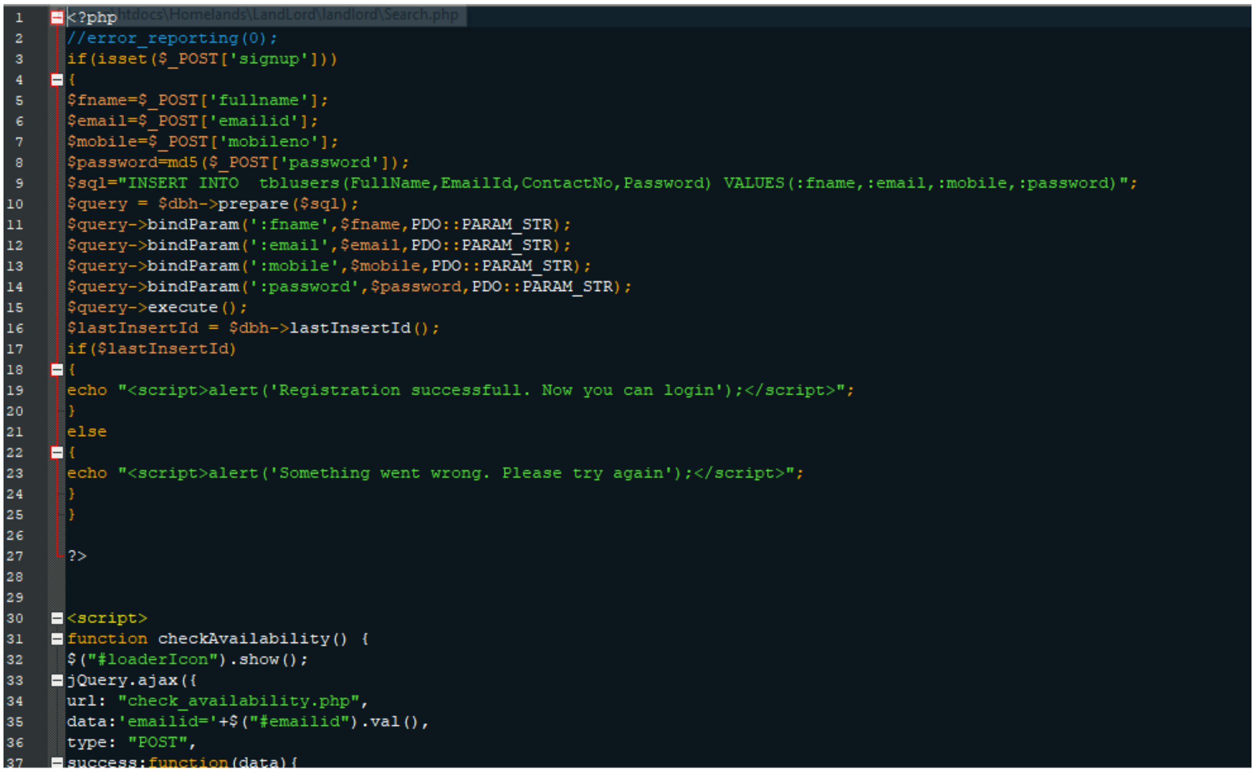
regmodule@gmail.com

Email available for Registration .

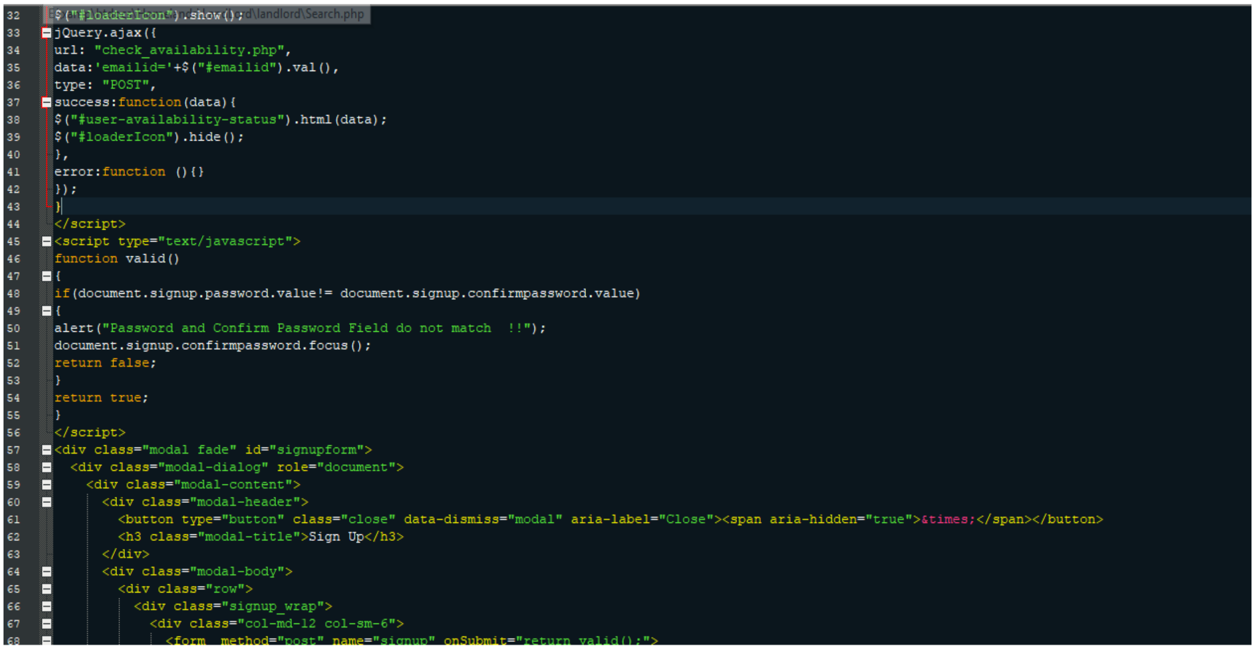
●●●●●●●

●●●●●●●

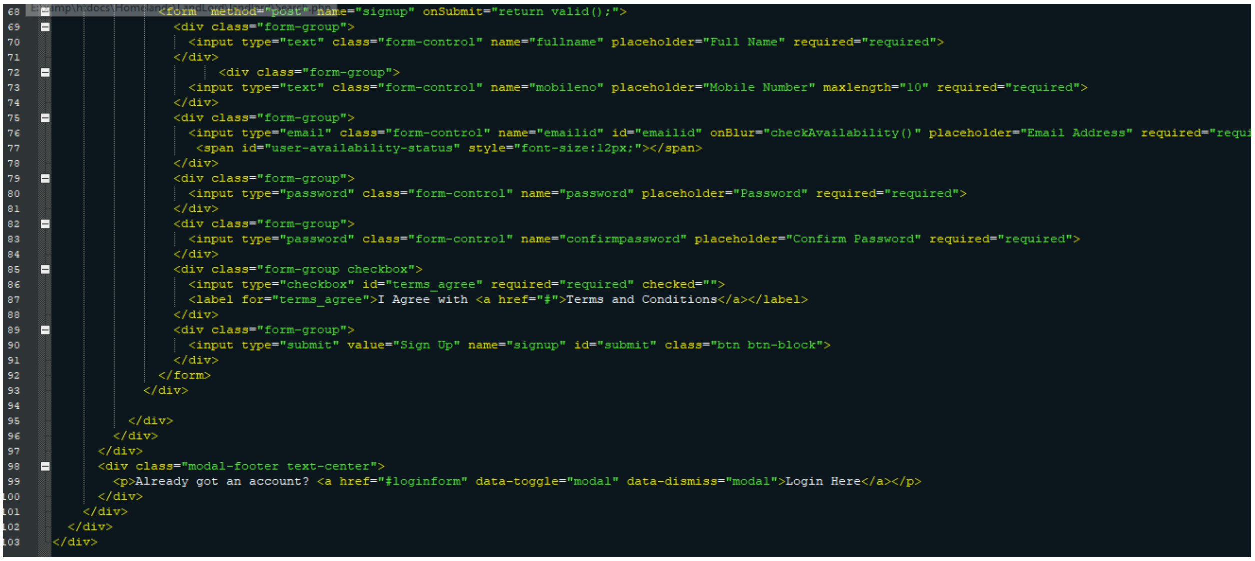
☑ I Agree with Terms and Conditions



```
<?php
//error_reporting(0);
if(isset($_POST['signup']))
{
$fname=$_POST['fullname'];
$email=$_POST['emailid'];
$mobile=$_POST['mobileno'];
$password=md5($_POST['password']);
$sql="INSERT INTO  tblusers(FullName,EmailId,ContactNo,Password) VALUES(:fname,:email,:mobile,:password)";
$query = $dbh->prepare($sql);
$query->bindParam(':fname',$fname,PDO::PARAM_STR);
$query->bindParam(':email',$email,PDO::PARAM_STR);
$query->bindParam(':mobile',$mobile,PDO::PARAM_STR);
$query->bindParam(':password',$password,PDO::PARAM_STR);
$query->execute();
$lastInsertId = $dbh->lastInsertId();
if($lastInsertId)
{
echo "<script>alert('Registration successfull. Now you can login');</script>";
}
else
{
echo "<script>alert('Something went wrong. Please try again');</script>";
}
}

?>


<script>
function checkAvailability() {
$("#loaderIcon").show();
jQuery.ajax({
url: "check_availability.php",
data:'emailid='+$("#emailid").val(),
type: "POST",
success:function(data){
```



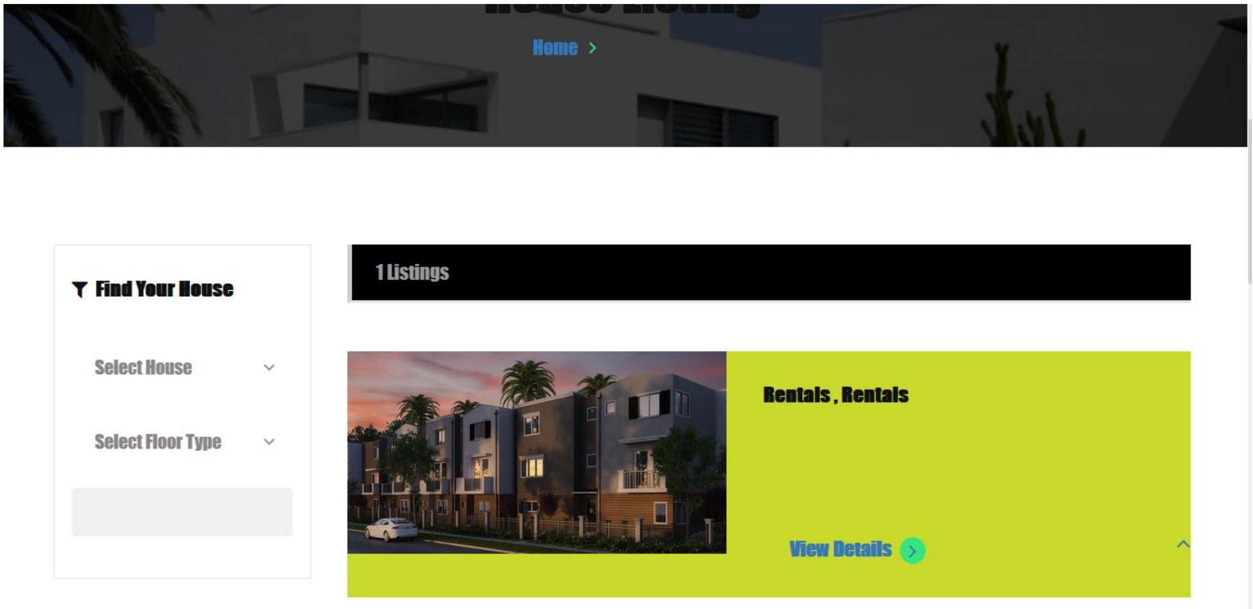
```
$("#loaderIcon").show();
jQuery.ajax({
url: "check_availability.php",
data:'emailid='+$("#emailid").val(),
type: "POST",
success:function(data){
$("#user-availability-status").html(data);
$("#loaderIcon").hide();
},
error:function (){}
});
}
</script>
<script type="text/javascript">
function valid()
{
if(document.signup.password.value!= document.signup.confirmpassword.value)
{
alert("Password and Confirm Password Field do not match  !!");
document.signup.confirmpassword.focus();
return false;
}
return true;
}
</script>
<div class="modal fade" id="signupform">
  <div class="modal-dialog" role="document">
    <div class="modal-content">
      <div class="modal-header">
        <button type="button" class="close" data-dismiss="modal" aria-label="Close"><span aria-hidden="true">&times;</span></button>
        <h3 class="modal-title">Sign Up</h3>
      </div>
      <div class="modal-body">
        <div class="row">
          <div class="signup_wrap">
            <div class="col-md-12 col-sm-6">
              <form  method="post" name="signup" onSubmit="return valid();">
```

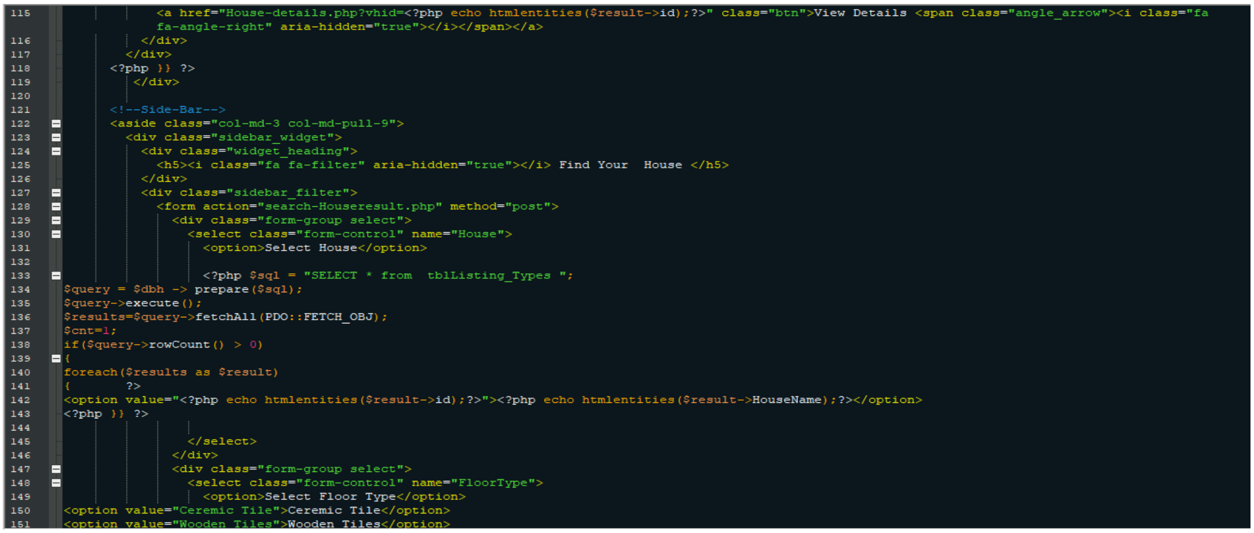


```
              <form  method="post" name="signup" onSubmit="return valid();">
                <div class="form-group">
                  <input type="text" class="form-control" name="fullname" placeholder="Full Name" required="required">
                </div>
                      <div class="form-group">
                  <input type="text" class="form-control" name="mobileno" placeholder="Mobile Number" maxlength="10" required="required">
                </div>
                <div class="form-group">
                  <input type="email" class="form-control" name="emailid" id="emailid" onBlur="checkAvailability()" placeholder="Email Address" required="requi
                   <span id="user-availability-status" style="font-size:12px;"></span>
                </div>
                <div class="form-group">
                  <input type="password" class="form-control" name="password" placeholder="Password" required="required">
                </div>
                <div class="form-group">
                  <input type="password" class="form-control" name="confirmpassword" placeholder="Confirm Password" required="required">
                </div>
                <div class="form-group checkbox">
                  <input type="checkbox" id="terms_agree" required="required" checked="">
                  <label for="terms_agree">I Agree with <a href="#">Terms and Conditions</a></label>
                </div>
                <div class="form-group">
                  <input type="submit" value="Sign Up" name="signup" id="submit" class="btn btn-block">
                </div>
              </form>
            </div>

          </div>
        </div>
      </div>
      <div class="modal-footer text-center">
        <p>Already got an account? <a href="#loginform" data-toggle="modal" data-dismiss="modal">Login Here</a></p>
      </div>
    </div>
  </div>
</div>
```

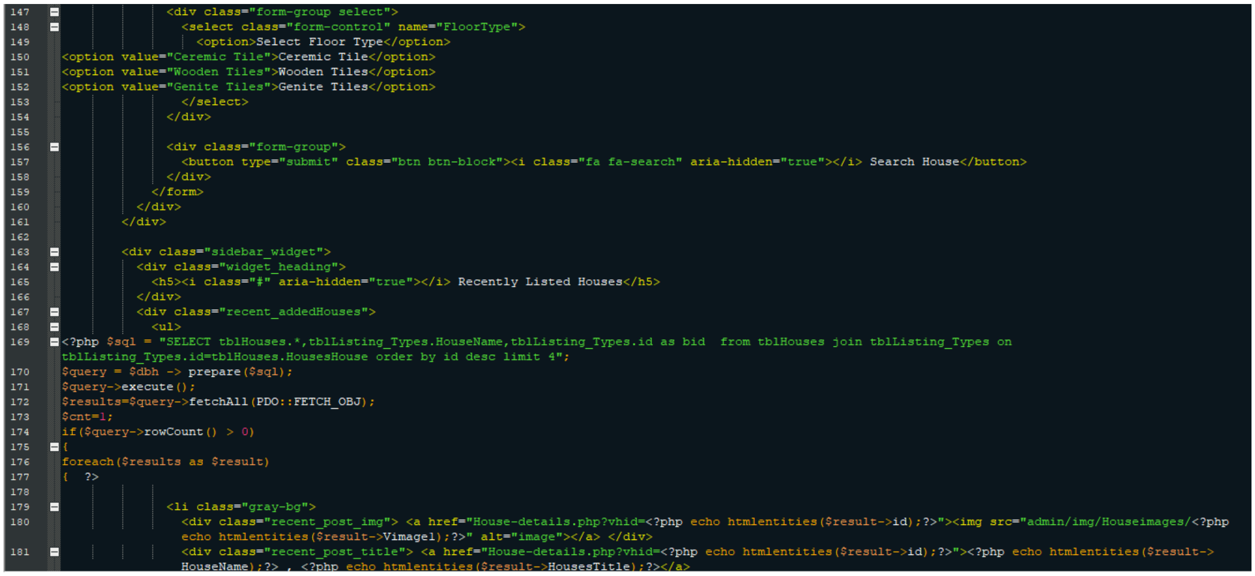
House Listing Module

This module allows the system the system to query the uploaded Houses or property and display them in the web portal page called house listing

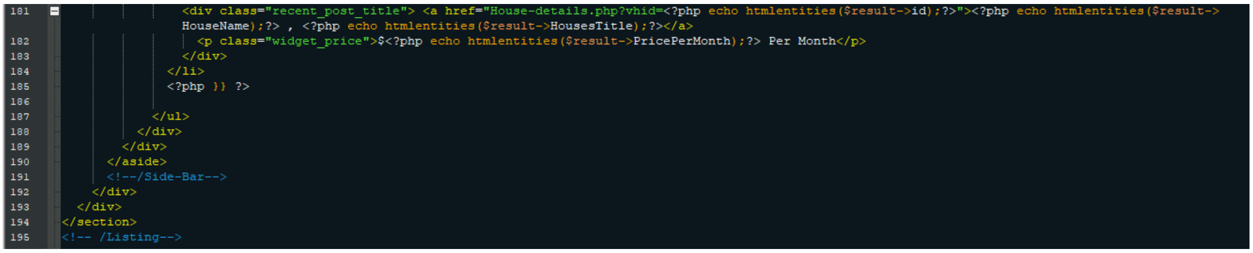




```
                <a href="House-details.php?vhid=<?php echo htmlentities($result->id);?>" class="btn">View Details <span class="angle_arrow"><i class="fa
                fa-angle-right" aria-hidden="true"></i></span></a>
              </div>
            </div>
          <?php }} ?>
            </div>

          <!--Side-Bar-->
          <aside class="col-md-3 col-md-pull-9">
            <div class="sidebar_widget">
              <div class="widget_heading">
                <h5><i class="fa fa-filter" aria-hidden="true"></i> Find Your  House </h5>
              </div>
              <div class="sidebar_filter">
                <form action="search-Houseresult.php" method="post">
                  <div class="form-group select">
                    <select class="form-control" name="House">
                      <option>Select House</option>

                      <?php $sql = "SELECT * from  tblListing_Types ";
$query = $dbh -> prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
$cnt=1;
if($query->rowCount() > 0)
{
foreach($results as $result)
{       ?>
<option value="<?php echo htmlentities($result->id);?>"><?php echo htmlentities($result->HouseName);?></option>
<?php }} ?>

                    </select>
                  </div>
                  <div class="form-group select">
                    <select class="form-control" name="FloorType">
                      <option>Select Floor Type</option>
<option value="Ceremic Tile">Ceremic Tile</option>
<option value="Wooden Tiles">Wooden Tiles</option>
```



