HOTEL BOOKING SYSTEM USING JSP

Department of Computer Science and Engineering

MINI PROJECT REPORT

19CS30E - ADVANCED JAVA PROGRAMMING



Estd: 1984

SUBMITTED BY

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INTRODUCTION

A hotel booking system, or hotel reservation software, is a technology platform that enables hoteliers to accept direct bookings through the hotel's website and through various distribution channels.

Also known as a booking system or online booking engine, it is a tool that allows hotel guests to schedule the dates of their stay, choose rooms at the time of booking, and take payment from them.

This system brings efficiency and accessibility, allowing potential guests to book rooms at any time of the day or night without the need for staff oversight. Reservation systems enable direct bookings from your website, cutting out the middleman and ensuring that guests get the best rates—and you keep the most revenue. Real-time updates in the hotel reservation system prevent overbooking and keep everything in sync, while the system itself enhances the guest experience by allowing them to tailor their stay according to their preferences.

ABSTRACT

The Hotel Booking System is a project implemented for Hail Hotel, which is an imaginary hotel. It provides people all over the world with an easy and fast way to book hotel rooms online. The interface of the Hotel Booking System is Web pages that can be accessed with a Web site browser. The system is implemented using JSP(Java Server Page) with database connectivity using MySQL. Users can perform room booking activities at Hail Hotel anytime and anywhere by accessing it via Internet.

The Hotel Booking System is an easy-to-use application. Everyone who knows how to use a Web browser can easily carry out booking, change the booking details, cancel the booking, change the personal profile, view the booking history, or view the hotel information by following its simple and clear GUI (Graphical user interface) design.

Traditional methods of hotel booking often involve time-consuming processes and paperwork, leading to inefficiencies and potential errors. The Hotel Booking System addresses these challenges by providing an online platform that allows guests to browse available hotels, view room details, and make reservations effortlessly. For hotel owners and managers, it offers a user-friendly interface to manage room inventory, reservations, and guest information.

TECHNOLOGY USED

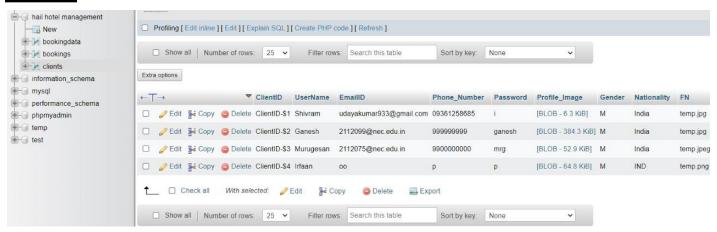
- HTML(Hyper Text Markup Language)
- CSS(Cascading Style Sheets)
- JS(Javascript)
- JSP(Java Server Page)
- MySQL(My Structured Query Language)

SOFTWARE USED

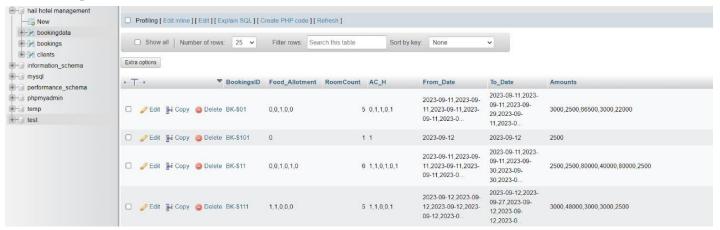
- Visual Studio Code (For Frontend)
- phpMyAdmin (For Backend)
- XAMPP(Server)

