

**Dt : 12/12/2023**

**faq:**

**wt is the diff b/w**

**(i)getParameter()**

**(ii)getParameterValues()**

**(i)getParameter():**

**=>getParameter() method is used to get single parameter-value from the request-object.**

**syntax:**

**String var = req.getParameter("para\_name");**

**(ii)getParameterValues():**

**=>getParameterValues() method is used to get group parameter-values from the request object.**

**syntax:**

**String arr\_var[] = req.getParameterValues("para\_name");**

**=====**  
**=====**

**\*imp**

**2.HttpSession:**

**=>HttpSession is an interface from javax.servlet.http package and which is used in**

**Session tracking process.**

**=>The following are some important methods of HttpSession:**

```
public abstract void setAttribute(java.lang.String, java.lang.Object);  
public abstract java.lang.Object getAttribute(java.lang.String);  
public abstract void removeAttribute(java.lang.String);  
public abstract java.util.Enumeration<java.lang.String>  
getAttributeNames();  
  
public abstract void putValue(java.lang.String, java.lang.Object);  
public abstract java.lang.Object getValue(java.lang.String);  
public abstract void removeValue(java.lang.String);  
public abstract java.lang.String[] getValueNames();  
  
public abstract void invalidate();  
  
public abstract javax.servlet.ServletContext getServletContext();  
public abstract javax.servlet.http.HttpSessionContext getSessionContext();
```

---

**=>we use getSession() method from HttpServletRequest to create implementation object**

**for HttpSession-Interface.**

**Method Signature of getSession():**

***public abstract javax.servlet.http.HttpSession getSession();***

***public abstract javax.servlet.http.HttpSession getSession(boolean);***

=====

**3.URL re-write:**

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

**syntax:**

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

**"?" - symbol is separator b/w url-pattern and parameters.**

**"&" - symbol is separator b/w parameters**

**Ex:**

***https://www.google.com/search?q=gmail&...***

=====

**4.Hidden form fields:**

**=>The process of declaring <input type="hidden"...> in <form> tag of HTML is known as**

***Hidden form fields.***

**=>The values in Hidden form fields are not displayed to the end-user,which means not**

**shown to the end-user.**

**syntax:**

**<form action="url" method="POST/GET">**

**<input type="hidden" name="name" value="value">**

**....**

**</form>**

=====

**Note:**

**=>'URL re-write' and 'Hidden form fields' are Sub-techniques in Session Tracking process and which are also used to send data from one Servlet-program to another**

**Servlet-program**

=====

**ProjectName : OnlineBookStore**

**Users :**

**Admin**

**Customer**

**DB tables:**

**Admin57(uname,pword,fname,lname,addr,mid,phno)**

**Customer57(uname,pword,fname,lname,addr,mid,phno)**

**create table Admin57(uname varchar2(15),pword varchar2(15),fname  
varchar2(15),**

**lname varchar2(15),addr varchar2(15),mid varchar2(25),phno  
number(15),primary key(uname));**

**create table Customer57(uname varchar2(15),pword varchar2(15),fname  
varchar2(15),**

**lname varchar2(15),addr varchar2(15),mid varchar2(25),phno  
number(15),primary key(uname));**

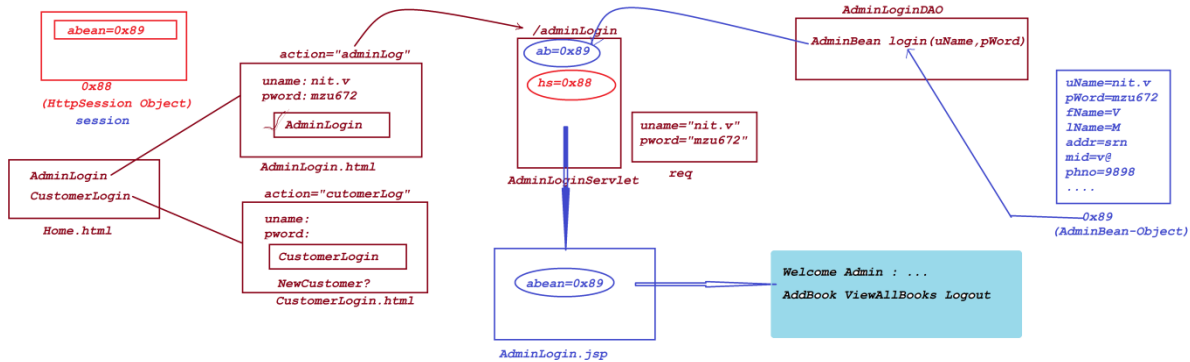
**BookDetails57(code,name,author,price,qty)**

