

HOSTEL MANAGEMENT SYSTEM CSE3002 – INTERNET & WEB PROGRAMMING

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GROUP/TEAM PROJECT
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UNDER THE GUIDENCE OF PROF. NAVEEN KUMAR N SCOPE



School of Computer Science and Engineering

DECLARATION

I/We hereby declare that the J Component project entitled "hostel

management system" submitted by me/us to the School of Computer Science and

Engineering, VIT University, Vellore-14 in partial fulfillment of the requirements for

the Internet and Web Programming (CSE3002) course, is a record of bonafide

work carried out by me/us under the supervision of Naveen Kumar N, Assistant

Professor (Sr). I further declare that the work reported in this project has not been

submitted and will not be submitted, either in part or in full, for the award of any

other degree or diploma of this institute or of any other institute or university.

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1. Introduction

1.1. Aim

Hostel Management System is a software developed for managing various activities in the hostel. For the past few years the number of educational institutions are increasing rapidly. Thereby the number of hostels are also increasing for the accommodation of the students studying in this institution. So our aim is to provide easy web system that can be helpful for the places like this(KOTA) where the students are available in huge amount and managing them is properly decided yet.

1.2. Objective

- To deal with Hostel Management System in an easy and an efficient manner.
- Create strong and secrete database that allow for any connection in a secret way, to prevent any outside or inside attacks.
- Hostel Management System is designed for Hostel (like schools, Universities).
- There will be predefined criteria for the Reservation to the hostels.
- He/She checks the attested application forms of the students obtained from the internet and verify it with the student database.

2. System Requirements

- OS: windows
- xampp server(localhost)

Security Requirements:

Some of the factors that are identified to protect the software from accidental or malicious access, use, modification, destruction, or disclosure are described below. Keep specific log or history data sets

- 1. Assign certain functions to different modules 2. Restrict communications between some areas of the program
- 3. Check data integrity for critical variables
- 4. Later version of the software will incorporate encryption

3. Solution for Existing problems

3.1. Solution-1

3.1.1. Problem description and its Solution

As we know is there are still so many places where student goes for study for example place like Jaipur kota there so many student come but there is no proper management system. People are living in paying guest (PG) where there are hostels are available there but I my experience there is no proper management.

So we are designing a web site which will be helpful in places like this or we can say if planning to do business and earn form the web site so that will be place we will target or introduce our web site. In our web have design an option in which student can apply for room and manager can manage the room. All student can have their own login.so in some this is secure