LIST OF TABLES

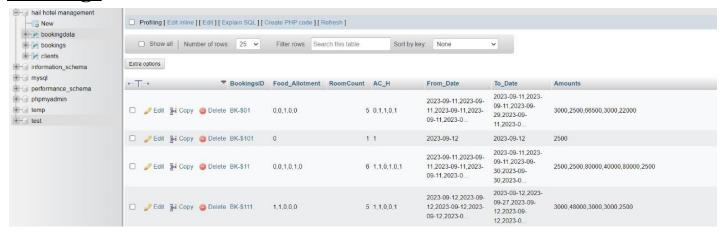
Clients



Booking Data



Bookings



IMPLEMENTATION

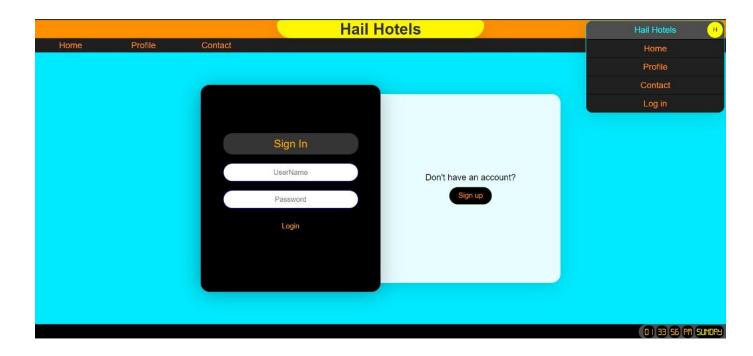
Welcome Page



Sign up Page



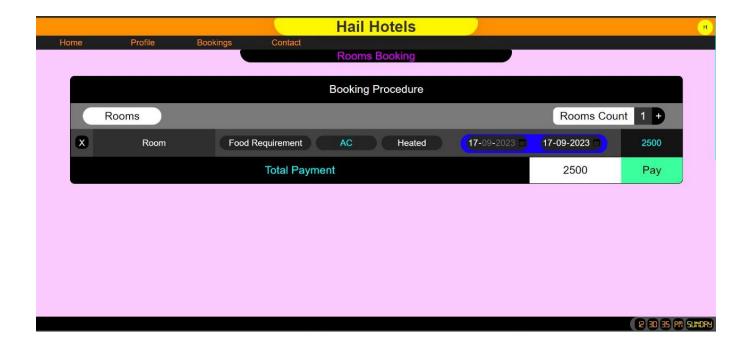
Sign in Page



Profile Page



Booking Page



View Bookings Page



Source Code

Home.jsp

```
<html>
  <script>
    var pg = "Login.jsp";
  </script>
  <%
    if(session.getAttribute("UserName")!=null)
  %>
    <script>
       pg = "User.jsp";
    </script>
  <%
    }
  %>
  <link rel="stylesheet" href="CSS\Home.css">
  <body>
    <img src="CSS\RES\Media\HF.jpg" alt="Description of the image" id="bg">
    <div class="cont" id="sg">
        if you are new to our firm please register an user account, in our firm and
get hype offers.
       <button id="b1" class="bt">Sign up</button>
     </div>
    <div class="cont" id="lgin">
        if you have an User account, feel free to book rooms and services from our
hotel, after logging in
       <button id="b2" class="bt">Log in
    </div>
    <div class="cont" id="bk">
       Let's go and book rooms, if your are logged in.
       <div>
```

```
<but
                                                                        id="b3"
style="display:inline;"class="bt1">Book</button><button
                                                                        id="b4"
style="display:inline;" class="bt1">Look up</button>
       </div>
    </div>
  </body>
  <script>
    var b1,b2,b3,b4;
    b1 = document.getElementById("b1");
    b2 = document.getElementById("b2");
    b3 = document.getElementById("b3");
    b4 = document.getElementById("b4");
    function lgin()
     {
                                               parent.window.location.href
"index.jsp?Tab="+encodeURIComponent(pg);
    b1.onclick = () => {lgin()};
    b2.onclick = () \Rightarrow {lgin()};
    b3.onclick = () => { window.location.href = "forward.jsp?to=Book.jsp"; };
     b4.onclick = () => { window.location.href = "forward.jsp?to=Bookings.jsp";
};
    function Check Parameters()
     {
       var urlparams = new URLSearchParams(window.location.search);
       var cmd = urlparams.get("cmd");
       var msg = urlparams.get("message");
       if(cmd!=null)
       {
         if(cmd=="Logout")
           window.location.href = "reset.jsp";
       if(msg!=null)
```

```
{
    var mesg = decodeURIComponent(msg);
    msg = document.createElement("div");
    msg.className="msg";
    msg.textContent=mesg;
    document.body.appendChild(msg);
    setTimeout(removemsg,3000);
}

function removemsg()
{
    var msgd = document.querySelector(".msg");
    if(msgd)
    {
        msgd.parentNode.removeChild(msgd);
    }
}
    window.onload = Check_Parameters
</script>
</html>
```

