**A Project Report on**

**“ATTENDANCE MANAGEMENT SYSTEM”**

**Submitted in partial fulfillment of the requirement for**

**Degree in Bachelor of Engineering (Information Technology)**

**By**

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**CERTIFICATE**

This is to certify that the project entitled

**ATTENDANCE MANAGEMENT SYSTEM**

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In partial fulfillment of degree of T.E in **Information Technology** for term work of the project is approved.

**External Examiner Internal Examiner**

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**Internal Guide**

**Date: -**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Head of Department**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**ABSTRACT**

Education is the sole basis on which future of the human race depends. Our quest for knowledge is unending and will continue till planet Earth exists. A man without education is like a building without foundation.There are many reasons why people need education.It helps them to learn new things, find good jobs and to lead a respectable life in the society.

Now in order to receive this education we have to be a part of an institution or an university. So we need to follow all the rules and regulation which is given by the university so that we might to do things in a proper order and receive quality education.One of the compulsary criteria which almost all educational institutes follow is 75% minimum attendance that has to be maintained by the students.

So our website is a online system that students can use in order to know the status of their attendance.The students has to signup first, and then add the subjects for which the attendance has to be calculated and on regular basis update it so that at the end of the week they get overall percentage of how much they have attended.

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**Chapter 1**

**INTRODUCTION**

**1.1 Problem Statement**

As there is a lot of transition happening in the education system of our society because of the remarkable progress in the field of science and technology.So the requirement of quality education has increased so much that in order to find a well paying job, higher education must be an important factor in a students life.Therefore educational institutes and university has made the curriculum pattern in such a way that students along with education have an overall development. So attending lectures regularly especially in colleges is very important, which most of the students find it difficult to sit for long hours.

So in order to fulfill the minimum criteria students have to attend the lectures regularly, and to keep a track of overall percentage of the lectures they have attended weekly or monthly is not possible.It becomes very difficult to calculate manually, for each and every subject and everyday how much they have attended.

**1.2 Project Objective**

* To produce a web-based system that allows students to calculate the overall percentage of the lectures they have attended in college on weekly or monthly basis.
* To make the students aware of the number of lectures attended subjectwise.

**1.3 Project Scope**

* Since the basic idea behind the project is to manage the attendance online we provide a signup page for the students to register. So that they can use it as a registered user
* It includes a login page in which user has to login through the username and password which he/she had given during signup to keep a track of each user which uses the website, ensuring authentication , confidentiality and security to user
* Also, it includes a dashboard where user can add the subjects for which the attendance has to be calculated.After adding we get overall analysis of each subject as we update it everyday.
* We also provide the user with the percentage of the lectures attended and how much more lectures they have to attend to fulfill the criteria

**1.4 Advantages**

Renting Stuffs has its advantages when it comes to cost, quality and time.

1. Cost Effective: Paying a large sum of money to buy furniture is no longer viable for many people. We can easily rent furniture, appliances for a much lower price. With a wide range of prices and a large range of available furniture, we have the right product for the needs of the occupant.

2. Hassle Free: Purchasing furniture can be a tiresome task. Finding a large sum of money to purchase furniture and [appliances](https://www.directappliancerentals.com.au/products/kitchen/) can also cause significant stress. Renting furniture comes without such hassles. The appliance can be easily returned once the period of rental is over without any complications. There is also the opportunity to purchase the rental goods at the end of the lease (rent to own) saving you the hassle of purchasing something that doesn’t suit you.

3. Convenient: With free delivery, the furniture to be rented can quickly and easily be delivered to your doorstep with free installation.

4. Long or Short Term: The idea of rental furniture is not only suitable for a short term but also long term. From weeks to months, furniture and appliances can be rented for a flexible amount of time serving the needs of the renter. The goods can be returned at the end of the lease with no more to pay or can be bought outright for a small additional cost.

5. Flexibility: The needs of our customers change frequently. Renting furniture and appliances allows a level of flexibility you cannot achieve when purchasing outright.

**1.5 Disadvantages**

This project will only focus on buyers/renters and not on sellers.

The project will not be a fully responsive as we cannot ensure online money transferring and aadhar verification as it requires authenticity.

**Chapter 2**

**PROJECT PLAN**

**2.1 Table for Project Plan**

**Table 2.1.1 Project Plan**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.No** | **Task Name** | **Duration to Complete** | **Start Date** | **End Date** | **Resource Name** |
| 1 | Selection of project Topic | 5 days | 11/7/18 | 15/7/18 | Internet, Group Discussion |
| 2 | Requirement Analysis | 7 days | 18/7/18 | 24/7/18 | Internet,Group discussion |
| 3 | Further Research on the selected topic to check feasibility | 4 days | 25/7/18 | 28/7/18 | Existing similar websites |
| 4 | Role division | 3 days | 1/8/18 | 3/8/18 | Group Discussion |
| 5 | Acquisition of software | 2 days | 4/8/18 | 5/8/18 | Laptops,Internet,Executable files |
| 6 | Detailed design of project-database,webpage layouts | 4 days | 5/7/17 | 8/7/18 | Group Discussion,software utilities,internet |
| 7 | Implementation-coding | days | 8/8/18 | /8/18 | Group discussion,software utilities,reference book,internet |
| 8 | Testing |  |  |  | Software utilities |
| 9 | Deployment |  |  |  | Project |

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**2.2 Table for Task Sheet**

**Table 2.2.1 Task Sheet**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.No** | **Task Name** | **Sub Task** | **Start Date** | **End Date** | **Person Allotted** |
| 1. | Introduction and research on Project related technologies | Understanding and learning HTML, CSS and JAVASCRIPT | 15/7/18 | /7/18 | Rachel  Rony  Nevin |
| 2. | Acquisition of software | Review of software versions, Downloads from internet, Distribution of software among project members. | 4/8/18 | 5/8/18 | Rachel  Rony  Nevin |
| 3. | Decisions on design of the project | -Finalizing the web layout  -Finalizing the database tables | 5/8/18 | 8/8/18 | Rony  Nevin |
| 4. | Designing the layout | Includes homepage and various user interactive and responsive web pages | 1/8/18 | 9/8/18 | Olivia,  Ayrin |
| 5. | Coding | Coding various user interface events | 8/8/18 |  | Rachel  Rony  Nevin |
| 6. | Rich interactive elements added | Image carousel addition ,designing responsive navigation,implem-entation of dynamic web page creation |  |  |  |
| 7. | Testing and Security | Development of test cases Validation and verification. Includes providing security against SQL injection |  |  |  |
| 8. | Deployment of application on server | Publishing project on server |  |  |  |
| 9. | Documentation | Test plan and Test cases, Final Report Submission |  |  |  |

**2.3. Project Roles and Responsibility**

**Table 2.3.1**

|  |  |  |
| --- | --- | --- |
| **Role** | **Responsibility** | **Assigned Person** |
| Full Stack Developer | 1.Homepage(CSS/JavaScript)  2.Login/Registration Page  3.Subject input Page | Rachel |
| Full Stack Developer | 1. Homepage(HTML)  2.Sign-up Page  3.Login/Registration database | Rony |
| Front End Developer | 1. Subject Analysis Page  2. Billing Page  3. Dashboard Page | Nevin |

**Chapter 3**

**REQUIREMENT ANALYSIS**

**3.1. Functional Requirements**

A software requirements definition is an abstract description of the services which the system should provide and the constraints under which the system must operate.

