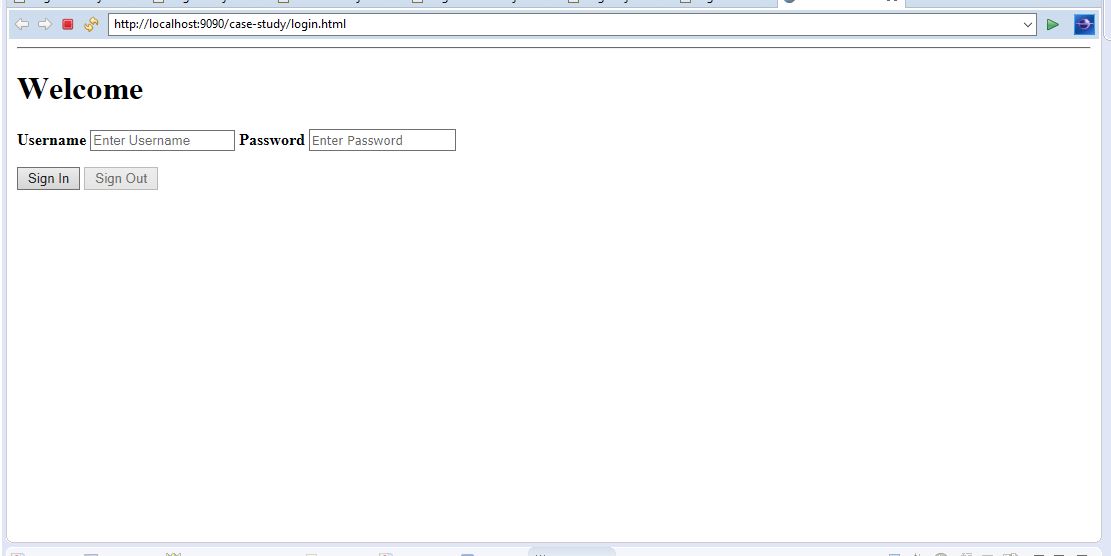
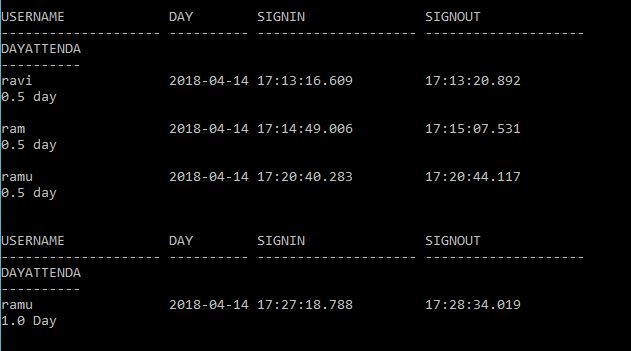
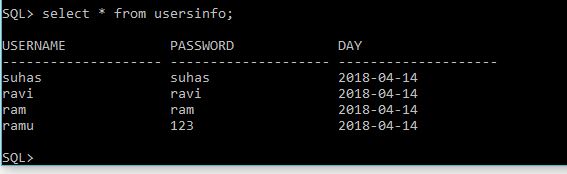
