INDEX

CHAPTER-01

INTRODUCTION OF PROJECT

1.1 Introduction

The proposed project is a **Digital parking system** that provides Customers/Users an easy way of reserving a parking space online using the web portal. It overcomes the problem of finding a parking space in areas that unnecessarily consumes time.

Hence, this project offers a web application-based reservation system where Users can view various parking spaces and select a nearby or specific area of their choice to view whether space is available or not. If the booking space is available, then the User can book it for a specific slot. The booked space will be marked and will not be available for anyone else for the specified slot. This system provides an additional feature of canceling the bookings. Users can cancel their reserved space anytime. Users can also view previous parking booking details using the web portal

1.2 PROBLEM STATEMENT

To provide an efficient way to maintain Digital Parking records and to provide an efficient way to know the details of different Parking Systems.

1.3 OBJECTIVE OF THE PROJECT

Our main objective is to have a such system where Users can easily know the best slots for

the parking.

1.4 SCOPE OF THE PROJECT

- Best Slots in the City area.
- Can book slots in different places
- Can Able make online payment

CHAPTER -2

LITERATURE SURVEY

Literature Survey is the process of analyzing, summarizing, organizing, and presenting novel conclusions from the results of a technical review of a large number of recently published scholarly articles.

2.1 Existing System:

- The existing system is very time-consuming.
- The existing System is not secured. The system is difficult to maintain
- As concerned with the speed & efficiency the system fails.

2.2 Proposed System:

- The proposed system is concerned with speed, performance & efficiency.
- This can give good security for user information because data is not in the client machine
- Authentication is provided for this application only registered Users can Use

CHAPTER-3

SYSTEM REQUIREMENT SPECIFICATION

The system requirement definition is the document that supplies constraints or the environment in which the software is to be installed or developed.

3.1 Hardware Requirements:

- The Intel Pentium IV processor and above with a Min speed of 2.5 GHz
- Minimum of 1 GB RAM
- Minimum hard disk capacity of 4 GB and above

3.2 Software Requirements:

- Windows Operating System
- JDK 1.6.0

Languages:

Java 2 Standard Edition

- JSP
- HTML , CSS
- SQL SERVER 2008
- Java Script

CHAPTER-4

DEVELOPING TOOLS AND TECHNOLOGY

4.1 TOOLS:

- Macromedia Dreamweaver
- SQL Server Management Studio
- JDK
- Tomcat Server

- **Macromedia Dreamweaver:**

  It is a Powerful development tool used to develop various kinds of web applications like static and dynamic, it supports many languages like, JSP, PHP, asp, etc

- **MS SQL Server Management Studio:**

Microsoft SQL is developed by Microsoft. It is used to create and manage database servers where it allows interaction between application and database.

- **JDK:**

It is a java development kit, used to compile java programs, we are using the jdk1.6.0 version to compile our project code which is written in JSP

- **Tomcat Server:**

It is the local server used to run java website applications locally on the computer. To see the output we need this server.

4.2 TECHNOLOGIES:

- JSP
- HTML
- CSS

- **JSP:**

This language is called java server pages, which is one of the programming languages, used to develop web applications

- **HTML:**

Html stands for hypertext markup languages, which are used to design web pages. Using only HTML we can design static websites.

- **CSS:**

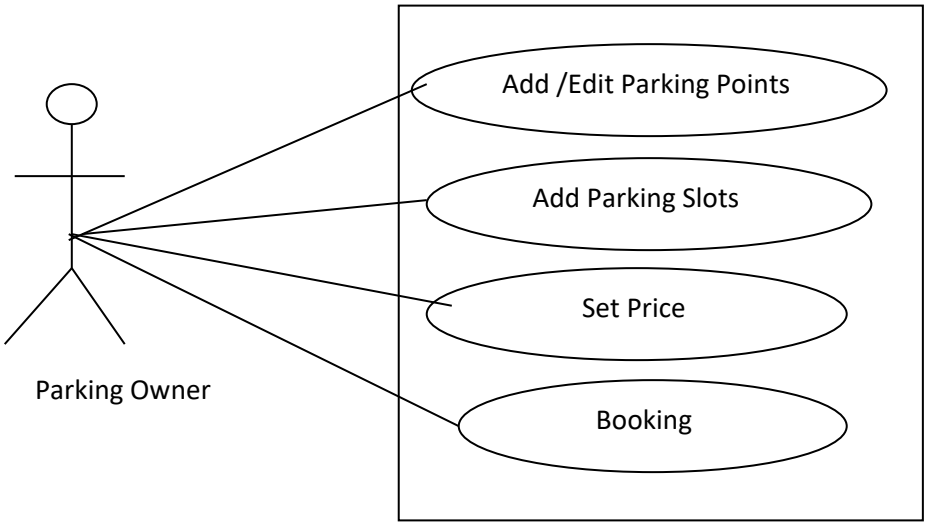
CSS gives the Look and Feel to the web application. You can make your web pages more interactive when you apply styles to the HTML elements.

CHAPTER-5

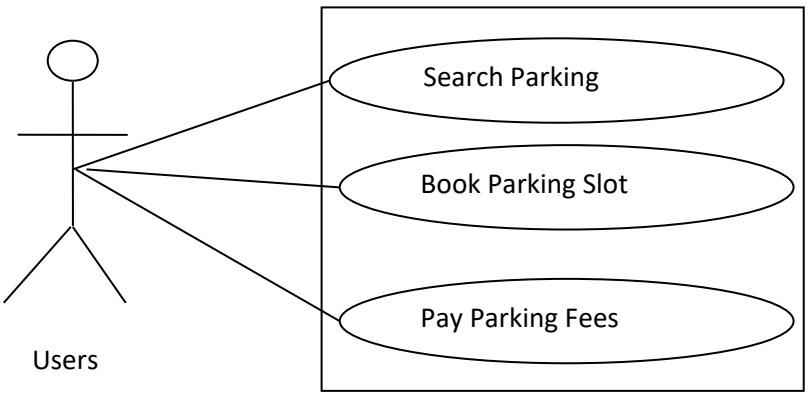
SYSTEM DESIGN

5.1 USE CASE DIAGRAM

Parking Owner:

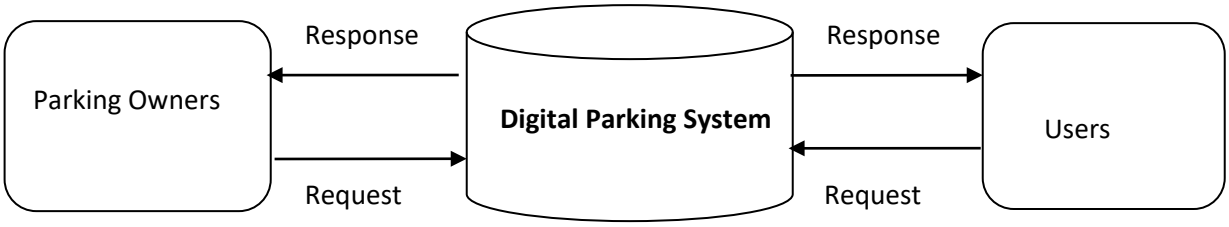


Users:

