Dt : 5/11/2024(Day-34)

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Deployment Directory Structure of Tomcat:

```
                    ┌──────────────┐
                    │    Tomcat    │
                    └──────┬───────┘
                           │
                    ┌──────┴───────┐
                    │   webapps    │
                    └──────┬───────┘
                           │
                    ┌──────┴───────┐
                    │    UApp      │
                    └──┬────────┬──┘
                       │        │
            ┌──────────┘        └─────────┐
            ▼                      ┌───────────┐
      HTML files                  │  WEB-INF  │
      JSP files                   └──┬─────┬──┬┘
      ...                   ┌────────┘     │  └──────────┐
      ...                   ▼          ┌───────┐     ┌─────────┐
                         web.xml       │  lib  │     │ classes │
                                       └───┬───┘     └────┬────┘
                                           ▼              │
                                      ojdbc6.jar      ┌───────┐
                                                      │ test  │
                                                      └───┬───┘
                                                          ▼
                                                    class-files
```

===
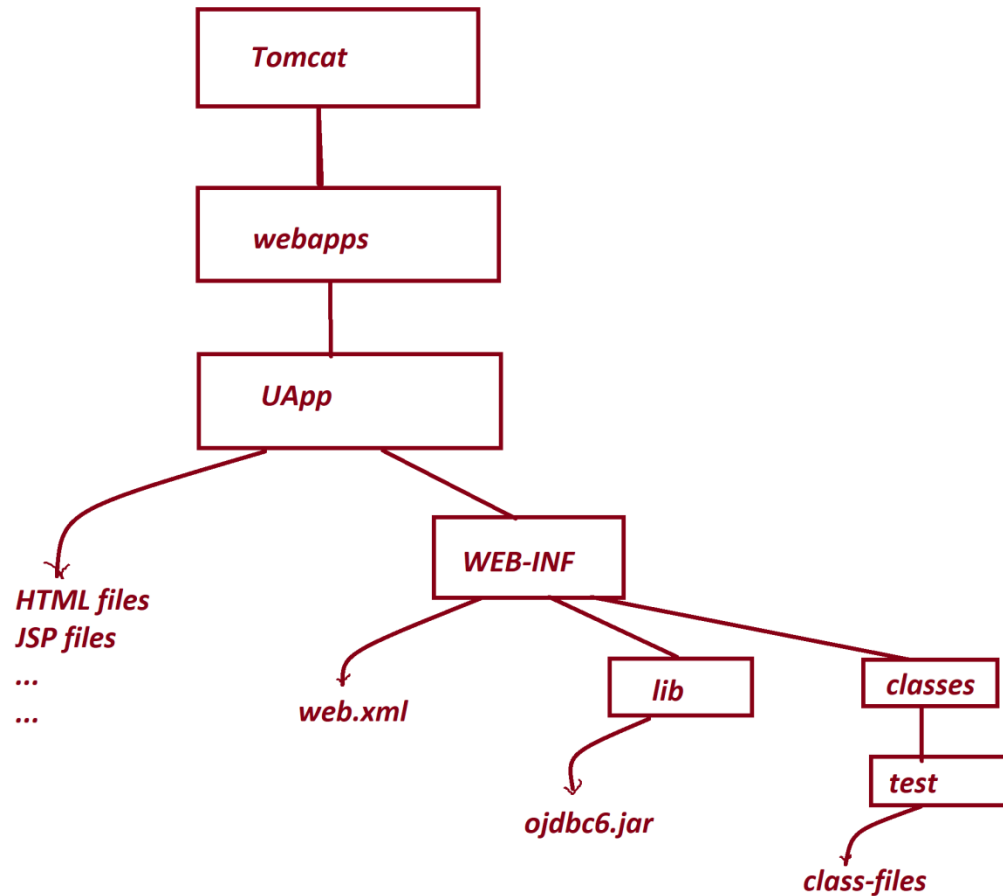
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2.HttpSession:

  =>'HttpSession' is an interface from 'jakarta.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 invalidate();

public abstract jakarta.servlet.ServletContext

                getServletContext();

=>we use getSession()-method from 'HttpServletRequest' to

 create implementation object for 'HttpSession-Interface',

 because this getSession()-method internally holding

 'Anonymous Local InnerClass as implementation class of

 HttpSession-Interface'.

 Method Signature of getSession():

 public abstract jakarta.servlet.http.HttpSession getSession

                (boolean);

 public abstract jakarta.servlet.http.HttpSession getSession();

 ---

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3.URL re-write:

 =>The process of adding parameter-value to Servlet-url-pattern is

 known as 'URL re-write' process.

=>This URL re-write process is used to transfer some information

from one servlet to another servlet in Session Tracking process.

syntax:

Servlet_url_pattern?para1=value&para2=value$para3=value&...

Note::

"?" : represent separator b/w Servlet_url_pattern and parameters.

"&" : represent separator b/w parameters

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4.Hidden Form Fields:

=>The process of declaring <input type="hidden"...> in <form> tag

is known as Hidden Form Field.

=>The data in Hidden Form Fields are not displayed to the End-User,

bute which are used to transfer the information from one Servlet

to another servlet in Session Tracking process.

syntax:

<form action="" methpd="">

  <input type="hidden" name="nm" value="val">Br>

  ....

</form>

Note::

=>'Url re-write' and 'Hidden Form fields' are used as SubTechniques

in 'Cookie' and 'HttpSession' Applications.

===

Application : Online Product Store

DB tables : Customer67(phno,name,city,mid)

     Primary Key : phno

     Admin67(uname,pword,fname,lname,city,mid,phno)

     primary Key : uname

     Product67(code,name,price,qty)

create table Customer67(phno number(15),name varchar2(15),

city varchar2(15),mid varchar2(25),primary key(phno));

create table Admin67(uname varchar2(15),pword varchar2(15),

fname varchar2(15),lname varchar2(15),city varchar2(15),

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

create table Product67(code varchar2(10),name varchar2(15),

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