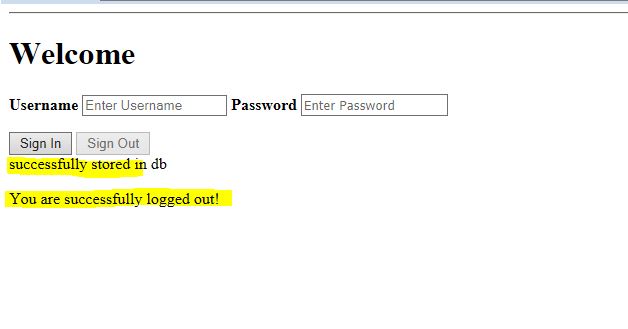
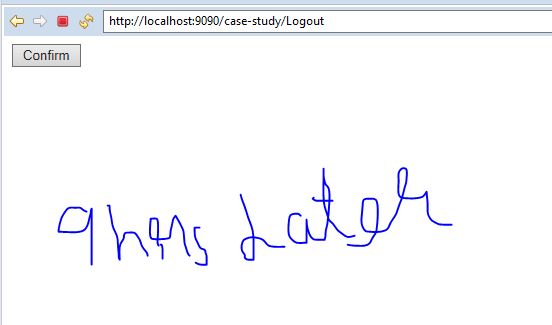
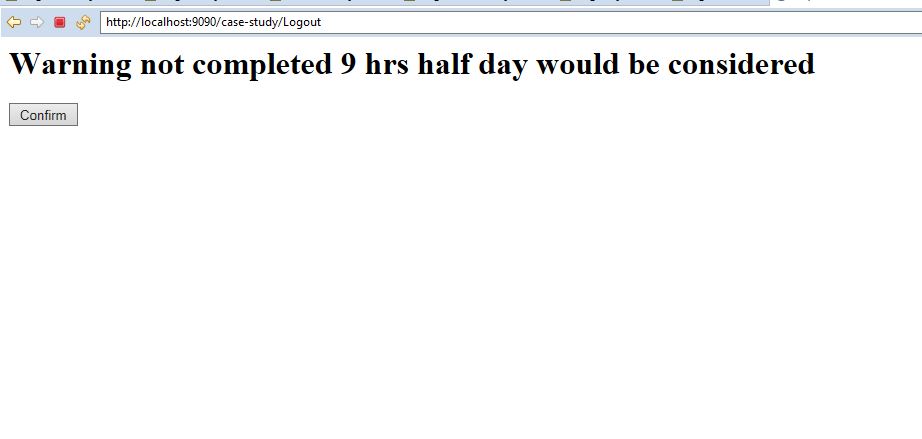
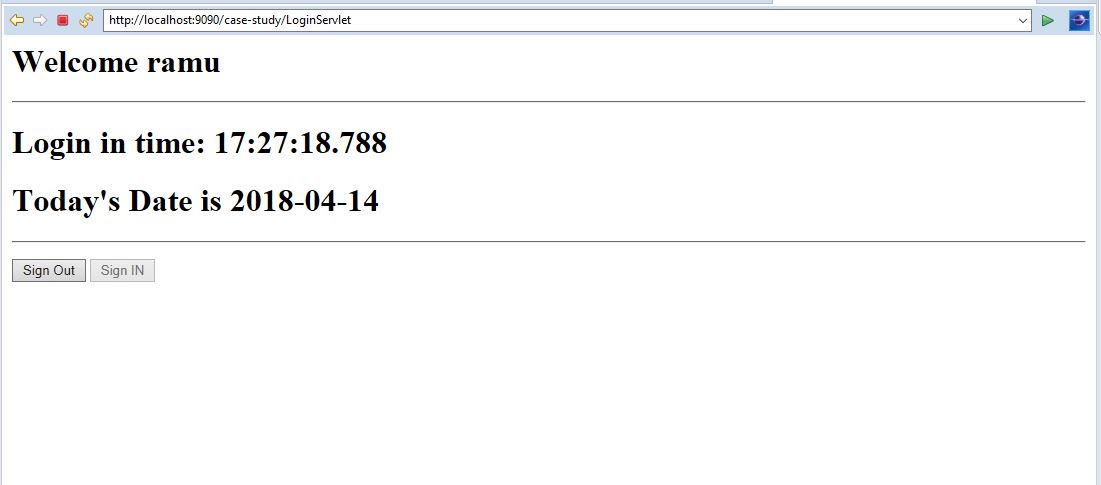
