

PROJECT REPORT (REVIEW-3)

OPEN SOURCE PROGRAMMING



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Project Topic-

HOSTEL MANAGEMENT SYSTEM

Team Members-

Pranav Kumar (17BIT0157)
Chandan Sharma (17BIT0093)

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1. ABSTRACT

"HOSTEL MANAGEMENT SYSTEM" is a software developed in the hostel to manage different activities. The number of educational institutions has been growing rapidly over the past few years. This also increases the number of hostels to accommodate the students studying in this institution. And therefore the person running the hostel has a lot of strain and software is not usually used in this context. This particular project addresses the problems of managing a hostel and avoids the problems that arise when manually transported. This also increases the number of hostels for the students who study in this institution. And therefore the person running the hostel has a lot of strain and software is not usually used in this context. This particular project addresses the problems of managing a hostel and avoids the problems that arise when manually transported. This system is designed in favor of the hostel management which helps them to save the records of the students about their rooms and other things. It helps them from the manual work from which it is very difficult to find the record of the students and the mess bills of the students, and the information of about the those ones who had left the hostel. All the hostels at present are managed manually by the hostel office. The Registration form verification to the different data processing is done manually. Thus there are a lot of repetitions which can be easily avoided. And hence there is a lot of strain on the person who are running the hostel and software's are not usually used in this context. This particular project deals with the problems on managing a hostel and avoids the problems which occur when carried manually.

Identifying the disadvantages of the existing system leads to the design of a computerized system that is compatible with the existing system and is more user - friendly and GUI - oriented.

2. REQUIREMENTS & SPECIFICATIONS

Functional System Requirement:

This section gives a functional requirement that applicable to the HMS.

These are sub modules in this phase.

Login module.

User Module

Hostel Room Module

Mess Module

Extra Curricular Module

Non-Functional System Requirements:

Performance Requirements - The database shall be able to accommodate a thousand record to store.

Safety Requirements- The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database backup.

Security Requirements- Some of the factors that are identified to protect the software from accidental or malicious access, use, modification, destruction, or disclosure.

System Requirement Specification:

