**Assignment**

**Database**

**Table1:**

**Table Name: logintable**

|  |  |
| --- | --- |
| **accno** | **pinno** |
| A0001 | 1234 |
| A0002 | 4321 |

**Sql Query:**

Create table logintable

{ accno VARCHAR(10),

pinno int

**};**

insert into logintable( accno,pino) values(‘A0001’,1234);

insert into logintable( accno,pino) values(‘A0002’,4321);

**Table 2:**

**Table Name: AccInfo**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Name** | **AccNo** | **Balance** |
| 1 | Murugan | A0001 | 10000 |

**Sql Query:**

Create table logintable

{ id int,

Name VARCHAR(10),

AccNo VARCHAR(10),

Balance int

**};**

insert into AccInfo( id,Name,AccNo,Balance) values(1,’Murugan’,‘A0001’,10000);

**Web.xml file:**

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://java.sun.com/xml/ns/javaee"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_3\_0.xsd"* id=*"WebApp\_ID"* version=*"3.0"*>

<servlet>

<servlet-name>bank</servlet-name>

<servlet-class>bankingapp.transaction.Transfer</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>bank</servlet-name>

<url-pattern>/Transfer</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>transaction</servlet-name>

<servlet-class>bankingapp.transaction.ViewStatementServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>transaction</servlet-name>

<url-pattern>/ViewStatement</url-pattern>

</servlet-mapping>

</web-app>

**Jsp files:**

**accountbalance.jsp file:**

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>Online Banking</title>

</head>

<body>

<h1 style="text-align:*centre*;"><b>Welcome to Online Banking</b></h1>

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

<table style="background-color:*rgb(173,173,425)*;border:*5px solid black*;">

<tr><td><h4>User Account No</h4></td><td><input type=*"text"* name=*"accno1"*></td></tr>

<tr><td><h4>User Pin No</h4></td><td><input type=*"password"* name=*"pinno"*></td></tr>

<tr><td><h4>Target Account No</h4></td><td><input type=*"text"* name=*"accno2"*></td></tr>

<tr><td><h4>Amount</h4></td><td><input type=*"text"* name=*"amount"*></td></tr>

<tr><td><input type=*"submit"* value=*"fund transfer"* style="backgroung-color:*green*;"></td><td><a href=*"transaction.jsp"*>view transaction history</a></tr>

</table>

</form>

</body>

</html>

**transaction.jsp file:**

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>Transaction page</title>

</head>

<body>

<h2 style="text-align:*centre*;"><b>Welcome to Transaction Page</b></h2>

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

<table style="border:*5px solid black*; background-color:*lightgreen*;">

<tr><td><h3>Enter Your AccountNo</h3></td><td><input type=*"text"* name=*"accno"*></td></tr>

<tr><td><h3>Enter Your PinNo</h3></td><td><input type=*"password"* name=*"Pinno"*></td></tr>

<tr><td><input type=*"submit"* value=*"viewstransactions"*></td></tr>

</table>

</form>

</body>

</html>

**Servlet files:**

**Transfer Servlet file:**

package bankingapp.transaction;

import java.io.IOException;

import javax.servlet.ServletException;

//import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class Transfer extends HttpServlet {

private static final long serialVersionUID = 1L;

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

response.getWriter().append("Served at: ").append(request.getContextPath());

}

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

String accno\_1=request.getParameter("accno1");

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

String accno\_2=request.getParameter("accno2");

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

int pin\_no=Integer.parseInt(pinno);

int amt=Integer.parseInt(amount);

DatabaseConnection dbConn=new DatabaseConnection(accno\_1,pin\_no,amt);

String msg=dbConn.getDbConnection();

if(msg.equals("null"))

{ response.getWriter().println("failed to connect Database");

}}}

package bankingapp.transaction;

import java.sql.\*;

public class DatabaseConnection {

Connection con=null;

Statement st1,st2;

PreparedStatement pst=null;

ResultSet rs1,rs2;

String account1,result;

int pinNo,fund,balanceAmt,iD=1;

public DatabaseConnection(String account1,int pinNo,int fund)