These requirements are offered in the following points:

* **Login**- We have login for customers who are willing to rent a product from our website. Here we use Mysql for storing customer personal details into the database.
* **Registration-** For first time users, we provide with the functionality of registration with us, so that it becomes a hassle free process for the customers who purchase products for more than one time
* **Data Retrieval in Product Page**- We retrieve product details directly from database without any interference of middleman, hence saving cost.
* **Add to cart**-Customers can add products,their quantity into a cart.Upon selecting add to cart user is redirected to Billing page where the total bill is shown.

**3.2. Non-Functional Requirements:**

* **GUI-** For an interactive use of the website, we provide a navigation bar to the user so that he/she can easily access various website sections at a glance. Image slider is used to display featured products we use slider which gives a quick view to user.
* **Authentication-** We use login/registration process so that only verified customers are only able to login.
* **Reliability:** If the user loses his data, we store all customer related data in our database, ensuring faster recovery.
* **Confidentiality:** We use email verification so that no personal details are leaked.

**3.3 . Hardware Requirements**

* 4 Gb RAM
* 64 bit OS
* 1 TB ROM
* intel i3 core processor.

**3.4 . Software Requirements**

* Operating System :Windows 8
* Front end :html5,css3
* Database : mysql
* Tools used : Xampp

**3.5 . System Features**

* Allows user to rent a furniture for a specific time period.
* Customer details are saved in database to fasten the process of renting.

