

Dt : 28/5/2022

link.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<a href="view">ViewProducts</a>
<a href="logout">Logout</a>
</body>
</html>
```

LoginDAO.java

package test;

import java.sql.\*;

import javax.servlet.http.\*;

public class LoginDAO {

    public UserBean ub=null;

    public UserBean login(HttpServletRequest req) {

        try {

            Connection con = DBConnection.getCon();

            PreparedStatement ps = con.prepareStatement

            ("select \* from UserReg45 where uname=? and pword=?");

            ps.setString(1,req.getParameter("uname"));

            ps.setString(2,req.getParameter("pword"));

            ResultSet rs = ps.executeQuery();

            if(rs.next()) {

                ub = new UserBean();//Bean Object

```

        ub.setuName(rs.getString(1));

        ub.setpWord(rs.getString(2));

        ub.setfName(rs.getString(3));

        ub.setlName(rs.getString(4));

        ub.setAddr(rs.getString(5));

        ub.setmId(rs.getString(6));

        ub.setPhNo(rs.getLong(7));

    }

    }catch(Exception e) {e.printStackTrace();}

    return ub;

}

}

LoginServlet.java

package test;

import java.io.*;

import javax.servlet.*;

import javax.servlet.http.*;

import javax.servlet.annotation.*;

@SuppressWarnings("serial")

@WebServlet("/log")

public class LoginServlet extends HttpServlet{

    protected void doPost(HttpServletRequest req,

        HttpServletResponse res)throws ServletException,IOException{

        UserBean ub = new LoginDAO().login(req);

```

```

        PrintWriter pw = res.getWriter();

        res.setContentType("text/html");

        if(ub==null) {

            pw.println("Invalid Login Process....<br>");

            RequestDispatcher rd=

                req.getRequestDispatcher("login.html");

            rd.include(req, res);

        }else {

            Cookie ck = new Cookie("fName",ub.getfName());

            //Creating Cookie

            res.addCookie(ck);//Adding Cookie to response

            pw.println("Welcome User "+ub.getfName()+"<br>");

            RequestDispatcher rd =

                req.getRequestDispatcher("link.html");

            rd.include(req, res);

        }

    }

}

```

**ProductBean.java**

```

package test;
import java.io.*;
@SuppressWarnings("serial")
public class ProductBean implements Serializable{
    private String code,name;
    private float price;
    private int qty;
    public ProductBean() {}
    public String getCode() {
        return code;
    }
}

```

```

}
public void setCode(String code) {
    this.code = code;
}
public String getName() {
    return name;
}
public void setName(String name) {
    this.name = name;
}
public float getPrice() {
    return price;
}
public void setPrice(float price) {
    this.price = price;
}
public int getQty() {
    return qty;
}
public void setQty(int qty) {
    this.qty = qty;
}
}

```

**RetrieveDAO.java**

```

package test;

import java.sql.*;
import java.util.*;

public class RetrieveDAO {

    public ArrayList<ProductBean> al = new ArrayList<ProductBean>();

    public ArrayList<ProductBean> retrieve()
    {

        try {

            Connection con = DBConnection.getCon();

            //Accessing the Connection

```

```

        PreparedStatement ps = con.prepareStatement
        ("select * from Product45");

        ResultSet rs = ps.executeQuery();

        while(rs.next())
        {

            ProductBean pb = new ProductBean();

            pb.setCode(rs.getString(1));

            pb.setName(rs.getString(2));

            pb.setPrice(rs.getFloat(3));

            pb.setQty(rs.getInt(4));

            al.add(pb); //Adding bean to ArrayList

        } //end of loop
    } catch (Exception e) {e.printStackTrace();}

    return al;
}
}

```

**ViewProductsServlet.java**

```

package test;

import java.io.*;

import java.util.*;

import javax.servlet.*;

import javax.servlet.http.*;

import javax.servlet.annotation.*;