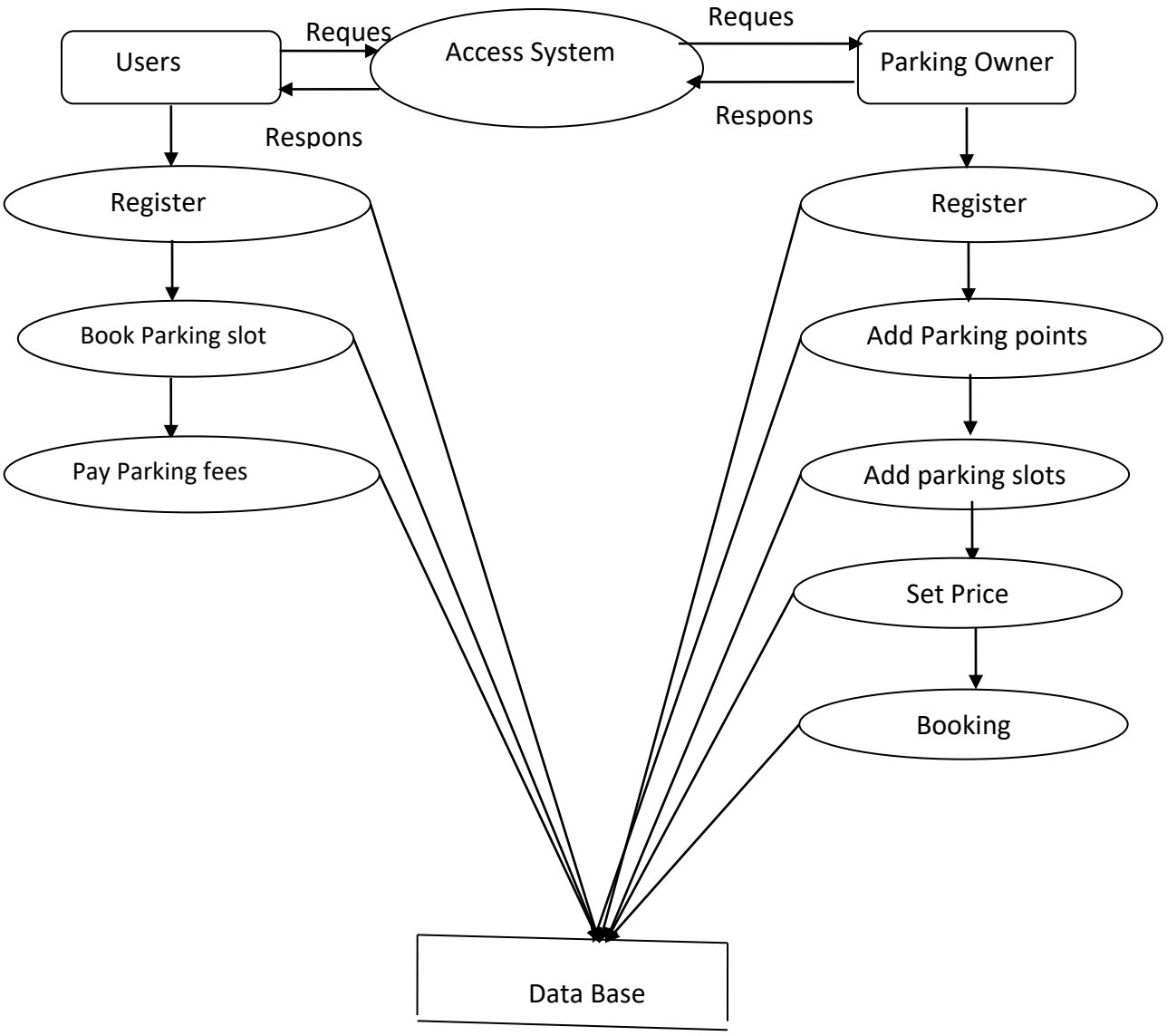


5.2 DATA FLOW DIAGRAMS:

Context level DFD of the proposed system:



Top Detailed DFD of the proposed system:



5.3 MODULARIZATION DETAILS

Parking Owners:

1) Register in the system
2) Login to the system
3) Create Parking Points
4) Set Parking Price
5) Create Parking slots at parking points
6) Book Parking
7) Generate Parking Bill

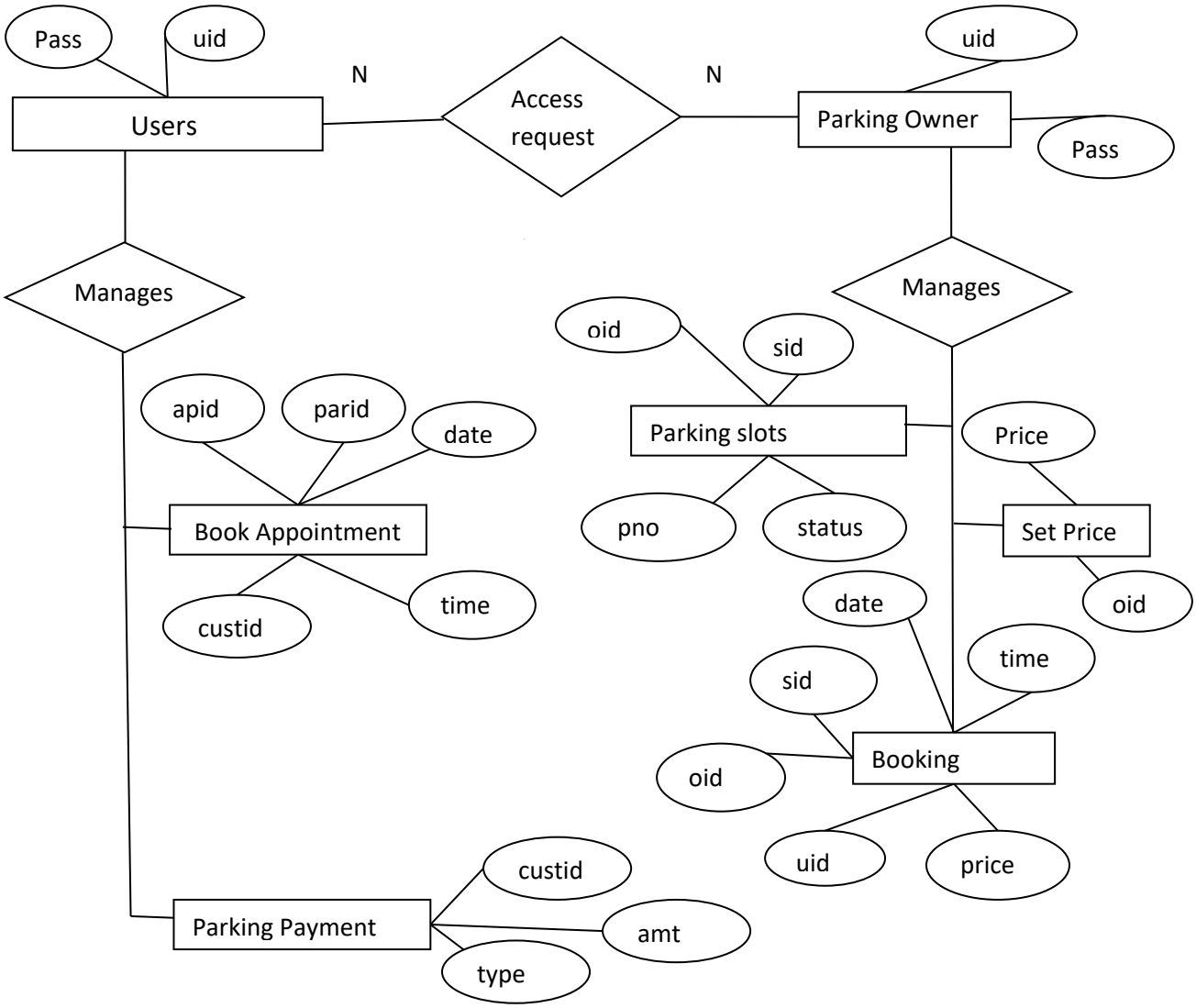
Users:

1) View Parking points in the city
2) View Parking Slots at parking points
3) Book Parking Slot
4) Make Parking Payment