**Chapter 4**

**DESIGN DOCUMENT**

**4.1 Design view of web pages layout**

**4.1.1.Mainpage:**

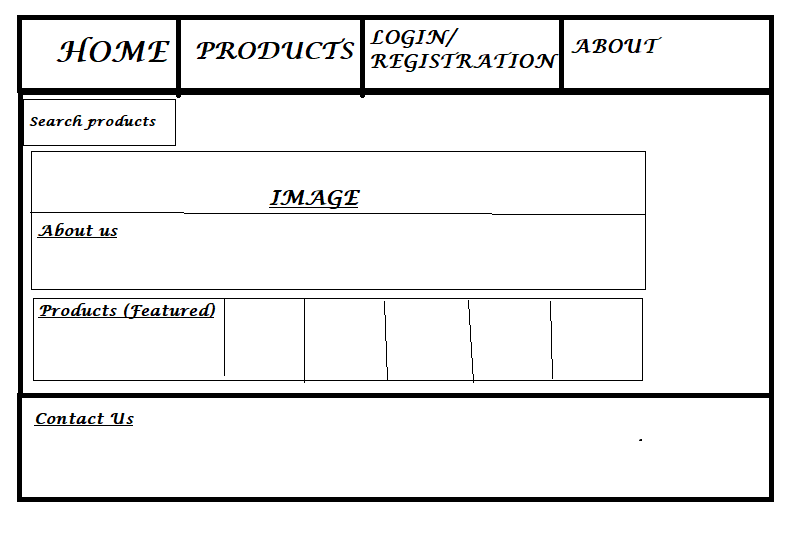


Fig 4.1.1 Mainpage

**4.1.2 Login and Registration Page** :

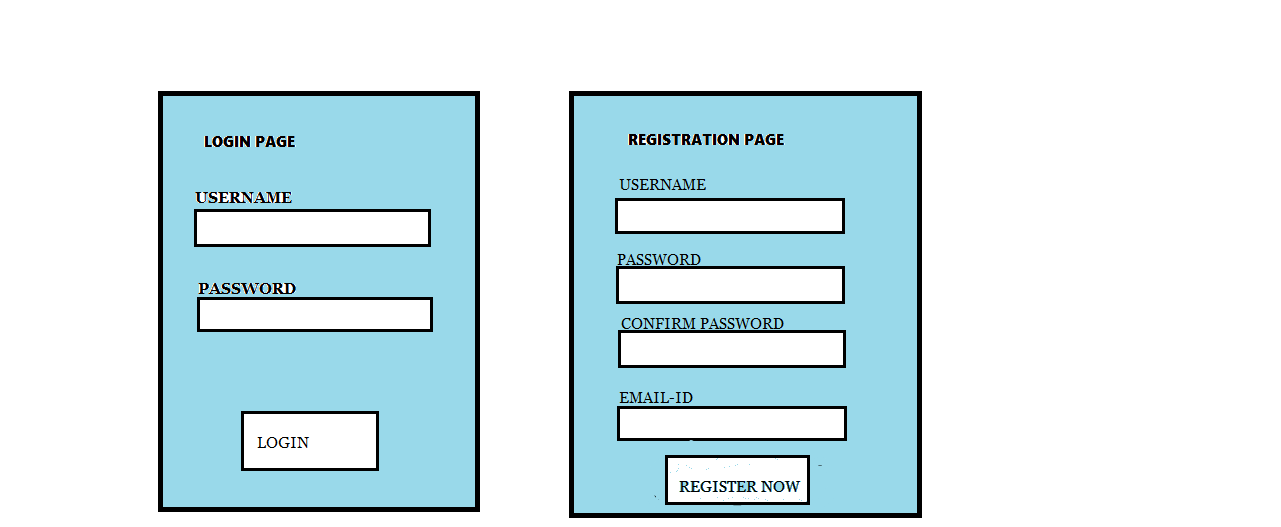


Fig 4.1.2 Login and Registration Page

**4.1.3 Buyer Page:**

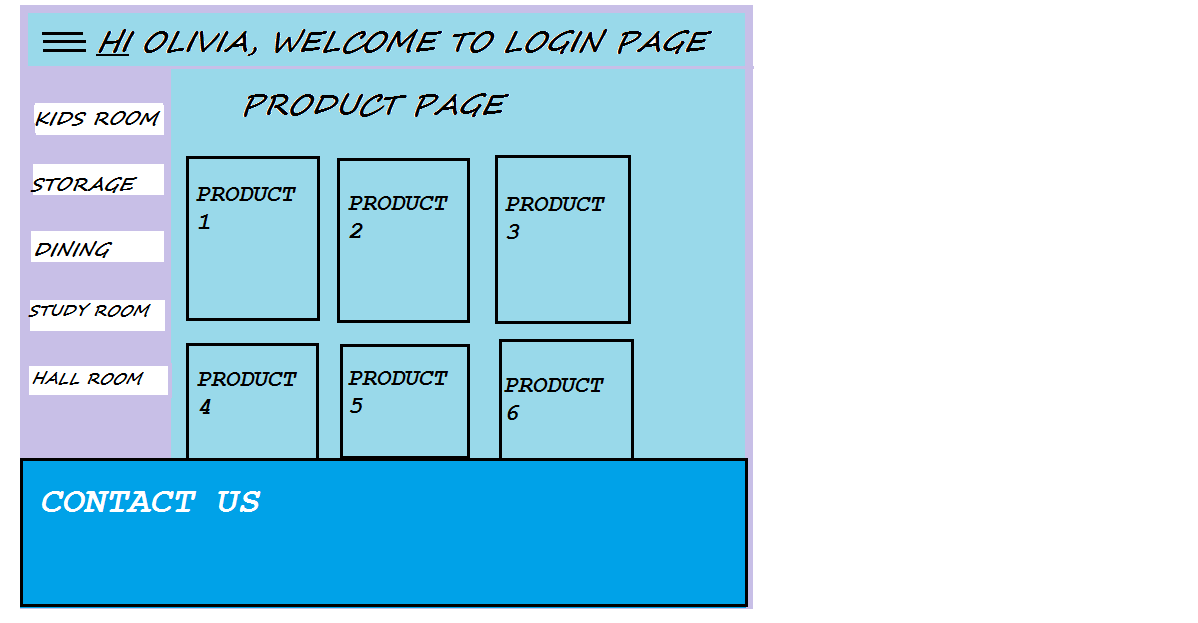


Fig 4.1.3 Buyer Page

**4.1.4 Product Description :**

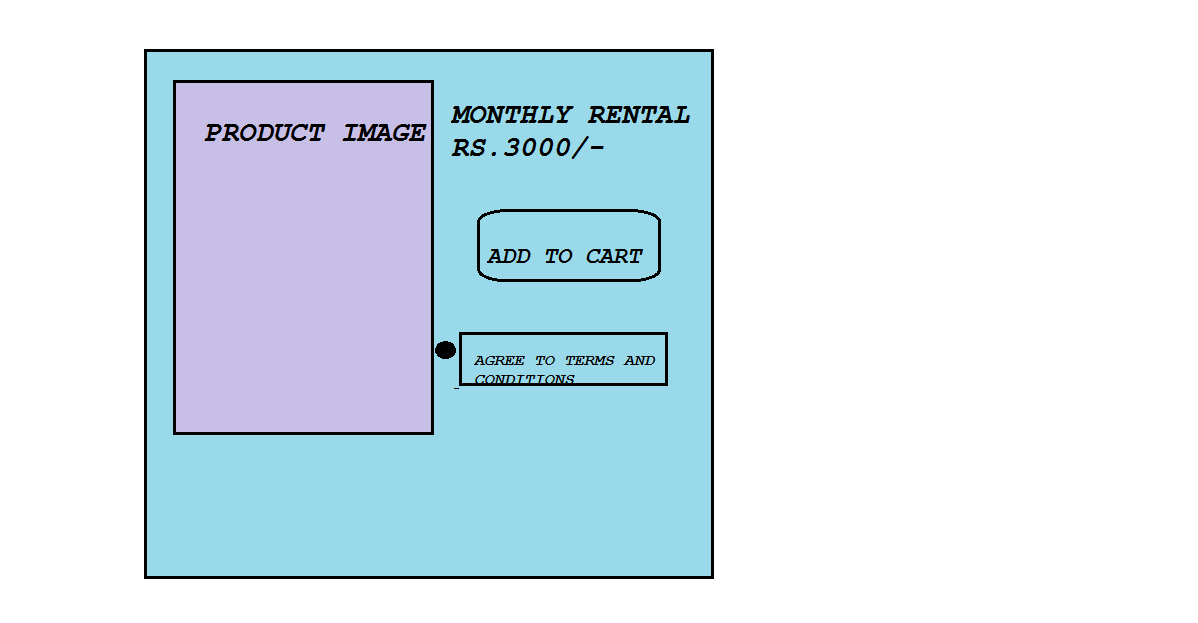
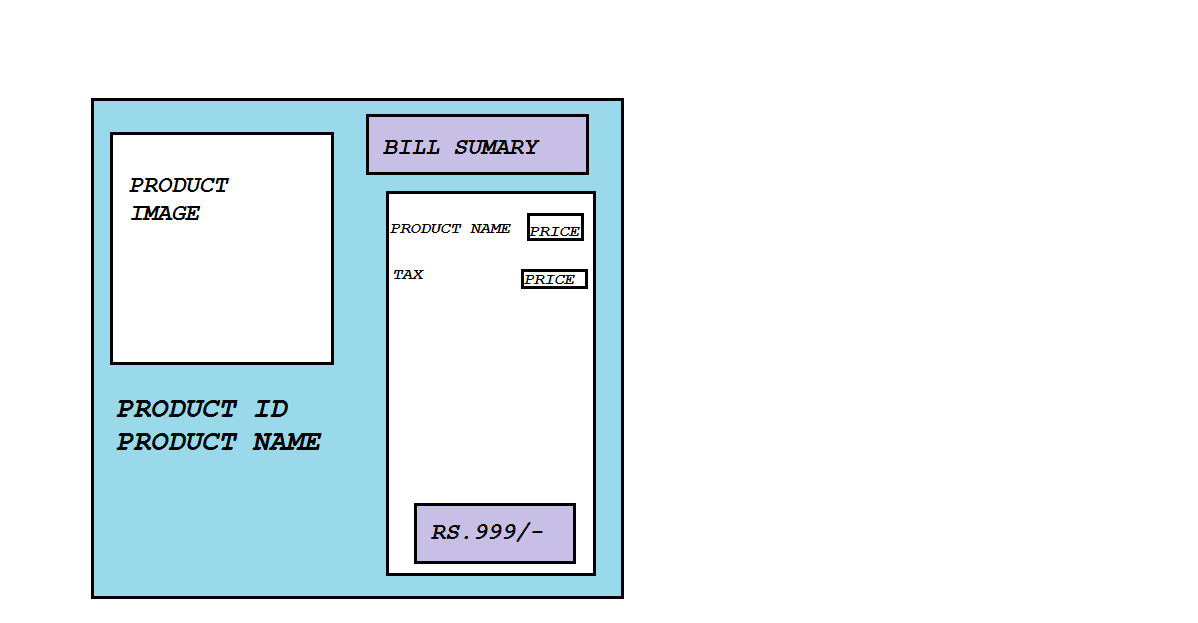


Fig 4.1.4 Product Description Page

**4.1.5 Billing page:**

  
 Fig 4.1.5 Billing Page

**4.2 Code design for Responsive web design:**

@media screen and (max-width: 600px) {

.topnav a:not(:first-child) {display: none;}

.topnav a.icon {

float: right;

display: block;

}

}

@media screen and (max-width: 600px) {

.topnav.responsive {position: relative;}

.topnav.responsive .icon {

position: absolute;

right: 0;

top: 0;

}

.topnav.responsive a {

float: none;

display: block;

text-align: left;

font-size: 12px;

}

**4.3 RIA design using AJAX:**

<script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>

<script type="text/javascript">

$(document).ready(function(){

$('.search-box input[type="text"]').on("keyup input", function(){

/\* Get input value on change \*/

var inputVal = $(this).val();

var resultDropdown = $(this).siblings(".result");

if(inputVal.length){

$.get("backend-search.php", {term: inputVal}).done(function(data){

// Display the returned data in browser

resultDropdown.html(data);

});

} else{

resultDropdown.empty();

}

});

// Set search input value on click of result item

$(document).on("click", ".result p", function(){

$(this).parents(".search-box").find('input[type="text"]').val($(this).text());

$(this).parent(".result").empty();

});

});

</script>

**Chapter 5**

**DATABASE DESIGN AND CONNECTIVITY**

**5.1 Database Table Design**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| product\_id | category | title | price | description | Image | Keywords |

Table 5.1.1 Products Table

|  |  |  |
| --- | --- | --- |
| product\_id | ip\_add | qty |

Table 5.1.2 Cart Table

|  |  |
| --- | --- |
| cat\_id | cat\_name |

Table 5.1.3 Category Table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| cust\_id | cust\_ip | name | email | pass | Contact | Address |

Table 5.1.4 Customer Table

|  |  |  |  |
| --- | --- | --- | --- |
| username | password | confirmpassword | Email |

Table 5.1.5 Login Table

|  |  |
| --- | --- |
| username | password |

Table 5.1.6 Admin Table

**5.2 Database Connectivity**

<?php

$dbhost = 'localhost';

$dbuser = 'root';

$dbpass = 'password';