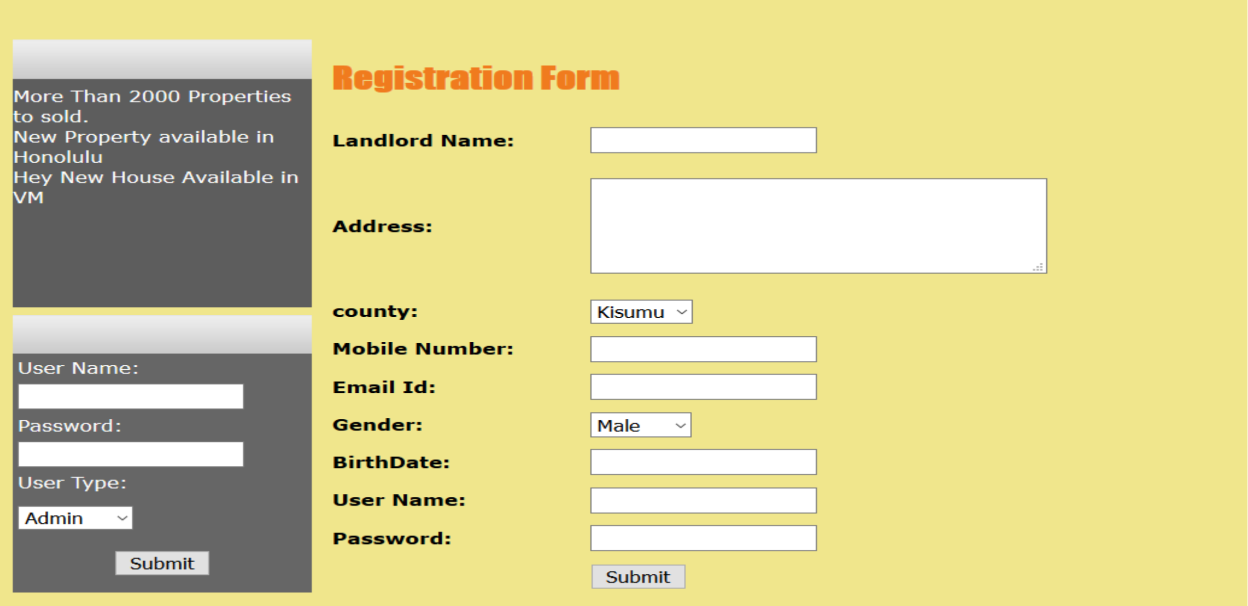
```
                  <div class="form-group select">
                    <select class="form-control" name="FloorType">
                      <option>Select Floor Type</option>
<option value="Ceremic Tile">Ceremic Tile</option>
<option value="Wooden Tiles">Wooden Tiles</option>
<option value="Genite Tiles">Genite Tiles</option>
                    </select>
                  </div>

                  <div class="form-group">
                    <button type="submit" class="btn btn-block"><i class="fa fa-search" aria-hidden="true"></i> Search House</button>
                  </div>
                </form>
              </div>
            </div>

            <div class="sidebar_widget">
              <div class="widget_heading">
                <h5><i class="#" aria-hidden="true"></i> Recently Listed Houses</h5>
              </div>
              <div class="recent_addedHouses">
                <ul>
<?php $sql = "SELECT tblHouses.*,tblListing_Types.HouseName,tblListing_Types.id as bid  from tblHouses join tblListing_Types on
tblListing_Types.id=tblHouses.HousesHouse order by id desc limit 4";
$query = $dbh -> prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
$cnt=1;
if($query->rowCount() > 0)
{
foreach($results as $result)
{   ?>

                  <li class="gray-bg">
                    <div class="recent_post_img"> <a href="House-details.php?vhid=<?php echo htmlentities($result->id);?>"><img src="admin/img/Houseimages/<?php
                    echo htmlentities($result->Vimage1);?>" alt="image"></a> </div>
                    <div class="recent_post_title"> <a href="House-details.php?vhid=<?php echo htmlentities($result->id);?>"><?php echo htmlentities($result->
                    HouseName);?> , <?php echo htmlentities($result->HousesTitle);?></a>
```



```
                <div class="recent_post_title"> <a href="House-details.php?vhid=<?php echo htmlentities($result->id);?>"><?php echo htmlentities($result->
                HouseName);?> , <?php echo htmlentities($result->HousesTitle);?></a>
                  <p class="widget_price">$<?php echo htmlentities($result->PricePerMonth);?> Per Month</p>
                </div>
              </li>
              <?php }} ?>

            </ul>
          </div>
        </div>
      </aside>
      <!--/Side-Bar-->
    </div>
  </div>
</section>
<!-- /Listing-->
```

LANDLORD REGISTRATION MODULE

This module allows property owners or landlords to register or log in incase the want to post their properties in the system without contacting system administrator to do it.



More Than 2000 Properties to sold.
New Property available in Honolulu
Hey New House Available in VM

User Name:

Password:

User Type: Admin

Submit

Registration Form

Landlord Name:

Address:

county: Kisumu

Mobile Number:

Email Id:

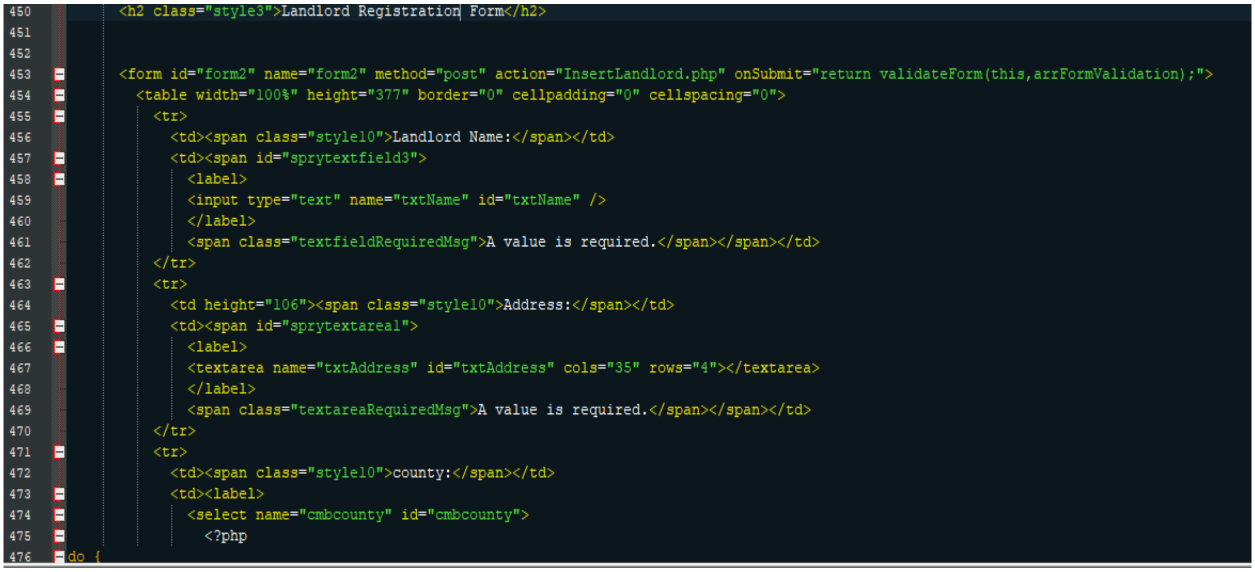
Gender: Male

BirthDate:

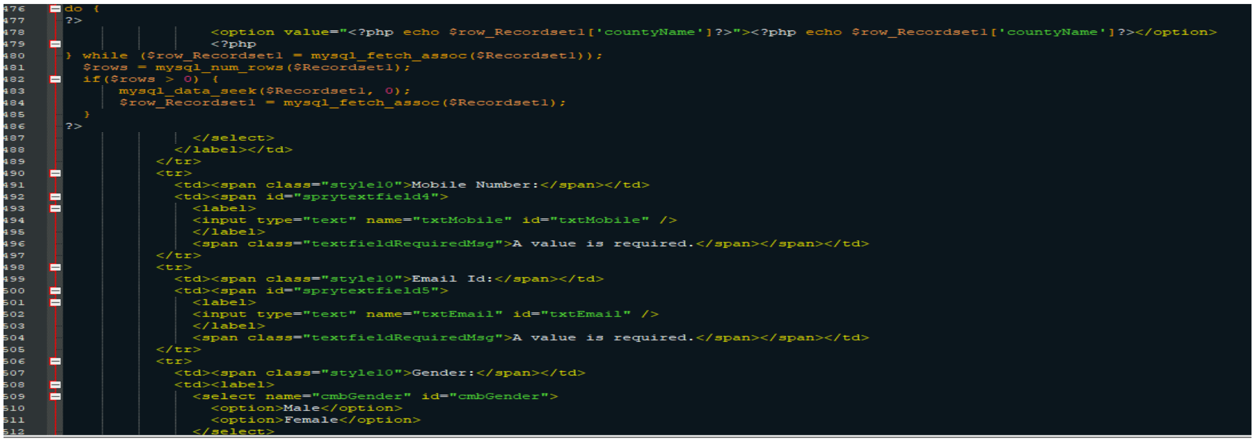
User Name:

Password:

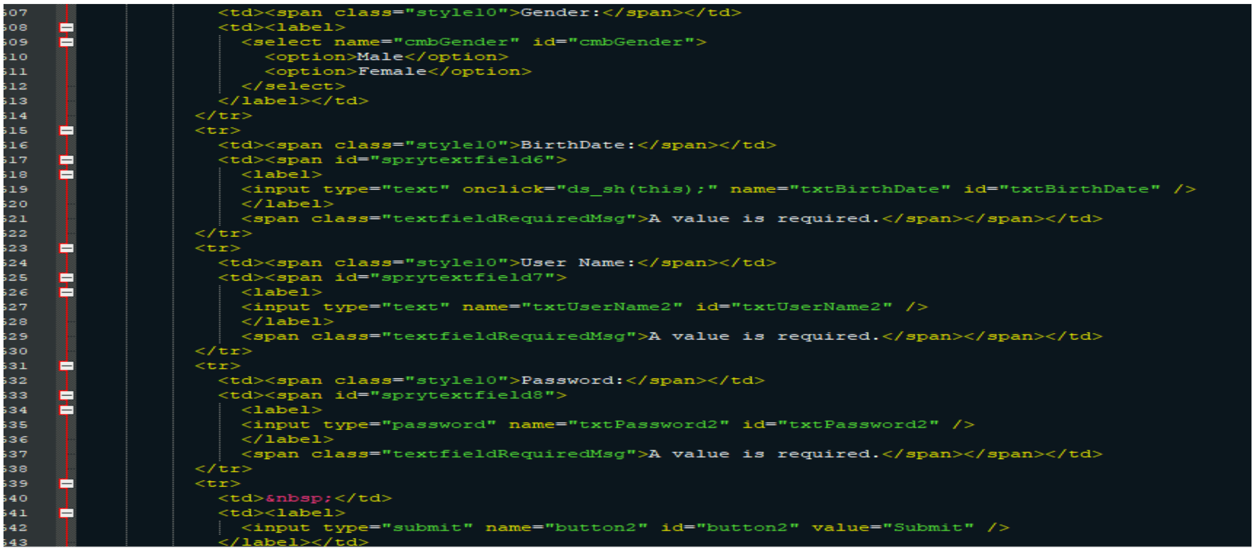
Submit



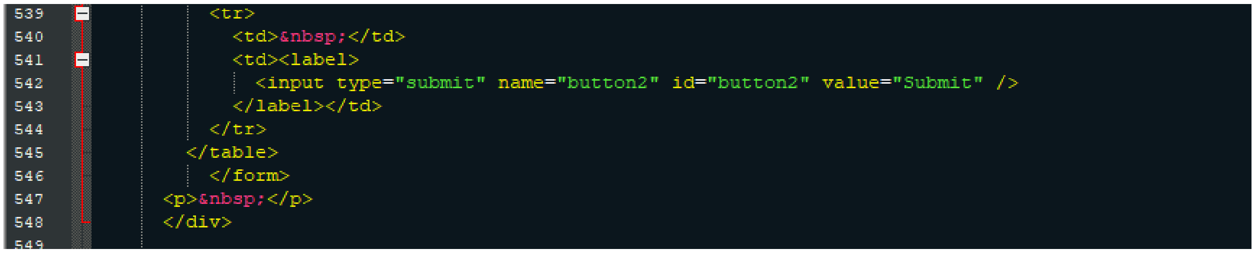
```
   <h2 class="style3">Landlord Registration Form</h2>


   <form id="form2" name="form2" method="post" action="InsertLandlord.php" onSubmit="return validateForm(this,arrFormValidation);">
    <table width="100%" height="377" border="0" cellpadding="0" cellspacing="0">
     <tr>
      <td><span class="style10">Landlord Name:</span></td>
      <td><span id="sprytextfield3">
       <label>
       <input type="text" name="txtName" id="txtName" />
       </label>
       <span class="textfieldRequiredMsg">A value is required.</span></span></td>
     </tr>
     <tr>
      <td height="106"><span class="style10">Address:</span></td>
      <td><span id="sprytextarea1">
       <label>
       <textarea name="txtAddress" id="txtAddress" cols="35" rows="4"></textarea>
       </label>
       <span class="textareaRequiredMsg">A value is required.</span></span></td>
     </tr>
     <tr>
      <td><span class="style10">county:</span></td>
      <td><label>
       <select name="cmbcounty" id="cmbcounty">
        <?php
do {
```



```
do {
?>
                <option value="<?php echo $row_Recordset1['countyName']?>"><?php echo $row_Recordset1['countyName']?></option>
                <?php
} while ($row_Recordset1 = mysql_fetch_assoc($Recordset1));
  $rows = mysql_num_rows($Recordset1);
  if($rows > 0) {
      mysql_data_seek($Recordset1, 0);
      $row_Recordset1 = mysql_fetch_assoc($Recordset1);
  }
?>
              </select>
            </label></td>
          </tr>
          <tr>
            <td><span class="style10">Mobile Number:</span></td>
            <td><span id="sprytextfield4">
              <label>
              <input type="text" name="txtMobile" id="txtMobile" />
              </label>
              <span class="textfieldRequiredMsg">A value is required.</span></span></td>
          </tr>
          <tr>
            <td><span class="style10">Email Id:</span></td>
            <td><span id="sprytextfield5">
              <label>
              <input type="text" name="txtEmail" id="txtEmail" />
              </label>
              <span class="textfieldRequiredMsg">A value is required.</span></span></td>
          </tr>
          <tr>
            <td><span class="style10">Gender:</span></td>
            <td><label>
              <select name="cmbGender" id="cmbGender">
                <option>Male</option>
                <option>Female</option>
              </select>
```



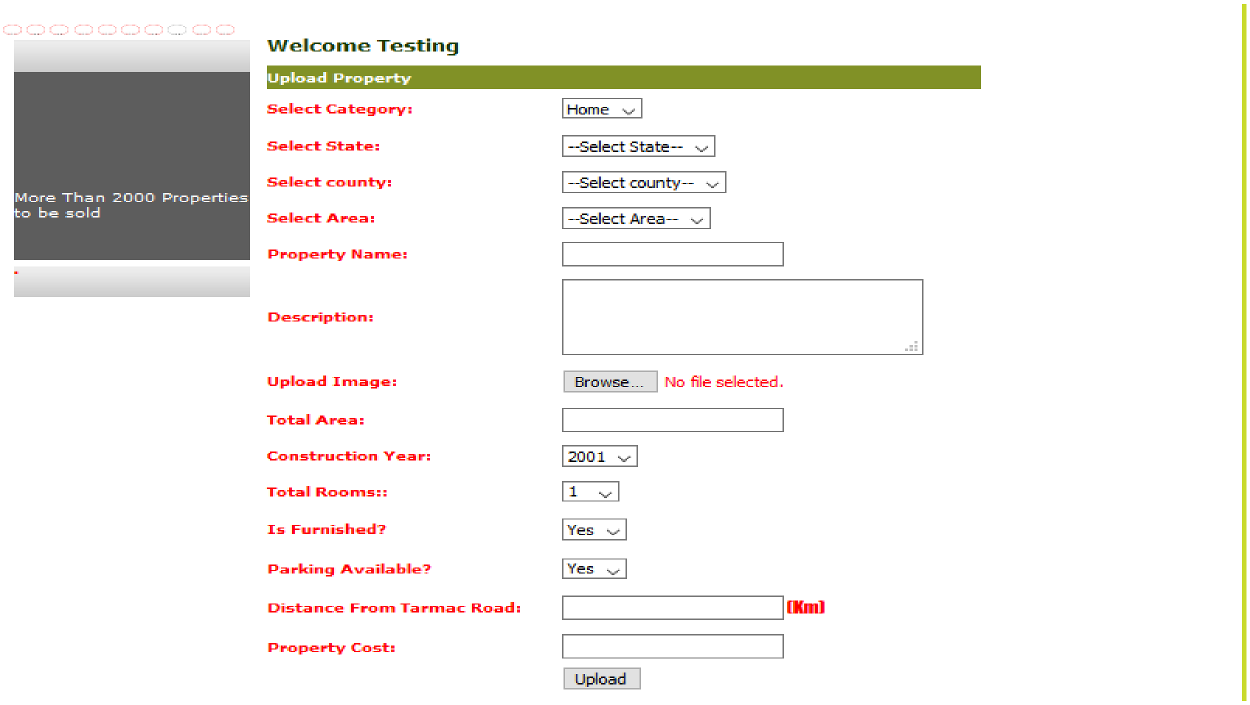
```
            <td><span class="style10">Gender:</span></td>
            <td><label>
              <select name="cmbGender" id="cmbGender">
                <option>Male</option>
                <option>Female</option>
              </select>
            </label></td>
          </tr>
          <tr>
            <td><span class="style10">BirthDate:</span></td>
            <td><span id="sprytextfield6">
              <label>
              <input type="text" onclick="ds_sh(this);" name="txtBirthDate" id="txtBirthDate" />
              </label>
              <span class="textfieldRequiredMsg">A value is required.</span></span></td>
          </tr>
          <tr>
            <td><span class="style10">User Name:</span></td>
            <td><span id="sprytextfield7">
              <label>
              <input type="text" name="txtUserName2" id="txtUserName2" />
              </label>
              <span class="textfieldRequiredMsg">A value is required.</span></span></td>
          </tr>
          <tr>
            <td><span class="style10">Password:</span></td>
            <td><span id="sprytextfield8">
              <label>
              <input type="password" name="txtPassword2" id="txtPassword2" />
              </label>
              <span class="textfieldRequiredMsg">A value is required.</span></span></td>
          </tr>
          <tr>
            <td>&nbsp;</td>
            <td><label>
              <input type="submit" name="button2" id="button2" value="Submit" />
            </label></td>
```



```
          <tr>
            <td>&nbsp;</td>
            <td><label>
              <input type="submit" name="button2" id="button2" value="Submit" />
            </label></td>
          </tr>
        </table>
          </form>
      <p>&nbsp;</p>
      </div>
```

SALE HOUSE MODULE

This module allows Landlord to post a property in the system after successful registration or login.