Book.jsp

```
<div id="container">
    </div>
    <div id="FN">
           <div id="TP">Total Payment</div><div id="payval">0</div><button</pre>
id="pay">Pay</button>
    </div>
  </body>
  <script>
    var count =0,rms=[];
    var rc = document.getElementById("val");
    var cont = document.getElementById("container");
    var b1 = document.getElementById("max");
    var paym = document.getElementById("payval");
    var paybt = document.getElementById("pay");
    b1.onclick = () =>
    {
       var t = Number(rc.innerText);
       rc.innerText = t+1;
    function Create RM()
       var rm = document.createElement("div");
       rm.innerText = "Room";
       rm.classList.add("rmn");
       return rm;
    function Create FA()
       var fa = document.createElement("button");
       fa.innerText = "Food Allotment";
       fa.classList.add("rmsfa");
       return fa;
    function Create PM()
```

```
var pm = document.createElement("div");
  pm.innerText = "200";
  pm.classList.add("rmspm");
  pm.id = "rmspmid";
  return pm;
function Rooms()
  var s = Number(rc.innerText);
  for(i=count;i<s;i++)
    var t = document.createElement("div");
    t.classList.add("rms");
    var bt = document.createElement("button");
    bt.classList.add("rmsbt");
    bt.innerText = "X";
    t.appendChild(bt);
    t.appendChild(Create RM());
    t.appendChild(Create FA());
    t.appendChild(Create PM());
    t.addEventListener('click', function (event) {
       if (event.target.classList.contains('rmsfa')) {
         console.log(event.target.style.background);
         if(event.target.style.background == "rgb(0, 255, 0)")
            event.target.style.background = "#ff0000";
            const pm = event.target.parentNode.querySelector("#rmspmid");
            //console.log(pm);
            if(pm)
            {
              console.log(pm.innerText);
              pm.innerText = Number(pm.innerText)-50;
         else
```

```
event.target.style.background = "#00ff00";
                 const pm = event.target.parentNode.querySelector("#rmspmid");
                 if(pm)
                 {
                   pm.innerText = Number(pm.innerText)+50;
          });
         cont.appendChild(t);
         rms.push(t);
       count = s;
       let pmt = 0;
       function add(i)
         //console.log(i);
         pmt+=Number((i.querySelector("#rmspmid")).innerText);
       rms.forEach(add);
       paym.innerText = pmt;
    // Event Delegation Concept
      // -> Where Events can be added to a parent element instead of adding to
every single element. It refers to the process of using event propagation (bubbling)
to handle events at a higher level in the DOM than the element on which the event
originated.
    cont.addEventListener('click', function (event) {
       if (event.target.classList.contains('rmsbt')) {
         rc.innerText = Number(rc.innerText) - 1;
event.target.parentNode.parentNode.removeChild(event.target.parentNode);
         rms = rms.filter(item => item!=event.target.parentNode);
```

```
});
    paybt.onclick = function()
       var rmfad = [];
       rmfad.push(Number(rc.innerText));
       rmfad.push(Number(paym.innerText));
       function anal(i)
       {
rmfad.push([Number((i.querySelector("#rmspmid")).innerText),(i.querySelector(".
rmsfa")).style.background == "rgb(0, 255, 0)" ? "1" : "0"]);
       }
       rms.forEach(anal);
       console.log(rmfad);
       console.log(rmfad[2]);
       var rmfadString = rmfad.join(',');
        var url = "http://localhost:8080/Hotel Booking System/Bookings DB.jsp"
+
         "?Rooms=" + encodeURIComponent(rmfadString);
       // Redirect to the new URL
       window.location.href = url;
    setInterval(Rooms, 100);
  </script>
</html>
<!--
Try
  try to pass the javascript array in JSON format ans intrepret it from JSP.
-->
```