3.1.2. Sample code

```
Index.php
<!DOCTYPE html>
<html lang="en">
<head>
<title>HMS</title>
<meta charset="UTF-8" />
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0"</pre>
/>
k href="web/css/style.css" rel="stylesheet" type="text/css" />
</head>
<body>
<h1>Hostel Management System</h1>
<div class=" w3l-login-form">
<h2>Student Login</h2>
<form action="includes/login.inc.php" method="POST">
<div class=" w3l-form-group">
<label>Student Roll No:</label>
<div class="group">
<i class="fas fa-user"></i>
<input type="text" class="form-control" name="student_roll_no"</pre>
placeholder="Roll No" required="required" />
</div>
</div>
<div class=" w3l-form-group">
<label>Password:</label>
<div class="group">
<i class="fas fa-unlock"></i>
<input type="password" class="form-control" name="pwd"
placeholder="Password" required="required" />
</div>
</div>
```

```
<!--<div class="forgot">
<a href="#">Forgot Password?</a>
<input type="checkbox">Remember Me
</div>-->
<button type="submit" name="login-submit">Login</button>
</form>
Don't have an account?<a href="signup.php"</pre>
class="register"> Sign up</a>
</div>
</body>
</html>
Sevice.php
<?php
require 'includes/config.inc.php';
?>
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
<style>
body {
font-family: Arial, Helvetica, sans-serif;
}
.navbar {
overflow: hidden;
```

```
background-color: #333;
}
.navbar a {
float: left;
font-size: 16px;
color: white;
text-align: center;
padding: 14px 16px;
text-decoration: none;
}
.dropdown {
float: left;
overflow: hidden;
}
.dropdown .dropbtn {
font-size: 16px;
border: none;
outline: none;
color: white;
padding: 14px 16px;
background-color: inherit;
font-family: inherit;
margin: 0;
}
.navbar a:hover, .dropdown:hover .dropbtn {
background-color: red;
}
.dropdown-content {
display: none;
```

```
position: absolute;
background-color: #f9f9f9;
min-width: 160px;
box-shadow: 0px 8px 16px 0px rgba(0,0,0,0.2);
z-index: 1;
}
.dropdown-content a {
float: none;
color: black;
padding: 12px 16px;
text-decoration: none;
display: block;
text-align: left;
}
.dropdown-content a:hover {
background-color: #ddd;
}
.dropdown:hover .dropdown-content {
display: block;
}
</style>
</head>
<body>
<div class="navbar">
<a href="services.php">Hostels</a>
<a href="contact.php">Contact</a>
<div class="dropdown">
<button class="dropbtn"><?php echo $_SESSION['roll']; ?>
<i class="fa fa-caret-down"></i>
</button>
```

```
<div class="dropdown-content">
<a href="profile.php">My profile</a>
<a href="includes/logout.inc.php">Logout</a>
</div>
</div>
</div>
<h2> Hostels </h2>
<a href="internquiz.php" <h3>hostel for intern</h3> </a><br>
<a href="pdetail.php" <h3>Apply for parent hostel</h3></a><br>
<img src="web_home/images/int1.png" width="500" height="400">
<img src="web_home/images/int2.jpg" width="500" height="400">
<img src="web_home/images/int3.jpg" width="500" height="400">
<img src="web_home/images/int4.jpg" width="500" height="400">
</body>
</html>
application_form.php: the student can fill the form.
<?php
require 'includes/config.inc.php';
?>
<!DOCTYPE html>
<html lang="en">
<head>
```

```
<title> Intrend Interior Category Flat Bootstrap Responsive Website
Template | Services : W3layouts</title>
```

