

Lec 25

Wed 4/25/01

Next week Brian will demo his project which has secure SSL shopping cart.

Kit used strings for state values in his servlet exercise

<input type="hidden" value="insert"
"insert2"
"insert3" >
name=state

<form action="/servlets/stock"
<input type="text" name="symbol" />
<input type="hidden" name="state"
</form> value="insert" />

/servlet

String state = request.getParameter("state")
if (state.equals("insert"))
 insert(out);
else if (state.equals("insert2"))
 insert2(out);
else if (state.equals("insert3"))
 insert3(out);

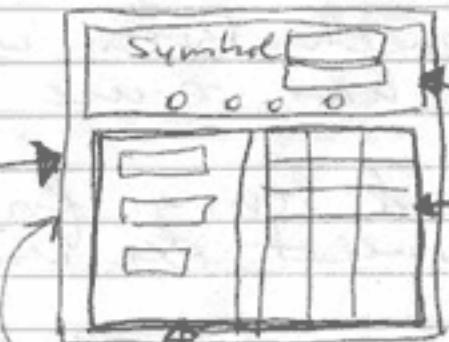
You should use state machine in servlet exercise.

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use frames:

frameset
is outside frame document



frames inside frameset

```
→ <!-- start.html -->
comment <html>
          <head>    or (30%, *) another frameset
          </head>    or (200, *) no size specified.
          <frameset rows="(*, *) frameborder=10>
          <frame name="options" src="options.html">
          <frameset cols="(*, *) frameborder=10>
              <frame name="result1" src="result1.html">
              <frame name="result2" src="result2.html">
          </frameset>
          </frame>
      </html>
```

```
<!-- options.html -->
<html>
<head></head>
<body>
    <form action="/servlet/stock.StockServ" method="get" target="options">
        or; "post" ↗ not really needed
        ↗ target = "result1"
        <input type="text" name="symbol" value="" />
    <input type="radio" name="op" value="search" checked="true" /> search
```

```
<input type="submit" name="go"  
       value="go">  
</form>
```

Keeping Session State

① Page Related Information

① Hidden Field

```
<form> ... </form>
```

```
<input type="hidden" name="state"  
       value="insert">  
</form>
```

② URL extension -

```
<form action="/servlet/stock.StockSer?  
       state='insert'&num='5'">
```

better → ?state='insert'&num='5'">
w/ single
quotes.

Client Related Browser/PC

① Cookie

```
Cookie c = response.getCookie("connection", Con);  
response.addCookie(c);
```

```
Cookie c2 = response.getCookie  
           ("statement", st);  
response.addCookie(c2);
```

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```
Cookie[] c = request.getCookies();
for(i=0; i < c.length; i++)
{
    if(c[i].getName().equals("Connection"))
        Connection = c[i].getValue(i);
}
```

② Session

```
HttpSession session = request.getSession();
// storing things
```

```
session.setAttribute("connection", con);
" " " " ("statement", st);
```

// getting bad

```
HttpSession session = request.getSession(true);
```

// getting value (Connection)

Connection con = session.getAttribute("connection");

Statement st = (Statement) session.getAttribute("statement");

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Cookies:

stored on client
by default cookie
dies with the browser.
You can set Age

Underneath Session uses:

- ① cookies
- ② URL extension

- uses cookies when cookies are not disabled.
- when ~~cookies~~ disabled, session uses URL extensions.
- but session stores attributes on the server side.
- Sessions use cookies / URL extension for session ID only.
- all the session attributes are stored on the server.

Kit's Opening Servlet Page in the browser:

http://localhost:8080/servlet/stockservlet.
StockServlet

~~~~~  
package name