DMU BURIE CAMPASS DEPARTMENT OF COMPUTER SCIENCE

THE PROJECT TITLE : VEHICLE MANAGEMENT SYSTEM IN BURIE BUS STATION

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CHAPTER FOUR

4 . Implementation

4.1 Overview of the programming language used

- ✓ PHP is a popular and widely used programming language which is utilized to build dynamic web applications with MySQL database connections. Because it is user Friendly and Easy to Learn, Cost user Friendly, It's fast and easy, it accesses everything etc...

❖ Back End

- ✓ MySQL software of the data base system and PHP language was used in developing and managing the back end of the system.

❖ Front End

- ✓ The user interface had been developed using html, java script, CSS since it easily designing the front end and connected in to database easily.

We use HTML and CSS for prepare user interface.

- ➢ We use java script for form validation
- ➢ We use MYSQL database for storage of data.

4.2. Algorithms used for login

Login (**Username, password**):- that pass/checks three arguments for login function.

- ✓ If length of username and password==0:- Check that Zero length is not allowed.

Display error message "username and password cannot be empty".

Stay in the same page and the actor fills the form after he or she knows the field is required.

The system retrieves username and password which the actor submits.

- ✓ If username! =username or password! =password or status! =active: - Authentications for the right actor.

Display error message "Invalid username or password or your account is deactivate".

- ✓ If his/her account detail is correct access the required page.

//End of the function login

4.3. Sample codes

Coding is the process whereby the physical design specification created by the designers is turned in to working computer code by the programmer. The code is made simple in such a way that another programmer can easily understand and work on that in future

