

Dt : 25/5/2022

ServletApplication : ProductApp

choice.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="pcode"><br>
    ProductName:<input type="text" name="pname"><br>
    ProductPrice:<input type="text" name="pprice"><br>
    ProductQty:<input type="text" name="pqty"><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;
    }
}

```

AddProductServlet.java

```

package test;

import java.io.*;
import javax.servlet.*;
import javax.servlet.annotation.*;

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

public class AddProductServlet extends GenericServlet{

    public void init()throws ServletException{

```

```

        //NoCode
    }

    public void service(ServletRequest req,ServletResponse res)
    throws ServletException,IOException{

        ProductBean pb = new ProductBean();//Bean object

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

        pb.setName(req.getParameter("pname"));

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

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


        PrintWriter pw = res.getWriter();

        res.setContentType("text/html");


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

        if(k>0) {

            pw.println("Product Added Successfully....<br>");

            RequestDispatcher rd=

                req.getRequestDispatcher("choice.html");

            rd.include(req, res);

        }

    }

    public void destroy() {

        //NoCode

    }

```

```
}
```

DBConnection.java

```
package test;
import java.sql.*;
public class DBConnection {
    private static Connection con=null;//reference variable
    private DBConnection() {}
    static
    {
        try {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            con = DriverManager.getConnection
("jdbc:oracle:thin:@localhost:1521:xe", "system", "manager");
        } catch (Exception e) {e.printStackTrace();}
    }
    public static Connection getCon()
    {
        return con;
    }
}
```

InsertDAO.java

```
package test;
import java.sql.*;
public class InsertDAO {
    public int k=0;
    public int insert(ProductBean pb)
    {
        try {
            Connection con = DBConnection.getCon();
            //Accessing the Connection
            PreparedStatement ps = con.prepareStatement
("insert into Product45 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;
    }
}
```

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.annotation.*;

@SuppressWarnings("serial")

@WebServlet("/view")

public class ViewProductsServlet extends GenericServlet{

    public void init()throws ServletException{

        //NoCode

    }

    public void service(ServletRequest req,ServletResponse res)

    throws ServletException,IOException{

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

        PrintWriter pw = res.getWriter();

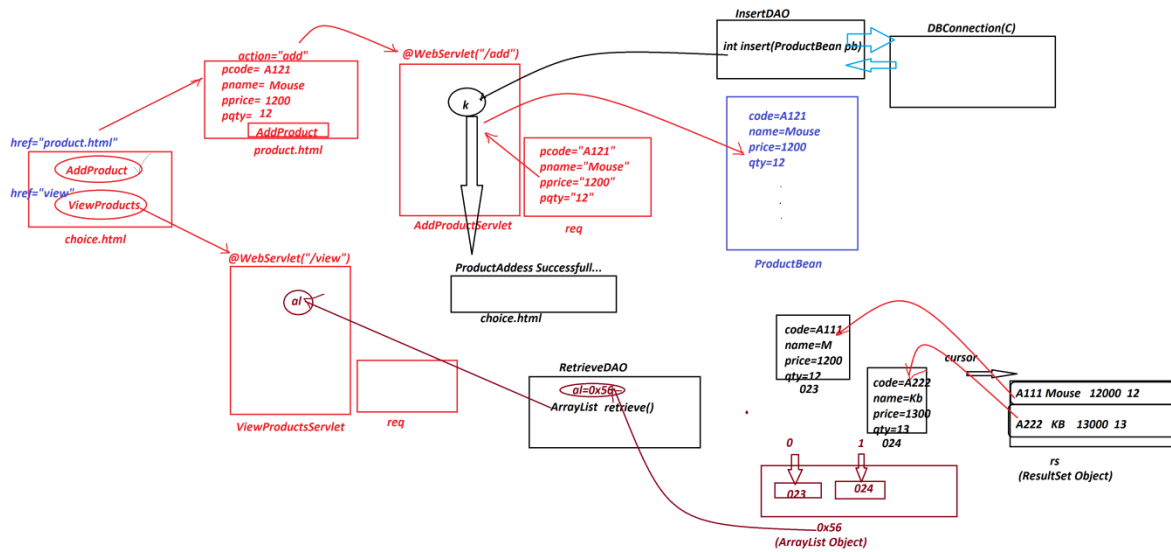
        res.setContentType("text/html");

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

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

        }else {

```

=====

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