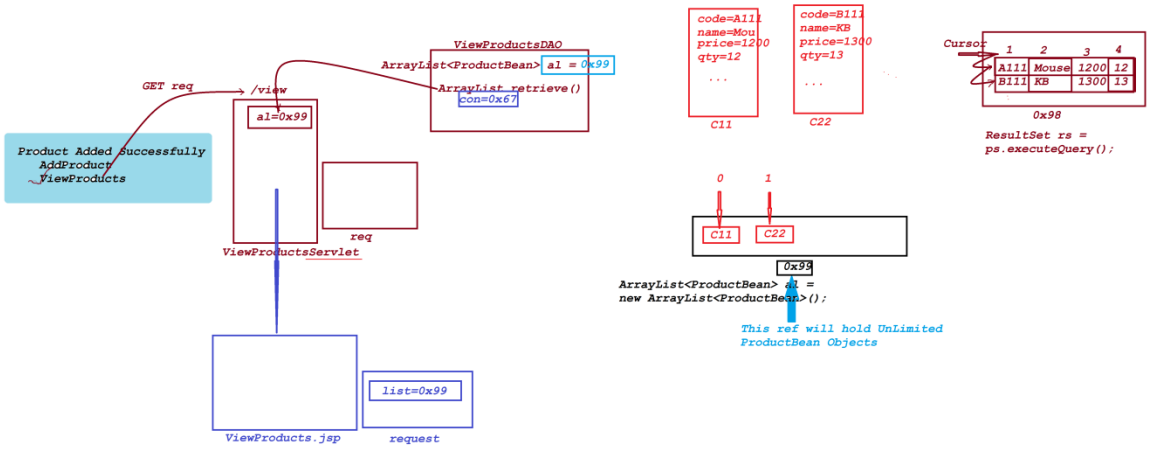
Dt : 6/12/2023

Layout:



ViewProductsDAO.java

```
package test;

import java.util.*;

import java.sql.*;

public class ViewProductsDAO

{

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

  public ArrayList<ProductBean> retrieve()

  {

        try {

              Connection con = DBConnection.getCon();

              PreparedStatement ps = con.prepareStatement

                    ("select * from Product57");
```

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```
                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);//Bean Object added to ArrayList
                }//end of loop
        }catch(Exception e) {e.printStackTrace();}
        return al;
  }
}
```

ViewProductsServlet.java

```
package test;
import java.util.*;
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import javax.servlet.annotation.*;
@SuppressWarnings("serial")
```

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```
@WebServlet("/view")
public class ViewProductsServlet extends HttpServlet{
        @Override
 protected void doGet(HttpServletRequest req,HttpServletResponse res)
 throws ServletException,IOException{
        ArrayList<ProductBean> al = new ViewProductsDAO().retrieve();
   req.setAttribute("list", al);
        RequestDispatcher rd =
                                req.getRequestDispatcher("ViewProducts.jsp");
        rd.forward(req, res);
 }
}
```

ViewProducts.jsp

```
<%@ page language="java"
         contentType="text/html; charset=ISO-8859-1"
         pageEncoding="ISO-8859-1"
         import="java.util.*,test.ProductBean"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
ArrayList<ProductBean> al =
(ArrayList<ProductBean>)request.getAttribute("list");
if(al.size()==0){
     out.println("No Product available...<br>");
```

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```
}else{
     Iterator<ProductBean> it = al.iterator();
     while(it.hasNext()){
          ProductBean pb = it.next();
          out.println(pb.getCode()+"  "+

     "  "+pb.getName()+"  "+

     pb.getPrice()+"  "+pb.getQty()+"<br>");
     }
}
%>
<jsp:include page="link.html"/>
</body>
</html>
```

==========

Asignment:(Update Assignment)

Construct Servlet application to perform the following operations:

1.AddEmployee

2.ViewAllEmployees

3.ViewEmployeeByCode

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

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Summary:

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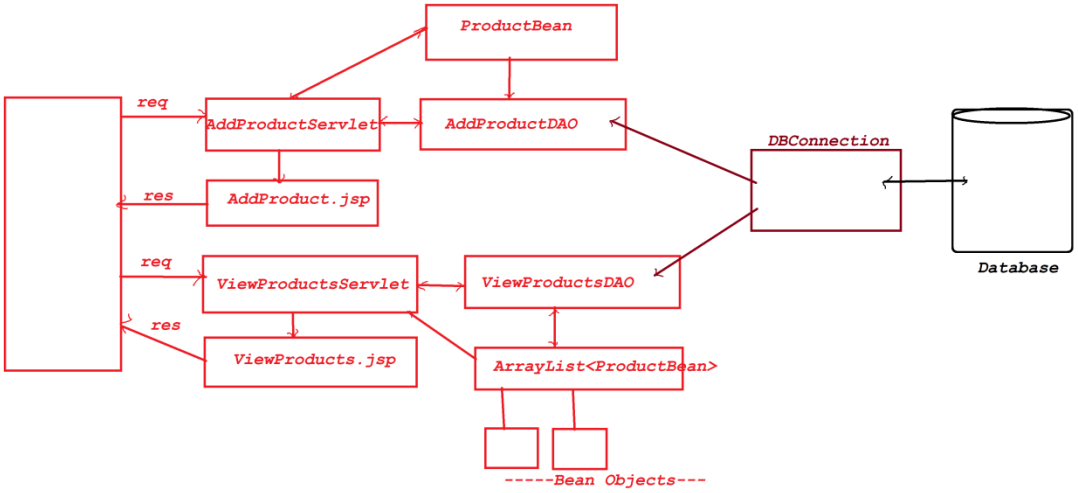

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