$conn = mysql\_connect($dbhost, $dbuser, $dbpass);

if(! $conn ) {

die('Could not connect: ' . mysql\_error());

}

$sql = 'SELECT detail,price FROM images where id =4';

mysql\_select\_db('olivia');

$retval = mysql\_query( $sql, $conn );

if(! $retval ) {

die('Could not get data: ' . mysql\_error());

}

while($row = mysql\_fetch\_array($retval, MYSQL\_ASSOC)) {

echo

"{$row['detail']} <br> "."Rent: {$row['price']} <br> "

;

}

?></div>

**Chapter 6**

**IMPLEMENTATION DETAILS**

**6.1 Snapshots**

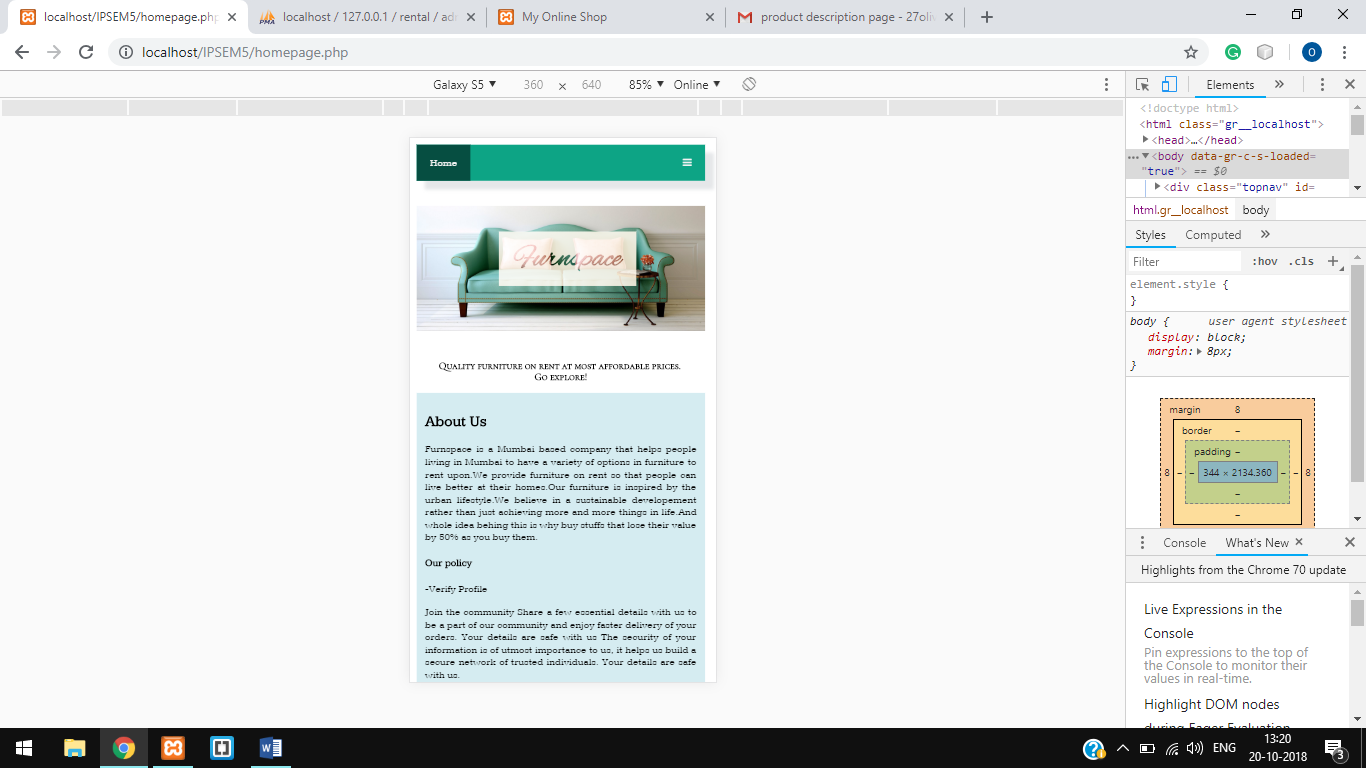


Fig 6.1.1Homepage

Responsive Homepage containing details of the website and products on display with Login button.

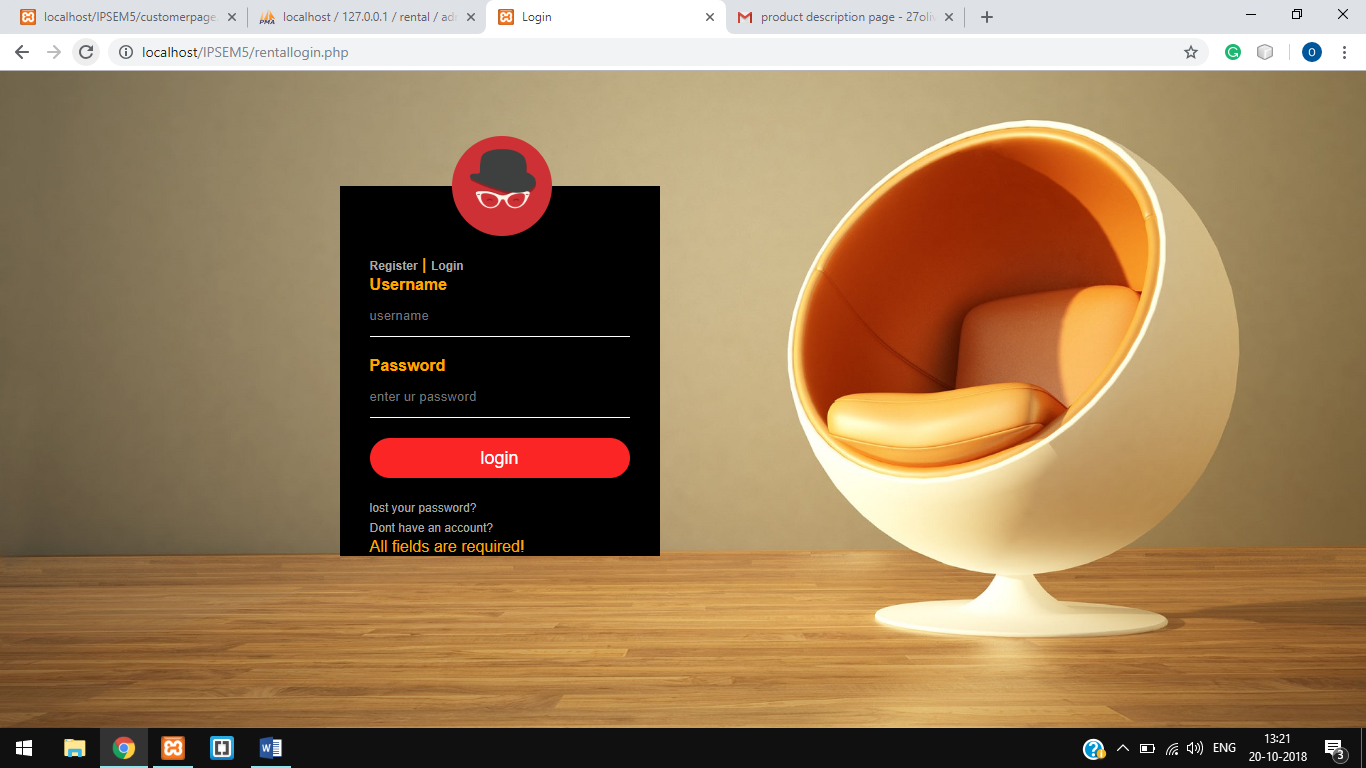


Fig 6.1.2 Login Page

Registered user can login by entering their username and password with a forgot password option.