CHAPTER-6

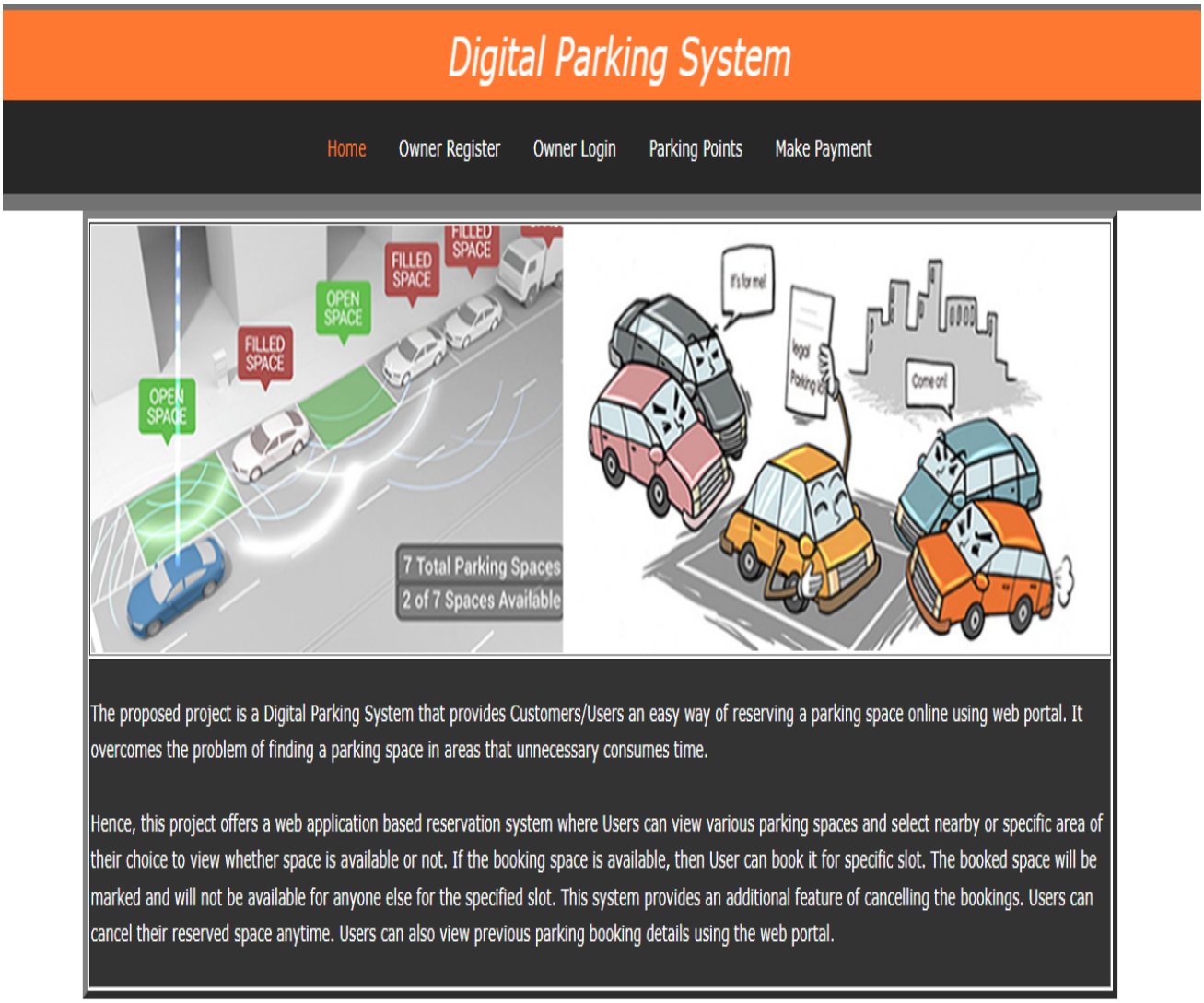
DETAILED LIFE CYCLE OF PROJECT

6.1 ER DIAGRAM:



6.2 SNAPSHOT

Index Page



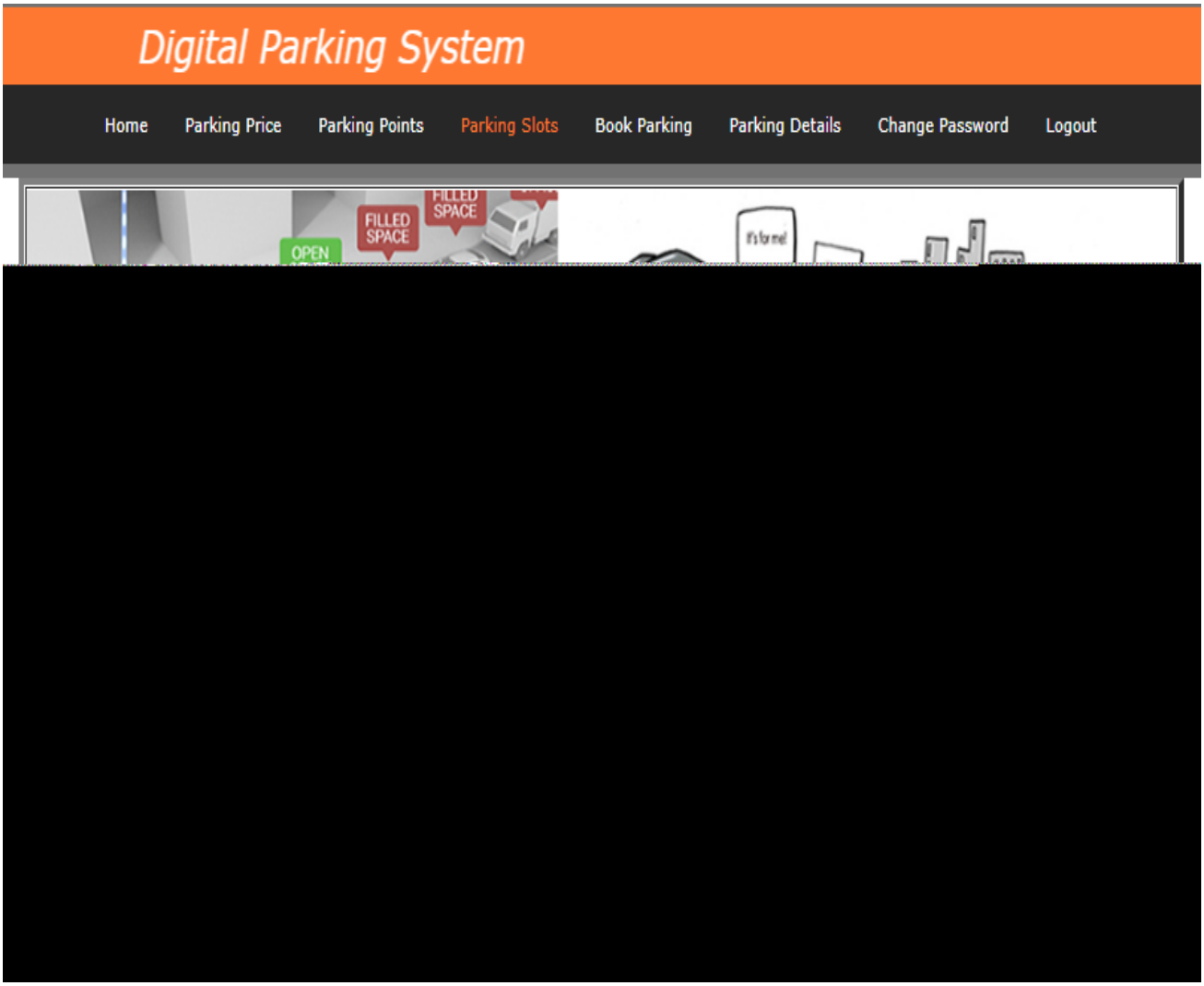
Owner Register

Owner Login


Digital Parking System
Home
Owner Register
Owner Login
Parking Points
Make Payment
FILLED SPACE
OPEN SPACE
FILLED SPACE
OPEN SPACE
FILLED SPACE
7 Total Parking Spaces
2 of 7 Spaces Available
It's for me!
Illegal Parking
Come on!
Owner Login
User-Id :
Password :
LOGIN