<meta name="viewport" content="width=device-width, initial-scale=1">

```
<meta charset="utf-8">
</head>
<body>
< div >
<header>
<div class="container agile-banner_nav">
<nav class="navbar navbar-expand-lg navbar-light bg-light">
<h1><a class="navbar-brand" href="home.php">VIT <span
class="display"></span></a></h1>
<button type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false" aria-
label="Toggle navigation">
<span></span>
</button>
<div>
cli class="nav-item">
<a href="home.php">Home <span class="sr-
only">(current)</span></a>
cli class="nav-item active">
<a href="services.php">Hostels</a>
class="nav-item">
<a href="contact.php">Contact</a>
```

```
<
<a href="#" data-toggle="dropdown"><?php echo $_SESSION['roll']; ?>
<b class="caret"></b>
</a>
ul >
<
<a href="profile.php">My Profile</a>
<
<a href="includes/logout.inc.php">Logout</a>
</div>
</nav>
</div>
</header>
<!--Header-->
</div>
<section >
<div>
<h2 > Application Form </h2>
<div>
<form action="application_form.php?id=<?php echo $_GET['id']?>"
method="post">
<div>
<div data-aos="fade-right">
<div class="contact-fields-w3ls">
```

```
<input type="text" name="Name" placeholder="Name" value="<?php</pre>
echo $_SESSION['fname']." ".$_SESSION['lname']; ?>" required=""
disabled="disabled">
</div>
<div>
<input type="text" name="roll_no" placeholder="Roll Number"</pre>
value="<?php echo $_SESSION['roll']?>" required=""
disabled="disabled">
</div>
<div>
<input type="password" name="pwd" placeholder="Password"</pre>
required="">
</div>
</div>
<div data-aos="fade-left">
<div>
<textarea name="Message" placeholder="Message..." ></textarea>
</div>
<input type="submit" name="submit" value="Click to Apply">
</div>
</div>
</form>
</div>
</div>
</section>
</body>
</html>
profile.php:
<?php
require 'includes/config.inc.php';
?>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>User Profile</title>
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="keywords" content="Consultancy Profile Widget
Responsive web template, Bootstrap Web Templates, Flat Web
Templates, Android Compatible web template,
Smartphone Compatible web template, free webdesigns for Nokia,
Samsung, LG, SonyEricsson, Motorola web design" />
<script type="application/x-javascript"> addEventListener("load",
function() { setTimeout(hideURLbar, 0); }, false);
function hideURLbar(){ window.scrollTo(0,1); } </script>
<script type="application/x-javascript">
addEventListener("load", function () {
setTimeout(hideURLbar, 0);
}, false);
function hideURLbar() {
window.scrollTo(0, 1);
</script>
<!--// Meta tag Keywords -->
k href="web_home/css_home/slider.css" type="text/css"
rel="stylesheet" media="all">
</head>
<body>
```

```
<!-- banner -->
<div class="banner" id="home">
<div class="cd-radial-slider-wrapper">
<!--Header-->
<header>
<div class="container agile-banner_nav">
<nav class="navbar navbar-expand-lg navbar-light bg-light">
<h1><a class="navbar-brand" href="home.php"> <span
class="display"></span></a></h1>
<button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-center"</pre>
id="navbarSupportedContent">
cli class="nav-item active">
<a class="nav-link" href="home.php">Home <span class="sr-
only">(current)</span></a>
cli class="nav-item">
<a class="nav-link" href="services.php">Hostels</a>
class="nav-item">
<a class="nav-link" href="contact.php">Contact</a>
```

```
class="dropdown nav-item">
<!--<a href="#" class="dropdown-toggle nav-link" data-
toggle="dropdown"><?php echo $_SESSION['roll']; ?>
<b class="caret"></b>
</a>
<
<a href="profile.php">My Profile</a>
-->
<
<a href="includes/logout.inc.php" class="nav-link">Logout</a>
</div>
</nav>
</div>
</header>
<!--Header-->
<div class="main">
<div id="navigation" style="display:none;" class="w3_agile">
ul>
class="selected">
<a href="#"><i class="fa fa-list-ul" aria-
hidden="true"></i><span>Info</span></a>
<
<a href="#"><i class="fa fa-folder" aria-
hidden="true"></i><span>Hostel</span></a>
<
```

```
<a href="#"><i class="fa fa-envelope" aria-
hidden="true"></i><span>Contact</span></a>
</u1>
</div>
<div id="wrapper" class="w3ls_wrapper w3layouts_wrapper">
<div id="steps" style="margin:0 auto;" class="agileits w3_steps">
<form id="formElem" name="formElem" action="#" method="post"
class="w3_form w31_form_fancy">
<fieldset class="step agileinfo w3ls_fancy_step">
<legend>Personal Info</legend>
<div class="abt-agile">
<div class="abt-agile-left">
</div>
<div class="abt-agile-right">
<h3><?php echo $_SESSION['fname']." ".$_SESSION['lname'];
?></h3>
<h5>Student</h5>
<
<b>Roll No </b>
: <?php echo $_SESSION['roll']; ?>
<
<b>PHONE </b>
: <?php echo $_SESSION['mob_no']; ?>
\langle li \rangle
```

```
<b>DEPT </b>
: <?php echo $_SESSION['department']; ?>
<b>YEAR OF STUDY </b>
: <?php echo $_SESSION['year_of_study']; ?>
</div>
<div class="clear"></div>
</div>
</fieldset>
<fieldset class="step agileinfo w3ls_fancy_step">
<legend>Hostel Info</legend>
<div class="abt-agile">
<div class="abt-agile-left-hostel">
</div>
<div class="abt-agile-right">
<h3><?php echo $_SESSION['fname']." ".$_SESSION['lname'];
?></h3>
<h5>Student</h5>
<
<b>HOSTEL </b>
<?php
$hostelId = $_SESSION['hostel_id'];
if($hostelId == NULL){
$hostelName = 'None';
}
```

```
else {
$sql = "SELECT * FROM Hostel WHERE Hostel_id = '$hostelId'";
$result = mysqli_query($conn, $sql);
if($row = mysqli_fetch_assoc($result)){
$hostelName = $row['Hostel_name'];
}
else {
echo "<script type='text/javascript'>alert('Foreign Key Error-
hostenName!!')</script>";
}
}
?>
: <?php echo $hostelName; ?>
<
<b>ROOM NO </b>
<?php
$roomId = $_SESSION['room_id'];
if($hostelId == NULL || $roomId == NULL){
$roomNo = 'None';
}
else {
$sql = "SELECT * FROM Room WHERE Room_id = '$roomId'";
$result = mysqli_query($conn, $sql);
if($row = mysqli_fetch_assoc($result)){
$roomNo = $row['Room_No'];
}
else {
echo "<script type='text/javascript'>alert('Foreign Key Error-
roomNo!!')</script>";
```

```
}
}
?>
: <?php echo $roomNo; ?>
</div>
<div class="clear"></div>
</div>
</fieldset>
<!--
         <fieldset class="step wthree">
<legend>Work</legend>
<div class="work-w3agile">
<div class="work-w3agile-top">
<div class="agileits_w3layouts_work_grid1 w3layouts_work_grid1"</pre>
hover14 column">
<div class="w3_agile_work_effect">
\langle ul \rangle
\langle li \rangle
<a href="web_profile/images/c1.jpg" class="sb" title="Quis Nostrud"
Exercitation Ullamco Laboris Quis Autem Vel Eum Iure
Reprehenderit">
<figure>
<img src="web_profile/images/c1.jpg" alt=" " class="img-responsive" />
</figure>
</a>
\langle li \rangle
<a href="web_profile/images/c2.jpg" class="sb" title="Quis Nostrud"
Exercitation Ullamco Laboris Quis Autem Vel Eum Iure
Reprehenderit">
<figure>
<img src="web_profile/images/c2.jpg" alt=" " class="img-responsive" />
```