{

this.account1=account1;

this.pinNo=pinNo;

this.fund=fund;

}

public String getDbConnection()

{

try {

Class.*forName*("com.mysql.jdbc.Driver");

try {

con=DriverManager.*getConnection*("jdbc:mysql://sql12.freemysqlhosting.net/sql12357857","sql12357857","9CvvHdLM9r");

st1=con.createStatement();

st2=con.createStatement();

String sql="select\*from logintable where accno=account1";

rs1=st1.executeQuery(sql);

String sql1="select Balance form AccInfo where id=iD";

rs2=st2.executeQuery(sql1);

while(rs1.next() && rs2.next())

{

if((account1.equals(rs1.getString("accno")) && (pinNo==rs1.getInt(2))))

{

balanceAmt=rs2.getInt(4)-fund;

result="Transaction is successful";

insertData(balanceAmt);

}

}

iD++;

} catch (SQLException e) {

System.*out*.println(e);

result="Transaction is unsuccessful";

}

} catch (ClassNotFoundException e) {

result="failed to connect Database";

}

return result;

}

public void insertData(int balAmt)

{

try {

pst=con.prepareStatement("insert into AccInfo(AccNo,Name,Balance) values('?','?','?')");

pst.setString(1,account1);

pst.setString(2, "Murugan");

pst.setInt(3,balAmt);

pst.executeUpdate();

} catch (SQLException e) {

System.*out*.println(e);

}}}

**ViewStatement Servlet file:**

package bankingapp.transaction;

import java.beans.Statement;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.\*;

import javax.servlet.ServletException;

//import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class ViewStatementServlet extends HttpServlet {

private static final long *serialVersionUID* = 1L;

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

response.getWriter().append("Served at: ").append(request.getContextPath());

}

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

String acno=request.getParameter("accno");

int pin=Integer.*parseInt*(request.getParameter("Pinno"));

PrintWriter out=response.getWriter();

out.println("<h2>Your Accno is</h2>"+acno);

out.println("<h3>The Transaction Details</h3>");

out.println("<table><tr><td>AccountNo</td><td>Balance</td></tr>");

try {

Class.*forName*("com.mysql.jdbc.Driver");

try {

Connection con1=DriverManager.*getConnection*("jdbc:mysql://sql12.freemysqlhosting.net/sql12357857","sql12357857","9CvvHdLM9r");

Statement state=(Statement) con1.createStatement();

String sq="select AccNo,Balance from AccInfo";

ResultSet rset=null;

rset=((java.sql.Statement) state).executeQuery(sq);

if(acno.equals(rset.getString(2))) {

while(rset.next())

{

out.print("<tr><td>");

out.print(rset.getString(2));

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

out.print("<td>");

out.print(rset.getInt(4));

out.print("</td></tr>");

}

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

}

} catch (SQLException e) {

out.println(e);