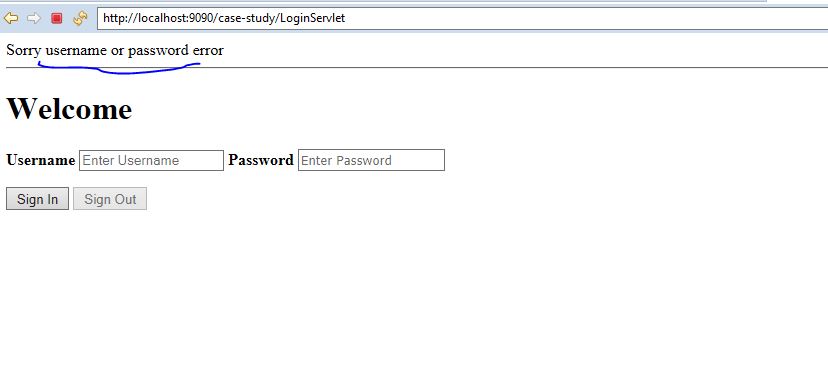
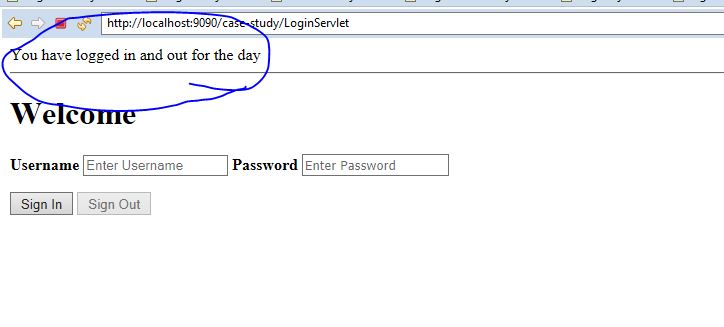
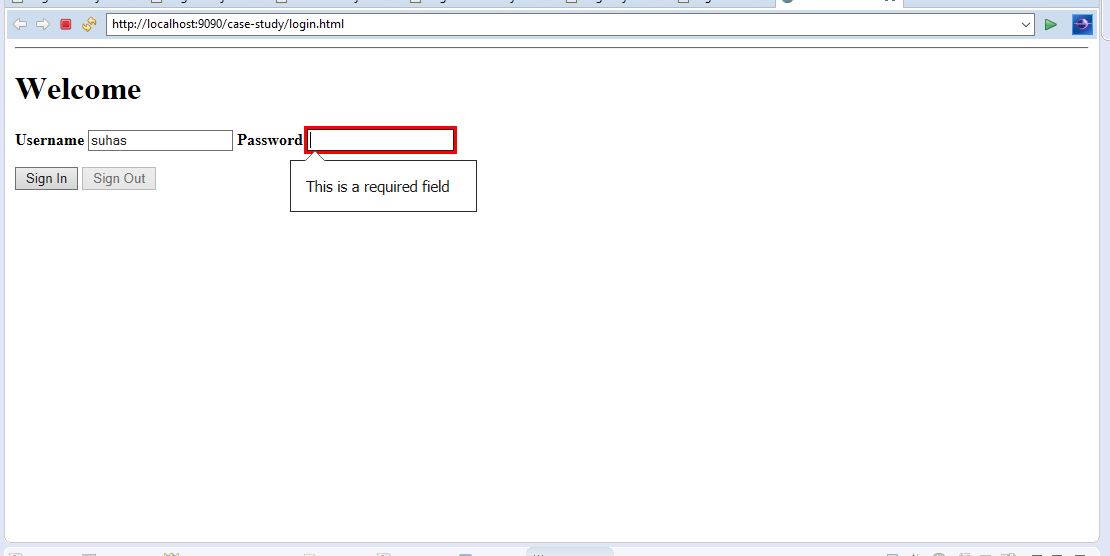
Case-Study