For register vehicle

```
<?php

        include("connection.php");

 session_start();

if(isset($_SESSION['user_id']))

 {

  $mail=$_SESSION['user_id'];

 } else {

 ?>

 <script>

  alert('You Are Not Logged In !! Please Login to access this page');

  alert(window.location='login.php');

 </script>

 <?php

 }

 ?>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```
<title>Vehicle Management System</title>
<link href="tooplate_style.css" rel="stylesheet" type="text/css" />
<link rel="shortcut icon" HREF="12.jpg" />
<!-- Start WOWSlider.com HEAD section-->
<link rel="stylesheet" type="text/css" href="engine1/style.css" />
<script type="text/javascript" src="engine1/jquery.js"></script>
<!-- End WOWSlider.com HEAD section -->
<SCRIPT language=Javascript>
    <!--
    function isNumberKey(evt)
    {
      var charCode = (evt.which) ? evt.which : event.keyCode
      if (charCode > 31 && (charCode < 48 || charCode > 57)){
        return false;
}
else{
      return true;
                  }
    }
    //-->
  </SCRIPT>
</head>
<body>
<div id="tooplate_wrapper">
```

```
<div id="tooplate_header">

  <div id="site_title"><h2 id="hheader"style="margin-left:180px;margin-top:40px;font-size:22px;font-family:Cooper Black;"><b><span style="font-size:36px;color:white">  Burie Town Bus Station</span><br/><br/></b>Online Vehicle Management System</h2></div>

</div> <!-- end of forever header -->

<div id="tooplate_menu">

        <ul>

                <li><a href="manager.php" class="current">Home</a></li>

  <li><a href="registervehicle.php">Register Vehicle</a></li>

                <li><a href="vehicleinfo.php">View Vehicle info</a></li>

                <li><a href="manage_requests.php">Manage Request</a></li>

            <li><a href="assign.php">Assign Vehicle</a></li>

            <li><a href="fuel.php">Check Fuel Balance</a></li>

                <li><a href="#">Generate Report</a>

                    <ul style="margin-left:10px;padding-right:4px;">

                        <li><a href="reportuser.php">Report For Users</a></li>

                        <li><a href="reportvehicle.php">Vehicle Report</a></li>

                        <li><a href="FuelReport.php">Fuel Information</a></li>

                    </ul>

                    </li>

            <li><a href="permission.php">Get Exit permission</a></li>

  <li><a href="update.php">Update account</a></li>
```

```
            <li><a href="viewcomment.php">View Comment</a></li>
                                    <li><a href="logout.php">Logout</a></li>
                                </ul>
                            </div> <!-- end of tooplate_menu -->

    <div id="tooplate_main" class="shadow">
            <div id="tooplate_content">

<form name="form1" method="post" action="registervehicle.php">
<fieldset><table align="center"style="color:black">
<legend align =center><h2 align="right" style="color:Blue">Register Vehicle</h2></legend>
 <tr>
  <td style="padding-top:12px;">Plate Number:</td>
  <td style="padding-top:12px;"><input type="text" name="pno" id="pno" size="20"
pattern="\d{3,7}"onKeyPress="return isNumeric(event)" required x-moz-errormessage="Please
Enter Number Only between 2 and 8 digit ! " title="Please Enter Number Only between 2 and 8
digit !"/></td>
 </tr>
                        <tr>
            <td style="padding-top:12px;">Vehicle Type :</td>
            <td style="padding-top:12px;"><select name="vtype"  required maxlength="8">
               <option ></option>
               <option value='Nissan patrol'>Nissan patrol</option>
                                    <option value='Toyota PRADO'>Toyota PRADO</option>
                                    <option value='Toyota single cub'>Toyota single cub</option>
```

```
                                <option value='Nissan pick up'>Nissan pick up</option>
                                <option value='Cacciamali bus'>Cacciamali bus</option>
                                <option value='Daewoo bus'>Daewoo bus</option>
                                <option value='Mercedes benz bus'>Mercedes benz
bus</option>
                                <option value='Fiat-mini-bus'>Fiat-mini-bus</option>
                                <option value='Other-Type'>Other Type</option>

          </select></td>
         </tr>
         <tr>
         <td style="padding-top:12px;">Model :</td>
         <td style="padding-top:12px;"><select name="model" required maxlength="5">
            <option ></option>
            <option value='TVTSLEFY61NRA'>TVTSLEFY61NRA</option>
                                <option value='KUN25L-PRMDHV'>KUN25L-PRMDHV</option>
                                <option value='HZJ79LTJMRS'>HZJ79LTJMRS</option>
                                <option value='CVRULCFD22NWN'>CVRULCFD22NWN</option>
                                <option value='IHZJ105L-GMRS'>IHZJ105L-GMRS</option>
                                <option value='KB 7TNJNML'>KB 7TNJNML</option>
                                <option value='BE637JLSH'>BE637JLSH</option>
                                <option value='BF120'>BF120</option>
                                <option value='9BM3840883B'>9BM3840883B</option>
                                <option value='Other-Model'>Other Model</option>
```

```
</select></td>

</tr>

<tr>

<td style="padding-top:12px;"> Engine Number:</td>

<td style="padding-top:12px;"><input type="text" name="eno" id="eno" size="20" pattern="\w{2,20}" required x-moz-errormessage="Please Enter engine Number from 2-20 digit ! " title="Please Enter Engine Number From 2-20 digit !"/></td>

</tr>

<tr>

<td style="padding-top:12px;"><font size="4">Owner :</font></td>

<td style="padding-top:12px;"><input type="text"pattern="\D{3,15}" required x-moz-errormessage="Please Enter Only Letter! at least 3 characters required" title="Please Enter Letter at least 3 characters required " name="owner" id="error12"size="20"/></td>

</tr>

<tr>

<td style="padding-top:12px;"> <font size="4">Capacity:<font></td>

<td style="padding-top:12px;"><input type="text" name="cap" id="cap" size="5" pattern="\d{1,2}"onKeyPress="return isNumeric(event)" required x-moz-errormessage="Please Enter Number of Capacity From 1-65 number! " title="Please Enter Number of Capacity From 1-65 number !"/></td>

</tr>

<tr>

<td style="padding-top:12px;"><font size="4">Productive Date:</font></td>
```

```
        <td style="padding-top:12px;"><input type="date" name="date" title="Enter Id for search " id="date-pick" placeholder ="year-month-date" class="search" autocomplete="off"/></td>

                        </tr>

                        <tr>

        <td style="padding-top:12px;"><font size="4">Insurance :</font></td>

        <td style="padding-top:12px;"><select name="ins" style="width:148px;" required maxlength="5">

            <option ></option>

            <option value='Insured'>Insured</option>

                                <option value='Uninsured'>Uninsured</option>

          </select></td>

     </tr>

    <tr>  <td></td>

                    <td style="padding-top:12px;"><input type="submit" name="submit" value="Save" class="button_example"  /></td>

    </tr>

</table>

</form></fieldset>

<?php

if(isset($_POST['submit']))

{

//geting values

//$username=$_SESSION['user'];


$pno=$_POST['pno'];
```

```
$vtype=$_POST['vtype'];
$model=$_POST['model'];
$eno=$_POST['eno'];
$owner=$_POST['owner'];
$cap=$_POST['cap'];
$ins=$_POST['ins'];
$status=1;
$date=$_POST['date'];

$query="SELECT * FROM vehicleregister where Plate_no='$_POST[pno]'";
$resultw=mysql_query($query);
$count=mysql_num_rows($resultw);

if($count==1){
while($row=mysql_fetch_array($resultw)){
$Plate_no=$row[0];
}
if($Plate_no==$_POST['pno']
)
if($Plate_no==$_POST['pno'])
if($Plate_no==$_POST['pno'])
{
echo "<script>alert(' Plate_no is used by another vehicle!');</script>";
echo'<meta content="3;registervehicle.php" http-equiv="refresh" />';
```

```
}

}

else

{

if($pno==$pno)

{

$sql="insert into  vehicleregister
values('$pno','$vtype','$model','$eno','$owner','$cap','$date','$ins','$status')";//

//echo"$insert";//

if (!mysql_query($sql,$conn))

 {

                    echo "<script>alert(' Already Registered!');</script>".mysql_error();

   echo' <meta content="6;registervehicle.php" http-equiv="refresh" />';

 }

 else

 {

 echo "<script>alert(' Vehicle Register is successfully!');</script>";

 echo' <meta content="6;registervehicle.php" http-equiv="refresh" />';

}

}

            }

}

?>
```