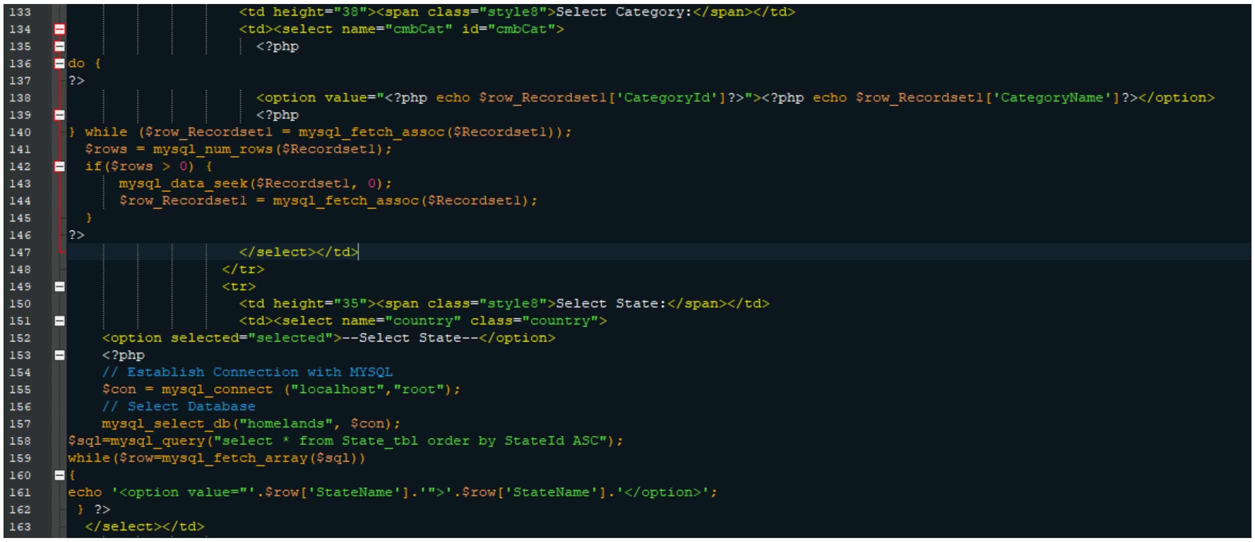


More Than 2000 Properties to be sold

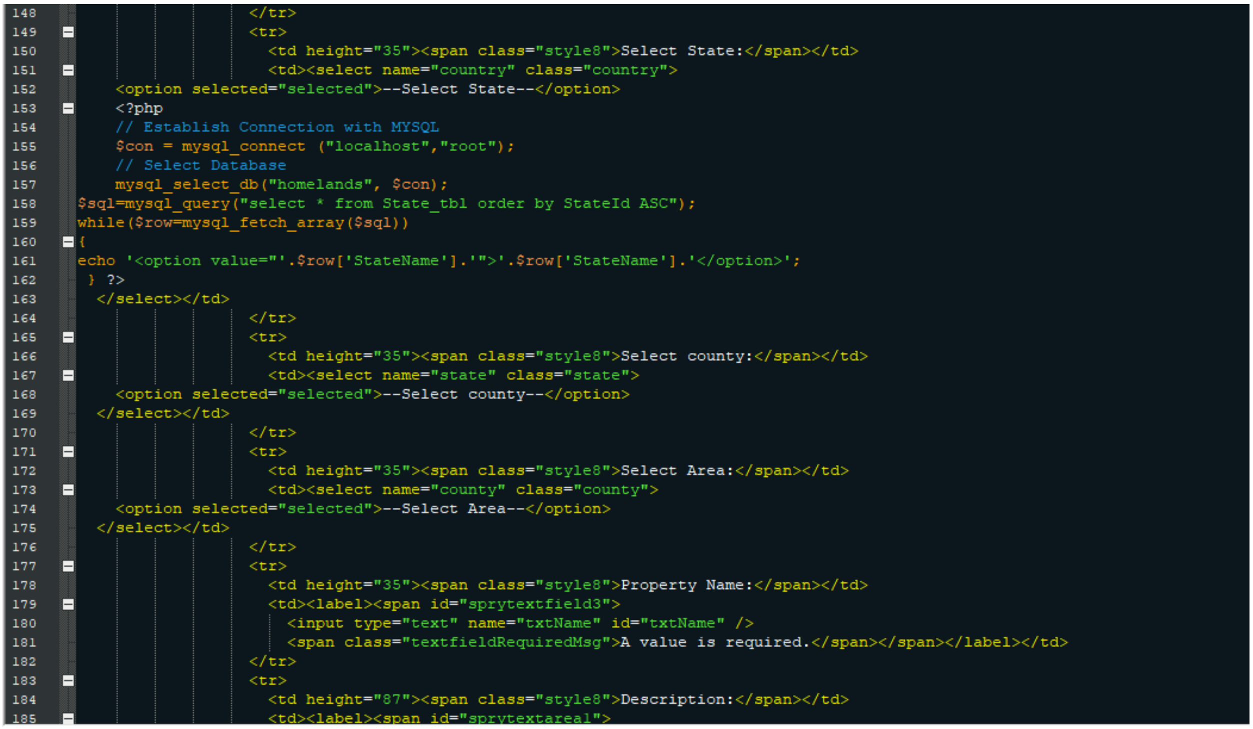
Welcome Testing

Upload Property

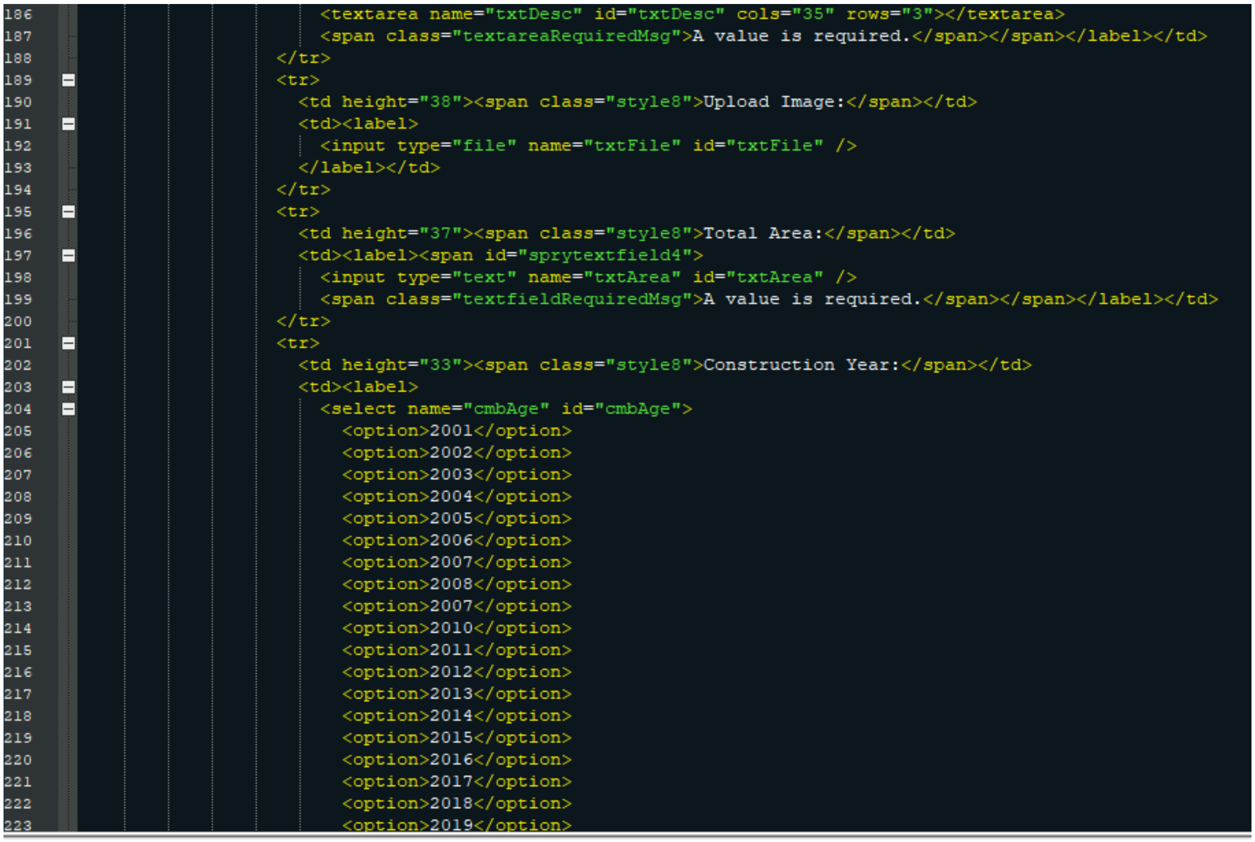
Select Category:	Home
Select State:	--Select State--
Select county:	--Select county--
Select Area:	--Select Area--
Property Name:	
Description:	
Upload Image:	Browse... No file selected.
Total Area:	
Construction Year:	2001
Total Rooms::	1
Is Furnished?	Yes
Parking Available?	Yes
Distance From Tarmac Road:	(Km)
Property Cost:	
	Upload



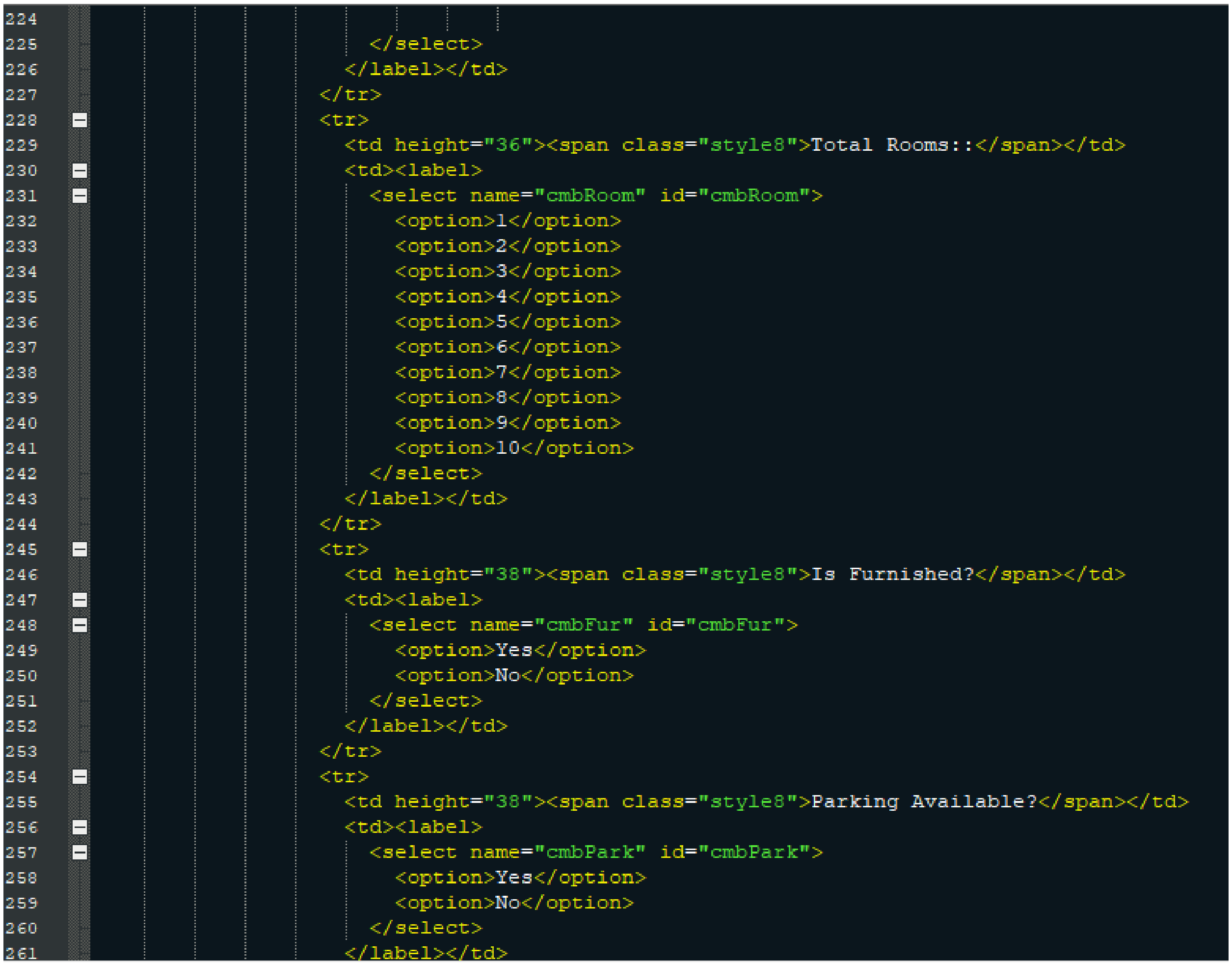
```
                    <td height="38"><span class="style8">Select Category:</span></td>
                    <td><select name="cmbCat" id="cmbCat">
                      <?php
do {
?>
                      <option value="<?php echo $row_Recordset1['CategoryId']?>"><?php echo $row_Recordset1['CategoryName']?></option>
                      <?php
} while ($row_Recordset1 = mysql_fetch_assoc($Recordset1));
  $rows = mysql_num_rows($Recordset1);
  if($rows > 0) {
      mysql_data_seek($Recordset1, 0);
      $row_Recordset1 = mysql_fetch_assoc($Recordset1);
  }
?>
                    </select></td>
                  </tr>
                  <tr>
                    <td height="35"><span class="style8">Select State:</span></td>
                    <td><select name="country" class="country">
    <option selected="selected">--Select State--</option>
    <?php
    // Establish Connection with MYSQL
    $con = mysql_connect ("localhost","root");
    // Select Database
    mysql_select_db("homelands", $con);
$sql=mysql_query("select * from State_tbl order by StateId ASC");
while($row=mysql_fetch_array($sql))
{
echo '<option value="'.$row['StateName'].'">'.$row['StateName'].'</option>';
 } ?>
  </select></td>
```



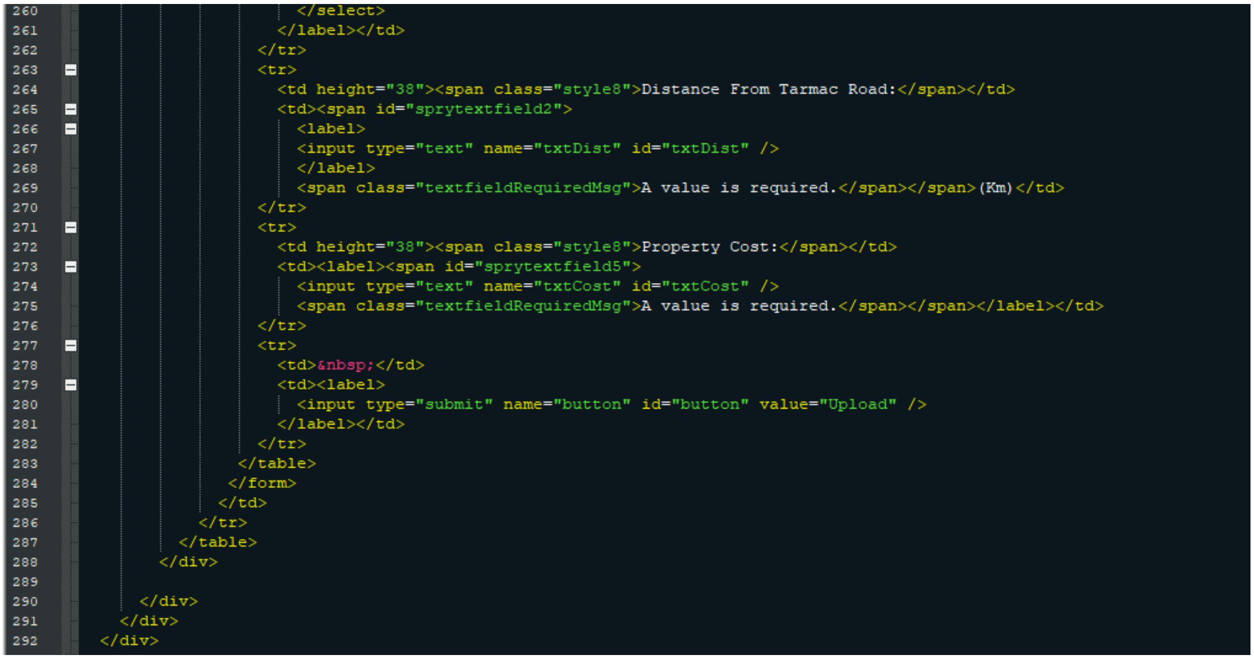
```
                  </tr>
                  <tr>
                    <td height="35"><span class="style8">Select State:</span></td>
                    <td><select name="country" class="country">
    <option selected="selected">--Select State--</option>
    <?php
    // Establish Connection with MYSQL
    $con = mysql_connect ("localhost","root");
    // Select Database
    mysql_select_db("homelands", $con);
$sql=mysql_query("select * from State_tbl order by StateId ASC");
while($row=mysql_fetch_array($sql))
{
echo '<option value="'.$row['StateName'].'">'.$row['StateName'].'</option>';
 } ?>
  </select></td>
                  </tr>
                  <tr>
                    <td height="35"><span class="style8">Select county:</span></td>
                    <td><select name="state" class="state">
    <option selected="selected">--Select county--</option>
  </select></td>
                  </tr>
                  <tr>
                    <td height="35"><span class="style8">Select Area:</span></td>
                    <td><select name="county" class="county">
    <option selected="selected">--Select Area--</option>
  </select></td>
                  </tr>
                  <tr>
                    <td height="35"><span class="style8">Property Name:</span></td>
                    <td><label><span id="sprytextfield3">
                      <input type="text" name="txtName" id="txtName" />
                      <span class="textfieldRequiredMsg">A value is required.</span></span></label></td>
                  </tr>
                  <tr>
                    <td height="87"><span class="style8">Description:</span></td>
                    <td><label><span id="sprytextarea1">
```



```
                      <textarea name="txtDesc" id="txtDesc" cols="35" rows="3"></textarea>
                      <span class="textareaRequiredMsg">A value is required.</span></span></label></td>
                  </tr>
                  <tr>
                    <td height="38"><span class="style8">Upload Image:</span></td>
                    <td><label>
                      <input type="file" name="txtFile" id="txtFile" />
                    </label></td>
                  </tr>
                  <tr>
                    <td height="37"><span class="style8">Total Area:</span></td>
                    <td><label><span id="sprytextfield4">
                      <input type="text" name="txtArea" id="txtArea" />
                      <span class="textfieldRequiredMsg">A value is required.</span></span></label></td>
                  </tr>
                  <tr>
                    <td height="33"><span class="style8">Construction Year:</span></td>
                    <td><label>
                      <select name="cmbAge" id="cmbAge">
                        <option>2001</option>
                        <option>2002</option>
                        <option>2003</option>
                        <option>2004</option>
                        <option>2005</option>
                        <option>2006</option>
                        <option>2007</option>
                        <option>2008</option>
                        <option>2007</option>
                        <option>2010</option>
                        <option>2011</option>
                        <option>2012</option>
                        <option>2013</option>
                        <option>2014</option>
                        <option>2015</option>
                        <option>2016</option>
                        <option>2017</option>
                        <option>2018</option>
                        <option>2019</option>
```



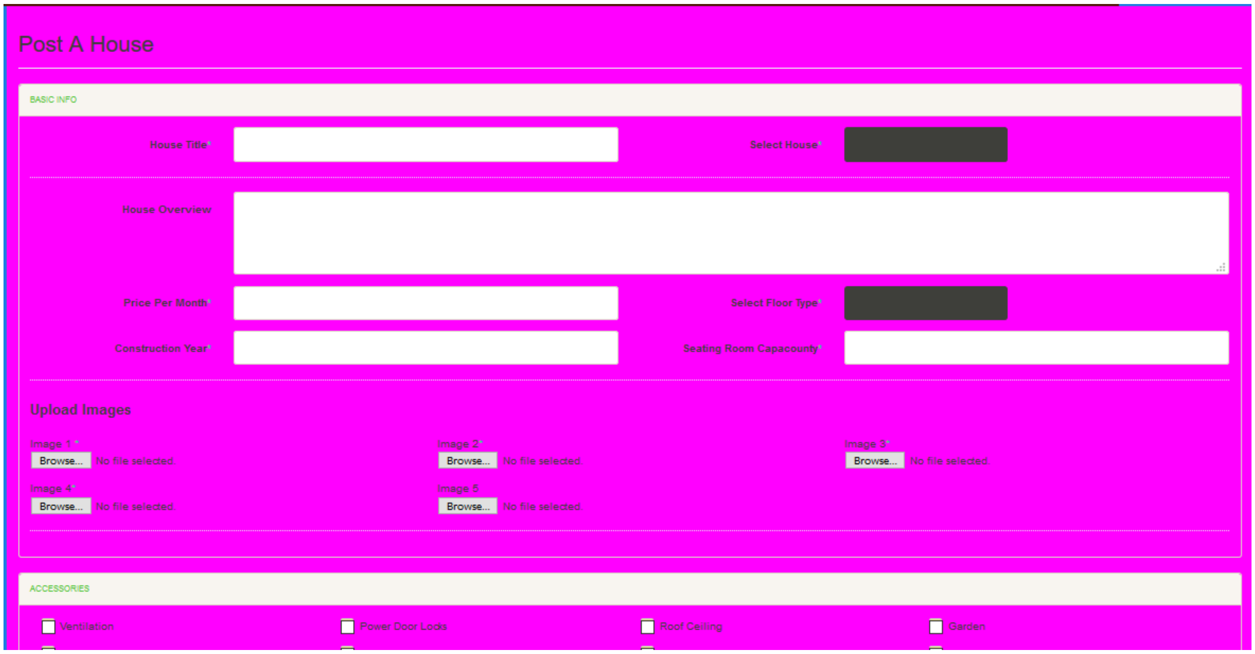
```html

                    </select>
                  </label></td>
                </tr>
                <tr>
                  <td height="36"><span class="style8">Total Rooms::</span></td>
                  <td><label>
                    <select name="cmbRoom" id="cmbRoom">
                      <option>1</option>
                      <option>2</option>
                      <option>3</option>
                      <option>4</option>
                      <option>5</option>
                      <option>6</option>
                      <option>7</option>
                      <option>8</option>
                      <option>9</option>
                      <option>10</option>
                    </select>
                  </label></td>
                </tr>
                <tr>
                  <td height="38"><span class="style8">Is Furnished?</span></td>
                  <td><label>
                    <select name="cmbFur" id="cmbFur">
                      <option>Yes</option>
                      <option>No</option>
                    </select>
                  </label></td>
                </tr>
                <tr>
                  <td height="38"><span class="style8">Parking Available?</span></td>
                  <td><label>
                    <select name="cmbPark" id="cmbPark">
                      <option>Yes</option>
                      <option>No</option>
                    </select>
                  </label></td>
```



```html
                    </select>
                  </label></td>
                </tr>
                <tr>
                  <td height="38"><span class="style8">Distance From Tarmac Road:</span></td>
                  <td><span id="sprytextfield2">
                    <label>
                    <input type="text" name="txtDist" id="txtDist" />
                    </label>
                    <span class="textfieldRequiredMsg">A value is required.</span></span>(Km)</td>
                </tr>
                <tr>
                  <td height="38"><span class="style8">Property Cost:</span></td>
                  <td><label><span id="sprytextfield5">
                    <input type="text" name="txtCost" id="txtCost" />
                    <span class="textfieldRequiredMsg">A value is required.</span></span></label></td>
                </tr>
                <tr>
                  <td>&nbsp;</td>
                  <td><label>
                    <input type="submit" name="button" id="button" value="Upload" />
                  </label></td>
                </tr>
              </table>
             </form>
            </td>
          </tr>
        </table>
      </div>

    </div>
  </div>
</div>
```

POST HOUSE

This module allows System administrator to mange by editing ,adding or posting a new house



Post A House

BASIC INFO

House Title*

Select House*

House Overview

Price Per Month*

Select Floor Type*

Construction Year*

Seating Room Capacounty*

Upload Images

Image 1 *
Browse... No file selected.