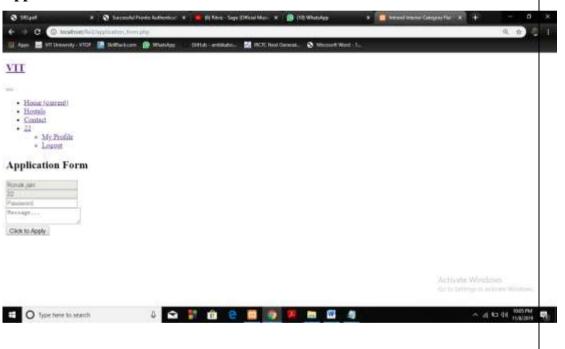
```
</figure>
</a>
<1i>>
<a href="" class="sb" title="Quis Nostrud Exercitation Ullamco Laboris
Quis Autem Vel Eum Iure Reprehenderit">
<figure>
<img src="web_profile/images/c3.jpg" alt=" " class="img-responsive" />
</figure>
</a>
<
<a href="web_profile/images/c4.jpg" class="sb" title="Quis Nostrud"
Exercitation Ullamco Laboris Quis Autem Vel Eum Iure
Reprehenderit">
<figure>
<img src="web_profile/images/c4.jpg" alt=" " class="img-responsive" />
</figure>
</a>
\langle li \rangle
<a href="web_profile/images/c5.jpg" class="sb" title="Quis Nostrud"
Exercitation Ullamco Laboris Quis Autem Vel Eum Iure
Reprehenderit">
<figure>
<img src="web_profile/images/c5.jpg" alt=" " class="img-responsive" />
</figure>
</a>
<
<a href="web_profile/images/c6.jpg" class="sb" title="Quis Nostrud"
Exercitation Ullamco Laboris Quis Autem Vel Eum Iure
Reprehenderit">
<figure>
```

```
<img src="web_profile/images/c6.jpg" alt=" " class="img-responsive" />
</figure>
</a>
<div class="clear"></div>
</div>
</div>
</div>
</div>
</fieldset>-->
<fieldset class="step agileinfo w3ls_fancy_step">
<le>egend>Hostel Manager Info</legend>
<div class="abt-agile">
<div class="abt-agile-left">
</div>
<div class="abt-agile-right">
<?php
$Hid = $_SESSION['hostel_id'];
$sql1 = "SELECT * FROM Hostel_Manager WHERE Hostel_id =
'$Hid'";
$result1 = mysqli_query($conn, $sql1);
if($row1 = mysqli_fetch_assoc($result1)){
$hmfname = $row1['Fname'];
$hmlname = $row1['Lname'];
hmMob = row1['Mob_no'];
$hmemail = $row1['Email'];
}
else {
$hmfname = 'none';
$hmlname = 'none';
$hmMob = 'none';
$hmemail = 'none';
}
```