Employees Time Tracking System (ETTS)

By- Suhas B M



d

Code

Login.html

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<hr>

<h1>Welcome</h1>

<form action=*"LoginServlet"* method=*"post"*>

<label for=*"uname"*><b>Username</b></label>

<input type=*"text"* placeholder=*"Enter Username"* name=*"username"* required>

<label for=*"psw"*><b>Password</b></label>

<input type=*"password"* placeholder=*"Enter Password"* name=*"userpass"* required>

<br>

<p></p>

<button type=*"submit"*>Sign In</button>

<button type=*"button"* disabled>Sign Out</button>

</form>

</body>

</html>

*LoginServlet*

package pack;

import java.io.IOException;

import java.io.PrintWriter;

import java.time.LocalDate;

import java.time.LocalTime;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

@WebServlet("/LoginServlet")

public class LoginServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String username=request.getParameter("username");

String p=request.getParameter("userpass");

int value= LoginDao.validate(username, p);

if(value==1){

String signInTime=LocalTime.now().toString();

String signInDate=LocalDate.now().toString();

HttpSession session=request.getSession();

session.setAttribute("username", username);

session.setAttribute("signInTime", signInTime);

session.setAttribute("date", signInDate);

out.print("<h1>Welcome "+username+"</h1>");

out.print("<hr><p></p>");

boolean role=LoginDao.getRole(username);

if(role)

{

out.print("<h5><a href='employeeDetails.jsp'>Employee Details</a> </h5>");

}

out.println("<p></p><hr>");

out.print("<h1>Login in time: "+signInTime+"</h1><p></p>");

out.print("<h1>Today's Date is "+signInDate+"</h1>");

out.print("<hr><p></p>");

out.print("<form method=\"get\" action=\"/case-study/Logout\">\r\n" +

" <button type=\"submit\">Sign Out</button>\r\n");

out.println("<button type=\"button\" disabled>Sign IN</button>");

out.println("</form>");

}

else if(value==2){

out.print("You have logged in and out for the day");

RequestDispatcher rd=request.getRequestDispatcher("login.html");

rd.include(request,response);

}

else{

out.print("Sorry username or password error");

RequestDispatcher rd=request.getRequestDispatcher("login.html");

rd.include(request,response);

}

out.close();

}

}

Login Dao

package pack;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.time.LocalDate;

public class LoginDao {

public static int validate(String name,String pass){

boolean status=false;

String day=null;

int value=-1;

try{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection(

"jdbc:oracle:thin:@localhost:1521/xe","system","tiger");

PreparedStatement ps=con.prepareStatement(

"select \* from usersinfo where username=? and password=?");

ps.setString(1,name);

ps.setString(2,pass);

ResultSet rs=ps.executeQuery();

status=rs.next();

if(status==true)

{

ps=con.prepareStatement(

"select day from usersinfo where username=?");

ps.setString(1,name);

rs=ps.executeQuery();

while(rs.next())

{

day=rs.getString(1);

}

if(LocalDate.now().toString().equals(day))

{

System.out.println("Date match");

value=2;

}

else

{

value=1;

}

}

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

return value;

}

public static boolean getRole(String name)

{

boolean status=false;

String role=null;

try{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection(

"jdbc:oracle:thin:@localhost:1521/xe","system","tiger");

PreparedStatement ps;

ResultSet rs;

ps=con.prepareStatement(

"select role from usersinfo where username=?");

ps.setString(1,name);

rs=ps.executeQuery();

while(rs.next())

{

role=rs.getString(1);

}

if(role.equals("admin"))

{

System.out.println("admin");

status=true;

}

else

{

status=false;

}

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

return status;

}

}

Logut

**package** pack;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** java.text.SimpleDateFormat;

**import** java.time.LocalTime;

**import** java.util.Date;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** javax.servlet.http.HttpSession;

@WebServlet("/Logout")

**public** **class** Logout **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

HttpSession session=request.getSession(**false**);

response.setContentType("text/html");

PrintWriter out = response.getWriter();

//String username=(String) session.getAttribute("username");

String signInTime=(String)session.getAttribute("signInTime");

// String signInDate=(String)session.getAttribute("date");

String signOutTime=LocalTime.*now*().toString();

String dayAttendance="1.0 Day";

**try** {

SimpleDateFormat format = **new** SimpleDateFormat("HH:mm:ss");