Image 2*
Browse... No file selected.

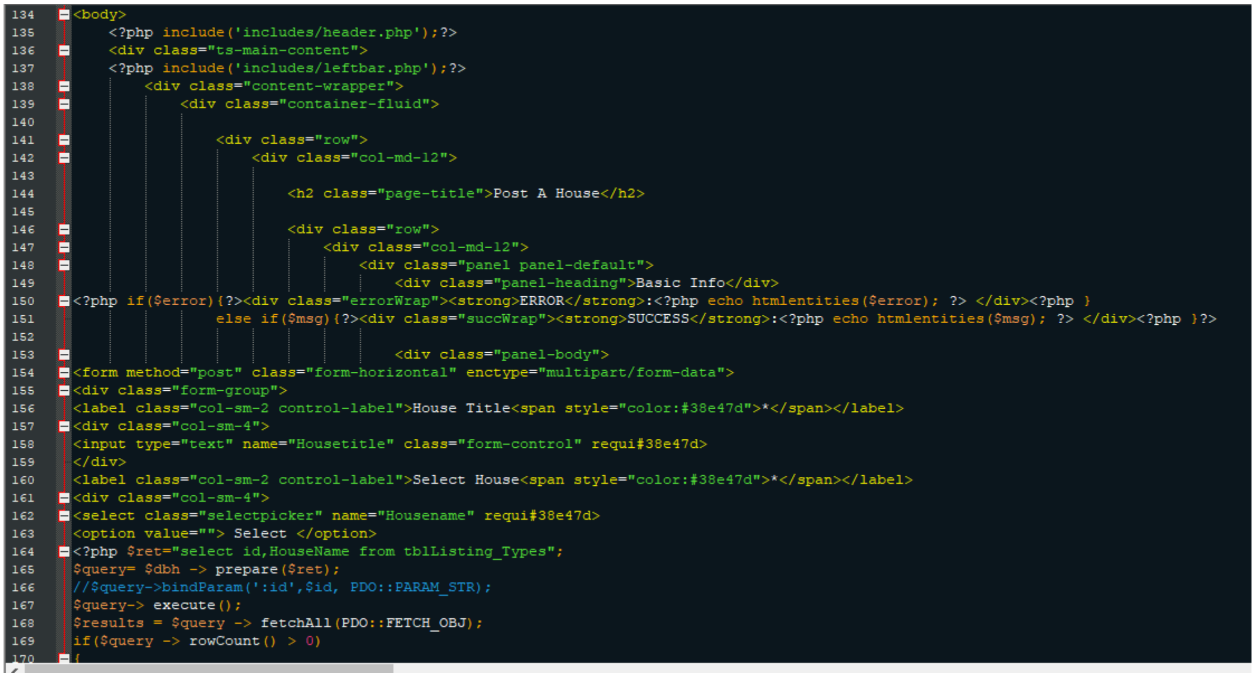
Image 3*
Browse... No file selected.

Image 4*
Browse... No file selected.

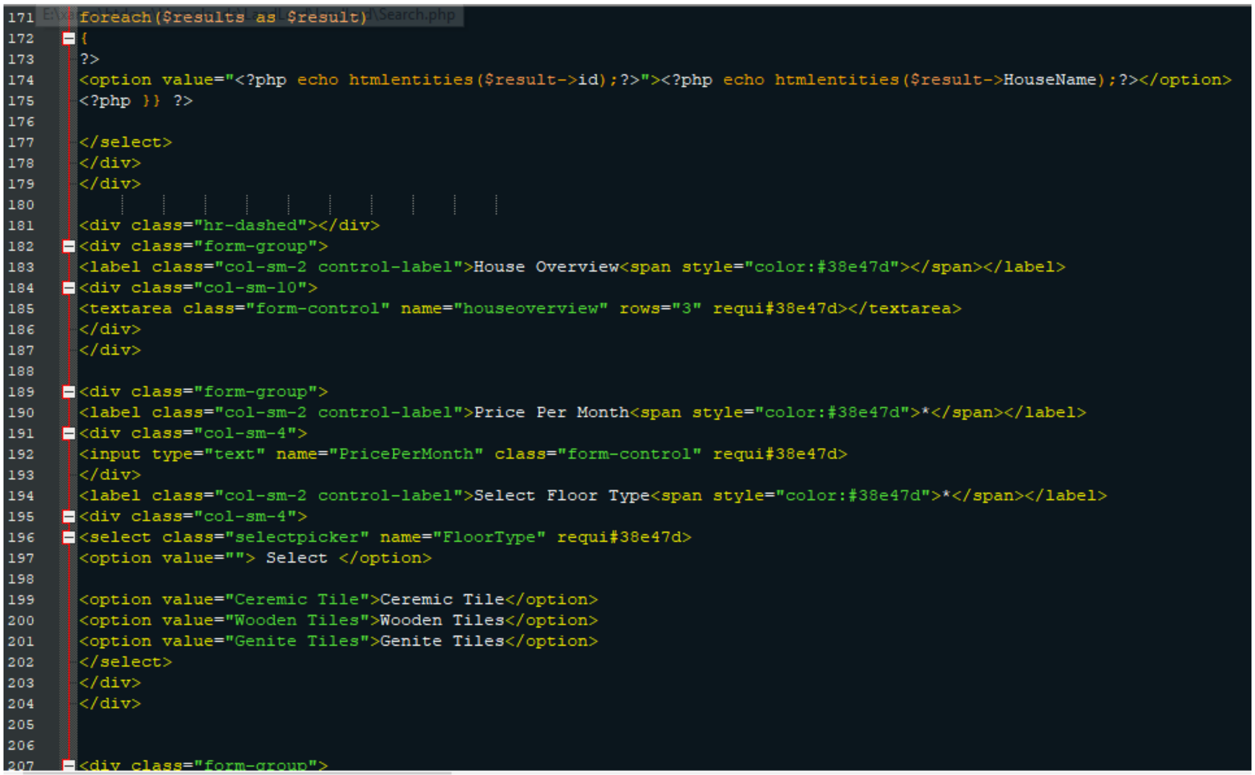
Image 5
Browse... No file selected.

ACCESSORIES

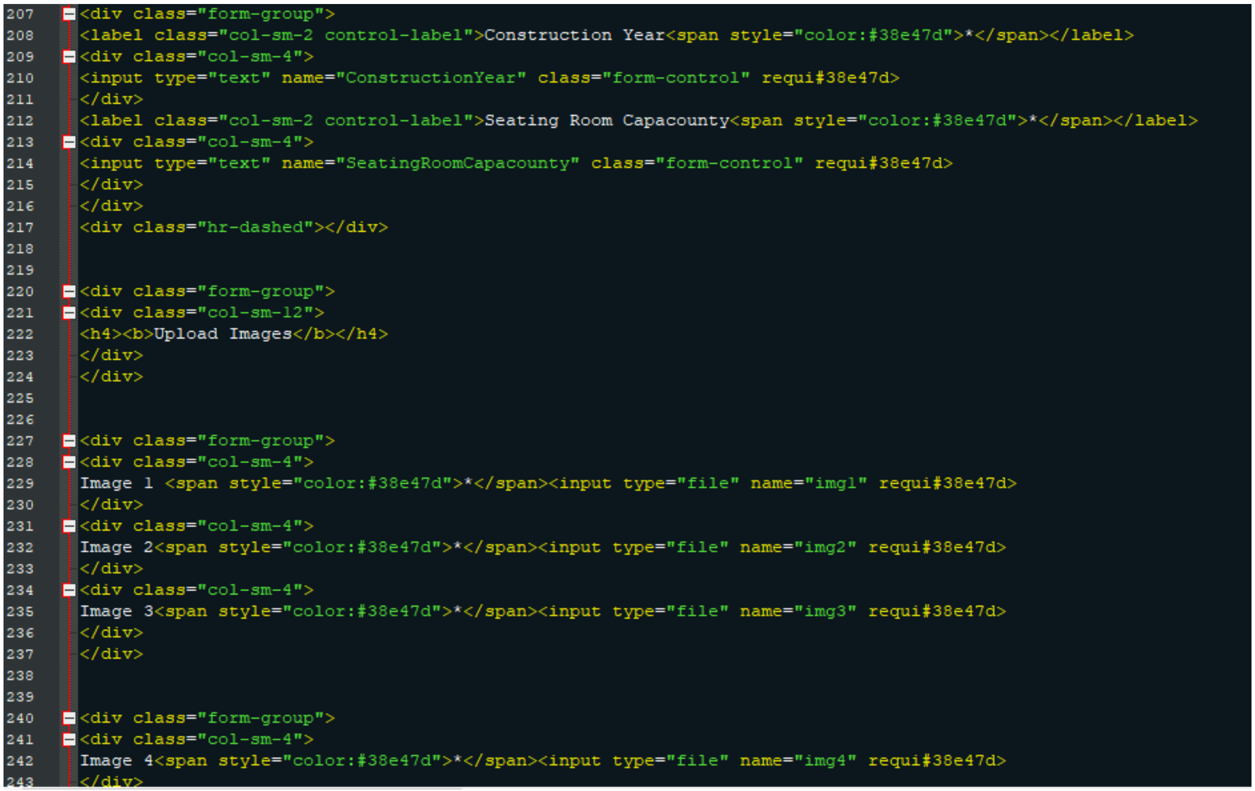
□ Ventilation □ Power Door Locks □ Roof Ceiling □ Garden



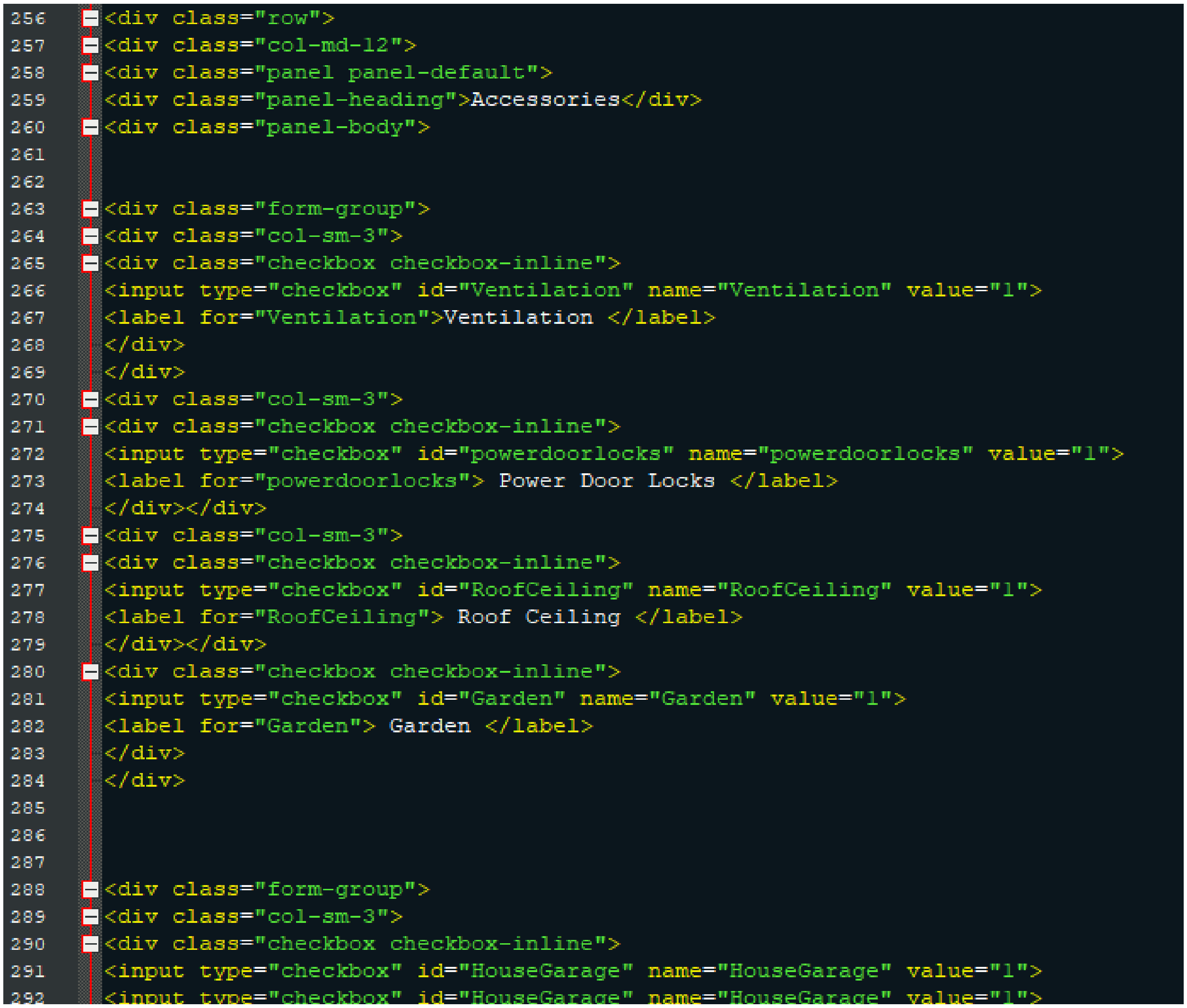
```
<body>
    <?php include('includes/header.php');?>
    <div class="ts-main-content">
    <?php include('includes/leftbar.php');?>
        <div class="content-wrapper">
            <div class="container-fluid">

                <div class="row">
                    <div class="col-md-12">

                        <h2 class="page-title">Post A House</h2>

                        <div class="row">
                            <div class="col-md-12">
                                <div class="panel panel-default">
                                    <div class="panel-heading">Basic Info</div>
<?php if($error){?><div class="errorWrap"><strong>ERROR</strong>:<?php echo htmlentities($error); ?> </div><?php }
                else if($msg){?><div class="succWrap"><strong>SUCCESS</strong>:<?php echo htmlentities($msg); ?> </div><?php }?>

                                    <div class="panel-body">
<form method="post" class="form-horizontal" enctype="multipart/form-data">
<div class="form-group">
<label class="col-sm-2 control-label">House Title<span style="color:#38e47d">*</span></label>
<div class="col-sm-4">
<input type="text" name="Housetitle" class="form-control" requi#38e47d>
</div>
<label class="col-sm-2 control-label">Select House<span style="color:#38e47d">*</span></label>
<div class="col-sm-4">
<select class="selectpicker" name="Housename" requi#38e47d>
<option value=""> Select </option>
<?php $ret="select id,HouseName from tblListing_Types";
$query= $dbh -> prepare($ret);
//$query->bindParam(':id',$id, PDO::PARAM_STR);
$query-> execute();
$results = $query -> fetchAll(PDO::FETCH_OBJ);
if($query -> rowCount() > 0)
{
```



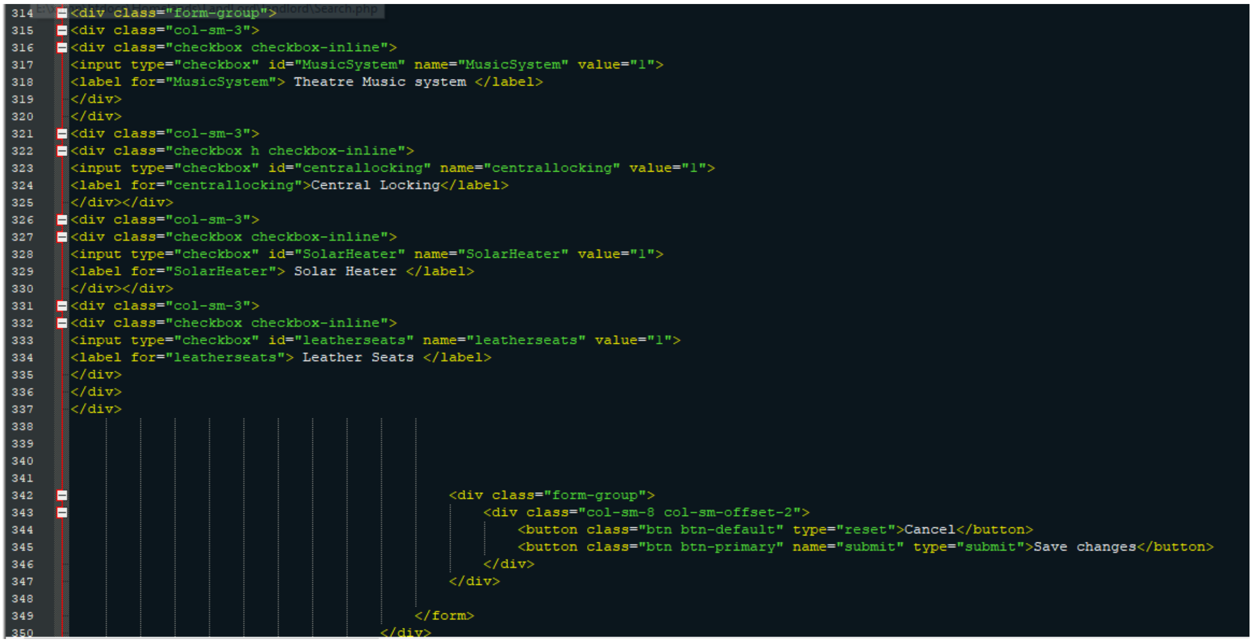
```
foreach($results as $result)
{
?>
<option value="<?php echo htmlentities($result->id);?>"><?php echo htmlentities($result->HouseName);?></option>
<?php }} ?>

</select>
</div>
</div>

<div class="hr-dashed"></div>
<div class="form-group">
<label class="col-sm-2 control-label">House Overview<span style="color:#38e47d"></span></label>
<div class="col-sm-10">
<textarea class="form-control" name="houseoverview" rows="3" requi#38e47d></textarea>
</div>
</div>

<div class="form-group">
<label class="col-sm-2 control-label">Price Per Month<span style="color:#38e47d">*</span></label>
<div class="col-sm-4">
<input type="text" name="PricePerMonth" class="form-control" requi#38e47d>
</div>
<label class="col-sm-2 control-label">Select Floor Type<span style="color:#38e47d">*</span></label>
<div class="col-sm-4">
<select class="selectpicker" name="FloorType" requi#38e47d>
<option value=""> Select </option>

<option value="Ceremic Tile">Ceremic Tile</option>
<option value="Wooden Tiles">Wooden Tiles</option>
<option value="Genite Tiles">Genite Tiles</option>
</select>
</div>
</div>


<div class="form-group">
```



```
<div class="form-group">
<label class="col-sm-2 control-label">Construction Year<span style="color:#38e47d">*</span></label>
<div class="col-sm-4">
<input type="text" name="ConstructionYear" class="form-control" requi#38e47d>
</div>
<label class="col-sm-2 control-label">Seating Room Capacounty<span style="color:#38e47d">*</span></label>
<div class="col-sm-4">
<input type="text" name="SeatingRoomCapacounty" class="form-control" requi#38e47d>
</div>
</div>
<div class="hr-dashed"></div>


<div class="form-group">
<div class="col-sm-12">
<h4><b>Upload Images</b></h4>
</div>
</div>


<div class="form-group">
<div class="col-sm-4">
Image 1 <span style="color:#38e47d">*</span><input type="file" name="img1" requi#38e47d>
</div>
<div class="col-sm-4">
Image 2<span style="color:#38e47d">*</span><input type="file" name="img2" requi#38e47d>
</div>
<div class="col-sm-4">
Image 3<span style="color:#38e47d">*</span><input type="file" name="img3" requi#38e47d>
</div>
</div>


<div class="form-group">
<div class="col-sm-4">
Image 4<span style="color:#38e47d">*</span><input type="file" name="img4" requi#38e47d>
</div>
```