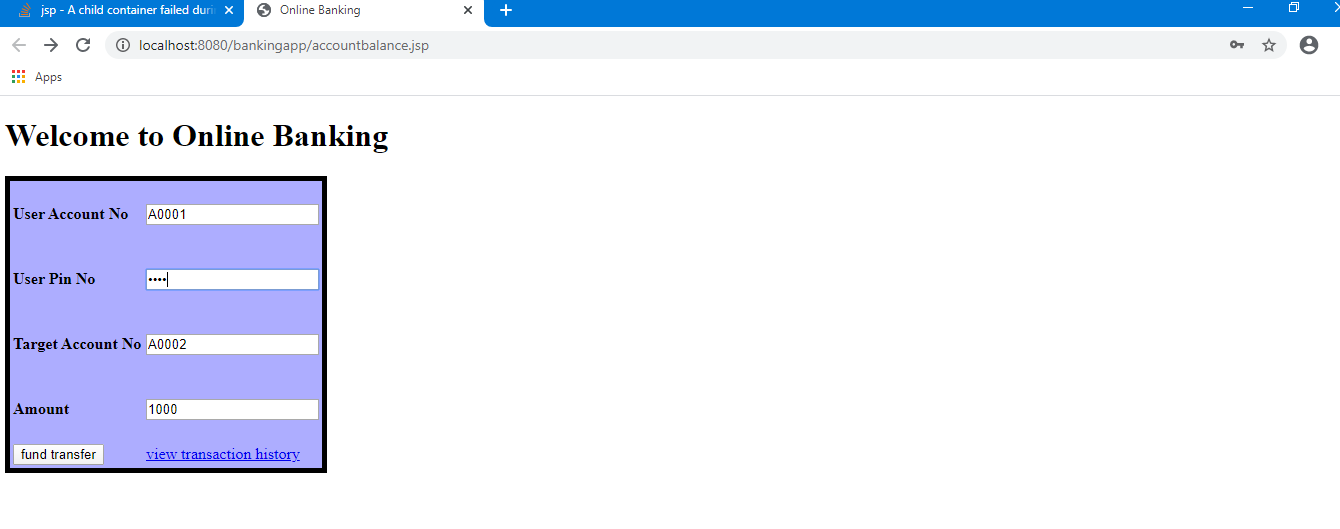
}

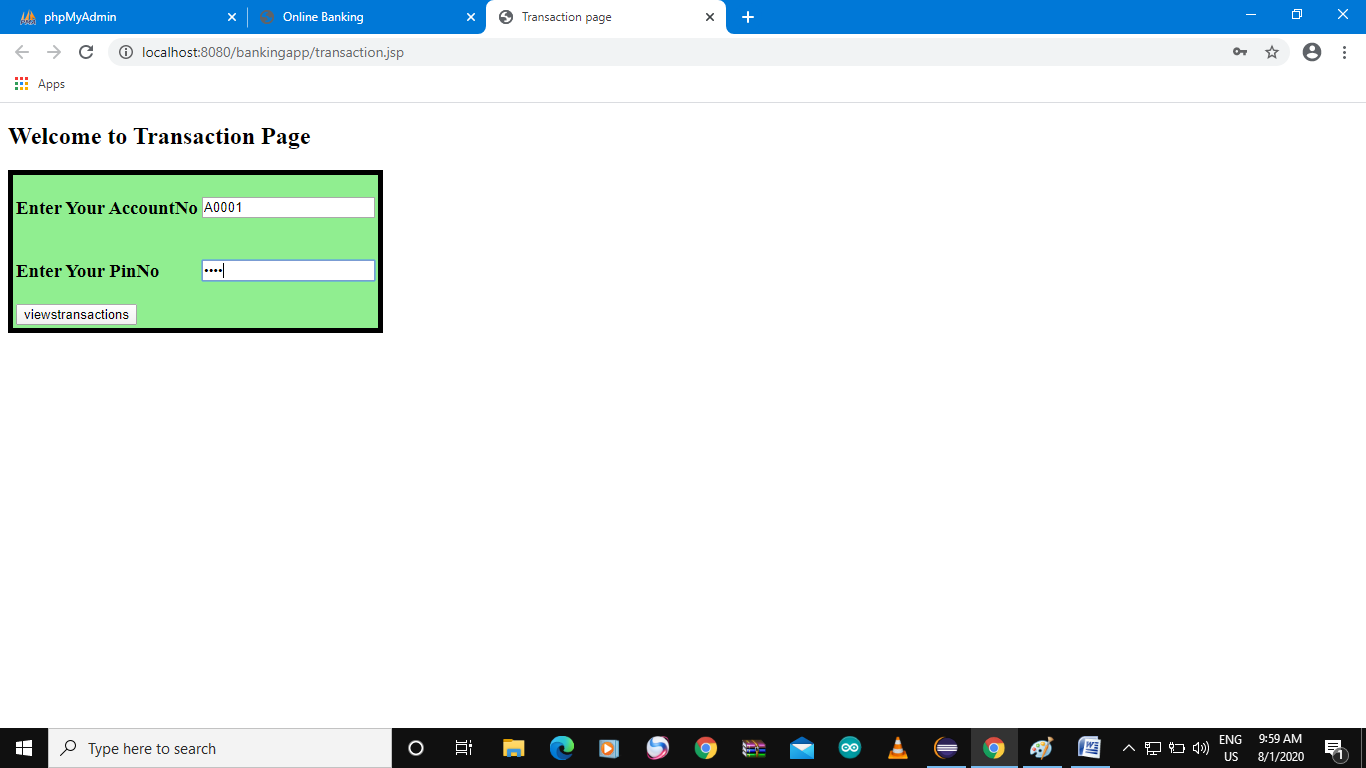
} catch (ClassNotFoundException e) {