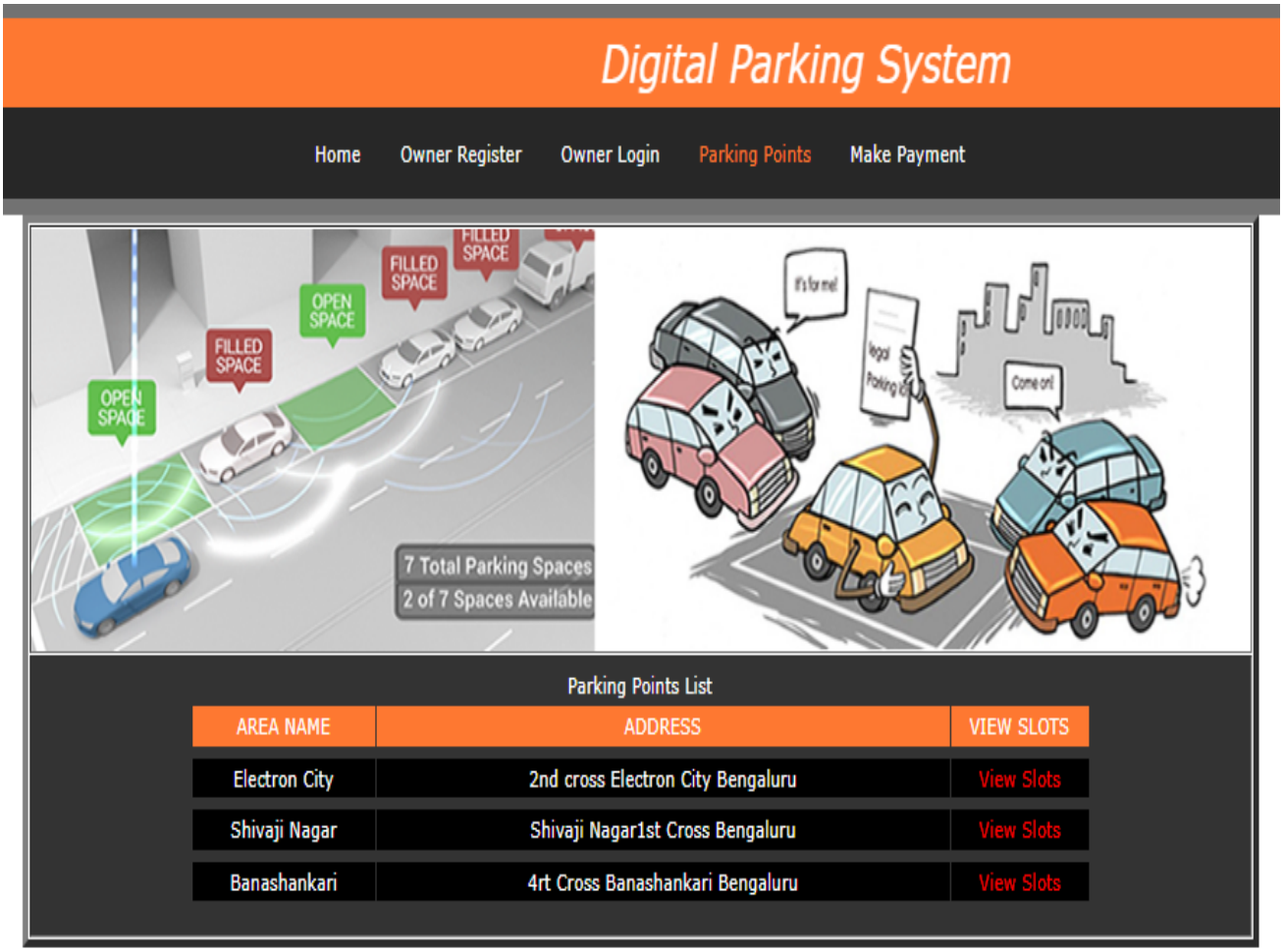
Parking Points

Parking Slots



Book Parking

Parking Points to User



Make Payment

6.3DATABASE TABLES

Owner register

Column Name	Data Type	Allow Nulls
oid	int	☐
city	nvarchar(50)	☑
oname	nvarchar(50)	☑
uid	nvarchar(50)	☑
pass	nvarchar(50)	☑

Parking Points

Column Name	Data Type	Allow Nulls
pid	int	☐
uid	nvarchar(50)	☑
pname	nvarchar(50)	☑
padr	nvarchar(MAX)	☑

Parking slots

Column Name	Data Type	Allow Nulls
slid	int	☐
uid	nvarchar(50)	☑
ppname	nvarchar(50)	☑
slotno	nvarchar(50)	☑
status	nvarchar(50)	☑

Price chart

Column Name	Data Type	Allow Nulls
uid	nvarchar(50)	☑
price	int	☑

6.4 CODEING :

1) Owner Register

```
<%@ page contentType="text/html; charset=iso-8859-1" language="java"
import="java.sql.*" errorPage="" %>
<%@ page buffer="110kb" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Digital Parking System</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<style type="text/css">
 .zoom {
    padding: 5px;
    transition: transform .2s; /* Animation */
    width: 180px;
    height: 150px;
    margin: 0 auto;
}

.zoom:hover {
    transform: scale(1.5); /* (150% zoom - Note: if the zoom is too large, it will go outside
of the viewport) */
}
<%@ include file="layout.css"%>
<%@ include file="fontawesome-4.6.3.min.css"%>
<%@ include file="framework.css"%>
</style>
<script>
function validateForm()
{

 if(document.frm.cmbcity.value=="")
    {
      alert("Select City");
      document.frm.cmbcity.focus();
      return false;
    }

            if(document.frm.txtname.value=="")
```

```
    {
     alert("Enter Owner Name");
     document.frm.txtname.focus();
     return false;
    }
          if(document.frm.txtuid.value=="")
    {
     alert("Enter Userid");
     document.frm.txtuid.focus();
     return false;
    }

          if(document.frm.txtpass.value=="")
    {
     alert("Enter Password");
     document.frm.txtpass.focus();
     return false;
    }

         }


</script>
        </head>
<body id="top">
<!--
############################################################################
######################### -->
<!--
############################################################################
######################### -->
<!--
############################################################################
######################### -->
<!-- Top Background Image Wrapper -->
<div class="topspacer bgded overlay" >
  <!--
############################################################################
######################### -->
  <div class="wrapper row0">
```

```
   <div id="topbar" class="hoc clear">
    <!--
################################################################################
########################## -->
       <center><font size="6"><i><marquee behavior="alternate">Digital Parking
System</marquee></i></font></center>
    <!--
################################################################################
########################## -->
   </div>
  </div>
  <!--
################################################################################
########################## -->
  <!--
################################################################################
########################## -->
  <!--
################################################################################
########################## -->
  <div class="wrapper row1">
   <header id="header" class="hoc clear">
    <!--
################################################################################
########################## -->
          <nav id="mainav" class="fl_right">
      <ul class="clear">
           <li ><a href="index.jsp">Home</a></li>
                  <li class="active"><a href="register.jsp">Owner Register</a></li>
                   <li ><a href="ownerlogin.jsp">Owner Login</a></li>
                   <li><a href="userppoints.jsp">Parking Points</a></li>
        <li><a href="makepayment.jsp">Make Payment</a></li>
      </ul>
    </nav>
   </header>

  </div>
  <!--
################################################################################
########################## -->
```

```
 <!--
##############################################################################
######################### -->
 <!--
##############################################################################
######################### -->

 <!--
##############################################################################
######################### -->
</div>
                        <table width="1100"  border="5" align="center">
                         <tr><td><img src="logo.png" width="1050"
height="260px"></td></tr>


                        <tr><td height="200" bgcolor="#333333">
                        <form name="frm" method="post" action="" onSubmit="return
validateForm()">
          <table width="400" align="center">
                    <tr><td height="5"></td></tr>

           <tr>
             <td colspan="2" align="center" class="font_head">Register Owner</td>
           </tr>

           <tr><td height="5"></td></tr>

           <tr>
           <td>Select City :</td>
           <td>

          <select name="cmbcity" class="txt">

  <option>Bengaluru</option>

</select>
</td>
           </tr>
```

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



 <tr>
<td>Enter Owner Name :</td>
<td>
<input type="text" name="txtname" size="20" class="txt">
</td>
</tr>

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

 <tr>
<td>Enter Userid :</td>
<td>
<input type="text" name="txtuid" size="20" class="txt">
</td>
</tr>
 <tr><td height="10"></td></tr>

 <tr>
<td>Enter Password :</td>
<td>
<input type="password" name="txtpass"  size="20" class="txt">
</td>
</tr>


<tr><td height="5"></td></tr>

 <tr>
<td align="center" ></td><td><input type="submit" class="btn"  value="
Register " />