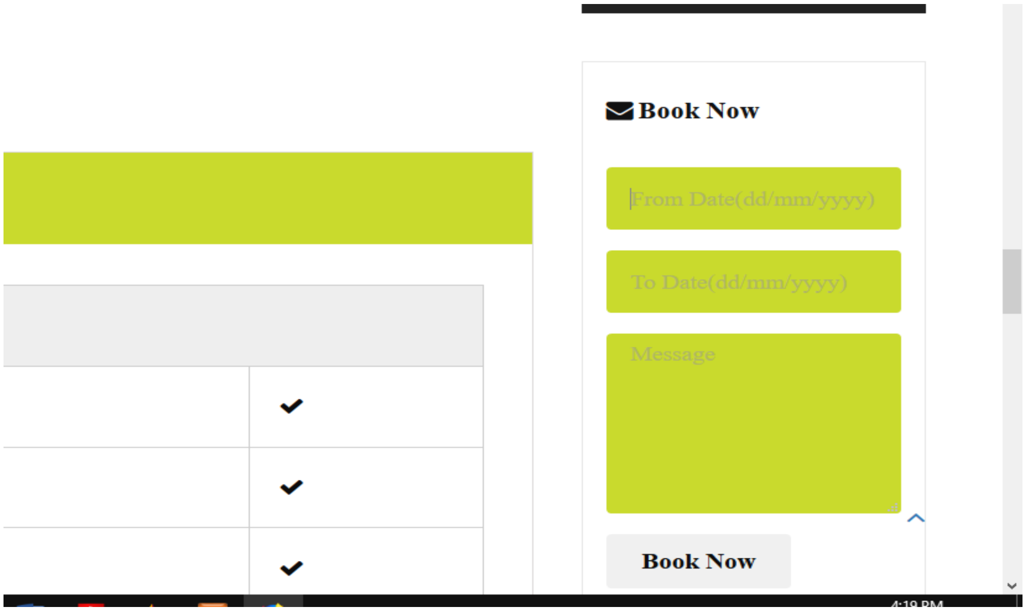
```html
<div class="row">
<div class="col-md-12">
<div class="panel panel-default">
<div class="panel-heading">Accessories</div>
<div class="panel-body">


<div class="form-group">
<div class="col-sm-3">
<div class="checkbox checkbox-inline">
<input type="checkbox" id="Ventilation" name="Ventilation" value="1">
<label for="Ventilation">Ventilation </label>
</div>
</div>
<div class="col-sm-3">
<div class="checkbox checkbox-inline">
<input type="checkbox" id="powerdoorlocks" name="powerdoorlocks" value="1">
<label for="powerdoorlocks"> Power Door Locks </label>
</div></div>
<div class="col-sm-3">
<div class="checkbox checkbox-inline">
<input type="checkbox" id="RoofCeiling" name="RoofCeiling" value="1">
<label for="RoofCeiling"> Roof Ceiling </label>
</div></div>
<div class="checkbox checkbox-inline">
<input type="checkbox" id="Garden" name="Garden" value="1">
<label for="Garden"> Garden </label>
</div>
</div>



<div class="form-group">
<div class="col-sm-3">
<div class="checkbox checkbox-inline">
<input type="checkbox" id="HouseGarage" name="HouseGarage" value="1">
<input type="checkbox" id="HouseGarage" name="HouseGarage" value="1">
```

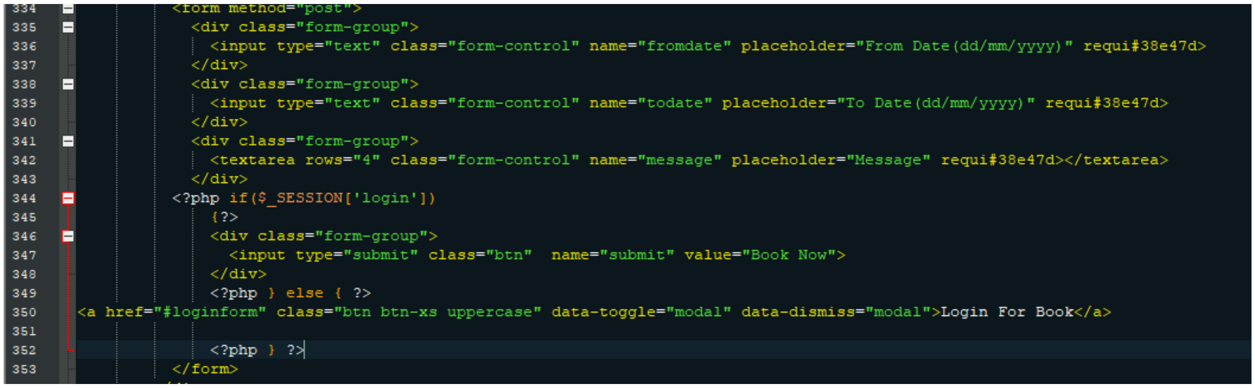


```html
<div class="form-group">
<div class="col-sm-3">
<div class="checkbox checkbox-inline">
<input type="checkbox" id="MusicSystem" name="MusicSystem" value="1">
<label for="MusicSystem"> Theatre Music system </label>
</div>
</div>
<div class="col-sm-3">
<div class="checkbox h checkbox-inline">
<input type="checkbox" id="centrallocking" name="centrallocking" value="1">
<label for="centrallocking">Central Locking</label>
</div></div>
<div class="col-sm-3">
<div class="checkbox checkbox-inline">
<input type="checkbox" id="SolarHeater" name="SolarHeater" value="1">
<label for="SolarHeater"> Solar Heater </label>
</div></div>
<div class="col-sm-3">
<div class="checkbox checkbox-inline">
<input type="checkbox" id="leatherseats" name="leatherseats" value="1">
<label for="leatherseats"> Leather Seats </label>
</div>
</div>
</div>




                                                <div class="form-group">
                                                    <div class="col-sm-8 col-sm-offset-2">
                                                        <button class="btn btn-default" type="reset">Cancel</button>
                                                        <button class="btn btn-primary" name="submit" type="submit">Save changes</button>
                                                    </div>
                                                </div>

                                            </form>
                                        </div>
```

Book House

This module allows Tenant/Customer to Book a house after selecting from available listed houses. In order to book a house, the customer/Tenant would be required by the system to log in or register to continue with the process.

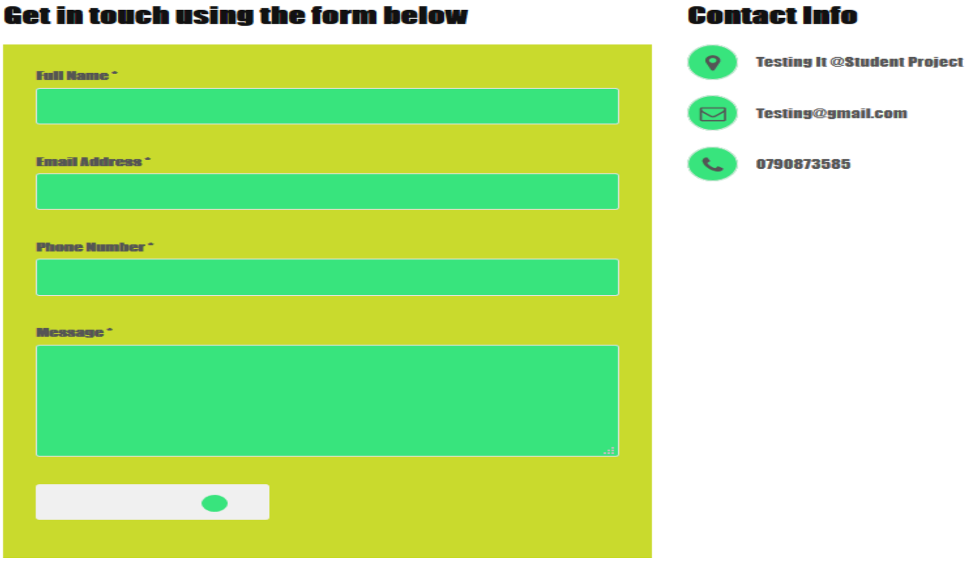




```
        <form method="post">
          <div class="form-group">
            <input type="text" class="form-control" name="fromdate" placeholder="From Date(dd/mm/yyyy)" requi#38e47d>
          </div>
          <div class="form-group">
            <input type="text" class="form-control" name="todate" placeholder="To Date(dd/mm/yyyy)" requi#38e47d>
          </div>
          <div class="form-group">
            <textarea rows="4" class="form-control" name="message" placeholder="Message" requi#38e47d></textarea>
          </div>
        <?php if($_SESSION['login'])
            {?>
            <div class="form-group">
              <input type="submit" class="btn"  name="submit" value="Book Now">
            </div>
            <?php } else { ?>
<a href="#loginform" class="btn btn-xs uppercase" data-toggle="modal" data-dismiss="modal">Login For Book</a>

            <?php } ?>
        </form>
```

Contact and feedback

This module allows Customers to send their queries and feedbacks about the system and services enquiries and their experience with the system services.



Get in touch using the form below

Full Name *

Email Address *

Phone Number *

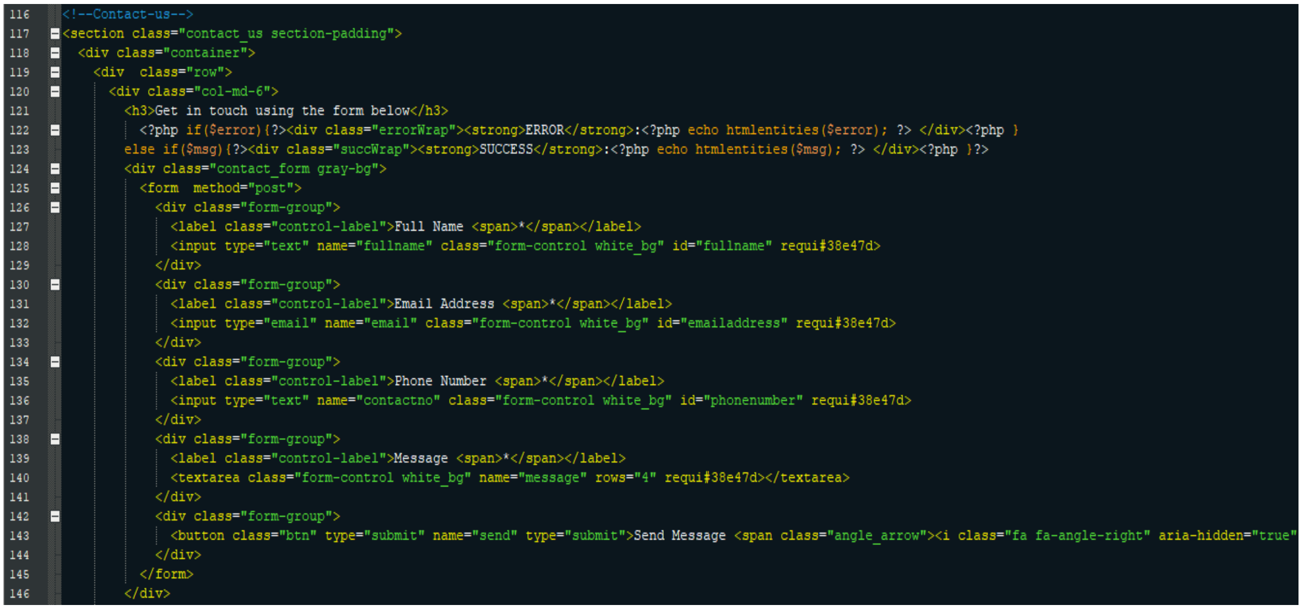
Message *

Contact Info

Testing It @Student Project

Testing@gmail.com

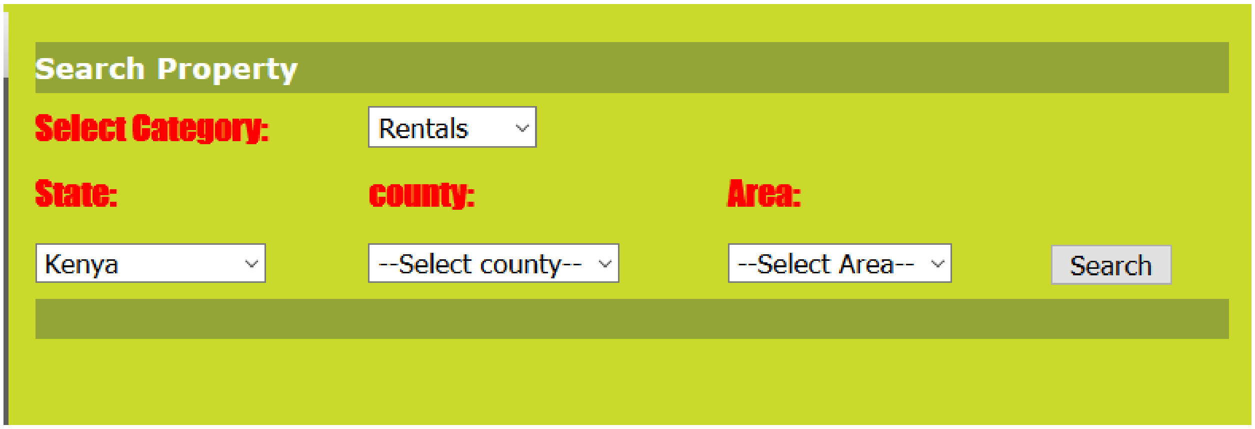
0790873585



```
<!--Contact-us-->
<section class="contact_us section-padding">
  <div class="container">
    <div  class="row">
      <div class="col-md-6">
        <h3>Get in touch using the form below</h3>
          <?php if($error){?><div class="errorWrap"><strong>ERROR</strong>:<?php echo htmlentities($error); ?> </div><?php }
        else if($msg){?><div class="succWrap"><strong>SUCCESS</strong>:<?php echo htmlentities($msg); ?> </div><?php }?>
        <div class="contact_form gray-bg">
          <form  method="post">
            <div class="form-group">
              <label class="control-label">Full Name <span>*</span></label>
              <input type="text" name="fullname" class="form-control white_bg" id="fullname" requi#38e47d>
            </div>
            <div class="form-group">
              <label class="control-label">Email Address <span>*</span></label>
              <input type="email" name="email" class="form-control white_bg" id="emailaddress" requi#38e47d>
            </div>
            <div class="form-group">
              <label class="control-label">Phone Number <span>*</span></label>
              <input type="text" name="contactno" class="form-control white_bg" id="phonenumber" requi#38e47d>
            </div>
            <div class="form-group">
              <label class="control-label">Message <span>*</span></label>
              <textarea class="form-control white_bg" name="message" rows="4" requi#38e47d></textarea>
            </div>
            <div class="form-group">
              <button class="btn" type="submit" name="send" type="submit">Send Message <span class="angle_arrow"><i class="fa fa-angle-right" aria-hidden="true"
            </div>
          </form>
        </div>
```

Buy House/Apartment

This module allows Customers to search for available houses, offices, shops, land, apartments in system following the search panel then make order