Hardware Requirements

Processor: Pentium or Greater

RAM: 512MB

Hard Disk: 1GB

Keyboard

Monitor or LCD

Software Requirements

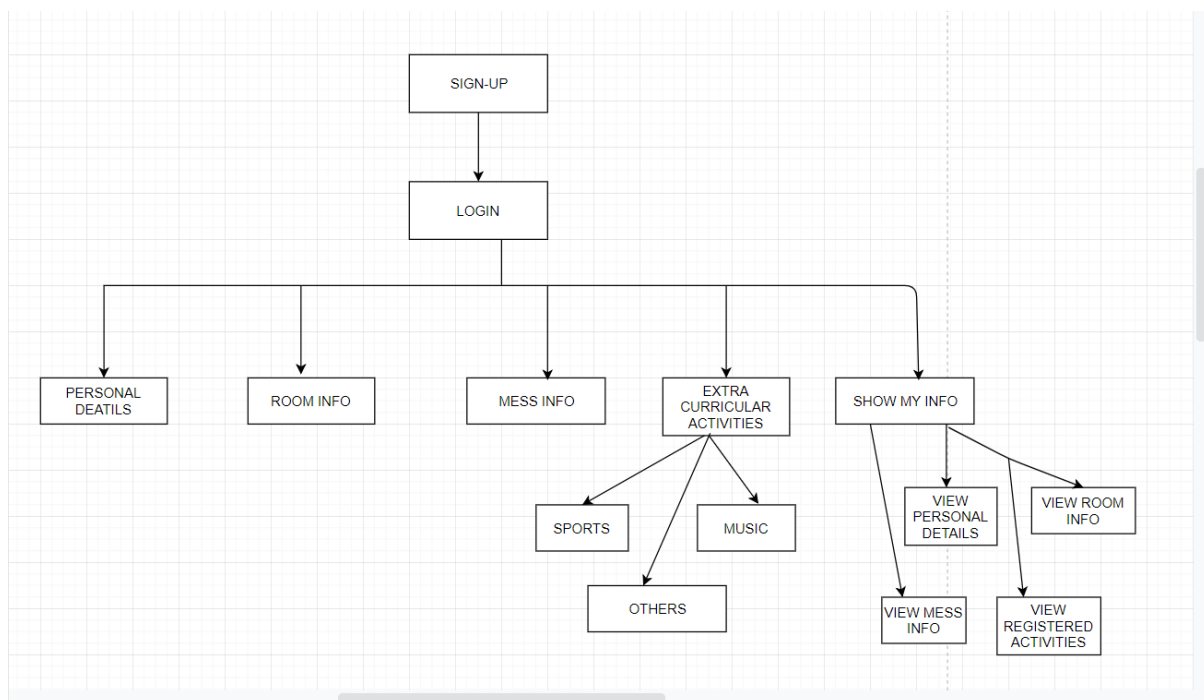
Tool: Command Prompt

Operating System: Microsoft Windows

Language: PHP

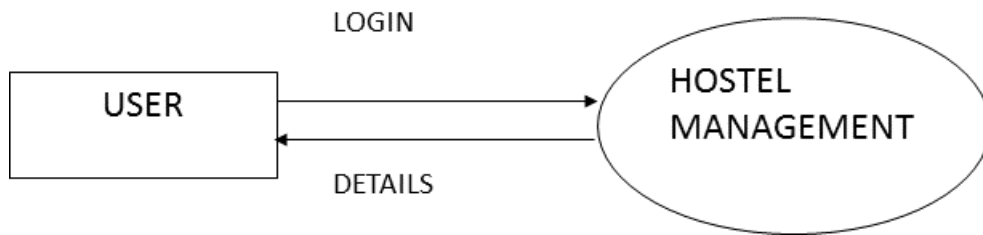
Database: SQL

3. SYSTEM ARCHITECTURE

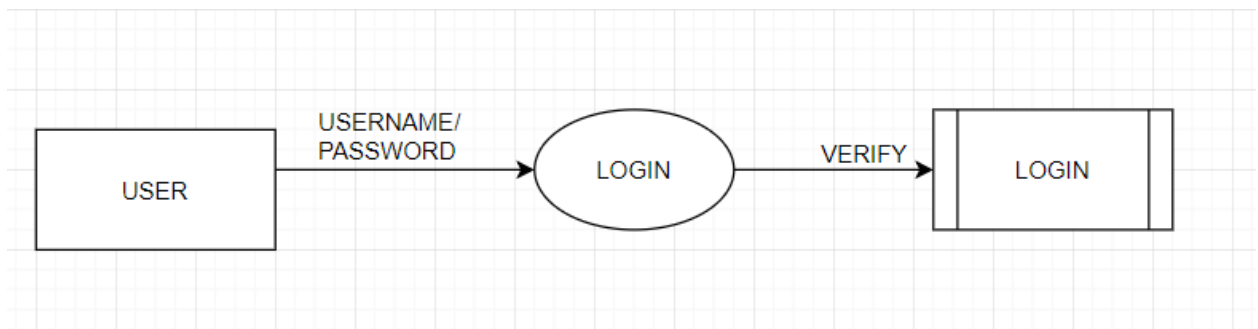


DATA FLOW DIAGRAMS

LEVEL 0:



LEVEL 1:



4. SYSTEM DESIGN (DETAIL & DESIGN)

TABLE DESIGN

1. ***SIGN-UP:***

FIELD NAME	DATA TYPE
Registration number	Varchar
Username	Varchar
Password	Varchar

2. ***LOGIN:***

FIELD NAME	DATA TYPE
Username	Varchar
Password	Varchar

3. **PERSONAL DETAILS:**

FIELD NAME	DATA TYPE
Name	Varchar
Father's name	Varchar
Date of Birth	Date
Mobile Number	Int
Address	Text

ETC....

5. IMPLEMENTATION

SCREENSHOTS

1. Sign-up page:

The screenshot shows a web browser window with the address bar displaying 'localhost/hms/sign up.php'. The page has a dark grey header with the text 'Hostel management system'. Below the header is a form titled 'Sign up' in an orange box. The form contains three input fields: 'Registration number', 'User Name', and 'Password', each preceded by a colon. A 'Submit' button is located at the bottom of the form. Below the form is a yellow 'log in' button.