</td>
</tr>

<tr><td height="15"></td></tr>
```

```
            </table>
</form>            <%
if(request.getMethod().equals("POST"))
{
String city,uid,pass,nam;
int ext=0,id=0;

city=request.getParameter("cmbcity");
nam=request.getParameter("txtname");
uid=request.getParameter("txtuid");
pass=request.getParameter("txtpass");
try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con=DriverManager.getConnection("Jdbc:Odbc:parking");
java.sql.Statement smt = con.createStatement();
ResultSet rs=smt.executeQuery("select * from ownermaster where uid='"+uid+"' ");
while(rs.next())
{
ext=1;
}
if(ext==1)
{
 out.println("<script language='javascript'> alert('Userid is already there'); </script>");
}
else
{

smt.executeUpdate("insert into
ownermaster(city,oname,uid,pass)values('"+city+"','"+nam+"','"+uid+"','"+pass+"')");
out.println("<script language='javascript'> alert('Owner Registred Successfully.');
</script>");
  %>

  <%

}
}
catch(Exception e)
{
```

```
out.println(e);
}
}
%>
                    </td></tr>




                                <tr><td height="15"></td></tr>
            </table>

<!-- JAVASCRIPTS -->
<script src="layout/scripts/jquery.min.js"></script>
<script src="layout/scripts/jquery.backtotojs"></script>
<script src="layout/scripts/jquery.mobilemenu.js"></script>
```

2) Owner login

```
<%@ page contentType="text/html; charset=iso-8859-1" language="java"
import="java.sql.*" errorPage="" %>
<%@ page buffer="110kb" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Digital Parking System</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<script>
function validateForm()
{
 if(document.frm.txtuid.value=="")
   {
    alert("Enter User-Id");
    document.frm.txtuid.focus();
    return false;
   }
          if(document.frm.txtpass.value=="")
   {
    alert("Enter Password");
    document.frm.txtpass.focus();
```

```
      return false;
    }
}
</script>
<style type="text/css">
 .zoom {
    padding: 5px;
    transition: transform .2s; /* Animation */
    width: 180px;
    height: 150px;
    margin: 0 auto;
}

.zoom:hover {
    transform: scale(1.5); /* (150% zoom - Note: if the zoom is too large, it will go
outside of the viewport) */
}
<%@ include file="layout.css"%>
<%@ include file="fontawesome-4.6.3.min.css"%>
<%@ include file="framework.css"%>
</style>

          </head>
<body id="top">
<!--
################################################################################
############################### -->
<!--
################################################################################
############################### -->
<!--
################################################################################
############################### -->
<!-- Top Background Image Wrapper -->
<div class="topspacer bgded overlay" >
  <!--
################################################################################
############################### -->
  <div class="wrapper row0">
    <div id="topbar" class="hoc clear">
```

```
    <!--
################################################################################
################################## -->
      <center><font size="6"><i><marquee behavior="alternate">Digital Parking
System</marquee></i></font></center>
    <!--
################################################################################
################################## -->
   </div>
  </div>
  <!--
################################################################################
################################## -->
  <!--
################################################################################
################################## -->
  <!--
################################################################################
################################## -->
  <div class="wrapper row1">
   <header id="header" class="hoc clear">
    <!--
################################################################################
################################## -->
          <nav id="mainav" class="fl_right">
      <ul class="clear">
           <li ><a href="index.jsp">Home</a></li>
                  <li ><a href="register.jsp">Owner Register</a></li>
                   <li class="active"><a href="ownerlogin.jsp">Owner
Login</a></li>
                   <li><a href="userppoints.jsp">Parking Points</a></li>
        <li><a href="makepayment.jsp">Make Payment</a></li>
      </ul>
    </nav>
   </header>

  </div>
  <!--
################################################################################
################################## -->
```

```
 <!--
##########################################################################
################################ -->
 <!--
##########################################################################
################################ -->

 <!--
##########################################################################
################################ -->
</div>
                        <table width="1100" border="5" align="center">
                         <tr><td><img src="logo.png" width="1050"
height="260px"></td></tr>


                        <tr><td height="200" bgcolor="#333333">
                        <form name="frm" method="post" action=""
onSubmit="return validateForm()">
          <table width="320" align="center">
                    <tr bordercolor="#333333"><td height="5"></td></tr>

           <tr>
             <td colspan="2" align="center" class="font_head">Owner Login</td>
           </tr>

           <tr><td height="5"></td></tr>

           <tr>
           <td>User-Id :</td>
           <td>

           <input type="text" name="txtuid" size="20" class="txt"></td>
           </tr>


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

            <tr>
           <td>Password :</td>
```

```
            <td>
            <input type="password" name="txtpass" size="20" class="txt"></td>
            </tr>


            <tr><td height="5"></td></tr>

             <tr>
            <td align="center" ></td><td><input   type="submit" class="btn"
value=" Login " />

            </td>
            </tr>


           </table>
</form>           <%
if(request.getMethod().equals("POST"))
{
String uid,pass,iid="";
int ext=0,id=0;

uid=request.getParameter("txtuid");
pass=request.getParameter("txtpass");

try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con=DriverManager.getConnection("Jdbc:Odbc:parking");
java.sql.Statement smt = con.createStatement();
ResultSet rs=smt.executeQuery("select * from ownermaster where uid='"+uid+"'
and pass='"+pass+"'");
while(rs.next())
{
ext=1;
}
if(ext==1)
{
 session.setAttribute("owner",uid);
          response.sendRedirect("ownerhome.jsp");
```

```
}
else
{
out.println("<script language='javascript'> alert('Invalid User-Id OR Password.');
</script>");
}
}
catch(Exception e)
{
out.println(e);
}
}
%>
                    </td></tr>
            </table>

<!-- JAVASCRIPTS -->
<script src="layout/scripts/jquery.min.js"></script>
<script src="layout/scripts/jquery.backtotojs"></script>
<script src="layout/scripts/jquery.mobilemenu.js"></script>
</body>
</html>
```

3) Booking

```
<%@ page contentType="text/html; charset=iso-8859-1" language="java"
import="java.sql.*" errorPage="" %>
<%@ page buffer="110kb" %>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Digital Parking System</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<%
if(session.getAttribute("owner") == null)
        {
        response.sendRedirect("index.jsp");
   }
%>
<style type="text/css">
 .zoom {
   padding: 5px;
   transition: transform .2s; /* Animation */
   width: 180px;
   height: 150px;
   margin: 0 auto;
}

.zoom:hover {
   transform: scale(1.5); /* (150% zoom - Note: if the zoom is too large, it will go
outside of the viewport) */
}
<%@ include file="layout.css"%>
<%@ include file="fontawesome-4.6.3.min.css"%>
<%@ include file="framework.css"%>
</style>
<script>
function validateForm()
{

 if(document.frm.cmbpoint.value=="")
   {
    alert("Select Parking Point Area");
    document.frm.cmbpoint.focus();
    return false;
   }
        if(document.frm.cmbpoint.value==0)
```

```
{
 alert("Select Parking Point Area");
 document.frm.cmbpoint.focus();
 return false;
}
      if(document.frm.cmbslot.value=="")
{
 alert("Select Slot Number");
 document.frm.cmbslot.focus();
 return false;
}
       if(document.frm.txtname.value=="")
{
 alert("Enter User Name");
 document.frm.txtname.focus();
 return false;
}
       if(document.frm.txtvh.value=="")
{
 alert("Enter Vehicle Number");
 document.frm.txtvh.focus();
 return false;
}
       if(document.frm.txtmob.value=="")
{
 alert("Enter Mobile Number");
 document.frm.txtmob.focus();
 return false;
}
      var mb = document.frm.txtmob.value;
       if(isNaN(mb)||mb.indexOf(" ")!=-1)
      {
        alert("Enter numeric value for Mobile Number")
        return false;
      }
              if(mb.length<10)
       {
      alert("Enter 10 digit's for Mobile No.");
 document.frm.txtmob.focus();
 return false;
```

```
            }

           }

 function userchange()
 {
var pt = document.frm.cmbpoint.value;
      window.location =
'http://localhost:8080/examples/digitalparking/bookparking.jsp?point='+pt+";
              return false ;

}
</script>
          </head>
<body id="top">
<!--
################################################################################
################################## -->
<!--
################################################################################
################################## -->
<!--
################################################################################
################################## -->
<!-- Top Background Image Wrapper -->
<div class="topspacer bgded overlay" >
  <!--
################################################################################
################################## -->
  <div class="wrapper row0">
    <div id="topbar" class="hoc clear">
      <!--
################################################################################
################################## -->
        <center><font size="6"><i><marquee behavior="alternate">Digital Parking
System</marquee></i></font></center>
      <!--
################################################################################
################################## -->
    </div>
```