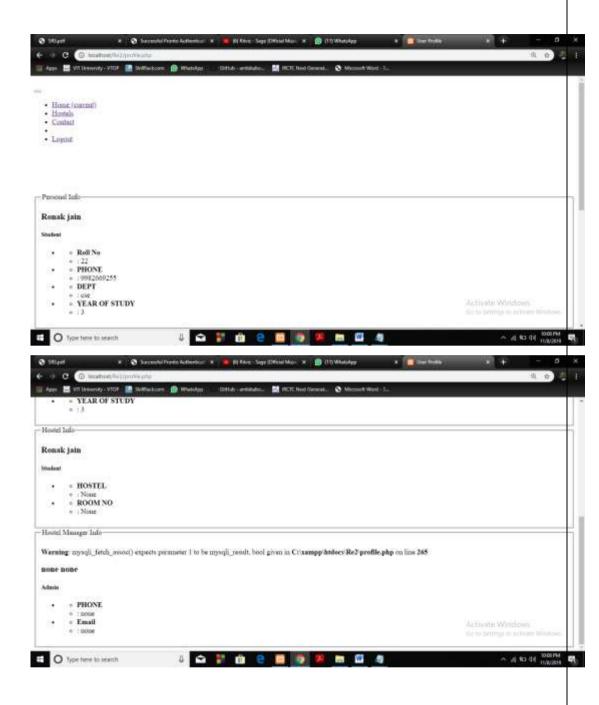
```
?>
<h3><?php echo $hmfname." ".$hmlname; ?></h3>
<h5>Admin</h5>
<
<b>PHONE </b>
<!>:<?php echo $hmMob; ?>
<
<b>Email </b>
: <?php echo $hmemail; ?>
</div>
<div class="clear"></div>
</div>
</fieldset>
</form>
</div>
</div>
</div>
</body>
</html>
```

3.1.3. Sample Screenshot

Application form:



Profile view



3.2. Solution-2

3.2.1. Problem description and its Solution

As we are B Tech student we need to do the internship as our collage curriculum. After applying for internship we face difficulties in finding the room at place where we need to do the internship. Because they say they do not allow people to stay for 2 or 3 months or short period of time. There are still some places available where staying for short time is available but finding them is little bit difficult task.

So we have designed a option in our web page in which the person have to give a quiz where we have asked some general questions according to that a list of hostels is visible to that person.