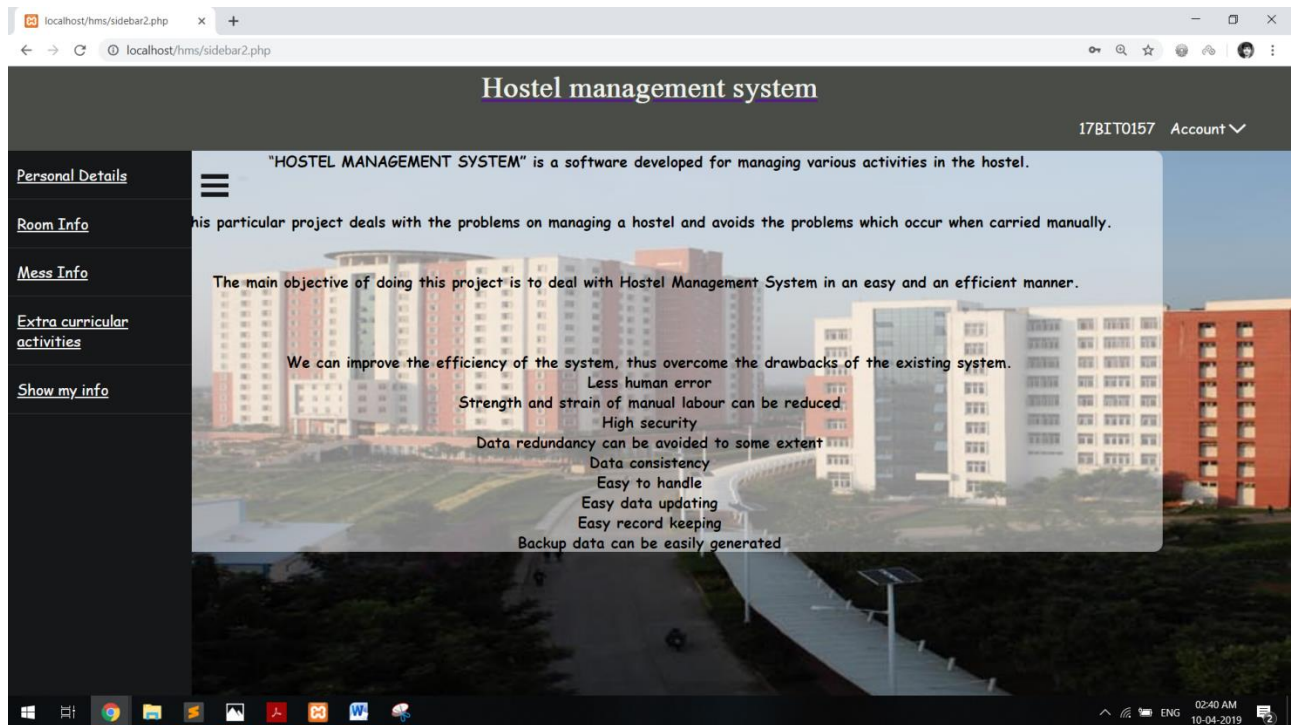
Sign up		
Registration number	:	<input type="text"/>
User Name	:	<input type="text"/>
Password	:	<input type="text"/>
<input type="submit" value="Submit"/>		