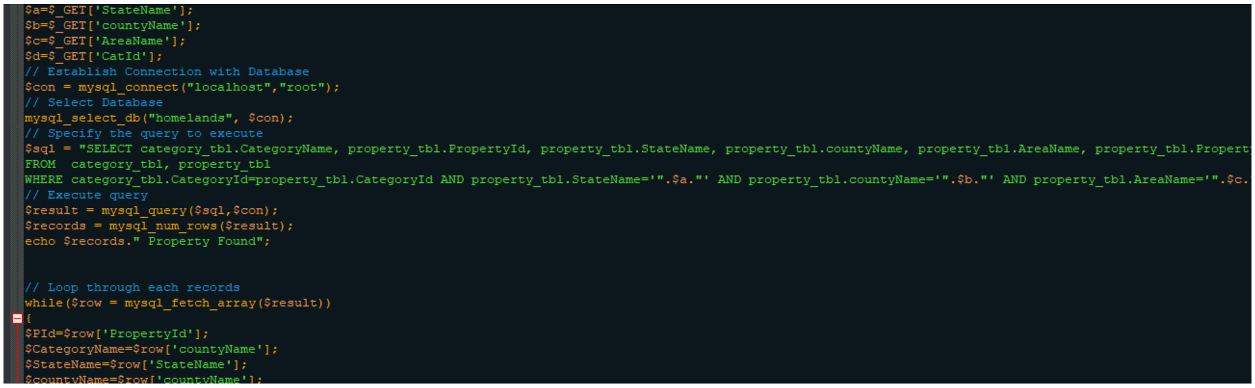
Search Property

Select Category: Rentals

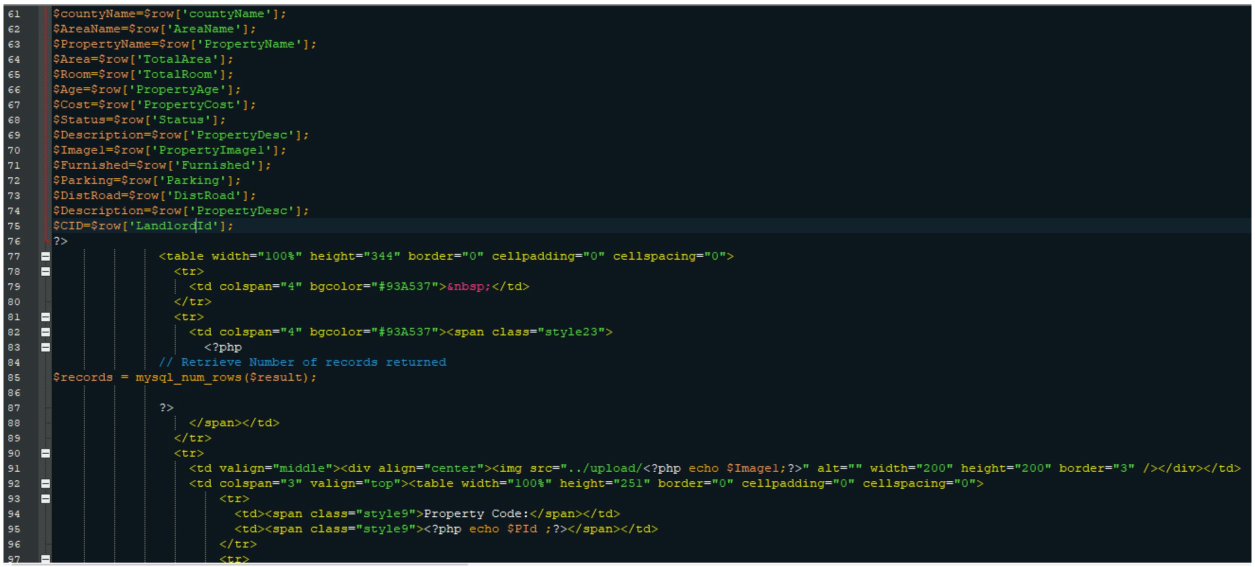
State: Kenya

county: --Select county--

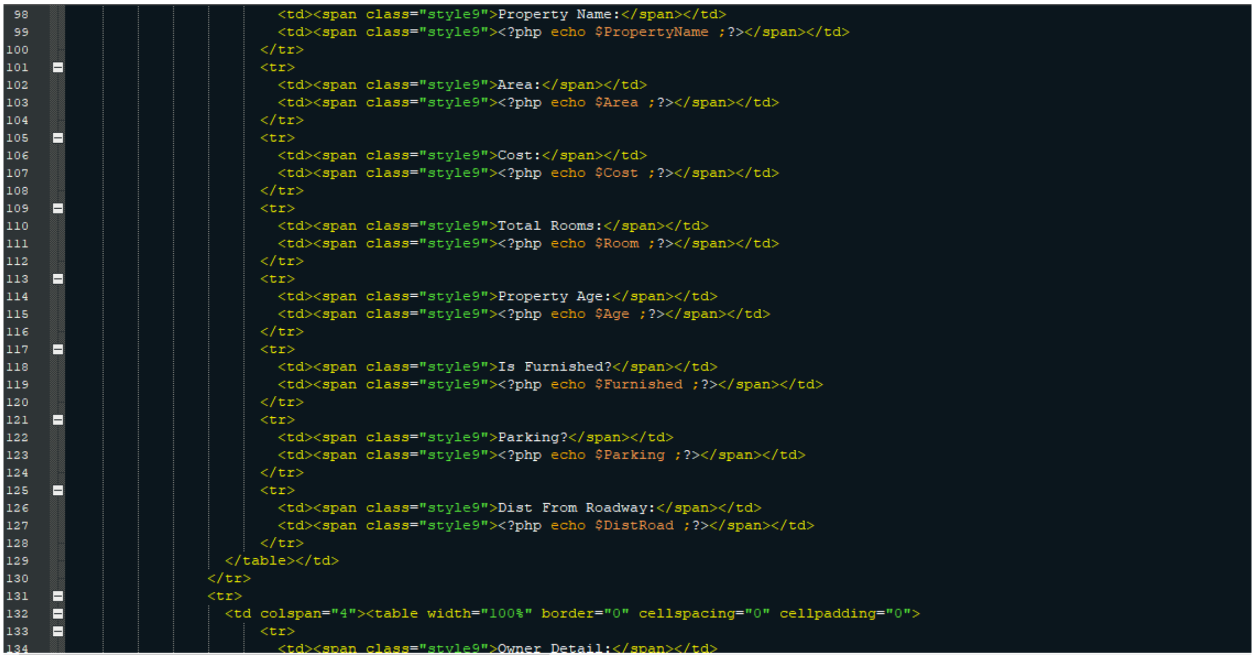
Area: --Select Area--



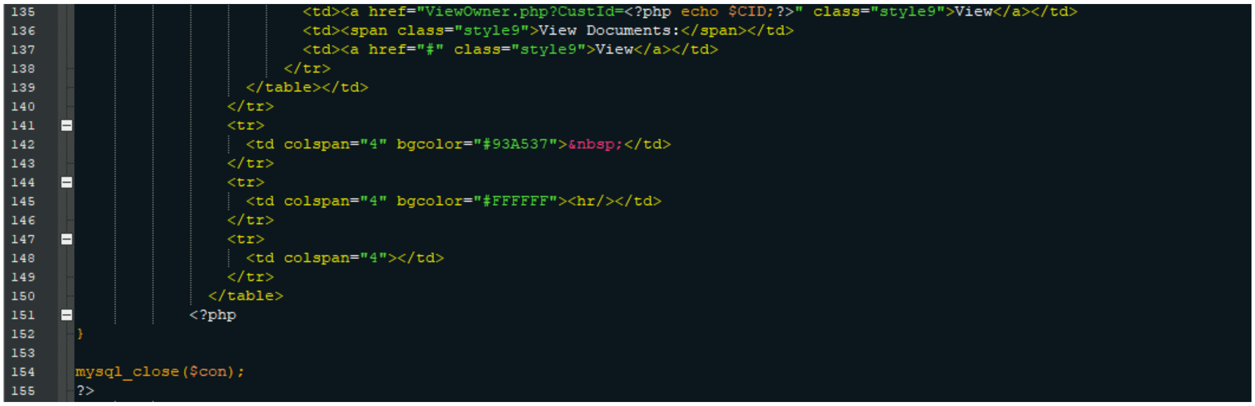
```
$a=$_GET['StateName'];
$b=$_GET['countyName'];
$c=$_GET['AreaName'];
$d=$_GET['CatId'];
// Establish Connection with Database
$con = mysql_connect("localhost","root");
// Select Database
mysql_select_db("homelands", $con);
// Specify the query to execute
$sql = "SELECT category_tbl.CategoryName, property_tbl.PropertyId, property_tbl.StateName, property_tbl.countyName, property_tbl.AreaName, property_tbl.Propert
FROM  category_tbl, property_tbl
WHERE category_tbl.CategoryId=property_tbl.CategoryId AND property_tbl.StateName='".$a."' AND property_tbl.countyName='".$b."' AND property_tbl.AreaName='".$c.
// Execute query
$result = mysql_query($sql,$con);
$records = mysql_num_rows($result);
echo $records." Property Found";


// Loop through each records
while($row = mysql_fetch_array($result))
{
$PId=$row['PropertyId'];
$CategoryName=$row['countyName'];
$StateName=$row['StateName'];
$countyName=$row['countyName'];
```



```
$countyName=$row['countyName'];
$AreaName=$row['AreaName'];
$PropertyName=$row['PropertyName'];
$Area=$row['TotalArea'];
$Room=$row['TotalRoom'];
$Age=$row['PropertyAge'];
$Cost=$row['PropertyCost'];
$Status=$row['Status'];
$Description=$row['PropertyDesc'];
$Image1=$row['PropertyImage1'];
$Furnished=$row['Furnished'];
$Parking=$row['Parking'];
$DistRoad=$row['DistRoad'];
$Description=$row['PropertyDesc'];
$CID=$row['LandlordId'];
?>
              <table width="100%" height="344" border="0" cellpadding="0" cellspacing="0">
                <tr>
                  <td colspan="4" bgcolor="#93A537">&nbsp;</td>
                </tr>
                <tr>
                  <td colspan="4" bgcolor="#93A537"><span class="style23">
                    <?php
              // Retrieve Number of records returned
$records = mysql_num_rows($result);

              ?>
                  </span></td>
                </tr>
                <tr>
                  <td valign="middle"><div align="center"><img src="../upload/<?php echo $Image1;?>" alt="" width="200" height="200" border="3" /></div></td>
                  <td colspan="3" valign="top"><table width="100%" height="251" border="0" cellpadding="0" cellspacing="0">
                      <tr>
                        <td><span class="style9">Property Code:</span></td>
                        <td><span class="style9"><?php echo $PId ;?></span></td>
                      </tr>
                      <tr>
```



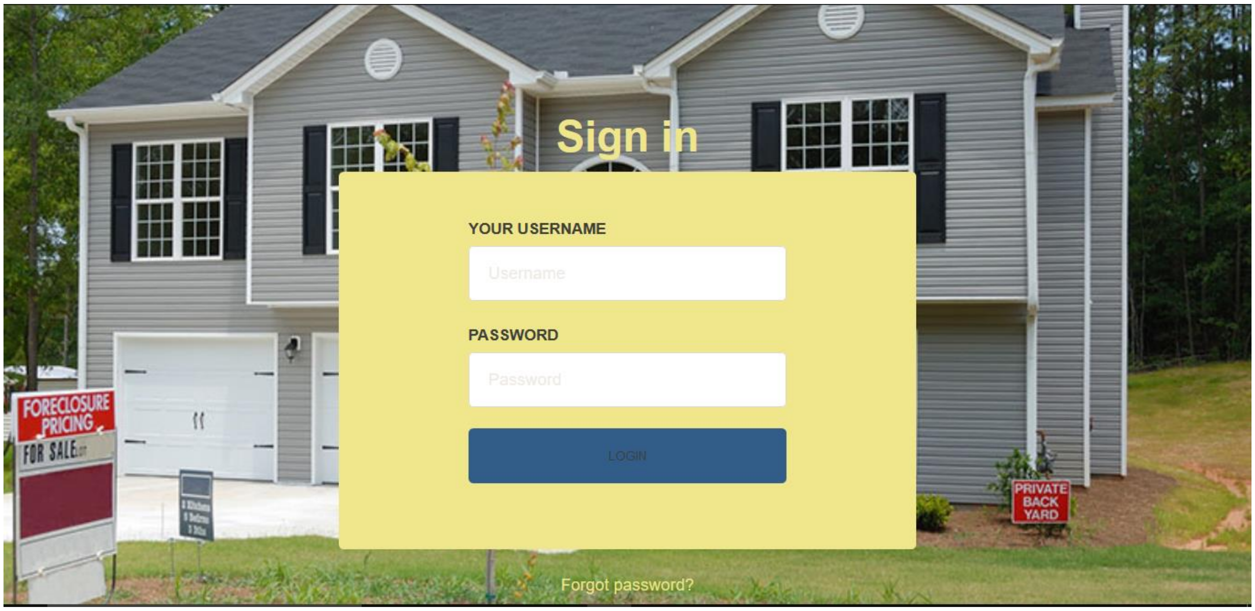
```
                        <td><span class="style9">Property Name:</span></td>
                        <td><span class="style9"><?php echo $PropertyName ;?></span></td>
                      </tr>
                      <tr>
                        <td><span class="style9">Area:</span></td>
                        <td><span class="style9"><?php echo $Area ;?></span></td>
                      </tr>
                      <tr>
                        <td><span class="style9">Cost:</span></td>
                        <td><span class="style9"><?php echo $Cost ;?></span></td>
                      </tr>
                      <tr>
                        <td><span class="style9">Total Rooms:</span></td>
                        <td><span class="style9"><?php echo $Room ;?></span></td>
                      </tr>
                      <tr>
                        <td><span class="style9">Property Age:</span></td>
                        <td><span class="style9"><?php echo $Age ;?></span></td>
                      </tr>
                      <tr>
                        <td><span class="style9">Is Furnished?</span></td>
                        <td><span class="style9"><?php echo $Furnished ;?></span></td>
                      </tr>
                      <tr>
                        <td><span class="style9">Parking?</span></td>
                        <td><span class="style9"><?php echo $Parking ;?></span></td>
                      </tr>
                      <tr>
                        <td><span class="style9">Dist From Roadway:</span></td>
                        <td><span class="style9"><?php echo $DistRoad ;?></span></td>
                      </tr>
                  </table></td>
                </tr>
                <tr>
                  <td colspan="4"><table width="100%" border="0" cellspacing="0" cellpadding="0">
                      <tr>
                        <td><span class="style9">Owner Detail:</span></td>
```

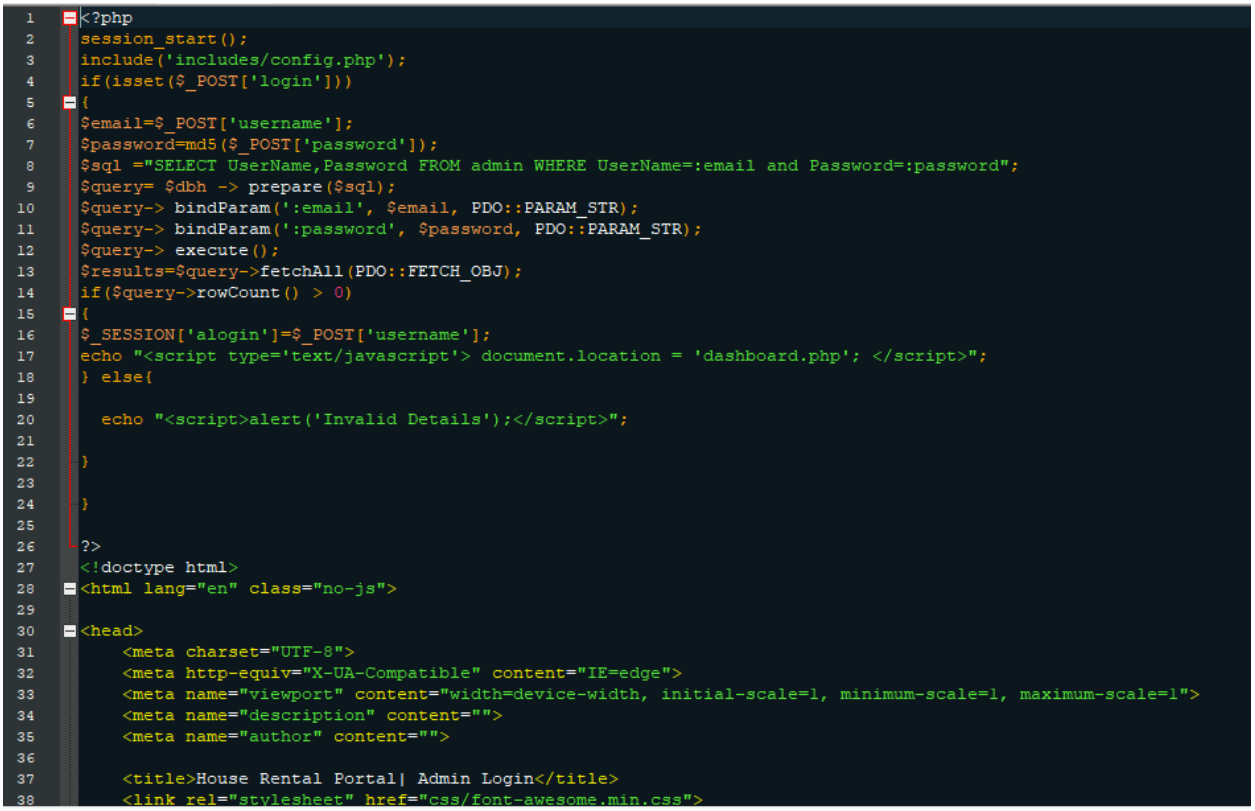


```
                        <td><a href="ViewOwner.php?CustId=<?php echo $CID;?>" class="style9">View</a></td>
                        <td><span class="style9">View Documents:</span></td>
                        <td><a href="#" class="style9">View</a></td>
                      </tr>
                  </table></td>
                </tr>
                <tr>
                  <td colspan="4" bgcolor="#93A537">&nbsp;</td>
                </tr>
                <tr>
                  <td colspan="4" bgcolor="#FFFFFF"><hr/></td>
                </tr>
                <tr>
                  <td colspan="4"></td>
                </tr>
              </table>
            <?php
}

mysql_close($con);
?>
```

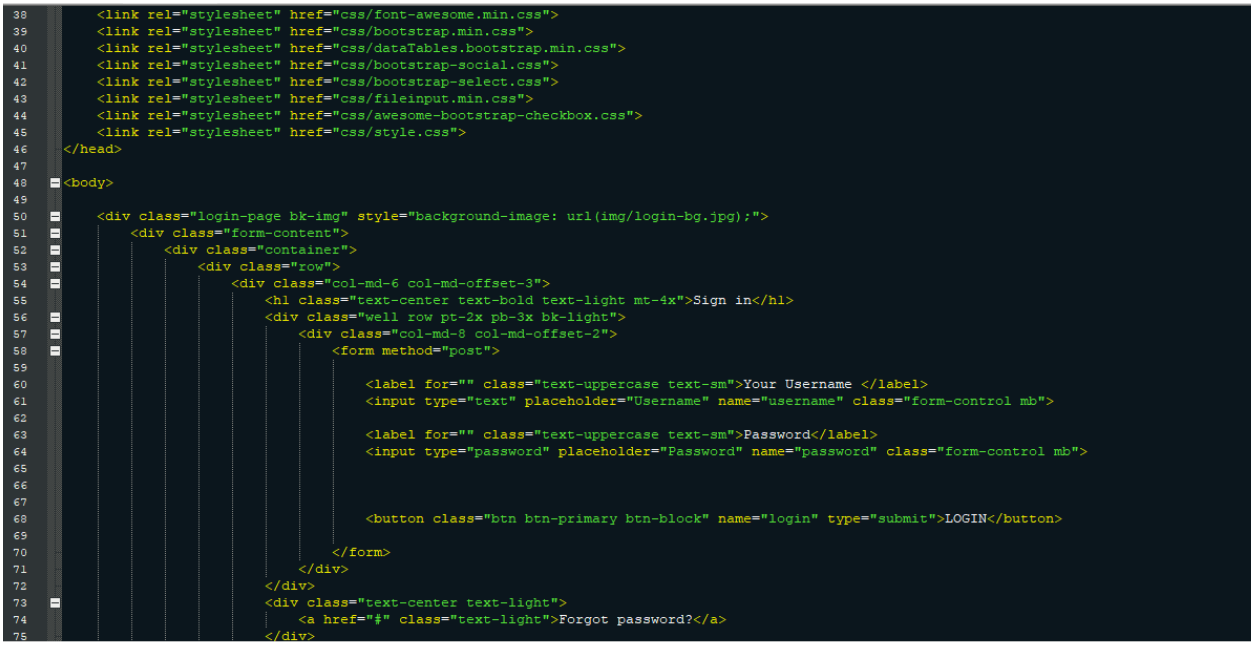
ADMIN LOGIN MODULE

This module allows system administrator to log in to the admin panel





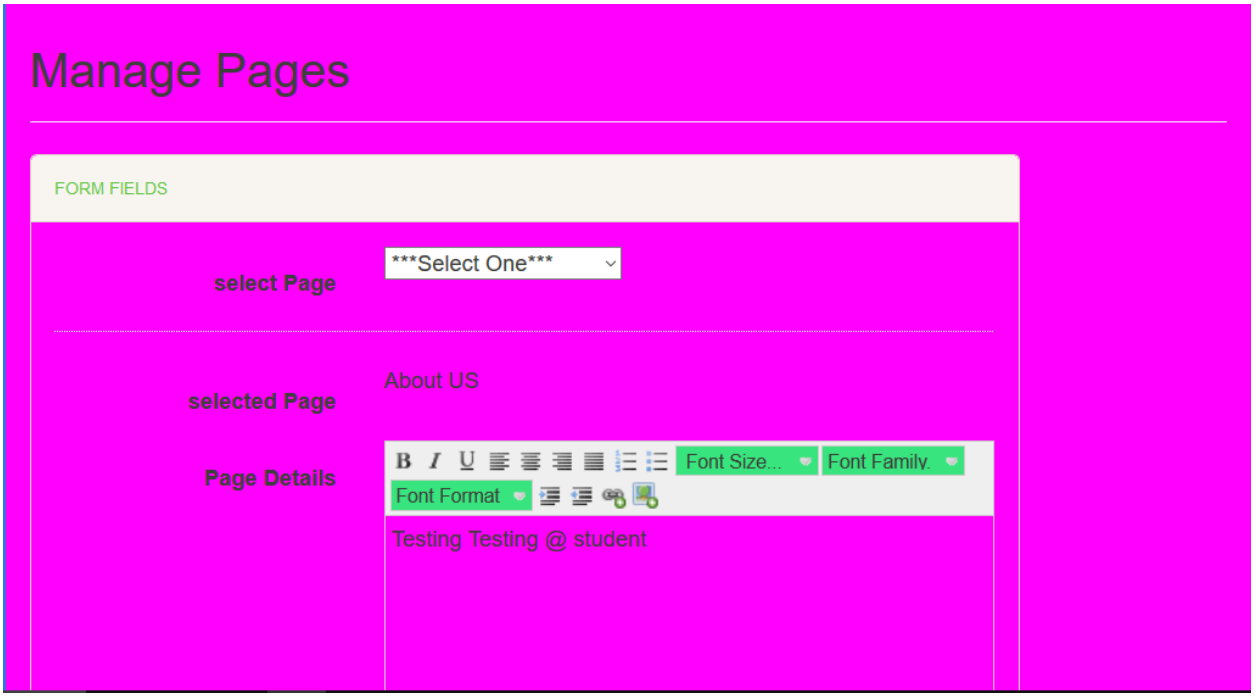
```
<?php
session_start();
include('includes/config.php');
if(isset($_POST['login']))
{
$email=$_POST['username'];
$password=md5($_POST['password']);
$sql ="SELECT UserName,Password FROM admin WHERE UserName=:email and Password=:password";
$query= $dbh -> prepare($sql);
$query-> bindParam(':email', $email, PDO::PARAM_STR);
$query-> bindParam(':password', $password, PDO::PARAM_STR);
$query-> execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
if($query->rowCount() > 0)
{
$_SESSION['alogin']=$_POST['username'];
echo "<script type='text/javascript'> document.location = 'dashboard.php'; </script>";
} else{

  echo "<script>alert('Invalid Details');</script>";

}

}

?>
<!doctype html>
<html lang="en" class="no-js">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1, minimum-scale=1, maximum-scale=1">
    <meta name="description" content="">
    <meta name="author" content="">

    <title>House Rental Portal| Admin Login</title>
    <link rel="stylesheet" href="css/font-awesome.min.css">
```



```
    <link rel="stylesheet" href="css/font-awesome.min.css">
    <link rel="stylesheet" href="css/bootstrap.min.css">
    <link rel="stylesheet" href="css/dataTables.bootstrap.min.css">
    <link rel="stylesheet" href="css/bootstrap-social.css">
    <link rel="stylesheet" href="css/bootstrap-select.css">
    <link rel="stylesheet" href="css/fileinput.min.css">
    <link rel="stylesheet" href="css/awesome-bootstrap-checkbox.css">
    <link rel="stylesheet" href="css/style.css">
</head>

<body>

    <div class="login-page bk-img" style="background-image: url(img/login-bg.jpg);">
        <div class="form-content">
            <div class="container">
                <div class="row">
                    <div class="col-md-6 col-md-offset-3">
                        <hl class="text-center text-bold text-light mt-4x">Sign in</hl>
                        <div class="well row pt-2x pb-3x bk-light">
                            <div class="col-md-8 col-md-offset-2">
                                <form method="post">

                                    <label for="" class="text-uppercase text-sm">Your Username </label>
                                    <input type="text" placeholder="Username" name="username" class="form-control mb">

                                    <label for="" class="text-uppercase text-sm">Password</label>
                                    <input type="password" placeholder="Password" name="password" class="form-control mb">



                                    <button class="btn btn-primary btn-block" name="login" type="submit">LOGIN</button>

                                </form>
                            </div>
                        </div>
                        <div class="text-center text-light">
                            <a href="#" class="text-light">Forgot password?</a>
                        </div>
```