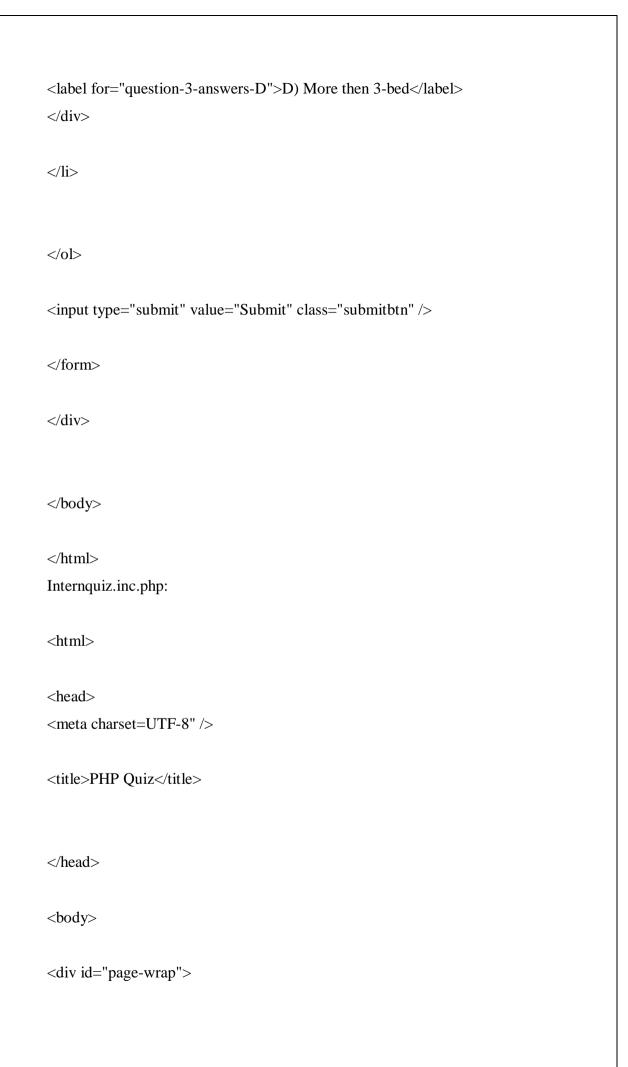
3.2.2. Sample code

```
Internquiz.php
<!Doctype html>
<head>
<meta charset=UTF-8"/>
<title>PHP QUIZ </title>
<style>body{ font: 14px Georgia, serif; }
#page-wrap { width: 500px; margin: 0 auto;}
h1 { margin: 25px 0; font: 18px Georgia, Serif; text-transform: uppercase;
letter-spacing: 3px; }
#quiz input {
vertical-align: middle;
}
#quiz ol {
margin: 0 0 10px 20px;
}
#quiz ol li {
margin: 0 0 20px 0;
}
#quiz ol li div {
padding: 4px 0;
}
```

```
#quiz h3 {
font-size: 17px; margin: 0 0 1px 0; color: #666;
}
#results {
font: 44px Georgia, Serif;
}</style>
</head>
<body>
<div id="page-wrap">
<h1>FILL YOUR REQUIREMENTS</h1>
<form action="includes/internquiz.inc.php" method="post" id="quiz">
<ol>
<
<h3>Which city you are going to be intern.</h3>
<div>
<input type="radio" name="ques-1-answers" id="question-1-answers-A"
value="A" />
<label for="ques-1-answers-A">A) Mumbai </label>
</div>
<div>
<input type="radio" name="question-1-answers" id="question-1-answers-B"
value="B"/>
<label for="question-1-answers-B">B) Pune</label>
```

```
</div>
<div>
<input type="radio" name="question-1-answers" id="question-1-answers-C"</pre>
value="C" />
<label for="question-1-answers-C">C) Kolkata</label>
</div>
<div>
<input type="radio" name="question-1-answers" id="question-1-answers-D"
value="D" />
<label for="question-1-answers-D">D) Delhi</label>
</div>
<
<h3>Time duration you want to stay.</h3>
<div>
<input type="radio" name="question-2-answers" id="question-2-answers-A"
value="A"/>
<label for="question-2-answers-A">A) 28 days</label>
</div>
<div>
<input type="radio" name="question-2-answers" id="question-2-answers-B"
value="B"/>
<label for="question-2-answers-B">B) 45 days</label>
</div>
<div>
```