2. Login-Page:

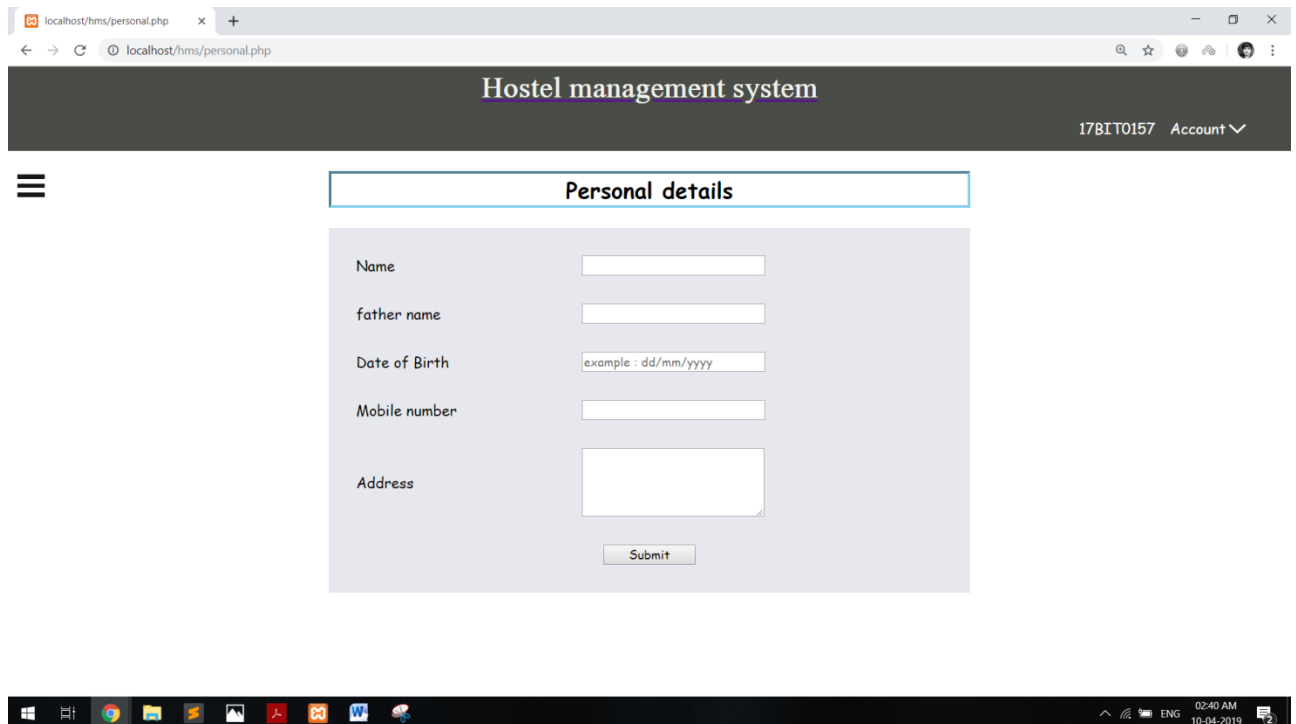
The screenshot shows a web browser window with the address bar displaying 'localhost/hms/login.php'. The page has a dark grey header with the text 'Hostel management system'. Below the header is a form titled 'Enter login details' in an orange box. The form contains two input fields: 'User Name' and 'Password', each preceded by a colon. A 'Submit' button is located at the bottom of the form. Below the form is a blue 'Sign up' button.

Enter login details		
User Name	:	<input type="text"/>
Password	:	<input type="text"/>
<input type="submit" value="Submit"/>		

3. Main-Page:



4. Personal Details:



5. Room Details:

The screenshot shows a web browser window with the address bar displaying 'localhost/hms/room.php'. The page title is 'Hostel management system'. In the top right corner, there is a user identifier '17BIT0157' and a dropdown menu labeled 'Account'. A hamburger menu icon is visible on the left. The main content area is titled 'Room details' and contains a form with two columns of room options. Each option consists of a radio button followed by the room name and number. The first column lists '4-Bed Ac room' (rooms 101, 102, 103) and '6-Bed Ac room' (rooms 104, 105, 106). The second column lists '4-Bed Non-Ac room' (rooms 201, 202, 203) and '6-Bed Non-Ac room' (rooms 204, 205, 206). A 'Submit' button is located at the bottom center of the form. The Windows taskbar is visible at the bottom of the screen.

Room Type	Room Number
4-Bed Ac room	101
4-Bed Ac room	102
4-Bed Ac room	103
6-Bed Ac room	104
6-Bed Ac room	105
6-Bed Ac room	106
4-Bed Non-Ac room	201
4-Bed Non-Ac room	202
4-Bed Non-Ac room	203
6-Bed Non-Ac room	204
6-Bed Non-Ac room	205
6-Bed Non-Ac room	206

Submit

ETC..