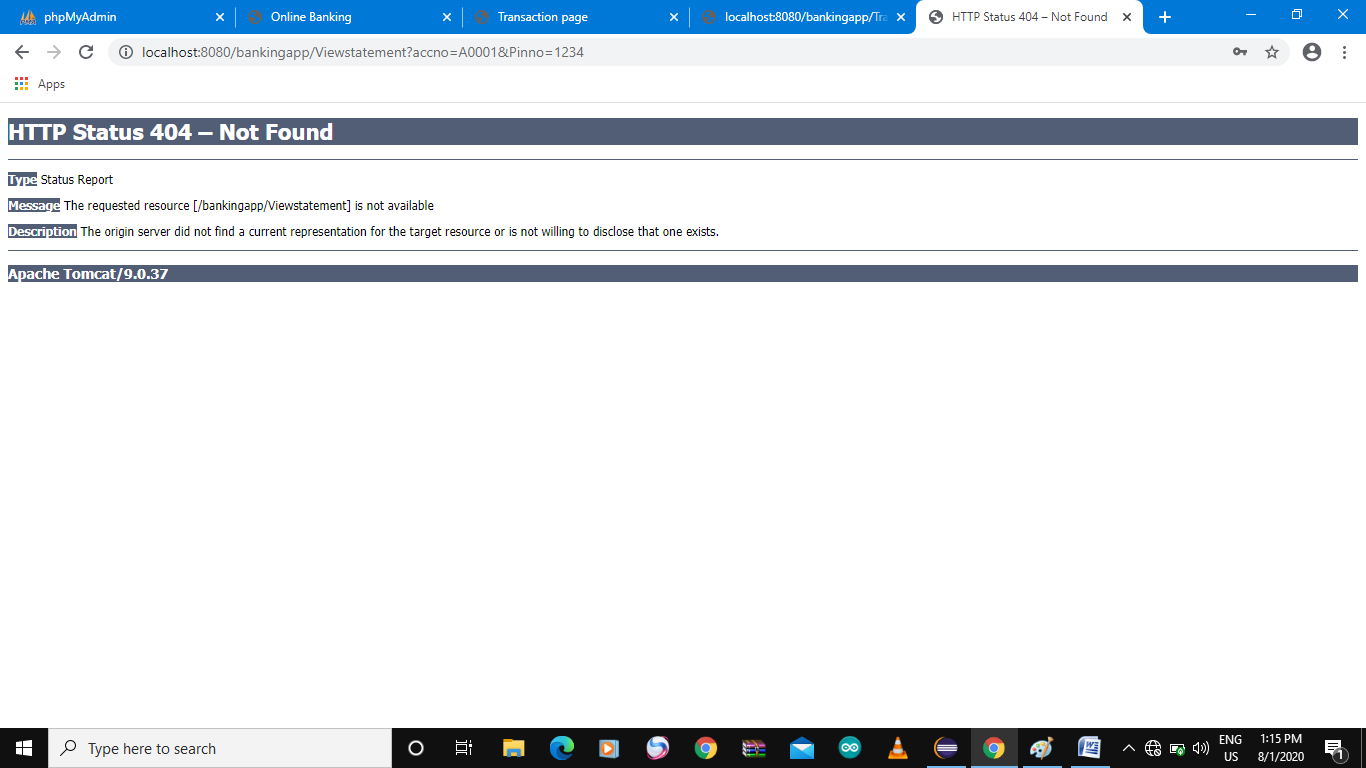
out.println(e);

}}}

**Output:**

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