

# Web Engineering

## State Management

- 1- URL Rewriting  
2- Hidden form fields  
3- Cookies  
4- Session
- Client + Server

Cookie → It is available in ~~java~~  
javax.servlet.http;

`Cookie c = new Cookie( k, v )`

$\downarrow \qquad \qquad \downarrow$

id                  count

response: addCookie (c)

$\rightarrow$  Give this time in seconds  
 C. set Max Age (  $365 \times 24 \times 60 \times 60$  );  
 $\downarrow$  1 Year  
 to set age of cookie

```
Cookie[] c = request.getCookies();
```

for (i)

{

c[i].getName(); → s2 → key

c[i].getValue(); → 2 → No of items

}

→ Session will transfer an id to 'uses' at which its data is stored

→ By default session will use cookies for this transfer

→ If a user block cookies session will automatically use "URL Rewriting"

→ By default session has a time of 30 minutes.



→ setAttribute (key, val);  
→ getAttribute (key);

HttpSession s = request.getSession ( )

true	Same
false	

For true

↓

→ If session is available it will

return its reference

→ else it will create new session  
and return its reference.

For False

↓

→ If session is available return  
its reference

→ If not return null

True → Used at login page

False → Other pages like view books,  
add books etc

## HOW

- Add Cookies 3 to 5 times
- View Cookies
- Save cookie having same name with different password
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