SOME OF THE CODING PART:

Login.php

```
<?php
    session_start();

?>

<html>

<head>

    <link rel="stylesheet" type="text/css"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">

<style>
```

```
h1 {
background-color:#4a4c47;
font-family:Mongolian Baiti;
color:rgb(240, 242, 237);
padding-top:5px;
}
</style>
</head>
```

```
<body bgcolor="skyblue" style="text-align: center;">
<h1 align="center">Hostel management system</h1><br><br>
<div class="container">
    <form method="post" action="">
        <table cellpadding="30px" width="50%" bgcolor="#e6e8ed" align='center'
class="table table-hover" style="text-align: center;">
            <tr bgcolor="orange">
                <td colspan="3" align="center"><font color="white" size='5'>Enter login
details</font></td>

            </tr>
            <tr height="20"></tr>

            <tr>
                <td><font color="black" size='4'>User Name</font></td>
                <td>:</td>
                <td>
                    <input type="text" name="username"/>
                </td>
```

```

        </tr>

        <tr>

            <td><font color="black" size='4'>Password</font></td>

            <td>:</td>

            <td>

                <input type="password" name="password"/>

            </td>

        </tr>


        <tr height="10"></tr>

        <tr>

            <td align="center" colspan='3'><input type="submit" value="Submit"
name='submit'></td>

            </tr>

        </table>

    </form><br><br><br>

</div>


    <a href="sign up.php" class="btn btn-md btn-primary">Sign up</a></font></p>

</body>

</html>

```

```

<?php

$connection = mysqli_connect("localhost", "root", "") or die("unable to connect"); //
Establishing Connection with Server

mysqli_select_db($connection,"hostel management"); // Selecting Database from Server


if(isset($_POST['submit']))
{
    $us=$_POST['username'];
    $pas=$_POST['password'];

```

```

        $check=      ("SELECT * FROM login WHERE username='$us' and
password='$pas'");

        $result = mysqli_query($connection,$check);

        if(mysqli_num_rows($result) > 0)
        {

            header("Location: sidebar2.php");

        }
        else
        {

            echo "<script type='text/javascript'>alert('invalid username or
password');</script>";

        }

```

```

$Check = "SELECT registration_number FROM login WHERE username='$us'";
$result1 = mysqli_query($connection,$Check);
$row2 = mysqli_fetch_assoc($result1);
$temp=$row2['registration_number'];
$_SESSION['reg'] = $temp;
}
mysqli_close($connection); // Closing Connection with Server
?>

```

Main-page.php

```

<?php

        session_start();

?>

<html>

<head>

<!-- <link rel="stylesheet" type="text/css"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"> -->

<style>

```

```
*{  
margin:0px;  
padding:0px;  
font-family:Comic Sans MS;  
}
```

```
h1{  
background-color:#4a4c47;  
font-family:Mongolian Baiti;  
color:rgb(240, 242, 237);  
padding-top:5px;  
}
```

```
h5{  
background-color:#4a4c47;  
font-family:Comic Sans MS;  
color:rgb(240, 242, 237);  
padding-right:30px;  
}
```

```
#sidebar{  
position:fixed;  
width:200px;  
height:100%;  
background:#151719;  
transition:all 500ms linear;  
left:-200px;  
}
```

```
#sidebar.active{  
left:0px;  
}
```

```
#sidebar ul li{color:rgba(230,230,230,0.9);
```

```
list-style:none;

padding:15px 10px;

border-bottom:1px solid rgba(100,100,100,0.3);

}

#sidebar .toggle-btn{

position:absolute;

left:210px;

top:20px;

}

#sidebar .toggle-btn span{

display:block;

width:30px;

height:5px;

background:#151719;

margin:5px 0px;

}


/* Navbar container */

.navbar {

overflow: hidden;

//background-color: #333;

font-family: Arial;

}


/* Links inside the navbar */

.navbar a {

float: right;

font-size: 16px;

color: white;

text-align: center;

padding: 14px 16px;
```

```
text-decoration: none;
}
```

```
/* The dropdown container */
```

```
.dropdown {
  float: right;
  overflow: hidden;
}
```

```
/* Dropdown button */
```

```
.dropdown .dropbtn {
  font-size: 16px;
  border: none;
  outline: none;
  color: white;
  padding: 14px 16px;
  background-color: inherit;
  font-family: inherit; /* Important for vertical align on mobile phones */
  margin: 0; /* Important for vertical align on mobile phones */
}
```

```
/* Add a red background color to navbar links on hover */
```

```
.navbar a:hover, .dropdown:hover .dropbtn {
  background-color: red;
}
```

```
/* Dropdown content (hidden by default) */
```

```
.dropdown-content {
  display: none;
  position: absolute;
  background-color: #151719;
```



```

    min-width: 160px;
    box-shadow: 0px 8px 16px 0px rgba(0,0,0,0.2);
    z-index: 1;
}

/* Links inside the dropdown */
.dropdown-content a {
    float: none;
    color: white;
    padding: 12px 16px;
    text-decoration: none;
    display: block;
    text-align: left;
}

/* Add a grey background color to dropdown links on hover */
.dropdown-content a:hover {
    background-color: red;
}

/* Show the dropdown menu on hover */
.dropdown:hover .dropdown-content {
    display: block;
}
}
</style>
<script>
function toggleSidebar() {
document.getElementById("sidebar").classList.toggle('active');