CHAPTER FIVE

5. Testing

Testing is a trial experience in which the deliverables of the project are checked with acceptable Standards in the project. We used unit testing, system testing to test the correctness of each Module and the compiled program.

Table 1Unit testing.

Tested Form	Test Case	Expected Result
Login Form	validate user name and password entry as an input from each end users	Display a message when user didn't fill user name or password and also when there is user name or password error.
All other forms	controlling the proper insertion of data	Display a message when user left some text fields, radio buttons, combo boxes or date and time unfilled and insert improper data in to the form try to save.

Integrated testing: - all the modules will be combined together and tested it for its fitness with each other and with the systems functionality. If error occurs in combining them, the module with problem will be identified and recombined.

Table 2. Integrated testing

Tested Form	Test Case	Expected Result
Login Form	Check the correctness of the form to be displayed after login is succeeded	Display administrator or system members menu
Administrator menu	check proper display of selected options to be accessed	Display the selected form from the administrator form as menu
Report from	check whether the report will be generated or not	The selected report will be displayed

All forms	check the navigation functionality	The form required Will be displayed

1.

System testing: - the team member to performs over all functional testing by checking whether it meets the required target or not. Here the system is partially functional and reached its requirement.

Table 3.**System testing**

Tested from	Test case	Expected result	Actual result
Login form	To validate the proper functionality of login by inserting username and password	To authenticate user	ser will be authenticated and if user is authorized enter to the system else confirm invalidity
Search from	To validate the functionality of search form	Search result	If the requested record exist display the result else if it doesn't exist display the message about the status
Report from	To validate the functionality of report form	To generate report	generate the requested report if the request is valid, if request is invalid display message box that describes the invalidity
All forms	To validate the functionality of each form	To provide the function required by the form	The form is presented and the required function can operated using the form

User Interface 1

A. Log In form:-This form found immediately following the home page. Home page appears as the site on which the system is deployed is opened. All user will have their own password. Those forms appeared using password and user name will not accessible by other persons except for those who have privilege.