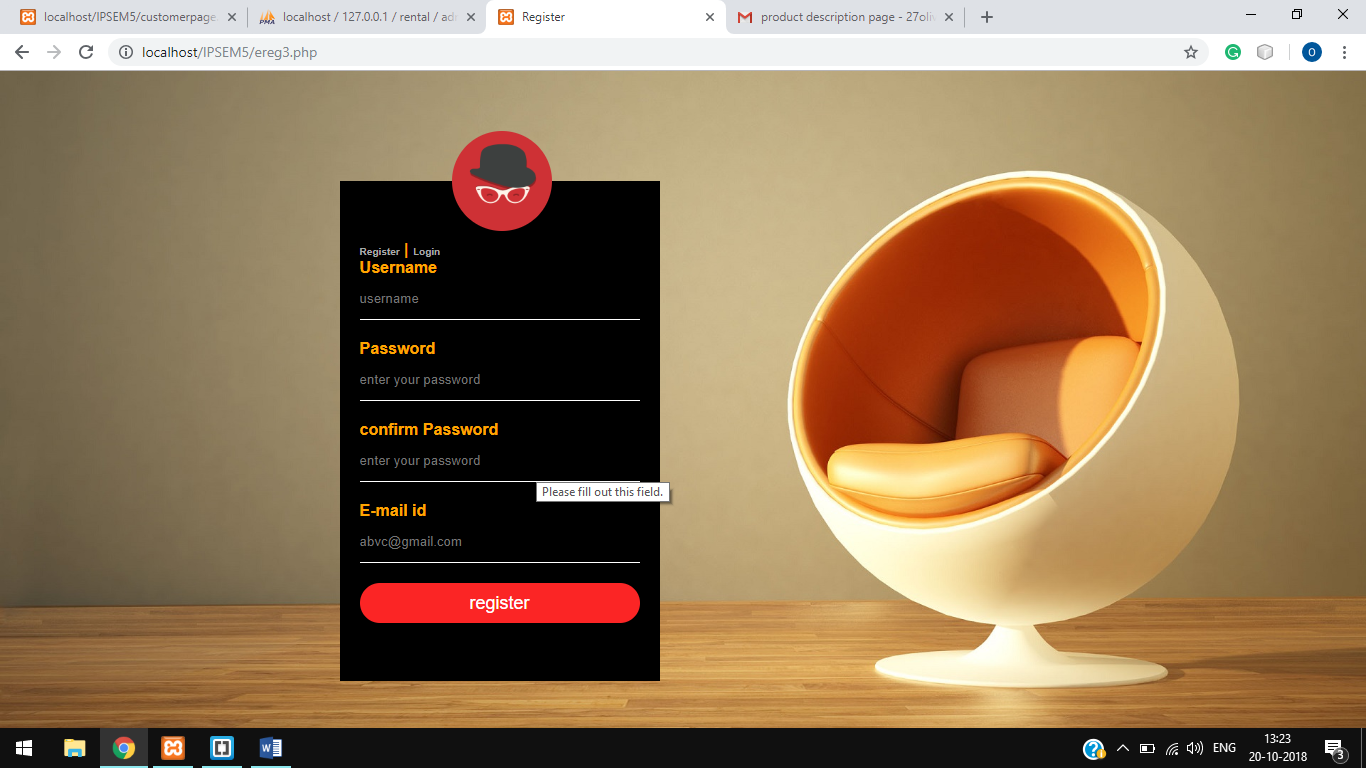


Fig 6.1.3 Registration Page

New users can register themselves by creating username,password and entering valid email\_id as the website verifies for the syntax of the email\_id entered.

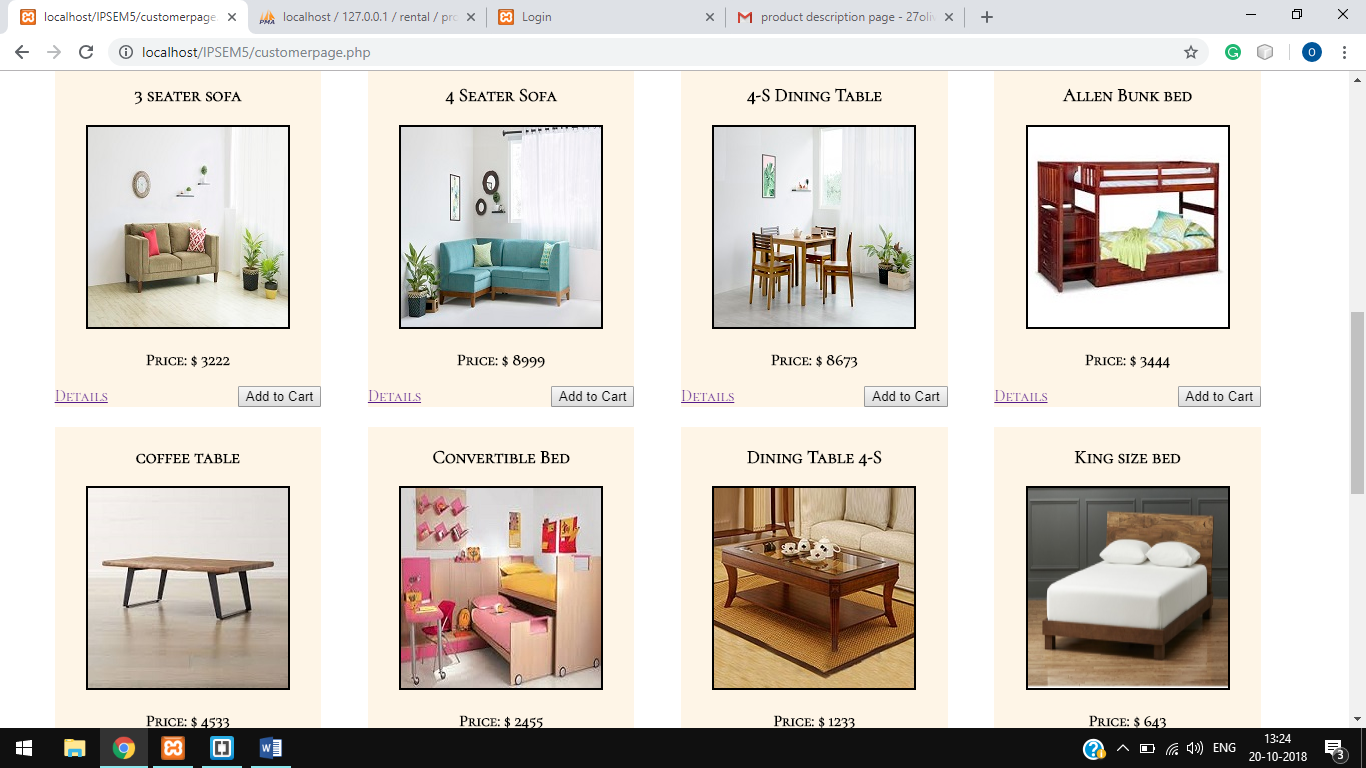


Fig 6.1.4 Products Page

The page contains all the featured products of the website containg the image,price,details and add to cart button.