```
  </div>
  <!--
################################################################################
################################## -->
  <!--
################################################################################
################################## -->
  <!--
################################################################################
################################## -->
  <div class="wrapper row1">
    <header id="header" class="hoc clear">
      <!--
################################################################################
################################## -->
            <nav id="mainav" class="fl_right">
       <ul class="clear">
             <li><a href="ownerhome.jsp">Home</a></li>
                     <li ><a href="pprice.jsp">Parking Price</a></li>
                     <li  ><a href="ppoints.jsp">Parking Points</a></li>
                      <li ><a href="pslots.jsp">Parking Slots</a></li>
                            <li class="active"><a href="bookparking.jsp">Book
Parking</a></li>
                              <li ><a href="parkingdetails.jsp">Parking Details</a></li>
                     <li ><a href="changepass.jsp">Change Password</a></li>
                      <li ><a href="logout.jsp">Logout</a></li>

       </ul>
     </nav>
    </header>

  </div>
  <!--
################################################################################
################################## -->
  <!--
################################################################################
################################## -->
```

```
 <!--
##########################################################################
################################ -->

 <!--
##########################################################################
################################ -->
</div>
                        <table width="1100" border="5" align="center">
                         <tr><td><img src="logo.png" width="1050"
height="260px"></td></tr>


                        <tr><td height="200" bgcolor="#333333">
                        <form name="frm" method="post" action=""
onSubmit="return validateForm()">
        <table width="400" align="center">
                <tr><td height="5"></td></tr>

         <tr>
           <td colspan="2" align="center" class="font_head">Book Parking</td>
         </tr>

         <tr><td height="5"></td></tr>

         <tr>
         <td>Select Parking Point :</td>
         <td>

        <select name="cmbpoint" onchange="userchange()" class="txt">
        <option value="0">Select Parking Point</option>
 <%
 String dist1="sd";
dist1=request.getParameter("point");
String disttemp="";
try
{
int i=0;
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con=DriverManager.getConnection("Jdbc:Odbc:parking");
```

```
java.sql.Statement smt = con.createStatement();
ResultSet rs ;
 rs=smt.executeQuery("select * from parking_points where
uid="'+session.getAttribute("owner")+"'  order by pname");
 while(rs.next())
 {
String pnam=rs.getString("pname");
 i=i+1;
 String ct="";

if(i==1)
{
disttemp=pnam;
}
if(pnam.equals(dist1))
{
ct="Selected";
}
else
{
ct="";
}

%>

  <option  <%=ct%>><%=pnam%></option>
  <%
 }
          con.close();
}
catch(Exception ex)
{
 out.println(ex);
 }

%>
</select></td>
            </tr>
```

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

 <tr>
<td>Select Slot No :</td>
<td>

<select name="cmbslot" class="txt">
 <%

try
{
int i=0;
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con=DriverManager.getConnection("Jdbc:Odbc:parking");
java.sql.Statement smt = con.createStatement();
ResultSet rs ;
 rs=smt.executeQuery("select * from parking_slots where status='free' and
ppname='"+dist1+"' and uid='"+session.getAttribute("owner")+"'");
 while(rs.next())
 {
String slt=rs.getString("slotno");

%>

 <option><%=slt%></option>
 <%
 }
        con.close();
}
catch(Exception ex)
{
 out.println(ex);
 }

%>
</select></td>
        </tr>


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

```
<tr>
<td>Enter User Name :</td>
<td>
<input type="text" name="txtname" size="20" class="txt">
</td>
</tr>

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

<tr>
<td>Enter Vehicle No :</td>
<td>
<input type="text" name="txtvh" size="20" class="txt">
</td>
</tr>
<tr><td height="10"></td></tr>

<tr>
<td>Enter Mobile No :</td>
<td>
<input type="text" name="txtmob" maxlength="10" size="20"
class="txt">
</td>
</tr>


<tr><td height="5"></td></tr>

<tr>
<td align="center" ></td><td><input type="submit" class="btn"  value="
Book " />

</td>
</tr>

<tr><td height="15"></td></tr>
</table>
</form>          <%
if(request.getMethod().equals("POST"))
```

```
{
String slot,pt,nam,mob,vh;
int ext=0,id=0;

slot=request.getParameter("cmbslot");
pt=request.getParameter("cmbpoint");
nam=request.getParameter("txtname");
vh=request.getParameter("txtvh");
mob=request.getParameter("txtmob");
try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con=DriverManager.getConnection("Jdbc:Odbc:parking");
java.sql.Statement smt = con.createStatement();
ResultSet rs=smt.executeQuery("select * from parkingmaster where
prkvh='"+vh+"' and prkstatus='Pending'");
while(rs.next())
{
ext=1;
}
if(ext==1)
{
 out.println("<script language='javascript'> alert('Vehicle Number is Parked');
</script>");
}
else
{
smt.executeUpdate("update parking_slots  set status='Booked' where
ppname='"+pt+"' and slotno='"+slot+"' and
uid='"+session.getAttribute("owner")+"'");
int amt=0;
smt.executeUpdate("insert into
parkingmaster(uid,prkpname,prkslot,prkuname,prkvh,prkmob,prkhour,prkamt,prkt
ype)values('"+session.getAttribute("owner")+"','"+pt+"','"+slot+"','"+nam+"','"+vh
+"','"+mob+"','"+amt+"','"+amt+"',')");
out.println("<script language='javascript'> alert('Parking Slot Booked
Successfully.'); </script>");
  %>
  <script>
  window.location="bookparking.jsp";
```

```
 </script>
 <%

}
}
catch(Exception e)
{
out.println(e);
}
}
%>
                    </td></tr>


                    <tr bgcolor="#333333">

                    <td align="center">

                    <table width="1050" class="tb" ><tr><td>

           <table width="1050" align="center">

            <tr>
              <td  align="center" class="font_head" colspan="7">Booked Parking
Slot List</td>
            </tr>


            <tr bgcolor="#FE7831">
                                <td  width="250"><div align="center"> <font
color="#FFFFFF">AREA NAME</font></div></td>
                                    <td width="100"><div align="center"> <font
color="#FFFFFF"> SLOT NO</font></div></td>
                                    <td width="120"><div align="center"> <font
color="#FFFFFF">BOOKING TIME</font></div></td>
                                    <td width="240"><div align="center"> <font
color="#FFFFFF"> USER NAME</font></div></td>
                                     <td width="90"><div align="center"> <font
color="#FFFFFF"> VEHICLE NO</font></div></td>
```

```
                                        <td width="100"><div align="center">
<font color="#FFFFFF">MOBILE NO</font></div></td>
                                    <td  width="100"><div align="center"> <font
color="#FFFFFF"> RELEASE</font></div></td>
            </tr>
      <%

try
{

int slid=0;

Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con=DriverManager.getConnection("Jdbc:Odbc:parking");
java.sql.Statement stmt=con.createStatement();
ResultSet rs2=stmt.executeQuery("select * from parkingmaster where
prkpname='"+dist1+"' and prkstatus='Pending' and
uid='"+session.getAttribute("owner")+"'");
while(rs2.next())
{
int prkid=rs2.getInt("prkid");
                String pnam1= rs2.getString("prkpname");
                String slot1= rs2.getString("prkslot");
                String punam1= rs2.getString("prkuname");
                String vh1= rs2.getString("prkvh");
                String mob1= rs2.getString("prkmob");
                String dte1= rs2.getString("prkdate");


%>
 <tr><td height="5"></td></tr>
  <tr bgcolor="#000">


                                    <td ><div align="center"> <font
color="#FFFFFF"><%=pnam1%></div></td>
                                        <td ><div align="center"> <font
color="#FFFFFF"><%=slot1%></div></td>
                                         <td ><div align="center"> <font
color="#FFFFFF"><%=dte1%></div></td>
```

