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Course code : MCS1-054

Enrollment No : 197393829

Course Title : Laboratory Course

Assignment No : MCA(V)-054 / Assign / 2021-22

Programme : MCA(V Sem)

Maximum marks : 100

Part-1 : MCS-051 (Advanced Internet Technologies)

Ques1: Write a servlet program to display details of your study centre. Make necessary assumptions.

```

<html>
<head>
<meta http-equiv = " content-type " content = "text/
html ; charset = UTF-8" >
<title> Main </title>
</head>
<body>
<bx><bx><bx>
<center> <a href = "detail of study center .jsp" >
<b2> View Details of study center </b2></a></center>
<bx>
</body>
</html>

```

detail of study center .jsp

```

<html>
<head>
<meta http-equiv = " Content-Type " content = "text
/html ; charset = UTF-8" >
<title> Student Centre Detail Page : </title>
</head>
<body>
<table align = "center" border = "1" >
<tr>
<td> Study Centre Name : </td>

```

```

<td> Kaxrox INGUU Study Centre </td>
</tr>
<tr>
<td> Address : </td>
<td> Kaxrox technologies Ltd, Opp Shreyas Cinema,
Ghatkopar (W), Mumbai - 86
</td>
</tr>
<tr>
<td> Phone number : </td>
<td> 022-25699002 </td>
</tr>
<tr>
<td> Email : </td>
<td> ignou@kaxrox.com </td>
</tr>
<tr>
<td> Program Coordinator : </td>
<td> Mudadi Sanyasi J </td>
</tr>
<tr>
<td> counselling schedule for MCA : </td>
<td><a href = "schedule.doc"> click here </a>
</td>
</tr>
</table>
</body>
</html>

```

Ques 2: Write a program using JDBC and JSP to display the current balance from a saving bank account. The program should take account number or registered mobile no. as input.

Program for Customer Login Page

```
// signin.html
```

```
<html>
```

```
<title><signin></title>
```

```
<form method = "Get" action = "check">
```

```
<Font Size = "20" FACE = "courier" COLOR = blue>
```

```
<body bgcolor = '#E7E7EF'><br><br><br>
```

```
<center><table>
```

```
<tr><td><h3> Account No</h3></td><td><input type = text name = "user"></td></tr>
```

```
<tr><td><h3> Password</h3></td><td><input type = password name = "pass"></td></tr>
```

```
<tr><th COLSPAN = "2"><input type = submit value = "SUBMIT" name = "SUBMIT"></th></tr>
```

```
</table></center>
```

```
</body>
```

```
</html>
```

servlet program to verify the user

```
// check.java
```

```
import javax.servlet.*;
```

```
import java.io.*;
```

```
import java.sql.*;
```

```
import javax.servlet.http.*;
```

```
public class check extends HttpServlet {
```

```
public void service (HttpServlet Request request,
HttpServlet Response response)
```

```
throws ServletException, java.io.IOException {
```

```
PrintWriter out = response.getWriter();
String acao = request.getParameter("user");
System.out.println(acao);
String pass = request.getParameter("pass");
HttpSession session = request.getSession();
session.setAttribute("sess", acao);

try {
    Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
    Connection con = DriverManager.getConnection
        ("jdbc:odbc:ques");
    Statement st = con.createStatement();
    ResultSet rs = st.executeQuery("select * from
    bank where pass = '" + pass + "' and Acao = '" + acao);
    if (rs.next())
        String s1 = rs.getString(1);
        out.println("name" + s1);
        RequestDispatcher rd = request.getRequestDispatcher
            ("user.jsp");
        rd.forward(request, response);
    }
    else
        RequestDispatcher rd = request.getRequestDispatcher
            ("signin.html");
        rd.forward(request, response);
    }
    catch (Exception e) {
    }
}
```

User operation page

```
// user.jsp
<html>
<body bgcolor = "#ccccdd">
<%
String aeno = (String) session.getAttribute("sess");
System.out.println(aeno);
%>
<center>
<a href = "debit.html"> Debit the Amount </a><br>
<a href = "credit.html"> Credit the Amount </a>
<br>
<a href = "month.jsp"> Monthly Reward </a><br>
</center>
</body>
</html>
```

Credit Design Page

```
// credit.html
<html>
<Head> <center> Welcome to the credit page
</center> </head>
<form action = "credit.jsp">
<body bgcolor = "#ccccdd"> <center> <table>
<tr> <td> Enter the account NO </td> <td> <input
type = "text" name = "ac"> </td> </tr>
<tr> <td> Enter the Amount </td> <td> <input
type = "text" name = "amot"> </td> </tr>
<tr> <td> <input type = "submit" value = "credit">
</td> </tr> </td> </table> </center>
</body>
</form>
</html>
```

