

**Dt : 5/12/2023**

**Ex-Application:**

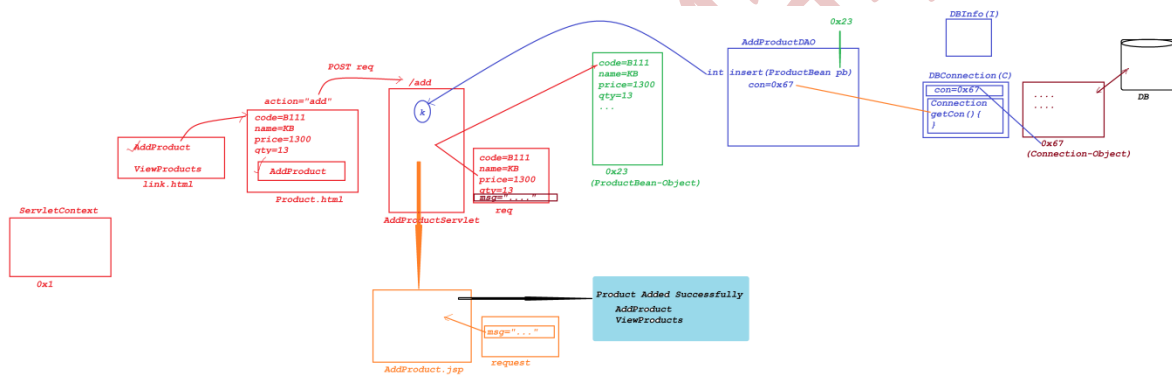
**Construct Servlet-Application to perform the following operations:**

**1.AddProduct**

**2.ViewProducts**

**DB Table : Product57(code,name,price,qty)**

**Layout:**



**link.html**

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

## Product.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="add" method="post">
ProductCode:<input type="text" name="code"><br>
ProductName:<input type="text" name="name"><br>
ProductPrice:<input type="text" name="price"><br>
ProductQty:<input type="text" name="qty"><br>
<input type="submit" value="AddProduct">
</form>
</body>
</html>
```

## 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;
    }
}

```

**DBInfo.java(Interface)**

```

package test;
public interface DBInfo
{
    public static final String
    dbUrl="jdbc:oracle:thin:@localhost:1521:xe";
    public static final String uName="system";
    public static final String pWord="manager";
}

```

**DBConnection.java**

```

package test;

import java.sql.*;

import static test.DBInfo.*;

public class DBConnection
{

```

```

private static Connection con=null;

private DBConnection() {}

static
{
    try {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        con = DriverManager.getConnection(dbUrl,uName,pWord);
    }catch(Exception e) {e.printStackTrace();}
}

public static Connection getCon()
{
    return con;
}
}

```

**AddProductDAO.java**

```

package test;
import java.sql.*;
public class AddProductDAO
{
    public int k=0;
    public int insert(ProductBean pb)
    {
        try {
            Connection con = DBConnection.getCon();
            //Access Database connection
            PreparedStatement ps = con.prepareStatement
            ("insert into Product57 values(?,?,?,?)");

```

```

        ps.setString(1, pb.getCode());
        ps.setString(2, pb.getName());
        ps.setFloat(3, pb.getPrice());
        ps.setInt(4, pb.getQty());
        k = ps.executeUpdate();
    } catch (Exception e) {e.printStackTrace();}
    return k;
}
}

```

### **AddProductServlet.java**

```

package test;

import java.io.*;

import javax.servlet.*;

import javax.servlet.http.*;

import javax.servlet.annotation.*;

@SuppressWarnings("serial")
@WebServlet("/add")

public class AddProductServlet extends HttpServlet{

    @Override

    protected void doPost(HttpServletRequest req,
        HttpServletResponse res)throws ServletException,
        IOException{

        ProductBean pb = new ProductBean();

        pb.setCode(req.getParameter("code"));

        pb.setName(req.getParameter("name"));
    }
}

```

```

        pb.setPrice(Float.parseFloat(req.getParameter("price")));

        pb.setQty(Integer.parseInt(req.getParameter("qty")));

        int k = new AddProductDAO().insert(pb);

        if(k>0) {

            req.setAttribute("msg", "Product Added Successfully..  
");

            RequestDispatcher rd =

                req.getRequestDispatcher("AddProduct.jsp");

            rd.forward(req, res);

        }

    }

}

```

#### AddProduct.jsp

```

<%@ page language="java"
        contentType="text/html; charset=ISO-8859-1"
        pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
String msg = (String)request.getAttribute("msg");
out.println(msg);
%>
<a href="Product.html">AddProduct</a>
<a href="view">ViewProducts</a>
</body>
</html>

```

**web.xml**

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app>
  <welcome-file-list>
    <welcome-file>link.html</welcome-file>
  </welcome-file-list>
</web-app>
```

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**Assignment:**

**Construct Servlet application to perform the following operations:**

- 1.AddEmployee**
- 2.ViewAllEmployees**

**DB Table : Employee57(eid,ename,edesg,bsal,hra,da,totsal)**

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