Date date1 = format.parse(signInTime);

Date date2 = format.parse(signOutTime);

**long** difference = date2.getTime() - date1.getTime();

**if**(difference<60000)//given for 1min change to 9hrs when needed

{

out.println("<h1>Warning not completed 9 hrs half day would be considered</h1>");

dayAttendance="0.5 day";

}

session.setAttribute("signOutTime", signOutTime);

session.setAttribute("dayAttendance", dayAttendance);

out.print("<p></p>");

out.print("<form method=\"get\" action=\"/case-study/LogoutConfirm\">\r\n" +

" <button type=\"submit\">Confirm</button>\r\n");

out.println("</form>");

}**catch** (Exception e) {

e.printStackTrace();

}

}

}

logutConfirm

**package** pack;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class LogoutConfirm

\*/

@WebServlet("/LogoutConfirm")

**public** **class** LogoutConfirm **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

response.setContentType("text/html");

PrintWriter out=response.getWriter();

HttpSession session=request.getSession(**false**);

String username=(String) session.getAttribute("username");

String signInDate=(String)session.getAttribute("date");

String signInTime=(String)session.getAttribute("signInTime");

String signOutTime=(String)session.getAttribute("signOutTime");

String dayAttendance=(String)session.getAttribute("dayAttendance");

**boolean** status= SessionDao.*store*(username, signInDate, signInTime, signOutTime,dayAttendance);

request.getRequestDispatcher("login.html").include(request, response);

session.invalidate();

**if**(status==**true**)

{

out.print("successfully stored in db");

out.println("<p></p>");

}

**else**

{

out.print("failed to store in db");

}

out.print("You are successfully logged out!");

out.close();

}

}

Session Dao

**package** pack;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**public** **class** SessionDao {

**public** **static** **boolean** store(String username, String signInDate, String signInTime, String signOutTime, String dayAttendance)

{

**boolean** status=**false**;

**try**{

Class.*forName*("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.*getConnection*(

"jdbc:oracle:thin:@localhost:1521/xe","system","tiger");

PreparedStatement ps=con.prepareStatement(

"insert into signinout values (?,?,?,?,?)");

ps.setString(1,username);

ps.setString(2,signInDate);

ps.setString(3,signInTime);

ps.setString(4,signOutTime);

ps.setString(5,dayAttendance);

ResultSet rs=ps.executeQuery();

status=rs.next();

ps=con.prepareStatement(

"update usersinfo set day=? where username=?");

ps.setString(1,signInDate);

ps.setString(2,username);

rs=ps.executeQuery();

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

**return** status;

}

}

employeeDetails

<%@page import=*"java.sql.ResultSet"*%>

<%@page import=*"java.sql.PreparedStatement"*%>

<%@page import=*"java.sql.DriverManager"*%>

<%@page import=*"java.sql.Connection"*%>

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>Employee Details</h1>

<%

out.print("<form method=\"get\" action=\"/case-study/Logout\">\r\n" +

" <button type=\"submit\">Sign Out</button>\r\n");

out.println("<button type=\"button\" disabled>Sign IN</button>");

out.println("</form>");

%>

<p></p>

<br>

<table border=*"1"*>

<tr>

<th>Username</th>

<th>Day</th>

<th>SignIN</th>

<th>SignOut</th>

<th>Attended</th>

</tr>

<%

**try**{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection(

"jdbc:oracle:thin:@localhost:1521/xe","system","tiger");

PreparedStatement ps;

ResultSet rs;

ps=con.prepareStatement(

"SELECT \* FROM signinout");

rs=ps.executeQuery();

**while**(rs.next())

{

%>

<tr>

<td><%=rs.getString(1) %></td>

<td><%=rs.getString(2) %></td>

<td><%=rs.getString(3) %></td>

<td><%=rs.getString(4) %></td>

<td><%=rs.getString(5) %></td>

</tr>

<%

}

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

%>

</table>

</body>

</html>

Thank You