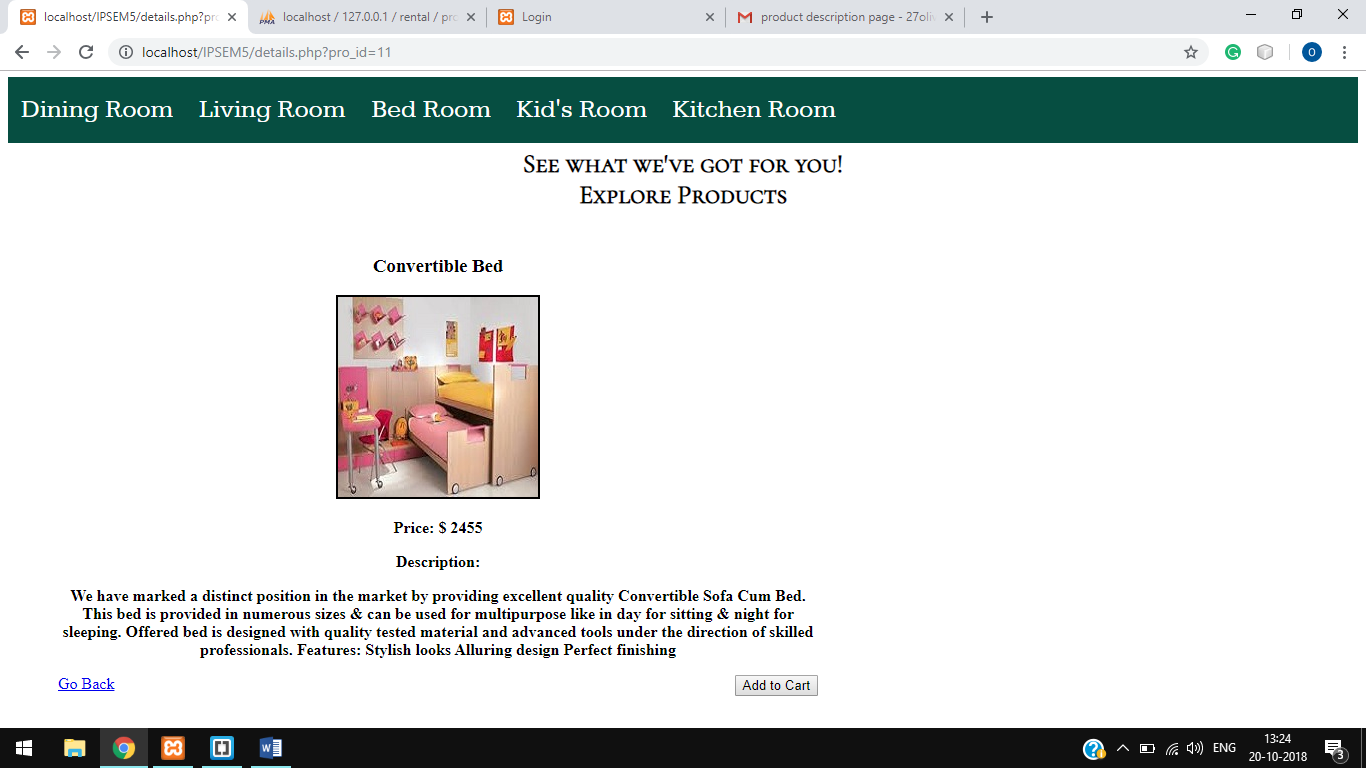


Fig 6.1.5 Product Description Page

Contains detailed description about the product and with navigation bar,go back and add to cart button.

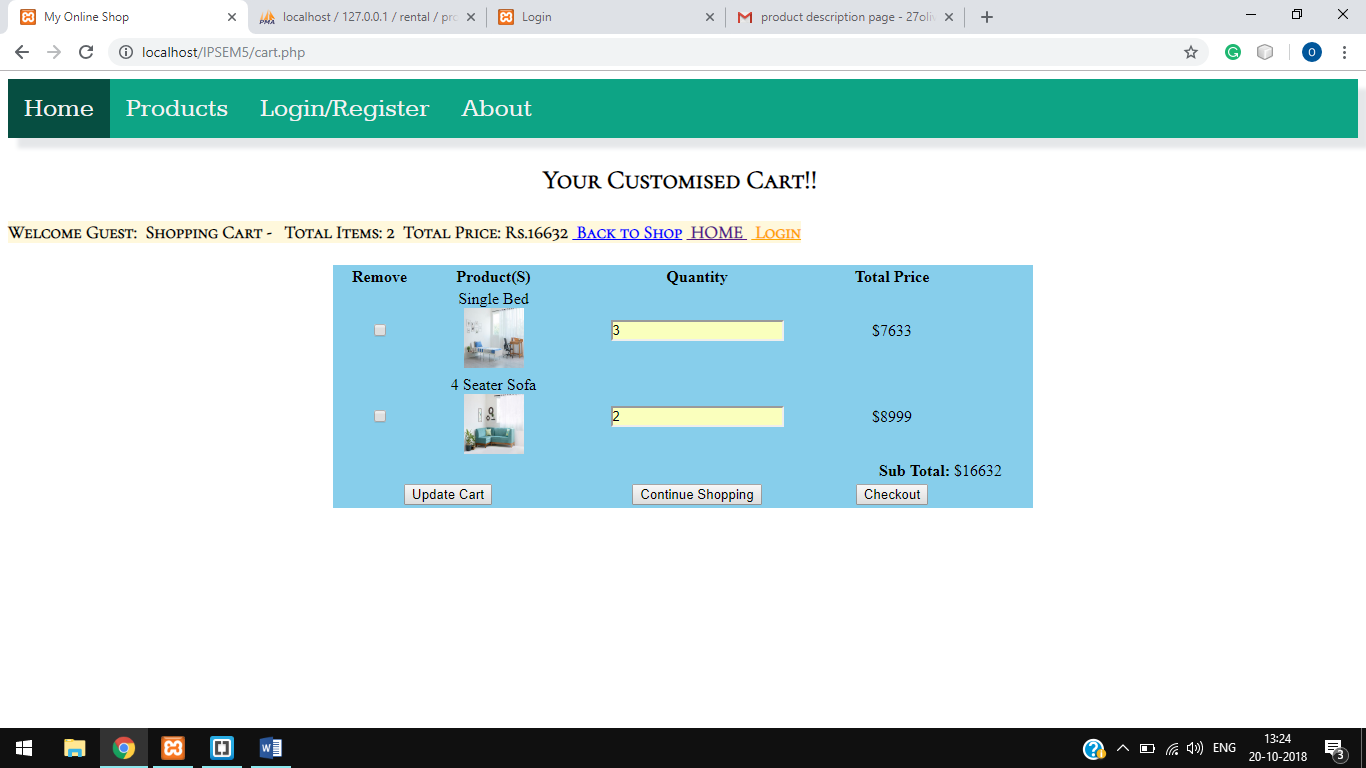


Fig 6.1.6 Billing Page

Billing page allows user to view their cart in which they have added products,allows user to update quantity and generates sub total amout with update cart,continue shopping and checkout buttons.