Login.jsp

```
<%(a)
                                   contentType="text/html;
                                                             charset=UTF-8"
        page
                language="java"
pageEncoding="UTF-8" %>
<!DOCTYPE html>
<html>
  k rel="stylesheet" type="text/css" href="CSS/Login.css">
  <body>
    <div class="container">
      <div class="bluebg">
         <div class="Box Signin">
           <h2>Already have an account?</h2>
           <button class="signin">Sign in
         </div>
         <div class="Box Signup">
           <h2>Don't have an account?</h2>
           <button class="signup">Sign up</button>
         </div>
      </div>
      <div class="form">
         <div class="frm signinform">
           <form id="signinfrm" action="Signin.jsp">
             <h3>Sign In</h3>
                               <input id="f1" type="text" name="UserName"</pre>
placeholder="UserName">
                           <input id="f2" type="password" name="Password"
placeholder="Password">
             <input id="sn" type="submit" value="Login">
           </form>
         </div>
         <div class="frm signupform">
           <form id="signupfrm" action="Signup.jsp">
             <h3>Sign Up</h3>
                             <input id="f3" type="text" name = "UserName"</pre>
placeholder="UserName">
```

```
<input id="f4" type="text" name = "EmailID" placeholder="Email</pre>
ID">
                          <input id="f5" type="text" name = "Phone Number"</pre>
placeholder="Phone Number">
                           <input id="f6" type="password" name = "Password"</pre>
placeholder="Password">
              <input id="sup" type="submit" value="Sign up">
            </form>
         </div>
       </div>
     </div>
    <script>
       const signin = document.querySelector(".signin");
       const signup = document.querySelector(".signup");
       const signinf = document.getElementById("signinfrm");
       const signupf = document.getElementById("signupfrm");
       const form = document.querySelector(".form");
       const body = document.querySelector('body');
       const f = []
       f.push(document.getElementById("f1"));
       f.push(document.getElementById("f2"));
       f.push(document.getElementById("f3"));
       f.push(document.getElementById("f4"));
       f.push(document.getElementById("f5"));
       f.push(document.getElementById("f6"));
       signup.onclick = function()
         form.classList.add('active');
         body.classList.add('active');
       signin.onclick = function()
         form.classList.remove("active");
         body.classList.remove("active");
```

```
var sn = document.getElementById("sn"),sup =
document.getElementById("sup");
       sn.onclick = function()
         event.preventDefault();
         if(f[0].value!="" && f[1].value!="")
           signinf.submit();
         else
           alert("Please enter the values and then submit")
       sup.onclick = function()
         event.preventDefault();
         for(i=3;i<6;i++)
           if(f[i].value == "")
              alert("Please enter the values and then submit");
              return;
         signupf.submit();
       function displayMessage()
         var urlparams = new URLSearchParams(window.location.search);
         var message = urlparams.get("message");
         console.log("meow"+message);
         if(message!=null)
           var mesg = decodeURIComponent(message);
           var msg = document.createElement("div");
           msg.className="msg";
           msg.textContent=mesg;
           document.body.appendChild(msg);
```

```
setTimeout(removemsg,2000);
           console.log("meowwwqq")
                if(mesg == "Authentication Successfull" | mesg == "Registration
Successfull")
              setTimeout(function(){parent.reld("User.jsp");},2000);
              console.log("reload")
       function removemsg()
         var msgd = document.querySelector(".msg");
         if(msgd)
           msgd.parentNode.removeChild(msgd);
       window.onload = displayMessage;
    </script>
  </body>
</html>
```