```

```

}
</script>

</head>

<body style="background-image: url(h3.jpg);background-size: cover;background-repeat: no-repeat;">

<a href="sidebar2.php"><h1 align="center">Hostel management system</h1></a>

<h5 align="right">

<div class="navbar">

    <div class="dropdown">

        <button class="dropbtn"><?php

$conn= mysqli_connect("localhost", "root", "") or die("unable to connect"); // Establishing
Connection with Server

mysqli_select_db($conn,"hostel management"); // Selecting Database from Server

$a=$_SESSION['reg'];

echo $a;?>

&nbsp;Account

    <i class="fa fa-caret-down"></i>

</button>

<div class="dropdown-content">

    <a href="login.php">Log out</a>

</div>

</div>

</div>

</h5>

<div id="sidebar">

<div class="toggle-btn" onclick="toggleSidebar()">

<span></span>

<span></span>

<span></span>

</div>

```

```
<ul>
<li><a href=personal.php><font color="white">Personal Details</font></a></li>
<li><a href=room.php><font color="white">Room Info</font></a></li>
<li><a href=mess.php><font color="white">Mess Info</font></a></li>
<li><a href='extra.html'><font color="white">Extra curricular activities</font></a></li>
<li><a href=show.php><font color="white">Show my info</font></a></li>
</ul>
</div>
```

```
<div class="container">
```

```
<div style="text-align: center;background-color: rgba(255,255,255,0.5);margin-left: 10%;margin-
right: 10%; border-radius: 10px;">
```

```
“<b>HOSTEL MANAGEMENT SYSTEM<b>” is a software developed for managing
various activities in the hostel.<br>
```

```
<br><br>
```

```
This particular project deals with the problems on managing a hostel and avoids the problems
which occur when carried manually.
```

```
<br><br>
```

```
<br>
```

```
The main objective of doing this project is to deal with Hostel Management System in an easy
and an efficient manner.
```

```
<br><br><br><br>
```

```
We can improve the efficiency of the system, thus overcome the drawbacks of the existing
system.
```

```
<ul type="disc">
```

```
<li>Less human error</li>
```

```
<li>Strength and strain of manual labour can be reduced</li>
```

```
<li>High security</li>
```

```
<li>Data redundancy can be avoided to some extent</li>
```

```
<li>Data consistency</li>
```

```
<li>Easy to handle</li>
```

```
<li>Easy data updating</li>
```

```
<li>Easy record keeping</li>
```

```
<li>Backup data can be easily generated</li>
```

```
</ul>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

```
<?php
```

```
$servername = "localhost";
```

```
$username = "system";
```

```
$password = "";
```

```
$conn = mysqli_connect($servername, $username, $password);
```

```
if (!$conn) {
```

```
    die("Connection failed: " . mysqli_connect_error());
```

```
}
```

```
?>
```