Manage pages

This module allows system administrator to update the system pages without interfering with the source code



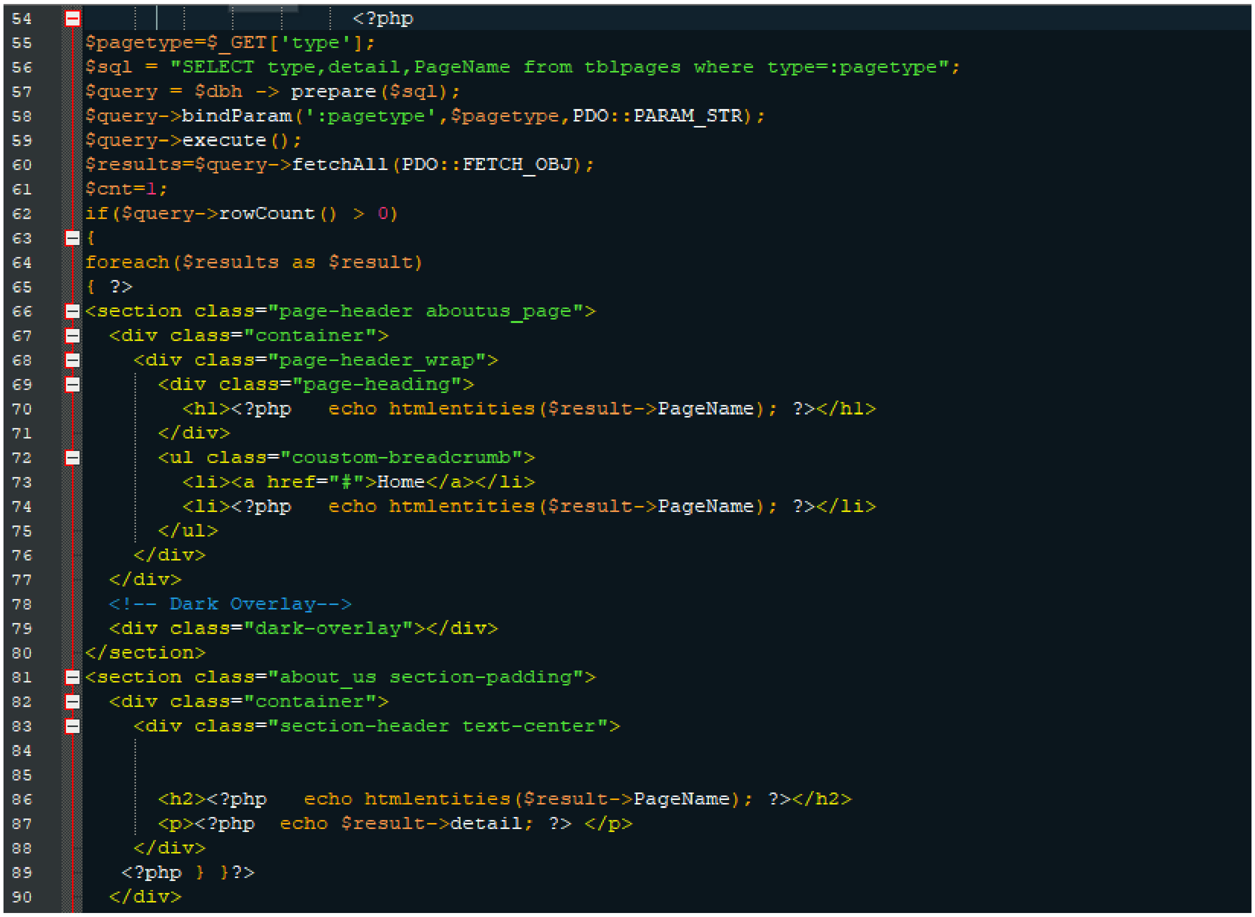
Manage Pages

FORM FIELDS

select Page: ***Select One***

selected Page: About US

Page Details: Testing Testing @ student



```
                      <?php
$pagetype=$_GET['type'];
$sql = "SELECT type,detail,PageName from tblpages where type=:pagetype";
$query = $dbh -> prepare($sql);
$query->bindParam(':pagetype',$pagetype,PDO::PARAM_STR);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
$cnt=1;
if($query->rowCount() > 0)
{
foreach($results as $result)
{ ?>
<section class="page-header aboutus_page">
  <div class="container">
    <div class="page-header_wrap">
      <div class="page-heading">
        <h1><?php   echo htmlentities($result->PageName); ?></h1>
      </div>
      <ul class="coustom-breadcrumb">
        <li><a href="#">Home</a></li>
        <li><?php   echo htmlentities($result->PageName); ?></li>
      </ul>
    </div>
  </div>
  <!-- Dark Overlay-->
  <div class="dark-overlay"></div>
</section>
<section class="about_us section-padding">
  <div class="container">
    <div class="section-header text-center">


      <h2><?php   echo htmlentities($result->PageName); ?></h2>
      <p><?php  echo $result->detail; ?> </p>
    </div>
   <?php } }?>
  </div>
```

Security

The system provides username and password to prevent the system from unauthorized access. The staffs' password must be greater than eight characters.

Test Cases Design

Test case Name	**Purpose**	**Precondition**	**Test Steps**	**Expected Results**

Register for House booking	Enable customer to register in the system before booking house	Customer has valid email id.	Click register button. Provide required information such as, name, email, phone no.	Customer will be registered in the system.
View House Details	Enable Customers/tenants to view the details of listed Vacant houses	Customer is logged in the system	Click view Details to see the listed house details	Detailed description of The listed House in the system

Admin/Landlord log in	Enable admin/Landlord to log in to the system	Admin/Landlord has required credentials to log in	Input username Input password Select user type (Admin or Landlord) Verify username, password and type	If verified, grant access to the system. If not, show error message.
Create new Admin account	Enable new admin to use the system	Admin has valid email id	Log in as admin, click create new user Click submit	Another admin will be registered in the system.
User log out	Enable user to log out of the system	User is logged in	Click log out button.	User will be logged out

Change password	Allow user to change password	User exists in the system	Click forgot password in log in page or change password in account settings. If forgot password, then recovery link will be sent to email. After clicking link, input new password, save password.	Log in credentials will be updated with new password.

Post/Upload new house	Enable admin/landlord to upload a vacant house for rent or sale into the system	Admin/Landlord has access to the system and authority to upload a new house for sale	Input House details Upload picture. Save	New house is uploaded in the system under new houses web page.
Update House details	Enable Admin/Landlord to update House details to current status	Admin/landlord is logged in and has clearance to update House details	Select House to edit Insert the new changes Save changes	Updated information will be saved and displayed.
View House list	Enable Customers to view list of all vacant Houses	Customer/tenant is logged in to the system	Select House listing	List of available vacant Houses will be displayed
Search rent records by	Enable employee to search rent	Employee is logged in	Select search by category.	Search result matching input
Display Landlords report	Enable Admin to view the landlords report	Admin is logged in and has the clearance to view landlord report	Select view Landlords rent report	Landlord's report will be displayed in a new window

CHAPTER FIVE

IMPLEMENTATION AND TESTING

5.1 Implementation:

The online House Rental management system in used in the following modules that can be implemented.

Modules Details:

The Implemented modules in given below

1.Registration/Login module

2.Booking Module

3 House Posting Module

4.Feedback and contact module

Login modules:

Login modules is implemented in the online House Rental Management to only allowed a register person. we have to use this module in security purpose related on the detail.

Registration modules:

The online House Rental management system in Registration modules is used to collect the user personal information. It has to collect the address, name, phone number also. The registration module details are stored in the database.

Booking Modules

Online House Rental Management System has an implementation of House Booking where only registered members are allowed to view and book house/office/land/home for rental or lease

Post House Module:

House Rental Management System has been implemented with House posting module where the seller/landlord or system administrator can upload house/property details for sale or rent

5.2 TESTING

Testing is the process of detecting errors. Testing performs a very critical role for quality assurance and for ensuring the reliability of software. The results of testing are used later on during maintenance also.

Psychology of Testing

The aim of testing is often to demonstrate that a program works by showing that it has no errors. The basic purpose of testing phase is to detect the errors that may be present in the program. Hence one should not start testing with the intent of showing that a program works, but the intent should be to show that a program doesn’t work. Testing is the process of executing a program with the intent of finding errors.

Testing Objectives:

The main objective of testing is to uncover a host of errors, systematically and with minimum effort and time. Stating formally, we can say

Testing is a process of executing a program with the intent of finding an error.

A successful test is one that uncovers an as yet undiscovered error.

A good test case is one that has a high probability of finding error, if it exists.

The tests are inadequate to detect possibly present errors.

The software more or less confirms to the quality and reliable standards.

Levels of Testing:

In order to uncover the errors, present in different phases we have the concept of levels of testing. The basic levels of testing are as shown below…

Client Needs

Requirements

Design

Code

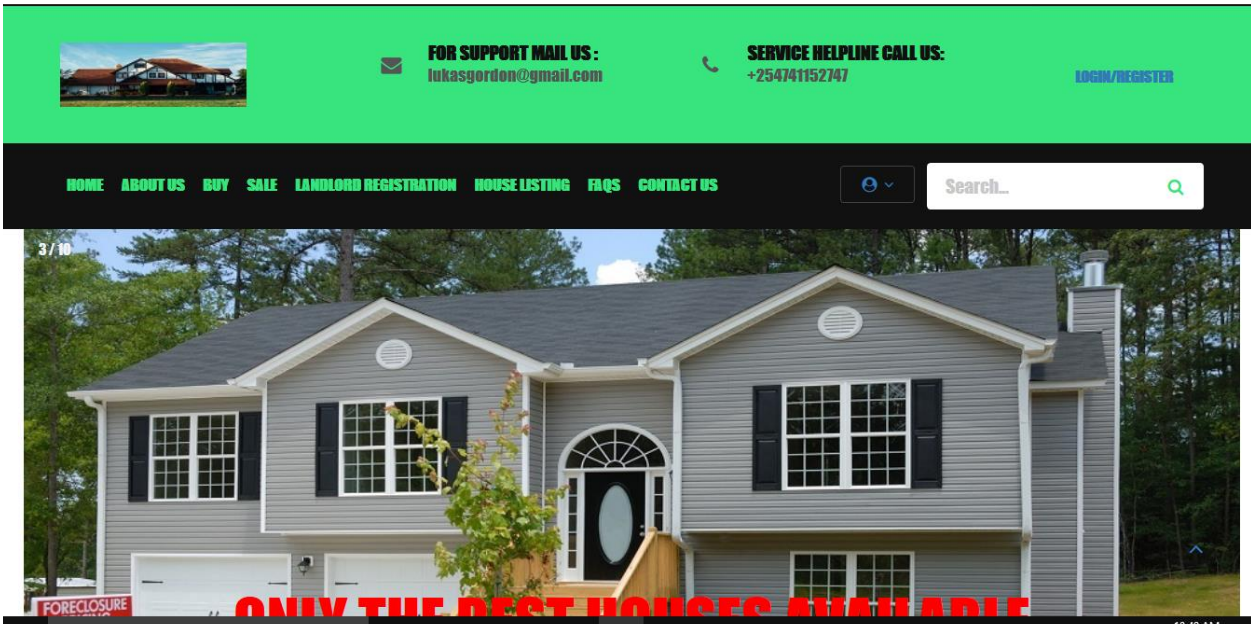
5.3 Installation and project description

The database as it is developed by MySQL can be installed only by using the export and import concepts.

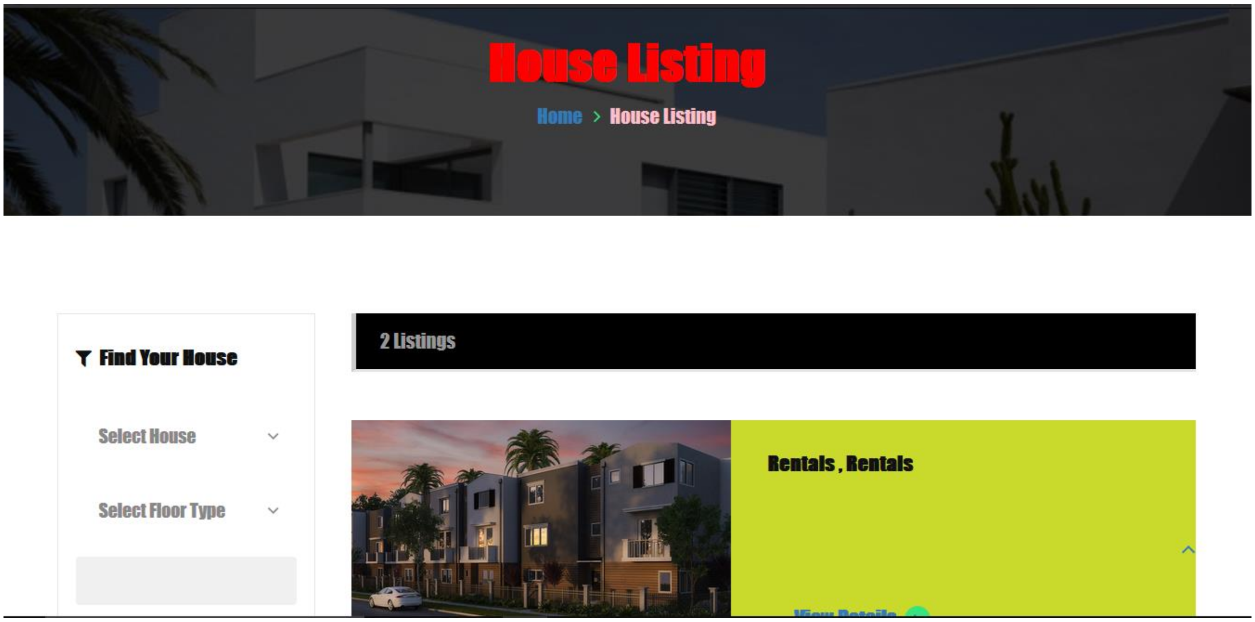
Using XAMP Server Upload the system files to the htdocs directory then open your server in the browser by typing http://localhost/phpmyadmin to import the database

The project can be described by the screenshots in the project as follows

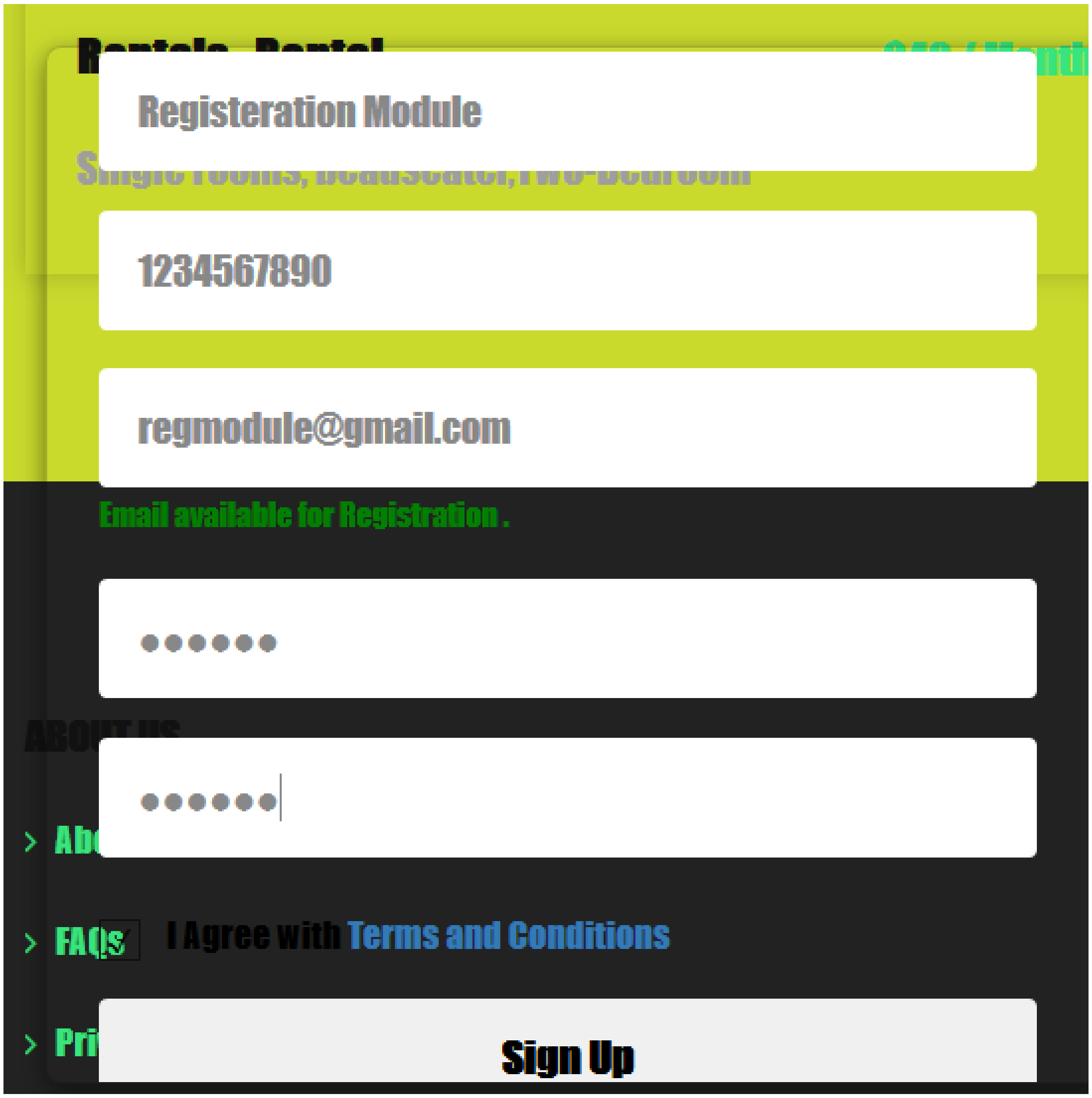
Home page



House Listing



Tenant Registration panel



Registeration Module

1234567890

regmodule@gmail.com

Email available for Registration .