Bookings mgmt.java

```
package DB;
import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Map;
// Java Beans Concept
public class Bookings Mgmt
  private String jdbcUrl,username,password,dbname,sql,name,em,ph,pswrd;
  private Connection connection;
  private PreparedStatement pst;
  private ResultSet rs;
  public boolean con = false,tsk=false,auth=false;
   public Bookings Mgmt(String Username, String password, String jdbcurl, String
databasename)
  {
    this.jdbcUrl = jdbcurl; // Update with your MySQL database URL
    this.username = Username;
    this.password = password;
    this.dbname = databasename;
    this.jdbcUrl+=databasename;
    // Drivers Import
    try
     {
       Class.forName("com.mysql.cj.jdbc.Driver");
       this.connection = null;
       this.pst = null;
     }
```

```
catch(Exception e)
       System.out.println(e.getMessage());
  public Bookings Mgmt()
    this.jdbcUrl = "jdbc:mysql://localhost:3306/hail hotel management"; // Update
with your MySQL database URL
    this.username = "root";
    this.password = "";
    this.DataBaseConnectionEstablishment();
  }
  public void DataBaseConnectionEstablishment()
    try
       this.connection = null;
       this.pst = null;
       Class.forName("com.mysql.cj.jdbc.Driver");
       connection = DriverManager.getConnection(jdbcUrl, username, password);
       this.con = true;
       // Drivers Import
    catch(Exception e)
       System.out.println(e.getMessage());
  public String Book(String name,int rmt,ArrayList<Integer> rmfa,int amt)
    this.tsk = false;
    int cnt=0;
    if(this.con)
```

```
try
  int rn=0;
  String clid="";
  sql = "SELECT COUNT(*) from bookings";
  pst = connection.prepareStatement(sql);
  rs = pst.executeQuery();
  if(rs.next())
    rn = rs.getInt(1);
  sql = "SELECT ClientID from clients where UserName = "'+name+"';";
  pst = connection.prepareStatement(sql);
  rs = pst.executeQuery();
  if(rs.next())
     clid = rs.getString(1);
  String bk = "BK-\$"+rn+1;
  sql = "Insert INTO bookings VALUES(?,?,?)";
  pst = connection.prepareStatement(sql);
  int k=1;
  pst.setString(k++,clid);
  pst.setString(k++,bk);
  pst.setString(k++,String.valueOf(amt));
  pst.executeUpdate();
  String fas = "",r="";
  for(int i=0;i<rmt-1;i++)
    fas+=String.valueOf(rmfa.get(i))+",";
    r+="R"+",";
  fas+=String.valueOf(rmfa.get(rmt-1));
  r+="R":
  sql = "Insert into bookingdata VALUES(?,?,?)";
  pst = connection.prepareStatement(sql);
  k=1;
  pst.setString(k++,bk);
  pst.setString(k++,r);
```

```
pst.setString(k++,fas);
         pst.executeUpdate();
         this.tsk = true;
         return "Success";
       catch (Exception e)
         return e.getMessage();
    return "Server Error, please try again later";
  public ArrayList<String> Get Bookings(String name)
     ArrayList<String> al = new ArrayList<String>();
     if(this.con)
       try
         String clid="",bk="",t="";
         int amt=0;
         sql = "SELECT ClientID from clients where UserName = ""+name+"";";
         pst = connection.prepareStatement(sql);
         rs = pst.executeQuery();
         if(rs.next())
            clid = rs.getString(1);
            sql = "SELECT BookingsID, Amount from bookings where ClientID =
""+clid+"";";
         pst = connection.prepareStatement(sql);
         rs = pst.executeQuery();
         if(rs.next())
            bk = rs.getString("BookingsID");
            amt = rs.getInt("Amount");
```

```
if(bk!="")
            al.add(bk);
            al.add(String.valueOf(amt));
             sql = "SELECT food allotment from bookingdata where BookingsID
= '"+bk+"';";
            pst = connection.prepareStatement(sql);
            rs = pst.executeQuery();
            if(rs.next())
              t = rs.getString("Food Allotment");
            al.add(t);
         return al;
       catch (Exception e)
         al.add(e.getMessage());
         return al;
         // TODO: handle exception
    return null;
  public static void main(String[] args)
    DataBase Mgmt db = new DataBase Mgmt();
     System.out.println(db.Check_UP("i","i"));
}
```