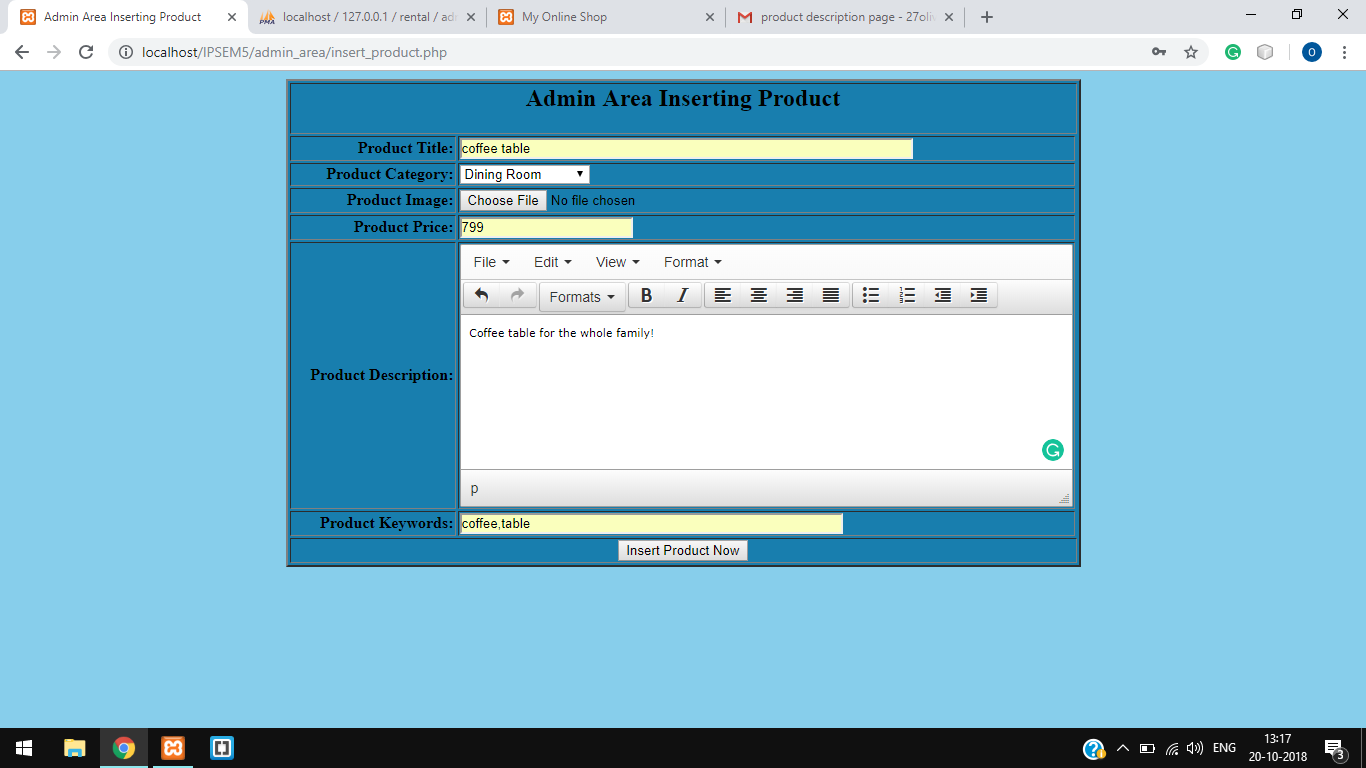
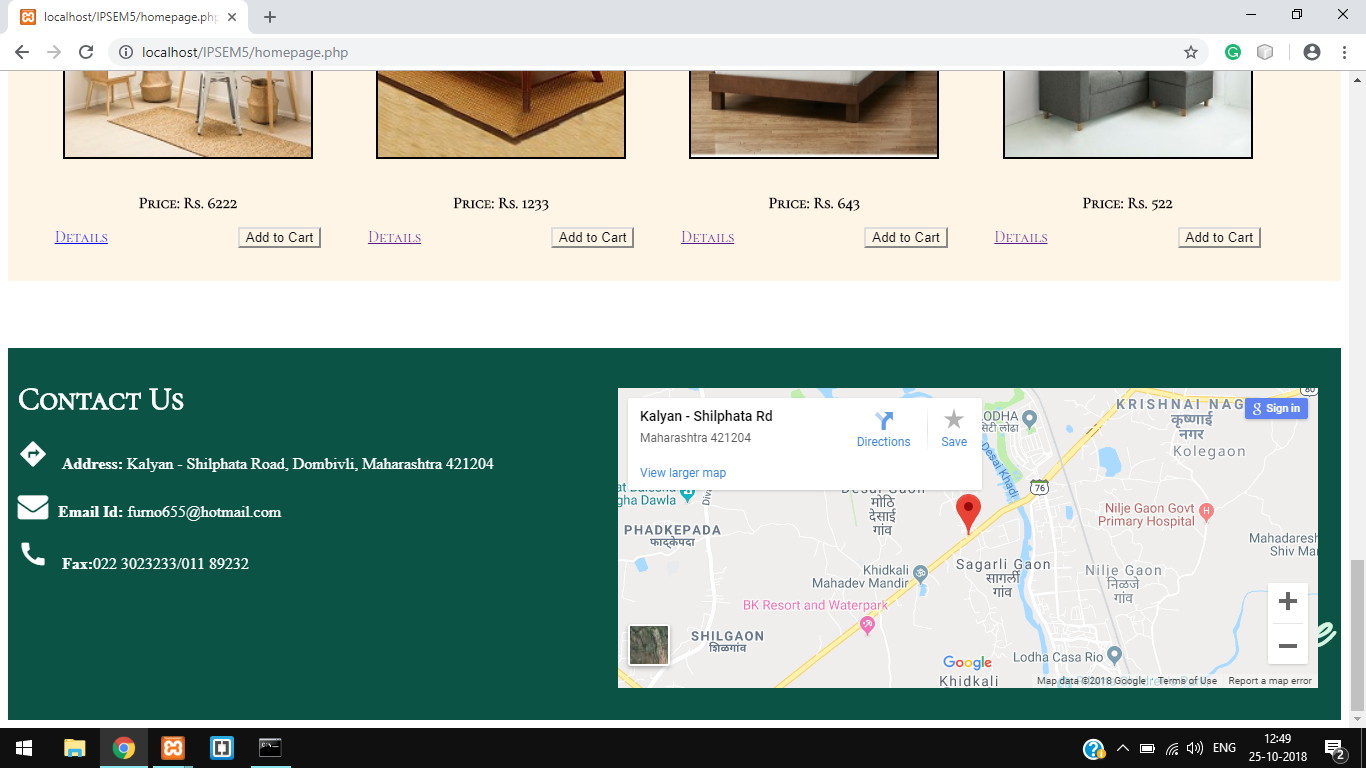


Fig 6.1.7 Admin Product Insertion Page

Admin can add new products through this page,it asks for product title,category,image,price,description and keywords with insert product now button.

Fig 6.1.8 Iframe

Customers can locate their address on the map to check for the availability of the products.