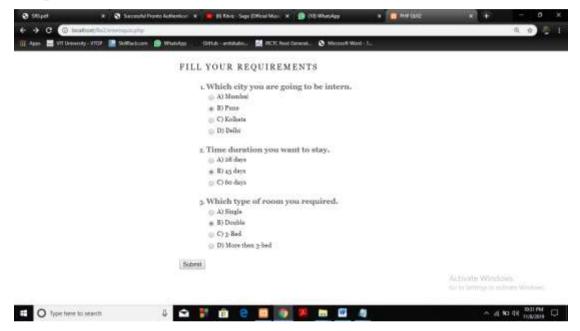
```
<input type="radio" name="question-2-answers" id="question-2-answers-C"
value="C" />
<label for="question-2-answers-C">C) 60 days</label>
</div>
<
<h3>Which type of room you required.</h3>
<div>
<input type="radio" name="question-3-answers" id="question-3-answers-A"
value="A"/>
<label for="question-3-answers-A">A) Single</label>
</div>
<div>
<input type="radio" name="question-3-answers" id="question-3-answers-B"
value="B" />
<label for="question-3-answers-B">B) Double</label>
</div>
<div>
<input type="radio" name="question-3-answers" id="question-3-answers-C"
value="C" />
<label for="question-3-answers-C">C) 3-Bed</label>
</div>
<div>
<input type="radio" name="question-3-answers" id="question-3-answers-D"
value="D" />
```



```
<?php
$answer1 = $_POST['question-1-answers'];
$answer2 = $_POST['question-2-answers'];
$answer3 = $_POST['question-3-answers'];
totalCorrect = 0;
if ($answer1 == "A" && $answer2 == "A" && $answer3 == "A")
{echo "List of hostels are::";
echo "1. Horn ok please hostel";
echo "1. Horn ok please hostel";}
if ($answer1 == "B" && $answer2 == "A" && $answer3 == "A")
{echo "List of hostels are::";
echo "1. Sangeeta hostel";
echo "2. pg hostels";
if ($answer1 == "B" && $answer2 == "B" && $answer3 == "B")
{echo "List of hostels are::";
echo "1. Seaman house pg";
if ($answer1 == "C" && $answer2 == "C" && $answer3 == "C")
{echo "List of hostels are::";
echo "1. Bright youth";
echo "2. Anandi Seva kendra";
}
?>
```



3.2.3. Sample Screenshot



3.3. Solution-3

3.3.1. Problem description and its Solution

As we are student of VIT here some rules and regulation not only in VIT infect there are so many collage where rules like parents are not allowed to stay in hostel.

This problem can be solved if collage having a common hostel where student or parent can apply for that room so they can stay together. Because parent come to collage to meet their child and they stay for short period of time.

So can be helpful for us and all the collages where this type of rule exists.

3.3.2. Sample code

Pdetails.php

<?php

include 'includes/config.inc.php';

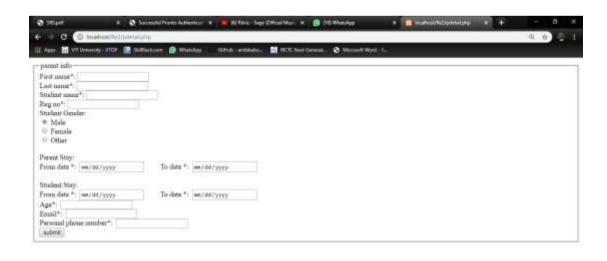
include 'detail.php';

```
?>
<html>
<body>
<?php
echo
"<form method='post' action="".setDetails($conn)."'>
<fieldset>
<legend> parent info</legend>
<div>
 First name*:
 <input type='text' name='fn'><br>
 Last name*:
 <input type='text' name='ln'><br>
Student name*:
 <input type='text' name='sn'><br>
 Reg no*:
 <input type='text' name='rn'><br>
Student Gender:<br>
 <input type='radio' name='gender' checked> Male<br>
 <input type='radio' name='gender'> Female<br>
 <input type='radio' name='gender'> Other<br><br>
Parent Stay:<br>
From date *: &nbsp&nbsp<input type='date'
name='fd'>&nbsp&nbsp&nbsp&nbsp&nbsp&nbsp&nbsp
*:&nbsp&nbsp<input type='date' name='td'><br><br>
Student Stay:<br>
```