Database Mgmt.java

```
package DB;
import java.io.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Map;
// Java Beans Concept
public class DataBase Mgmt
  private String jdbcUrl,username,password,dbname,sql,name,em,ph,pswrd;
  private Connection connection;
  private PreparedStatement pst;
  private ResultSet rs;
  public boolean con = false,tsk=false,auth=false;
                                   public
                                                  String[]
{"UserName", "EmailID", "Phone Number", "Password", "Gender", "Nationality"};
   public DataBase Mgmt(String Username, String password, String jdbcurl, String
databasename)
    this.jdbcUrl = jdbcurl; // Update with your MySQL database URL
    this.username = Username;
    this.password = password;
    this.dbname = databasename;
    this.jdbcUrl+=databasename;
    // Drivers Import
    try
       Class.forName("com.mysql.cj.jdbc.Driver");
       this.connection = null;
```

```
this.pst = null;
    catch(Exception e)
       System.out.println(e.getMessage());
  public DataBase Mgmt()
    this.jdbcUrl = "jdbc:mysql://localhost:3306/hail hotel management"; // Update
with your MySQL database URL
    this.username = "root";
    this.password = "";
    this.DataBaseConnectionEstablishment();
  public void DataBaseConnectionEstablishment()
    try
       this.connection = null;
       this.pst = null;
       Class.forName("com.mysql.cj.jdbc.Driver");
       connection = DriverManager.getConnection(jdbcUrl, username, password);
       this.con = true;
       // Drivers Import
    catch(Exception e)
       System.out.println(e.getMessage());
  public String Check UP(String un,String ps)
    this.auth = false;
    if(this.con)
```

```
{
  boolean[] vals = new boolean[2];
 vals[0]=false;
 vals[1]=false;
 HashMap<String,String> mp = null;
 mp = new HashMap<String>();
 // SQL query to insert a record
 sql = "SELECT UserName,Password from clients;";
  try
    pst = connection.prepareStatement(sql);
    rs = pst.executeQuery();
    while(rs.next())
      mp.put(rs.getString("UserName"),rs.getString("Password"));
    for(Map.Entry<String,String> ent : mp.entrySet())
      //s+=ent.getKey()+","+ent.getValue()+",";
      if(ent.getKey().equals(un))
         vals[0] = true;
         if(ent.getValue().equals(ps))
           vals[1]= true;
    if(vals[0])
      if(vals[1])
         this.auth=true;
         return "Authentication Successfull";
```

```
}
            else
               return "Password incorrect, please check and try again";
          else
                   return "Authentication failed, please check the User name and
password ";
       catch(Exception e)
          System.out.println(e.getMessage());
          return "Server Error, please try again later";
     else
       return "Server Error, please try again later";
  public String Add User(String name, String em, String phn, String pswrd)
     this.tsk = false;
     int cnt=0;
     if(this.con)
       // SQL query to insert a record
       try
          String sql = "SELECT COUNT(*) FROM clients";
          pst = connection.prepareStatement(sql);
          rs = pst.executeQuery();
          if(rs.next())
            cnt = rs.getInt(1);
```

```
sql = "INSERT
                                                                  INTO
                                                                          clients
(ClientID, UserName, EmailID, Phone Number, Password, Gender, Nationality)
VALUES (?,?,?,?,?,?)";
         pst = connection.prepareStatement(sql);
         int k=1;
         pst.setString(k++, "ClientID-$"+(cnt+1));
         pst.setString(k++, name);
         pst.setString(k++, em);
         pst.setString(k++,phn);
         pst.setString(k++, pswrd);
         pst.setString(k++, "N");
         pst.setString(k++, "NIL");
         // Execute the query
         pst.executeUpdate();
         this.tsk = true;
         return "Registration Successfull";
       catch(Exception e)
         String message = e.getMessage();
         //out.println(e.getMessage());
         if(e instanceof java.sql.SQLIntegrityConstraintViolationException)
            if(message.contains("UserName"))
              return "User name already exists";
            if(message.contains("Phone Number"))
              return "Phone Number already exists";
            else if(message.contains("EmailID"))
              return "EmailID already exists";
```

```
else
            return "Password already exists";
  return "Server Error, please try again later";