**Chapter 7**

**TESTING**

**7.1 HTML form validation**

<form action="" method="POST" action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]);?>">

<p>Username</p>

<input type="text"name="user" placeholder="username" required>

<script type="text/javascript">

</script>

<p> Password</p>

<input type =password name="pass1" id="pass1" placeholder="enter your password" pattern="(?=.\*\d)(?=.\*[a-z])(?=.\*[A-Z]).{8,}" title="Must contain at least one number and one uppercase and lowercase letter, and at least 8 or more characters" required>

<p> confirm Password</p>

<input type =password name="pass2" id="pass2" placeholder="enter your password" required>

<div id="message">

<h6>Password must contain the following:Lower case,Capital letter,Number,Minimum 8 characters</h6>

<p id="letter" class="invalid"> </p>

<p id="capital" class="invalid"> </p>

<p id="number" class="invalid"> </p>

<p id="length" class="invalid"> </p>

</div>

<script>

var myInput = document.getElementById("pass1");

var letter = document.getElementById("letter");

var capital = document.getElementById("capital");

var number = document.getElementById("number");

var length = document.getElementById("length");

// When the user clicks on the password field, show the message box

myInput.onfocus = function() {

document.getElementById("message").style.display = "block";

}

// When the user clicks outside of the password field, hide the message box

myInput.onblur = function() {

document.getElementById("message").style.display = "none";

}

// When the user starts to type something inside the password field

myInput.onkeyup = function() {

// Validate lowercase letters

var lowerCaseLetters = /[a-z]/g;

if(myInput.value.match(lowerCaseLetters)) {

letter.classList.remove("invalid");

letter.classList.add("valid");

} else {

letter.classList.remove("valid");

letter.classList.add("invalid");

}

// Validate capital letters

var upperCaseLetters = /[A-Z]/g;

if(myInput.value.match(upperCaseLetters)) {

capital.classList.remove("invalid");

capital.classList.add("valid");

} else {

capital.classList.remove("valid");

capital.classList.add("invalid");

}

// Validate numbers

var numbers = /[0-9]/g;

if(myInput.value.match(numbers)) {

number.classList.remove("invalid");

number.classList.add("valid");

} else {

number.classList.remove("valid");

number.classList.add("invalid");

}

// Validate length

if(myInput.value.length >= 8) {

length.classList.remove("invalid");

length.classList.add("valid");

} else {

length.classList.remove("valid");

length.classList.add("invalid");

}

}

</script>

<p>E-mail id</p>

<input type="email" name="email" placeholder="abvc@gmail.com">

<input type="submit" name="submit" name="" value="register" onsubmit="validateemail()" onclick="return Validate12()" >

<script>

function validateemail()

{

var x=document.myform.email.value;

var atposition=x.indexOf("@");

var dotposition=x.lastIndexOf(".");

if (atposition<1 || dotposition<atposition+2 || dotposition+2>=x.length){

alert("Please enter a valid e-mail address \n atpostion:"+atposition+"\n dotposition:"+dotposition);

return false;

}

}

</script>

<script type="text/javascript">

function Validate12() {

var password = document.getElementById("pass1").value;

var confirmPassword = document.getElementById("pass2").value;

if (password != confirmPassword) {

alert("Passwords do not match.");

return false;

}

return true;

}

</script>

</form>

**7.2 Website Security testing for SQL injection**

if(!empty($\_POST['user']) && !empty($\_POST['pass1']) && !empty($\_POST['pass2']) && !empty($\_POST['email'])) {

$user= mysqli\_real\_escape\_string($con,$\_POST['user']);

$pass1=mysqli\_real\_escape\_string($con,$\_POST['pass1']);

$pass2=mysqli\_real\_escape\_string($con,$\_POST['pass2']);

$email=mysqli\_real\_escape\_string($con,$\_POST['email']);

}

$query=mysqli\_query($con,"SELECT \* FROM login WHERE username='".$user."'");

$numrows=mysqli\_num\_rows($query);

if($numrows==0)

{

$sql="INSERT INTO login(username,password,confirmpassword,email) VALUES('$user','$pass1','$pass2','$email')";

**Chapter 8**

**WEBSITE LAUNCHING**

**Steps for website launching:**

1. Select and register a domain name.
2. Find, choose and purchase web hosting.
3. Make a backup copy of your website files.
4. Strive to make your website easy to navigate.
5. Validate your code.
6. Implement a site map.
7. Test your website in a variety of web browsers.
8. Ensure that you're using SEO-friendly code.
9. Install website analytics to keep track your website's success and current status.

Transfer your website's files to your web host.

**Chapter 9**

**CONCLUSION AND FUTURE SCOPE**

**Conclusion:**

We have successfully accomplished in implementing our proposed idea.Our website provides a wide range of furniture products for every room in home be it living,dining or bedroom.It allows user to choose among the products and rent it at a very cheap rate for a specified period of time.Users can add products in their cart and save .Customers can avail our special service of free installation, and returning.

Moreover,there is an admin login page wherein the admin can login to add,update or remove products and also category of products.The website is responsive i.e. the images,style constraints differ according to the device it is viewed in.

**Future Scope:**

In future we aim to take this website further more advance by adding more products,making it more user friendly by adding such styles,cookies so that we can track the customers interest and provide them a better range of those interest based products and chat box by which the customers can directly interact with the admin and clear their doubts.

We would also like to develop an app of our website for better personalization,ease of sending notifications and scanning of bar code to verify products.

**Chapter 10**

**APPENDIX I:CODE SAMPLE**

/\*ABOUT THE WEBSITE ANS IT’S POLICY\*/

<section>

<div id="about">

<h1> About Us</h1>

<p>Furnspace is a Mumbai based company that helps people living in Mumbai to have a variety of options in furniture to rent upon.We provide furniture on rent so that people can live better at their homes.Our furniture is inspired by the urban lifestyle.We believe in a sustainable developement rather than just achieving more and more things in life.And whole idea behing this is why buy stuffs that lose their value by 50% as you buy them.

<h4>Our policy</h4>

<p>-Verify Profile</p> <p>

Join the community

Share a few essential details with us to be a part of our community and enjoy faster delivery of your orders.

Your details are safe with us

The security of your information is of utmost importance to us, it helps us build a secure network of trusted individuals. Your details are safe with us.</p>

<p>-Pay refundable Deposits</p><p>

Bespoke products to suit your needs!

With tenures starting at just 3 months.Pay the deposit at start and collect while return.</p>

<p>-Pay at once</p><p>

The furnitures are specified with the tenure at which they can be rented.But you can always rent it again once your tenure is over.

You just have to pay the whole amount at the start of the tenure.The best thing is our staff woould come install furniture and while returning disassemble and recollect the furniture from your place itself.</p><p>\*All terms and conditions applied.</p>

</p>

</div>

</section>

<section>

<div id="about">

<h1> Why We?</h1>

<p>Furnspace provided an end to end furnishing products.Customers need not worry about the quality of the product at all.

Not just that we provide services and installation of furniture for free.We provide you with furnitures for every room,every nook and corner of your house.</p>

</p>

</div>

</section>

/\*RESPONSIVE\*/

@media screen and (max-width: 600px) {

.topnav a:not(:first-child) {display: none;}

.topnav a.icon {

float: right;

display: block;

}

}

@media screen and (max-width: 600px) {

.topnav.responsive {position: relative;}

.topnav.responsive .icon {

position: absolute;

right: 0;

top: 0;

}

.topnav.responsive a {

float: none;

display: block;

text-align: left;

font-size: 12px;

}

.topnav a{

font-size: 12px;

}

#intro{

font-size: 12px;

}

#about{

font-size: 12px;

}

footer h1{

font-size: 12px;

}

.textfooter{

font-size: 12px;

}

footer p{

font-size: 12px;

}

}

/\*RESPONSIVE CODE ENDS HERE!\*/

**ACKNOWLEDGEMENT**

We would like to express special thanks of gratitude to our guide **Asst. Prof. Kalpana Wani** who gave us the golden opportunity to do this wonderful project on the topic of **Online Rental System,**which helped us in doing a lot of research and we came to know about so many new things.We would also like to thank our HOD **Dr. H.K. Chavan** for providing us the opportunity to implement our project.We are really thankful to them.Finally we would also like to thank our parents and friends who helped us a lot in finalizing this project within the limited time frame.

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