@SuppressWarnings("serial")

```

**@WebServlet("/view")**

**public class ViewProductsServlet extends HttpServlet{**

**protected void doGet(HttpServletRequest req,HttpServletResponse res)**

**throws ServletException,IOException{**

**PrintWriter pw = res.getWriter();**

**res.setContentType("text/html");**

**Cookie c[] = req.getCookies();//Getting the Cookies**

**if(c==null) {**

**pw.println("Session Expired...<br>");**

**RequestDispatcher rd=**

**req.getRequestDispatcher("login.html");**

**rd.include(req, res);**

**}else {**

**String fName = c[0].getValue();**

**pw.println("page of "+fName+"<br>");**

**RequestDispatcher rd=**

**req.getRequestDispatcher("link.html");**

**rd.include(req, res);**

**ArrayList<ProductBean> al = new RetrieveDAO().retrieve();**

**if(al.size()==0) {**

**pw.println("<br>Products Not Available...<br>");**

**}else {**

**Iterator<ProductBean> it = al.iterator();**

**while(it.hasNext())**

```

        {

            ProductBean pb = (ProductBean)it.next();

            pw.println("<br>" + pb.getCode() + "&nbsp;&nbsp;&nbsp;" +

                pb.getName() + "&nbsp;&nbsp;&nbsp;" + pb.getPrice() +

                "&nbsp;&nbsp;&nbsp;" + pb.getQty() + "<br>");

        } //end of loop

    } //end of else

}

}

}

```

**LogoutServlet.java**

```

package test;

import java.io.*;

import javax.servlet.*;

import javax.servlet.http.*;

import javax.servlet.annotation.*;

@SuppressWarnings("serial")

@WebServlet("/logout")

public class LogoutServlet extends HttpServlet{

    protected void doGet(HttpServletRequest req,

        HttpServletResponse res)throws ServletException,IOException{

        PrintWriter pw = res.getWriter();

        res.setContentType("text/html");

        Cookie c[] = req.getCookies();

```

```

if(c==null) {

    pw.println("Session Expired....<br>");

}else {

    c[0].setMaxAge(0);//Cookie destroyed

    pw.println("User Loggedout Successfully...<br>");

}

```

RequestDispatcher rd=

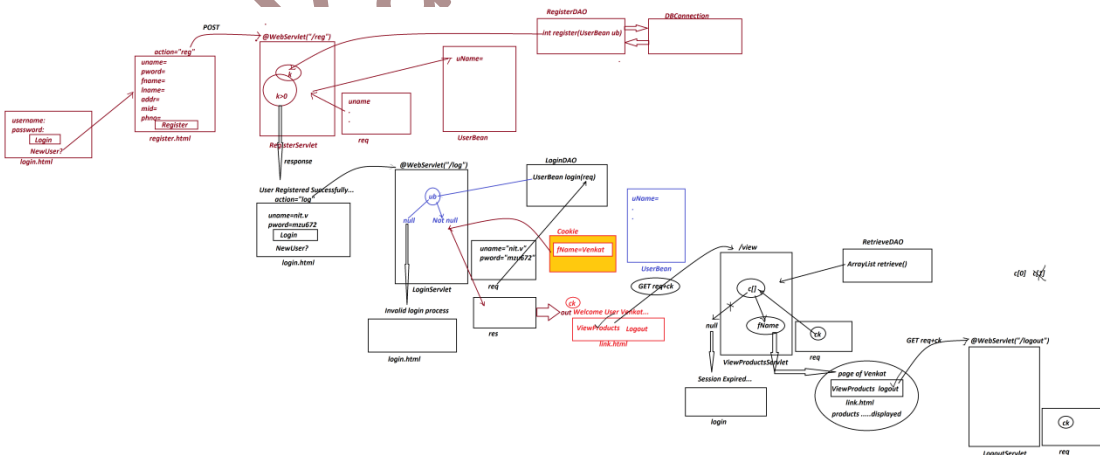
req.getRequestDispatcher("login.html");

rd.include(req, res);

}

}

Layout:





=====

**Assignment:**

**Construct Servlet Application using the following Layout:**

**DB Tables:**

**UserReg45(uname,pword,fname,lname,addr,mid,phno)**

**AdminReg45(uname,pword,fname,lname,addr,mid,phno)**

**BookDetails45(bcode,bname,bauthor,bprice,bqty)**