```
                                        <td ><div align="center"> <font
color="#FFFFFF"><%=punam1%></div></td>
                                        <td ><div align="center"> <font
color="#FFFFFF"><%=vh1%></div></td>
                                        <td ><div align="center"> <font
color="#FFFFFF"><%=mob1%></div></td>
                                          <td><div align="center"><a
href="releaseslot.jsp?prkid=<%=prkid%>" target="_blank" onclick="return
confirm('Are you sure you want to Release this Vehicle?');"><font
color="#FF0000">Release</font></a></div>

            </tr>
            <%



}
}
catch(Exception e)
{
out.println(e);

}
%>
          </table>

                </td></tr>

                        <tr><td height="15"></td></tr>
        </table>

<!-- JAVASCRIPTS -->
<script src="layout/scripts/jquery.min.js"></script>
<script src="layout/scripts/jquery.backtotojs"></script>
<script src="layout/scripts/jquery.mobilemenu.js"></script>
</body>
</html>
```

4) Setprice

```
<%@ page contentType="text/html; charset=iso-8859-1" language="java"
import="java.sql.*" errorPage="" %>
<%@ page buffer="110kb" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Digital Parking System</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<%
if(session.getAttribute("owner") == null)
          {
          response.sendRedirect("index.jsp");
   }
%>
<script>
function validateForm()
{
   if(document.frm.price.value=="")
   {
    alert("Enter Price");
    document.frm.price.focus();
    return false;
   }

  var mb = document.frm.price.value;
         if(isNaN(mb)||mb.indexOf(" ")!=-1)
        {
          alert("Enter numeric value for Price")
          return false;
        }
                  if(mb<=0)
         {
        alert("Enter Positive Value");
    document.frm.price.focus();
```

```
     return false;
          }
          }
          </script>
<style type="text/css">
 .zoom {
   padding: 5px;
   transition: transform .2s; /* Animation */
   width: 180px;
   height: 150px;
   margin: 0 auto;
}

.zoom:hover {
   transform: scale(1.5); /* (150% zoom - Note: if the zoom is too large, it will go
outside of the viewport) */
}
<%@ include file="layout.css"%>
<%@ include file="fontawesome-4.6.3.min.css"%>
<%@ include file="framework.css"%>
</style>

          </head>
<body id="top">
<!--
################################################################################
############################### -->
<!--
################################################################################
############################### -->
<!--
################################################################################
############################### -->
<!-- Top Background Image Wrapper -->
<div class="topspacer bgded overlay" >
  <!--
################################################################################
############################### -->
  <div class="wrapper row0">
    <div id="topbar" class="hoc clear">
```

```
    <!--
################################################################################
################################## -->
      <center><font size="6"><i><marquee behavior="alternate">Digital Parking
System</marquee></i></font></center>
    <!--
################################################################################
################################## -->
   </div>
  </div>
  <!--
################################################################################
################################## -->
  <!--
################################################################################
################################## -->
  <!--
################################################################################
################################## -->
  <div class="wrapper row1">
   <header id="header" class="hoc clear">
    <!--
################################################################################
################################## -->
          <nav id="mainav" class="fl_right">
      <ul class="clear">
          <li><a href="ownerhome.jsp">Home</a></li>
                  <li class="active"><a href="pprice.jsp">Parking Price</a></li>
                  <li ><a href="ppoints.jsp">Parking Points</a></li>
                   <li ><a href="pslots.jsp">Parking Slots</a></li>
                          <li ><a href="bookparking.jsp">Book Parking</a></li>
                           <li ><a href="parkingdetails.jsp">Parking Details</a></li>
                  <li ><a href="changepass.jsp">Change Password</a></li>
                   <li ><a href="logout.jsp">Logout</a></li>

      </ul>
    </nav>
   </header>

  </div>
```

```
 <!--
##########################################################################
################################ -->
 <!--
##########################################################################
################################ -->
 <!--
##########################################################################
################################ -->

 <!--
##########################################################################
################################ -->
</div>
 <%
if(request.getMethod().equals("POST"))
{
int ext=0,price=0;

price=Integer.parseInt(request.getParameter("price"));

try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con=DriverManager.getConnection("Jdbc:Odbc:parking");
java.sql.Statement smt = con.createStatement();
ResultSet rs=smt.executeQuery("select * from pricechart ");
while(rs.next())
{
ext=1;
}
if(ext==1)
{
smt.executeUpdate("Update pricechart set price="+price+" where
uid="'+session.getAttribute("owner")+"'");
out.println("<script language='javascript'> alert('Price Updated Successfully.');
</script>");
}
else
{
```

```
smt.executeUpdate("insert into
pricechart(uid,price)values('"+session.getAttribute("owner")+"','"+price+"')");
out.println("<script language='javascript'> alert('Price added Successfully.');
</script>");
}
}
catch(Exception e)
{
out.println(e);
}
}
%>
                        <table width="1100" border="5" align="center">
                         <tr><td><img src="logo.png" width="1050"
height="260px"></td></tr>
                        <%
                        int pr=0;
                        try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con=DriverManager.getConnection("Jdbc:Odbc:parking");
java.sql.Statement smt = con.createStatement();
ResultSet rs=smt.executeQuery("select * from pricechart where
uid='"+session.getAttribute("owner")+"'");
while(rs.next())
{
pr=rs.getInt("price");
}

}
catch(Exception e)
{
out.println(e);
}
%>
                        <tr><td height="200" bgcolor="#333333">
                        <form name="frm" method="post" action=""
onSubmit="return validateForm()">
        <table width="450" align="center">
                <tr bordercolor="#333333"><td height="5"></td></tr>
```

```
            <tr>
              <td colspan="3" align="center" class="font_head">Parking Price</td>
            </tr>

            <tr><td height="5"></td></tr>

            <tr>
            <td>Enter Price :</td>
            <td>

            <input type="text" name="price" size="20" class="txt"
maxlength="3"></td>
           <td><input   type="submit" class="btn"  value=" Update " />

            </td>
            </tr>
 <tr><td height="15"></td></tr>
 <tr>
              <td colspan="3" align="center" class="font_head"><b><font
size="4px">Price / Hour is Rs : <%=pr%></b></td>
            </tr>
             <tr><td height="15"></td></tr>
           </table>
</form>
```

5) Add points

```
<%@ page contentType="text/html; charset=iso-8859-1" language="java"
import="java.sql.*" errorPage="" %>
<%@ page buffer="110kb" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Digital Parking System</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<%
if(session.getAttribute("owner") == null)
          {
          response.sendRedirect("index.jsp");
```

```
    }
%>
<style type="text/css">
 .zoom {
    padding: 5px;
    transition: transform .2s; /* Animation */
    width: 180px;
    height: 150px;
    margin: 0 auto;
}

.zoom:hover {
    transform: scale(1.5); /* (150% zoom - Note: if the zoom is too large, it will go
outside of the viewport) */
}
<%@ include file="layout.css"%>
<%@ include file="fontawesome-4.6.3.min.css"%>
<%@ include file="framework.css"%>
</style>
<script>
function validateForm()
{

 if(document.frm.txtname.value=="")
    {
      alert("Enter Parking Point Area");
      document.frm.txtname.focus();
      return false;
    }
            if(document.frm.txtadr.value=="")
    {
      alert("Enter Parking Address");
      document.frm.txtadr.focus();
      return false;
    }
}
</script>

           </head>
<body id="top">
```

```
<!--
################################################################################
################################## -->
<!--
################################################################################
################################## -->
<!--
################################################################################
################################## -->
<!-- Top Background Image Wrapper -->
<div class="topspacer bgded overlay" >
 <!--
################################################################################
################################## -->
 <div class="wrapper row0">
  <div id="topbar" class="hoc clear">
   <!--
################################################################################
################################## -->
      <center><font size="6"><i><marquee behavior="alternate">Digital Parking
System</marquee></i></font></center>
    <!--
################################################################################
################################## -->
  </div>
 </div>
 <!--
################################################################################
################################## -->
 <!--
################################################################################
################################## -->
 <!--
################################################################################
################################## -->
 <div class="wrapper row1">
  <header id="header" class="hoc clear">
   <!--
################################################################################
################################## -->
```