**create table BookDetails57(code varchar2(10),name varchar2(15),author  
varchar2(15),**

**price number(10,2),qty number(10),primary key(code));**

---

**Layout:**



## Home.html

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<a href="AdminLogin.html">AdminLogin</a>
<a href="CutomerLogin.html">CutomerLogin</a>
</body>
</html>

```

## AdminLogin.html

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="adminLog" method="post">
UserName:<input type="text" name="uname"><br>
Password:<input type="password" name="pword"><br>
<input type="submit" value="AdminLogin">
</form>
</body>
</html>

```

### CutomerLogin.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="customerLog" method="post">
UserName:<input type="text" name="uname"><br>
Password:<input type="password" name="pword"><br>
<input type="submit" value="CutomerLogin">
<a href="Register.html">NewCutomer?</a>
</form>
</body>
</html>
```

### DBInfo.java

```
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;
```

```
}
```

```
}
```

```
AdminBean.java
```

```
package test;
```

```
import java.io.*;
```

```
@SuppressWarnings("serial")
```

```
public class AdminBean implements Serializable{
```

```
    private String uName,pWord,fName,lName,addr,mId;
```

```
    private long phNo;
```

```
    public AdminBean() {}
```

```
public String getuName() {
```

```
    return uName;
```

```
}
```

```
public void setuName(String uName) {
```

```
    this.uName = uName;
```



```
}  
public String getpWord() {  
    return pWord;  
}  
public void setpWord(String pWord) {  
    this.pWord = pWord;  
}  
public String getfName() {  
    return fName;  
}  
public void setfName(String fName) {  
    this.fName = fName;  
}  
public String getlName() {  
    return lName;  
}  
public void setlName(String lName) {  
    this.lName = lName;  
}  
public String getAddr() {  
    return addr;  
}  
public void setAddr(String addr) {  
    this.addr = addr;  
}  
public String getmId() {  
    return mId;  
}  
public void setmId(String mId) {  
    this.mId = mId;  
}  
public long getPhNo() {  
    return phNo;  
}  
public void setPhNo(long phNo) {  
    this.phNo = phNo;  
}  
  
}
```

### AdminLoginDAO.java

```
package test;
import java.sql.*;
public class AdminLoginDAO {
    public AdminBean ab=null;
    public AdminBean login(String uName,String pWord) {
        try {
            Connection con = DBConnection.getCon();
            PreparedStatement ps = con.prepareStatement
            ("select * from Admin57 where uname=? and
            pword=?");
            ps.setString(1, uName);
            ps.setString(2, pWord);
            ResultSet rs = ps.executeQuery();
            if(rs.next()) {
                ab = new AdminBean();
                ab.setuName(rs.getString(1));
                ab.setpWord(rs.getString(2));
                ab.setfName(rs.getString(3));
                ab.setlName(rs.getString(4));
                ab.setAddr(rs.getString(5));
                ab.setmId(rs.getString(6));
                ab.setPhNo(rs.getLong(7));
            }
        } catch (Exception e) {e.printStackTrace();}
        return ab;
    }
}
```

### AdminLoginServlet.java

```
package test;

import java.io.*;

import javax.servlet.*;

import javax.servlet.http.*;
```

```

import javax.servlet.annotation.*;

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

public class AdminLoginServlet extends HttpServlet{

    @Override

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

        AdminBean ab = new
        AdminLoginDAO().login(req.getParameter("uname"),
                                req.getParameter("pword"));

        if(ab==null) {

            req.setAttribute("msg","Invalid Login process...<br>");
            req.getRequestDispatcher("Home.jsp").forward(req, res);

        }else {

            HttpSession hs = req.getSession();//Creating new Session
            hs.setAttribute("abean", ab);
            req.getRequestDispatcher("AdminLogin.jsp").forward(req, res);

        }

    }

}

```

**AdminLogin.jsp**

```

<%@ page language="java"
        contentType="text/html; charset=ISO-8859-1"

```

```

        pageEncoding="ISO-8859-1"
        import="test.AdminBean"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
AdminBean ab =
(AdminBean)session.getAttribute("abean");
out.println("Welcome Admin : "+ab.getfName()+"<br>");
%>
<a href="Book.html">AddBookDetails</a>
<a href="view1">ViewAllBookDetails</a>
<a href="logout">Logout</a>
</body>
</html>

```

### Home.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);
%>
<jsp:include page="Home.html"/>
</body>
</html>

```

### web.xml

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

```
=====
=====
```

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