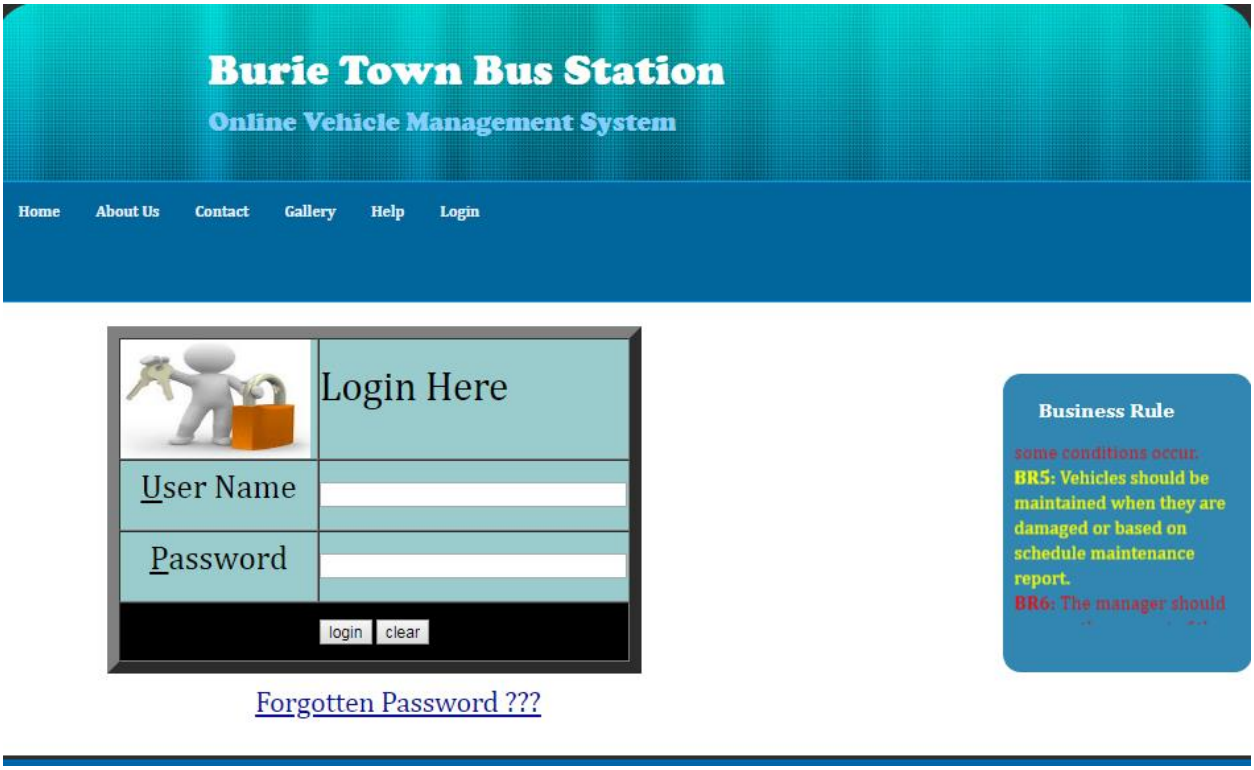

Figure 1: Log In form:-

B/ manager homepage

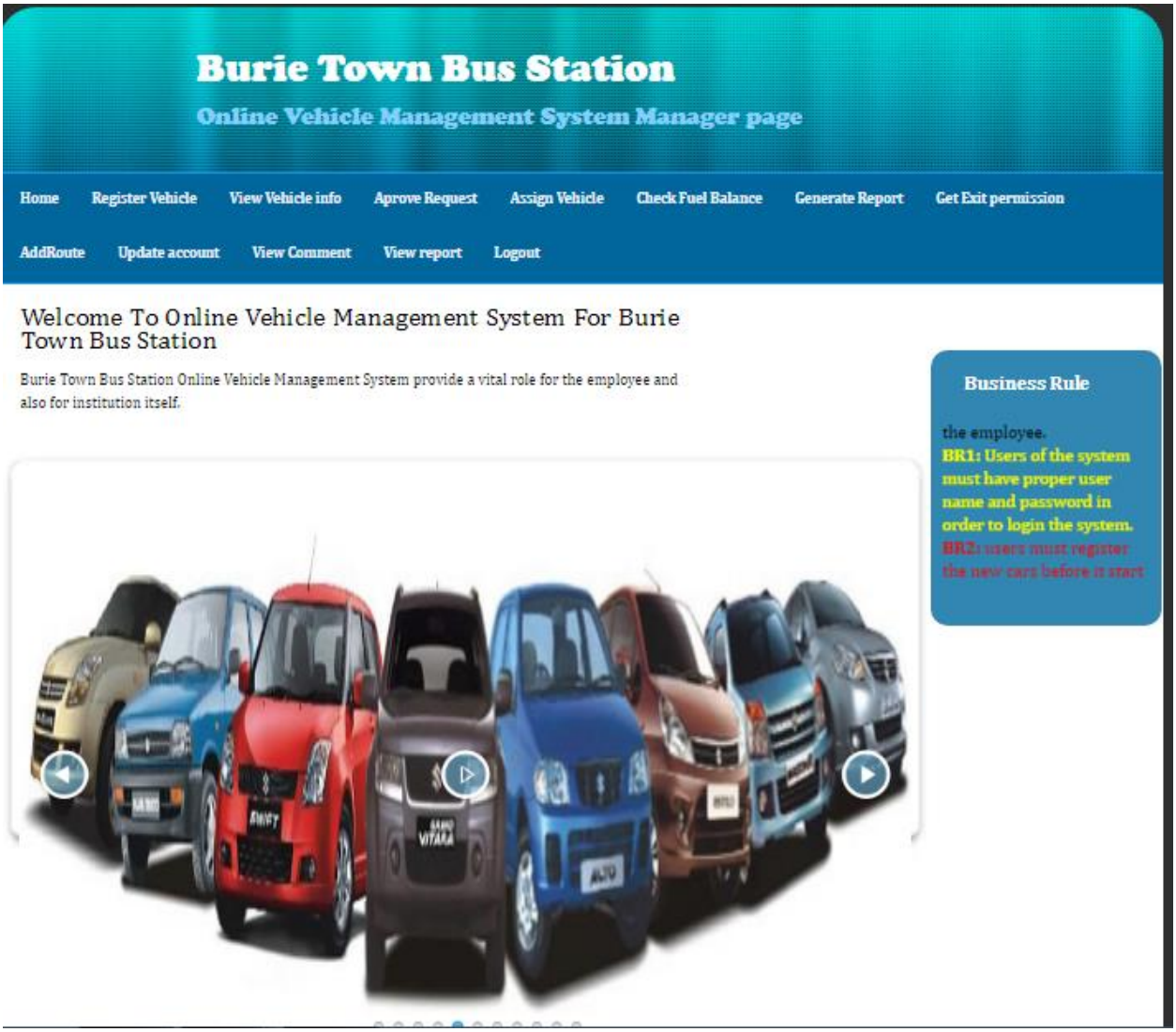

Figure 2: manager page interface

5.3 .Validation testing

When we say valid it is to mean that the software functions as it is intended. This is tested by giving real data and get real information from the software.

CHAPTER SIX

6. Conclusion and Recommendations

6.1 Conclusion

As the scope of this project described we developed the vehicle management system for BURIE bus station by making it more reliable and efficient. The system would register vehicles and perform additional task that would be performed by the system.

So the system would:-

- Minimize the time required to perform task
- Minimize the work load of employees
- Increase customer satisfaction

This document use the object oriented technology called UML (unified modeling language) that enable the user to understand the software easily.

We finally concluded that BURIE bus station vehicle management system would be benefited by the system developed, and accept it cheerfully. During working on this project, we members of the team had learned a lot.

6.2Recommendation

The system that we have developed involves web based vehicle management system for BURIE bus station. We recommend the following features need to be included in any further revision and extension attempt.

- May used the web based to change in to android or mobile based application.
- Use uninterruptible power supply or UPS if electric power is not available in university.
- Integrate with the traffics system.
- Adding the chatting system.
- Include GPS.

- They done all system in organization are automated
- Update this system to android based system or integrate with android and PHP.

Therefore, others who are interested to develop a new system on vehicle management system for BURIE bus station or other related systems can get some initial idea about the system. By focusing on the limitation and functional areas of the system they can also develop a better vehicle management system that automates all files managed in vehicles management office and other related thin.

6.3 Future Enhancement

For the future as the services of the associations becomes increased, this system should be improved by adding functions and using better technologies. So, future works that the project team proposed are:

- Maintaining the system according to the services of the organization after applying and testing the acceptance of the project by the organization
    - Connecting the system with other bus station organizations
    - Appling better security mechanisms.