```
            <nav id="mainav" class="fl_right">
        <ul class="clear">
              <li><a href="ownerhome.jsp">Home</a></li>
                    <li ><a href="pprice.jsp">Parking Price</a></li>
                    <li  class="active"><a href="ppoints.jsp">Parking
Points</a></li>
                     <li ><a href="pslots.jsp">Parking Slots</a></li>
                          <li ><a href="bookparking.jsp">Book Parking</a></li>
                           <li ><a href="parkingdetails.jsp">Parking Details</a></li>
                    <li ><a href="changepass.jsp">Change Password</a></li>
                     <li ><a href="logout.jsp">Logout</a></li>

       </ul>
     </nav>
   </header>

  </div>
  <!--
########################################################################
################################ -->
  <!--
########################################################################
################################ -->
  <!--
########################################################################
################################ -->

  <!--
########################################################################
################################ -->
</div>
                          <table width="1100" border="5" align="center">
                           <tr><td><img src="logo.png" width="1050"
height="260px"></td></tr>


                          <tr><td height="200" bgcolor="#333333">
                          <form name="frm" method="post" action=""
onSubmit="return validateForm()">
          <table width="550" align="center">
```

```
                    <tr bordercolor="#333333"><td height="5"></td></tr>

            <tr>
              <td colspan="2" align="center" class="font_head">Parking Points</td>
            </tr>

            <tr><td height="5"></td></tr>

            <tr>
            <td>Enter Name :</td>
            <td>

            <input type="text" name="txtname" size="35" class="txt"></td>
            </tr>


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

             <tr>
            <td>Enter Address :</td>
            <td>
           <textarea name="txtadr" cols="40" rows="4" class="txt"></textarea>
           </td>
            </tr>


            <tr><td height="5"></td></tr>

             <tr>
            <td align="center" ></td><td><input  type="submit" class="btn"  value="
Save " />

            </td>
            </tr>

 <tr><td height="15"></td></tr>
          </table>
</form>          <%
if(request.getMethod().equals("POST"))
{
```

```
String nam,adr;
int ext=0,id=0;

nam=request.getParameter("txtname");
adr=request.getParameter("txtadr");

try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con=DriverManager.getConnection("Jdbc:Odbc:parking");
java.sql.Statement smt = con.createStatement();
ResultSet rs=smt.executeQuery("select * from parking_points where
pname='"+nam+"'");
while(rs.next())
{
ext=1;
}
if(ext==1)
{
 out.println("<script language='javascript'> alert('Parking Point is Already there');
</script>");
}
else
{
smt.executeUpdate("insert into
parking_points(uid,pname,padr)values('"+session.getAttribute("owner")+"','"+nam
+"','"+adr+"')");
out.println("<script language='javascript'> alert('Parking Point added
Successfully.'); </script>");
}
}
catch(Exception e)
{
out.println(e);
}
}
%>
                    </td></tr>
```

```
                    <tr bgcolor="#333333">

                    <td align="center">

                    <table width="800" class="tb" ><tr><td>

                <table width="800" align="center">

                 <tr>
                   <td  align="center" class="font_head" colspan="4">Parking Points
List</td>
                 </tr>


                 <tr bgcolor="#FE7831">
                                    <td  width="160"><div align="center"> <font
color="#FFFFFF">AREA NAME</font></div></td>
                                        <td width="500"><div align="center"> <font
color="#FFFFFF"> ADDRESS</font></div></td>
                                        <td  width="80"><div align="center"> <font
color="#FFFFFF"> EDIT</font></div></td>
                                       <td  width="80"><div align="center"> <font
color="#FFFFFF"> DELETE</font></div></td>
                    </tr>
          <%

try
{



Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection con=DriverManager.getConnection("Jdbc:Odbc:parking");
java.sql.Statement stmt=con.createStatement();
ResultSet rs2=stmt.executeQuery("select * from parking_points where
uid='"+session.getAttribute("owner")+"'");
while(rs2.next())
{

                    String nam1= rs2.getString("pname");
```

```
                String adr1= rs2.getString("padr");


%>
 <tr><td height="5"></td></tr>
  <tr bgcolor="#000">


                                    <td ><div align="center"> <font
color="#FFFFFF"><%=nam1%></div></td>
                                        <td ><div align="center"> <font
color="#FFFFFF"><%=adr1%></div></td>
            <td ><div align="center"><a href="editpoints.jsp?nam=<%=nam1%>"
onclick="return confirm('Are you sure you want to Edit this Data?');"><font
color="#FF0000">Edit</font></a></div></td>
                                    <td><div align="center"><a
href="deletepoints.jsp?nam=<%=nam1%>" onclick="return confirm('Are you sure
you want to Delete this Data?');"><font
color="#FF0000">Delete</font></a></div>

            </tr>
            <%


}
}
catch(Exception e)
{
out.println(e);

}
%>
          </table>

                </td></tr>

                        <tr><td height="15"></td></tr>
        </table>

<!-- JAVASCRIPTS -->
```

```
<script src="layout/scripts/jquery.min.js"></script>
<script src="layout/scripts/jquery.backtotojs"></script>
<script src="layout/scripts/jquery.mobilemenu.js"></script>
</body>
</html>
```

CHAPTER-07

TESTING

7.1 IMPORTANCE OF TESTING

Testing is a process, which reveals errors in the program. It is the major quality measure employed during software development. During testing, the program is executed with a set of conditions known as test cases, and the output is evaluated to determine whether the program is performing as expected.

The Primary and Larger objective of testing is to deliver quality software. Quality software is devoid of errors and meets a customer's stated requirements.

If errors are found, then the software must be debugged to locate these errors in the various programs. Corrections are then made. The program/system must be tested once again after corrections have been implemented - this time with an additional objective of finding out whether or not corrections in one part of the system have introduced any new errors elsewhere in the system.

Once all errors are found, then another objective must be accomplished which is to check whether or not the system is doing what it is supposed to do. So another aspect of testing is that it must also ensure that the system meets user requirements.

- Techniques of testing
- Black Box Testing
- White Box Testing
- Equivalence Portioning
- Boundary Value Analysis
- Ad-hoc Testing

7.2 STAGES IN THE TESTING PROCESS

Volume Testing - This was done to determine whether or not the system can handle a large volume of data. The volume was representative of the real-life volume with some provision for future growth.

Performance testing - This is a corollary to volume testing. This testing was done to focus on the performance of the System under large volumes and not just the ability to handle it.

Security Testing - This attempts to verify whether the protection mechanisms built into the system, actually protect the system from unauthorized access or not.

Regression Testing - This was done to see if any changes are made to one part of a Program and whether it affects another part of the System and also to check the deviations in behavior of unchanged parts of the system

Unit testing-Unit testing is normally considered an adjunct to the coding step. After source-level code has been developed, reviewed, and verified for correspondence to component-level design. A review of design information guides establishing test cases that are likely to uncover errors in each of the categories. Unit testing is responsible for testing each module in the software structure independently.

Integration testing-Tested modules are put together and tested for their integrity. Integration testing is a systematic technique for constructing the program structure while at the same time conducting tests to uncover errors associated with interfacing. The objectives are to take unit-tested components and build a program structure that has been discarded by design.

Testing strategies-A testing strategy is the general approach to the testing process rather than a method of devising particular system or components tests. Different strategies may be adopted depending on the type of system to be tested and the development process used.

The testing strategies discuss in this are:

Top-down testing where testing starts with the most abstract component and works downwards.

Bottom-up testing where testing starts with the fundamental components and works upwards.

7.3 TEST CASES:

Module Name: Admin Test Condition: Success

No.	Test case	Precondition	Test-condition	Expected result	Result
1.	Admin Login validation	Login screen is displayed	Click on login button without providing username and password	system should prompt to enter Userid/Password	Success
			Login with invalid username or password	system should prompt "invalid username or password"	Success
			Login with correct username or password	System should display home page for the respective users	Success

CHAPTER-08

CONCLUSION:

The application is designed in such a way that any further enhancements can be done with ease. The system has the capability for easy integration with other systems.

CHAPTER-09

BIBLIOGRAPHY:

- http://www.java.sun.com
- http://www.java.sun.com/j2ee
- http://www.jguru.com/faq
- http://www.sun.com/developers

Book References:

- Advanced Programming for the Java 2 Platform by: Calvin Austin & Monica Pawlan.
- Java 2 Complete Reference.
- Code Notes for J2EE by: Rob McGovern