Dt:4/6/2022

faq:

wt is the diff b/w

* (i)getSession()*

* (ii)getSession(false)*

* (iii)getSession(true)*

(i)getSession():

*   =>This getSession() method is used to create new Session object,if the*

Session Object is not available.

*   =>If available then getSession() method will access the existing session*

object.

(ii)getSession(false):

*   =>This getSession(false) method is used to access the existing session object*

if available,but it will not create new Session object if not available.

(iii)getSession(true):

*   =>This getSession(true) method is used to create new Session object,if the*

Session object is not available.

*   =>If available then getSession(true) method will access the existing session*

object.

===

(c)URL re-write:

=>The process of adding parameter-values to url-pattern is known as URL re-write.

=>using URL re-write process we pass information from one Servlet program to another Servlet program part of tracking process.

syntax:

url-pattern?para=value&para=value&...

Note:

=>"?" symbol is the separator b/w url-pattern and parameters

=>"&" symbol is the separator b/w parameters.

Ex Application:

DBConnection.java

```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;
    }
}
```

```java
RetrieveDAO.java

package test;

import java.sql.*;

import javax.servlet.http.*;

public class RetrieveDAO {

  public ProductBean pb=null;

  ProductBean retrieve(HttpServletRequest req)

  {

        try {

                Connection con = DBConnection.getCon();

                        //Accessing the Connection

                PreparedStatement ps = con.prepareStatement

                ("select * from Product45 where pcode=?");

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

                ResultSet rs = ps.executeQuery();

                while(rs.next())

                {

                        pb = new ProductBean();

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

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

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

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

                }//end of loop

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

```java
        return pb;

     }

}
```

ProductBean.java

```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;
}

}
```

input.html

```html
<!DOCTYPE html>
```

```html
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
 <form action="first" method="post">
 Enter the ProdCode:<input type="text" name="pcode"><br>
 <input type="submit" value="RetrieveProduct">
 </form>
</body>
</html>
```

FirstServlet.java

```java
package test;

import java.io.*;

import javax.servlet.*;

import javax.servlet.http.*;

import javax.servlet.annotation.*;

@SuppressWarnings("serial")

@WebServlet("/first")

public class FirstServlet extends HttpServlet{

  protected void doPost(HttpServletRequest req,HttpServletResponse res)

  throws ServletException,IOException{

        PrintWriter pw = res.getWriter();

        res.setContentType("text/html");

        ProductBean pb = new RetrieveDAO().retrieve(req);

        if(pb==null) {

                pw.println("Invalid ProductCode...<br>");

                RequestDispatcher rd=

                        req.getRequestDispatcher("input.html");
```

```java
                rd.include(req, res);

        }else {

                pw.println("<a href='second?code="+pb.getCode()

                +"&name="+pb.getName()

                +"&price="+pb.getPrice()

                +"&qty="+pb.getQty()+"'>ViewProductDetails</a>");

        }

    }

}
```

SecondServlet.java

```java
package test;

import java.io.*;

import javax.servlet.*;

import javax.servlet.http.*;

import javax.servlet.annotation.*;

@SuppressWarnings("serial")

@WebServlet("/second")

public class SecondServlet extends HttpServlet{

  protected void doGet(HttpServletRequest req,HttpServletResponse res)

  throws ServletException,IOException{

        PrintWriter pw = res.getWriter();

        res.setContentType("text/html");

        pw.println("====ProductDetails====");

        pw.println("<br>PCode:"+req.getParameter("code"));
```

```
        pw.println("<br>PName:"+req.getParameter("name"));

        pw.println("<br>PPrice:"+req.getParameter("price"));

        pw.println("<br>PQty:"+req.getParameter("qty"));

    }

}
```
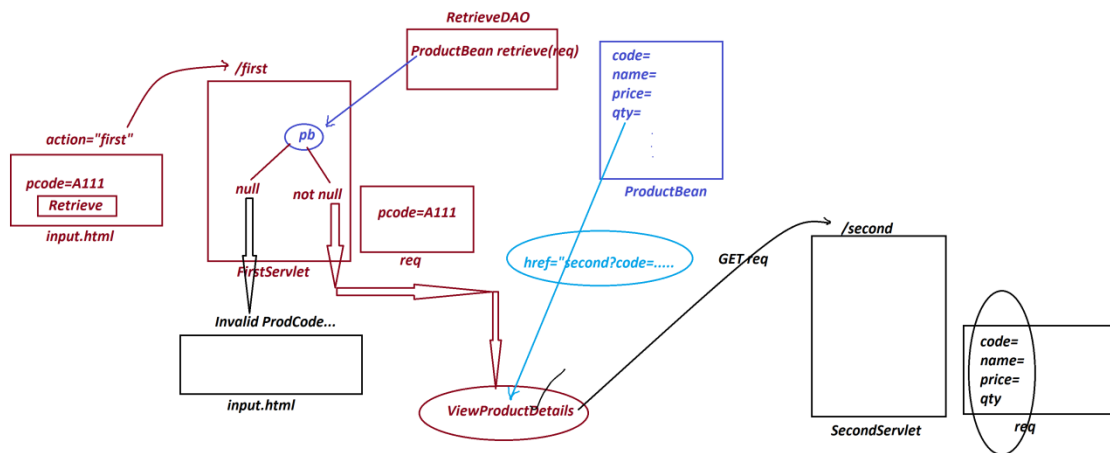
web.xml

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

Diagram:

http://localhost:8082/Servlet_App8_URL_Re_Write/second?

code=A111

&name=Mouse

&price=1200.0

&qty=12

https://www.google.com/search?

q=gmail

&oq=

&aqs=chrome.0.35i39i362l8.1558847477j0j7

&sourceid=chrome

&ie=UTF-8

===

Assignment:

Construct Servlet Application to send Book details from one Servlet program to another Servlet program using 'URL re-write process'

===