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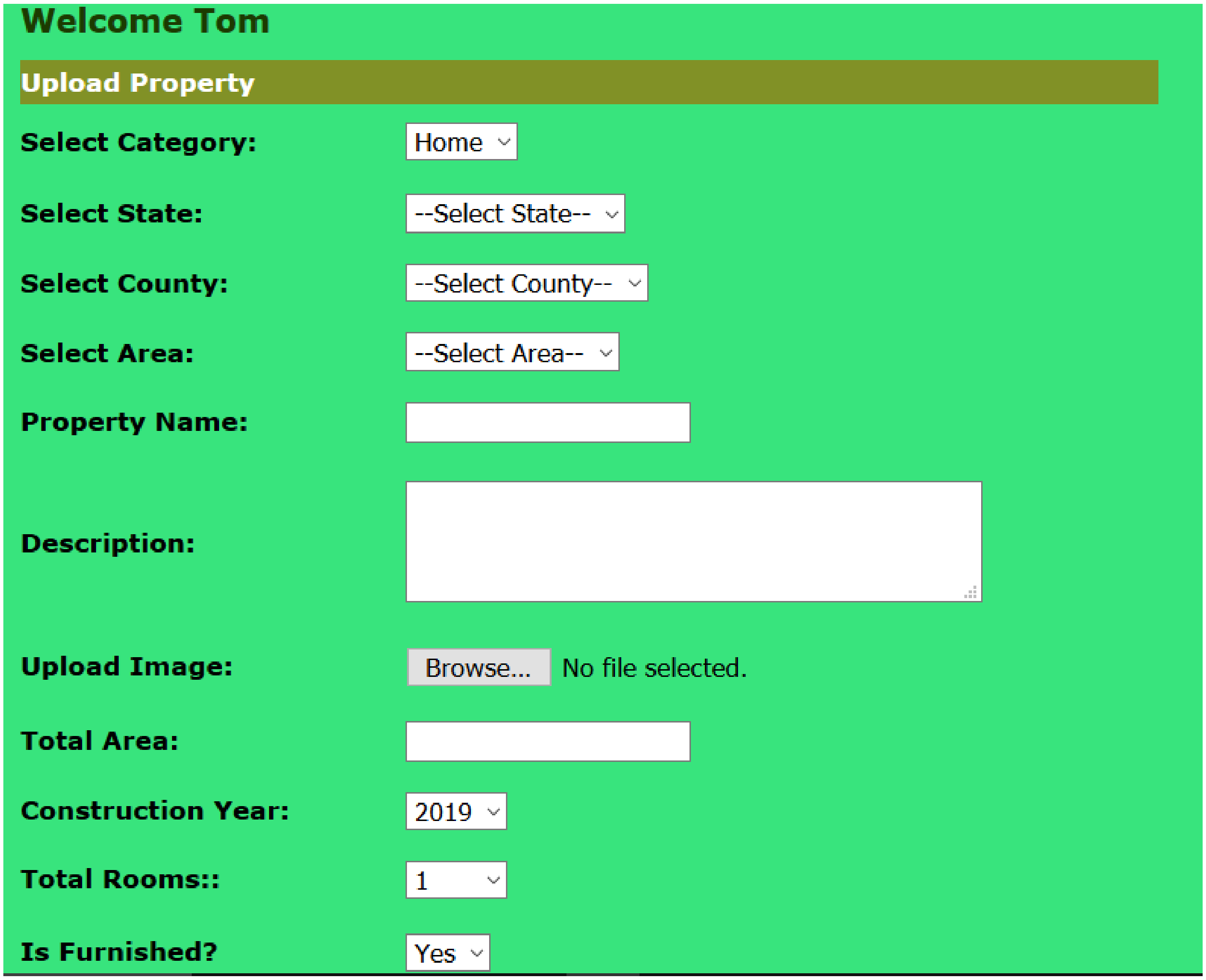
☑ I Agree with Terms and Conditions

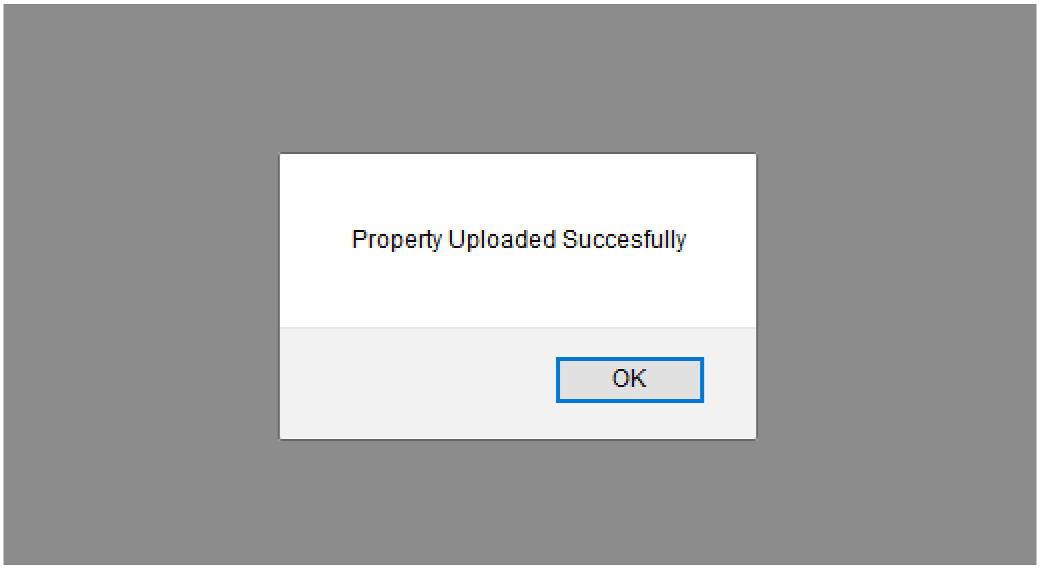
Posting House



Welcome Tom

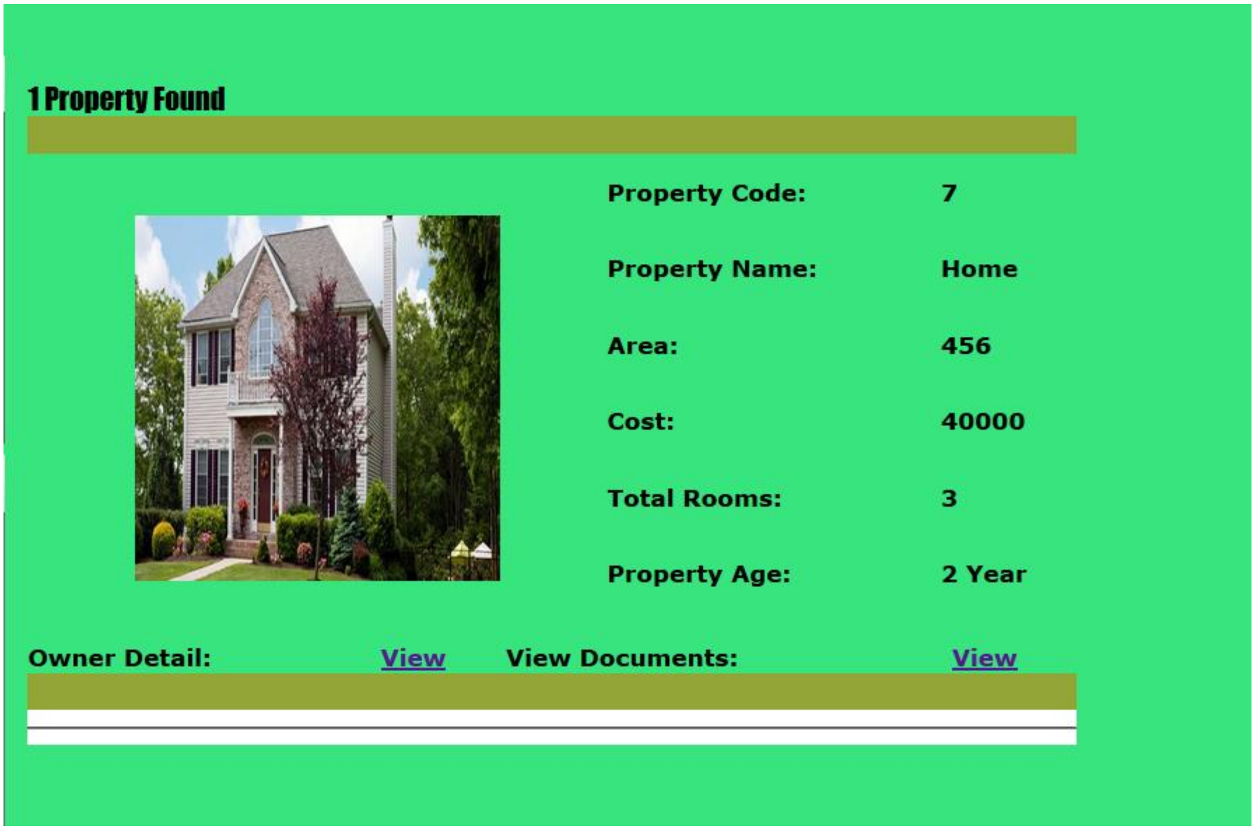
Upload Property

Select Category:	Home
Select State:	--Select State--
Select County:	--Select County--
Select Area:	--Select Area--
Property Name:	
Description:	
Upload Image:	Browse... No file selected.
Total Area:	
Construction Year:	2019
Total Rooms::	1
Is Furnished?	Yes



Property Uploaded Succesfully

Search Property

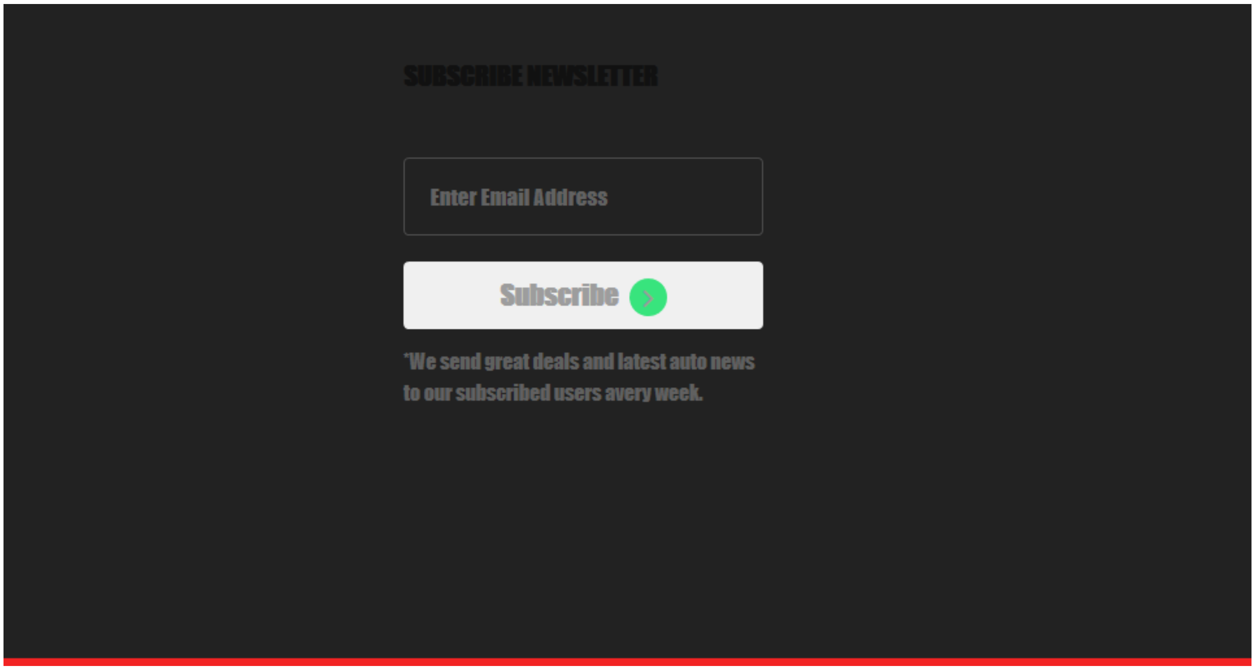


1 Property Found

Property Code:	7
Property Name:	Home
Area:	456
Cost:	40000
Total Rooms:	3
Property Age:	2 Year

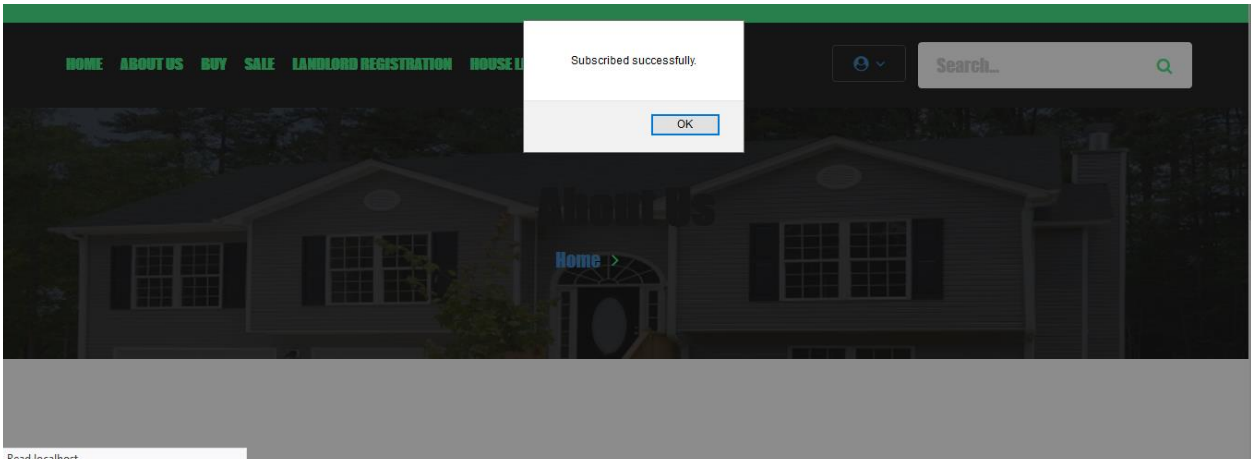
Owner Detail: View View Documents: View

Subscribe button



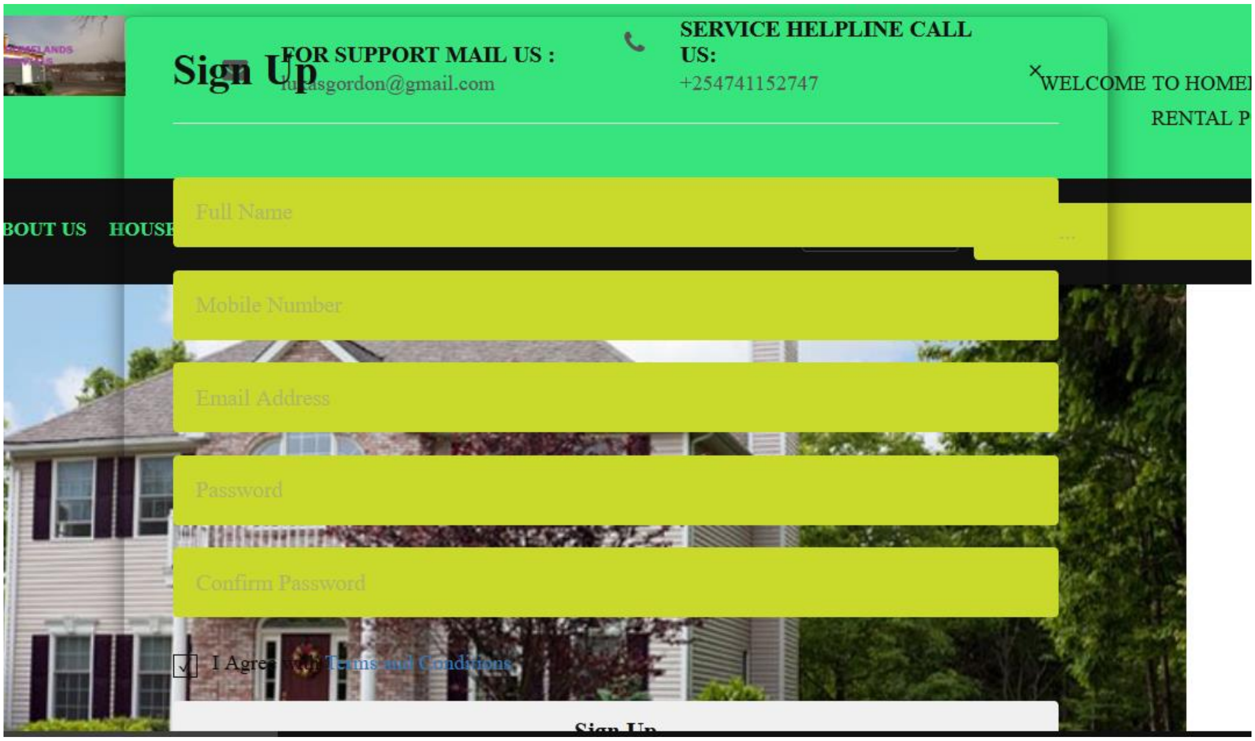
SUBSCRIBE NEWSLETTER

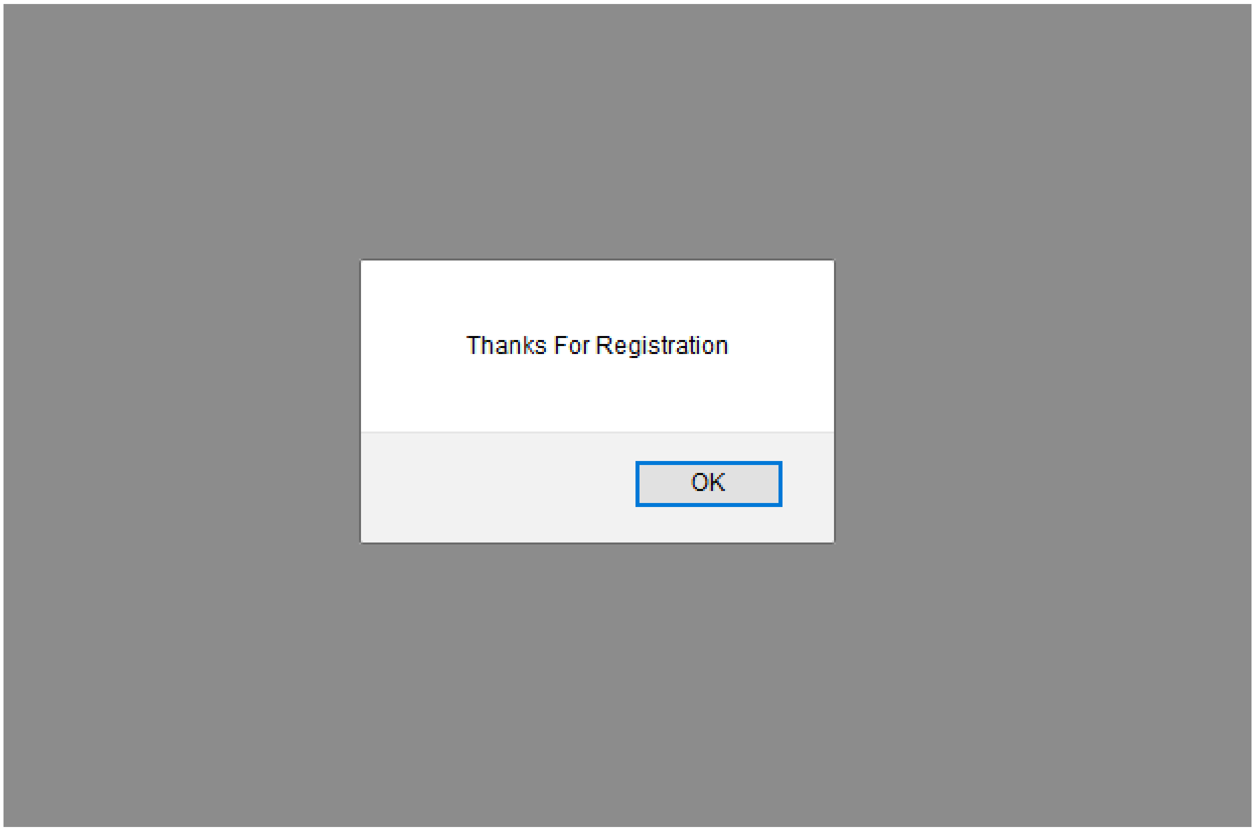
*We send great deals and latest auto news to our subscribed users avery week.



Subscribed successfully.

Sign Up form





Thanks For Registration

CHAPTER 6

CONCLUSION

6.1 Conclusion

House Rental business has emerged with a new goodies compared to the past experience where every activity concerning House rental business is limited to a physical location only. Even though the physical location has not been totally eradicated; the nature of functions and how these functions are achieved has been reshaped by the power of internet. Nowadays, customers can reserve book/buy/sale House online, rent House online, and have the house contracted successfully without any sweat once the customer is a registered member of the House Rental Management System.

The web based House rental system has offered an advantage to both Tenants as well as Landlords to efficiently and effectively manage the business and satisfies customers’ need at the click of a button.

6.2 Limitation of the system

The system at present does not take care of the money payment methods, as the consolidated constructs need SSL standards and are critically to be initiated in the first face, the application of the credit card transactions is applied as a developmental phase in the coming days. The system needs more elaborative technicality for its inception and evolution.

6.3 REFERENCES

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GLOSSARY

1.	MB	Megabytes
2.	GB	Gigabytes
3.	SQL	Structural Query language
4.	Admin	Administrator
5.	RAM	Random Memory
6.	PHP	Hypertext preprocessor
7.	HTML	Hypertext Markup Language