Debit Design Page

```
// debit.html
```

```
<html>
```

```
<head><center> Welcome to the Debit Page </center>
</head>
```

```
<form action = "debit.jsp">
```

```
<body bgcolor = "#ccccdd"> <center> <table>
```

```
<tr> <td> Enter the Account NO </td> <td> <
```

```
input type = "text" name = "ac" > </td> </tr>
```

```
<tr> <td> Enter the Amount </td> <td> input
type = "text" name = "amnt" > </td> </tr>
```

```
<tr> <td> <input type = "submit" value = "Debit">
</td> </tr> </table> </center>
```

```
</body>
```

```
</form>
```

```
</html>
```

Program to Credit the Amount and Display the balance:

```
// credit.jsp
```

```
<html>
```

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

```
<% @page import = "java.util.*" %>
```

```
<%
```

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

```
int iamount = Integer.parseInt(amount);
```

```
String acnt = request.getParameter("ac");
```

```
int aeno = Integer.parseInt(acnt);
```

```
String type = "Credit";
```

```
Calendar calendar = new GregorianCalendar();
```

```
System.out.println("YEAR: " + calendar.get(
Calendar.YEAR));
```

```
System.out.println("MONTH:" + calendar.get  
    (calendar.MONTH));  
System.out.println("DATE:" + calendar.get(calendar.  
    DATE));
```

String

```
date = String.valueOf(calendar.get(calendar.DATE))  
    + "/" + String.valueOf(calendar.get(calendar.  
    MONTH)) + "/" + String.valueOf(calendar.get  
    (calendar.YEAR));
```

try {

```
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");  
Connection con = DriverManager.getConnection  
    ("jdbc:odbc:ques");
```

```
Statement st = con.createStatement();
```

```
ResultSet rs = st.executeQuery("select * from bank  
    where Acno = " + acno);
```

```
int total = 0;
```

```
while (rs.next())  
{
```

```
    int s1 = rs.getInt(5);
```

```
    total = s1 + amount;
```

```
    if (total <= 0)  
    {
```

```
        out.println("Your amount is credited you  
            have to pay Rs" + total);  
    }
```

```
    else  
    {
```

```
        out.println("Your amount is credited Your  
            balance + " + total);
```

```

Prepared Statement pstmt = con. prepareStatement
(" update bank set balance = ? where Acno = "+acno);
pstmt. setInt(1, totbal);
int i = pstmt. executeUpdate ();
Prepared Statement pstmt1 = con. prepareStatement
(" insert into month values ( ?, ?, ?, ?, ? )");
pstmt1. setString (1, dox);
pstmt1. setStringInt (2, totbal);
pstmt1. setInt (3, acno);
pstmt1. setString (4, type);
pstmt1. setInt (5, iamount);
int i1 = pstmt1. executeUpdate ();

}
catch (Exception e) {
}
% >

```

```

</html>
Program to print the monthly Report
// month.jsp
<html>
<% @pageimport = " java.sql.* " %>
<%
String acno = (String) session. getAttribute ("sess");
System. out. println (acno);
int chk = Integer. parseInt (acno);
int T = 0;
int xrowcu = 0;
int totalRecords = 0;
ResultSet metaData rsmt = null;
ResultSet datas = null;
try {

```

```

Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
Connection cot = DriverManager.getConnection("jdbc:
odbc:ques");
Statement stmtt = cot.createStatement();
Statement rowc = cot.createStatement();
Statement datas = cot.createStatement();
ResultSet resultt = stmtt.executeQuery("select *
from month");
ResultSet resucowrow = datas.executeQuery("select *
from month where Acno = " + chk);
int x = 0;
while (resucowrow.next()) {
x++;
}
resultt.next();
rsmt = resultt.getMetaData();
l = rsmt.getColumnCount();
System.out.println("Column Count" + l);
System.out.println("Column Count Rowsess" + x);
datas = rowc.executeQuery("select * from
month where Acno = " + chk);
}
catch (Exception e) {
}
%>
<table border = "1" bordercolorlight = "#CCCC99"
bordercolordark = "#999966">
<tr>
<% for (int v=1; v<=l; v++) { System.out.println
(" |value" + l); String cnames = rsmt.getColumn
Name(v); %>
<td width = "50%"><fontface = "Arial, Helvetica" color =

```

```

'ned', size = '5' > <b><i><% = cnames.toUpperCase() %
></i></b></font></td>
<% } % >
</tr><%
while (datas.next()) { % >
<tr><% for (int vc=1; vc<=1; vc++) { % >
<td width = "50%" ><fontface = "Arial, Helvetica">
<% = datas.getString(vc) % ></font></td><%
}
} % >
</html>

```

Ques 3: Create an XML document for saving Accounts of a Bank.

```

<!DOCTYPE bank [
<! ELEMENT bank ( ( account | customer | depositor )+ ) >
<! ELEMENT account ( account - number branch - name
balance ) >
<! ELEMENT customer ( customer - name customer - street
- customer city ) >
<! ELEMENT depositor ( customer - name account -
number ) >
<! ELEMENT account - number (# PCDATA ) >
<! ELEMENT branch - name (# PCDATA ) >
<! ELEMENT balance (# PCDATA ) >
<! ELEMENT customer - name (# PCDATA ) >
<! ELEMENT customer - street (# PCDATA ) >
<! ELEMENT customer - city (# PCDATA ) >
] >

```