</body>

</html>

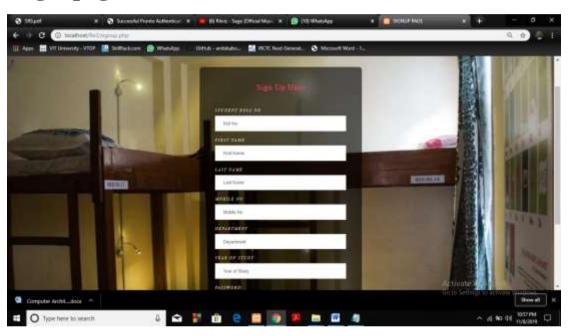
3.3.3. Sample Screenshot



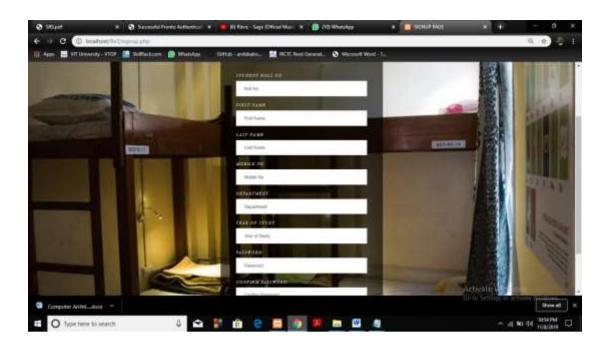


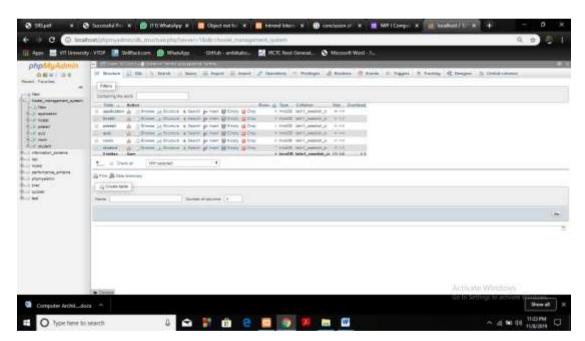
4. Screenshots

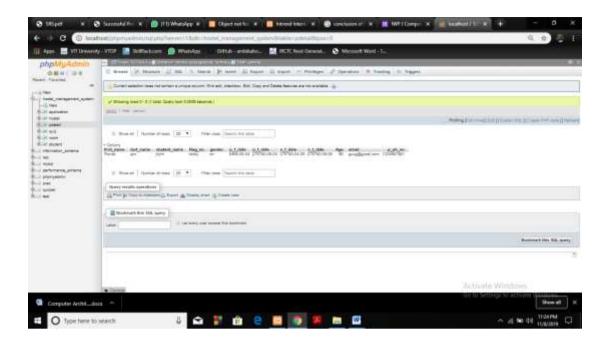
Login page



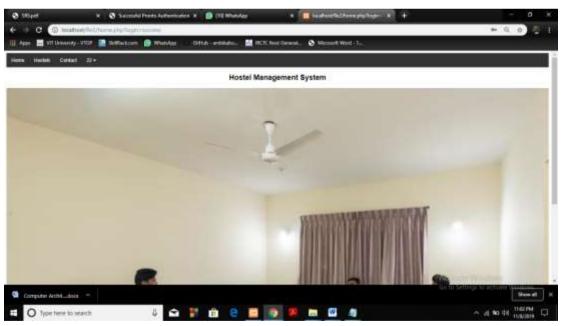
Signup page

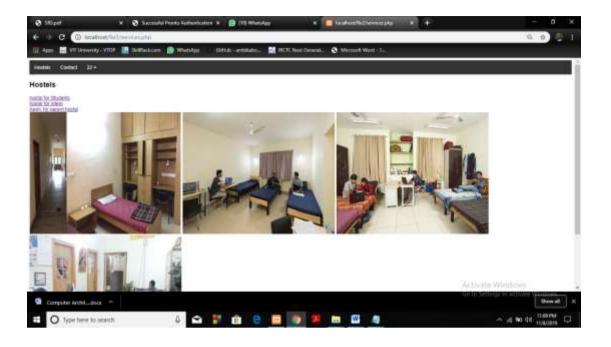






Home page





5. Conclusion

Hostel Management is a user-friendly and Customization software for student Hostel. Hostel management system has been developed to manage and automate the over-all processing of any large student hostel. This project is a very flexible software and it can be upgraded according to the individual hostel needs.

Also useful for the people who willing to do internship and difficulty in finding the room.

And also for student in collage who want stay with their parent.