public ArrayList<String> Get User(String un)
  ArrayList<String> al = new ArrayList<String>();
  try
    sql = "Select * from clients where UserName=?";
    pst = connection.prepareStatement(sql);
    pst.setString(1,un);
     ResultSet rs = pst.executeQuery();
     if(rs.next())
     {
       for(int i=0; i<6; i++)
          al.add(rs.getString(this.nms[i]));
       return al;
  catch (Exception e)
     System.out.println(e.getMessage());
  return null;
}
public String Update User(String name,String pms,String[] vals)
```

```
this.tsk = false;
    int cnt=0,i=0,k=0;
     String Error="",clid=null;
             String sql = "Select ClientID from clients where UserName =
""+name+"";",tsql;
     try
       pst = connection.prepareStatement(sql);
       rs = pst.executeQuery();
       if(rs.next())
         clid = rs.getString("ClientID");
     catch(Exception e){}
     if(this.con)
       sql = "UPDATE clients set ";
       // SQL query to insert a record
       for(i=0;i<6;i++)
          try
            if(pms.charAt(0) == '1')
               tsql = sql;
               tsql = tsql+" "+this.nms[i]+" = "+"""+vals[k++]+" where ClientID =
""+clid+"";";
              pst = connection.prepareStatement(tsql);
              pst.executeUpdate();
         catch(Exception e)
            String message = e.getMessage();
            //out.println(e.getMessage());
            if(e instanceof java.sql.SQLIntegrityConstraintViolationException)
```

```
if(message.contains("UserName"))
              Error+="User name already exists";
            if(message.contains("Phone Number"))
              Error+="Phone Number already exists";
            else if(message.contains("EmailID"))
              Error+="EmailID already exists";
            else if(message.contains("Password"))
              Error+="Password already exists";
    this.tsk = true;
  else
    Error+="Server Error, please try again later";
  if(Error!="")
    return Error;
  else
    return "Success";
public String Update User profile(String name, File f, String fn)
  try
    byte[] imageData = readFileToByteArray(f);
    // SQL statement to insert the image into the database
```

```
String sql = "UPDATE clients set FN = ?, Profile Image =? where
UserName = ?";
       pst = connection.prepareStatement(sql);
         // Bind the image data to the parameter
       pst.setString(1,fn);
       pst.setBytes(2, imageData);
       pst.setString(3, name);
         // Execute the SQL statement
       int rowsAffected = pst.executeUpdate();
       if (rowsAffected > 0)
       {
         return"Image inserted successfully.";
       else
         return "Failed to insert image.";
    catch(Exception e)
       return e.getMessage();
    }
  public File Get Profile(String name)
    int imageId = 1; // Replace with the actual image id you want to retrieve
    try
     {
             String sql = "SELECT Profile Image,FN FROM clients WHERE
UserName = ?";
       pst = connection.prepareStatement(sql);
       pst.setString(1, name);
       rs = pst.executeQuery();
```

```
if (rs.next())
         // Retrieve the image data and file name
         byte[] imageData = rs.getBytes("Profile Image");
         String fileName = rs.getString("FN");
         // Determine the file extension based on the file name
         String fileExtension = getFileExtension(fileName);
         // Create a File object to save the image
         File outputFile = new File("temp." + fileExtension);
         // Write the binary data to the file
         try (FileOutputStream fos = new FileOutputStream(outputFile)) {
            fos.write(imageData);
                          System.out.println("Image retrieved and saved as: " +
outputFile.getAbsolutePath());
          } catch (IOException e) {
            e.printStackTrace();
         return outputFile;
       } else {
          System.err.println("Image not found.");
         return null;
     catch(Exception e)
       return null;
  private static String getFileExtension(String fileName) {
     int lastDotIndex = fileName.lastIndexOf(".");
    if (lastDotIndex != -1) {
       return fileName.substring(lastDotIndex + 1);
    return "";
```

```
private static byte[] readFileToByteArray(File file) throws IOException {
    FileInputStream fis = new FileInputStream(file);
    byte[] data = new byte[(int) file.length()];
    fis.read(data);
    fis.close();
    return data;
}
public static void main(String[] args)
{
    DataBase_Mgmt db = new DataBase_Mgmt();
    System.out.println(db.Check_UP("i","i"));
}
```

Prflimg_Upl.java

```
package WebApp;
import java.io.*;
import DB.*;
import javax.servlet.ServletException;
import javax.servlet.http.*;
import com.oreilly.servlet.MultipartRequest;
// Class
// Extending HttpServlet class
public class PrfImg_Upl extends HttpServlet {
    // Method
    private String getFileExtension(String fileName) {
        int lastDotIndex = fileName.lastIndexOf(".");
        if (lastDotIndex != -1) {
            return fileName.substring(lastDotIndex);
```

```
return "";
  // To handle request response mechanism
  public void doPost(HttpServletRequest request, HttpServletResponse response)
  throws ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
                                                             directoryPath
                                                 String
"C:\Applications\Application\_Folders\Servers\Xampp\tomcat\webapps\Hotel
Booking System\\CSS\\RES\\Media\\temp";
     String Name = request.getParameter("on");
    // Create a File object for the directory
    File directory = new File(directoryPath);
    // Check if the directory exists
    if (directory.exists() && directory.isDirectory()) {
       // List all files in the directory
       File[] files = directory.listFiles();
       // Delete each file
       for (File file : files) {
         if (file.isFile()) {
           file.delete();
    MultipartRequest m = new MultipartRequest(request, directoryPath);
    // Get the original file name
    String originalFileName = m.getOriginalFileName("file");
    // Generate a new file name (you can implement your own logic)
    String newFileName = "temp";
    String fileExtension = getFileExtension(originalFileName);
    newFileName = newFileName+fileExtension;
    // Get the file object
```

```
File uploadedFile = m.getFile("file");
// Rename the file
File renamedFile = new File(uploadedFile.getParentFile(), newFileName);
uploadedFile.renameTo(renamedFile);
response.getWriter().append(newFileName);

DataBase_Mgmt db = new DataBase_Mgmt();
String msg = db.Update_User_profile(Name, renamedFile,newFileName);
// response.getWriter().append(msg);
// response.redirect("Hotel_Booking_System\\index.jsp?Tab=User.jsp");
}
```

CONCLUSION

The Hotel Booking System provides an environment for users to book hotel rooms, perform booking activities, and manage personal account at Hail Hotel with a Web browser. The system uses XAMPP Server running on Windows platform. The database server is MySQL. To implement the system, we have used JavaScript, HTML, CSS and JSP. All dynamic contents are handled by JSP.

Persistent data are saved in the database. Hotel Booking System is a user-friendly and easy-to-use system of a Web-based application. Everyone who knows how to use a Web browser can register and then login to book a room, change booking details, cancel booking, and view or modify personal profile online. It is easy and fast to make a reservation.

There can still be improvements for our system and it can be enhanced according to the user needs.

REFERENCES

https://www.javatpoint.com/jsp-tutorial

https://www.w3schools.com/js/

https://www.w3schools.com/html/

https://www.javatpoint.com/css-tutorial

https://www.roseindia.net/jsp/connect-jsp-mysql.shtml

https://people.utm.my/shaharil/mysql-and-phpmyadmin-xampp/