

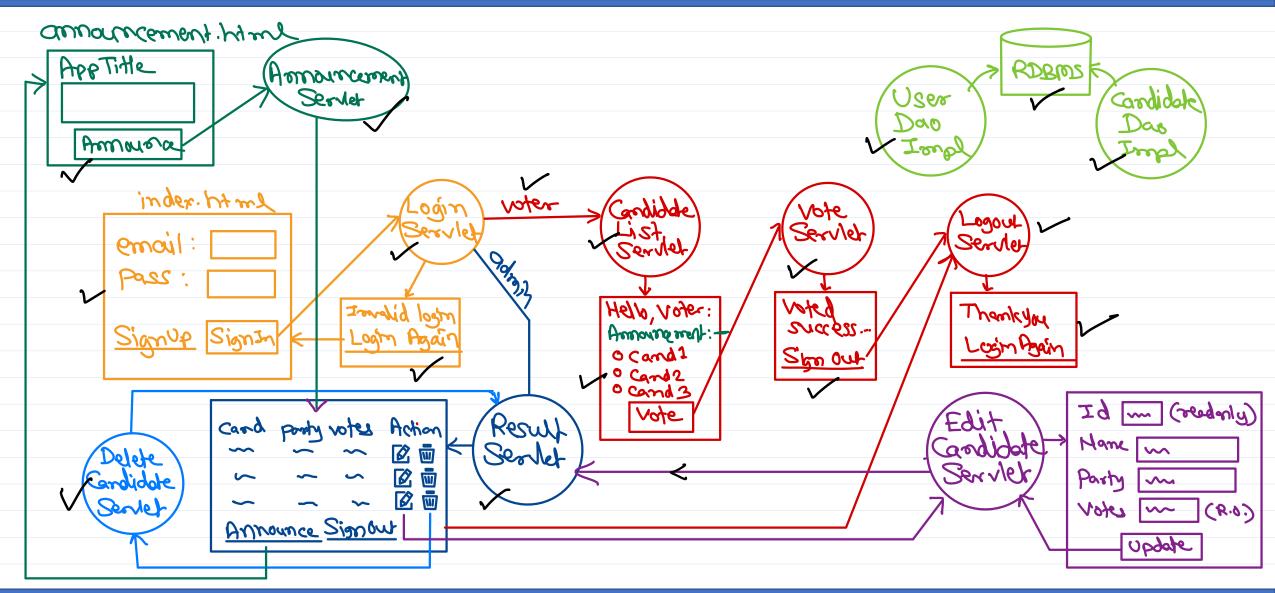


Advanced Java

Trainer: Nilesh Ghule

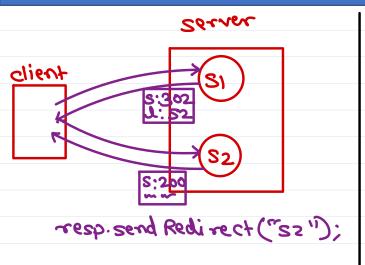


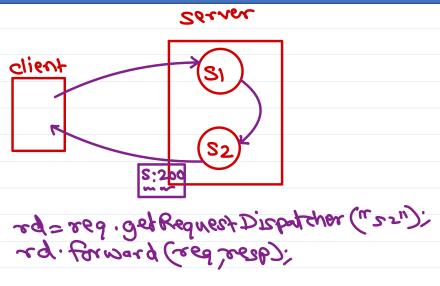
Election Management

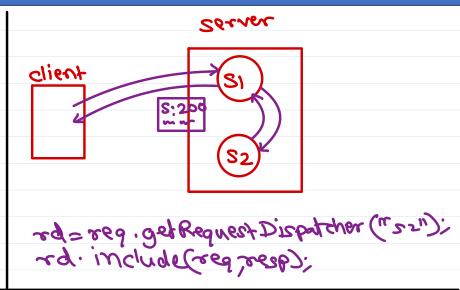


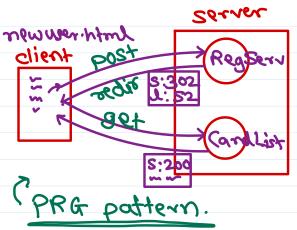


Inter-Servlet Communication









when client refresh, hast reak

(ie. post) is replayed, due to me which data is sent twice a client be added or updated in about twice.

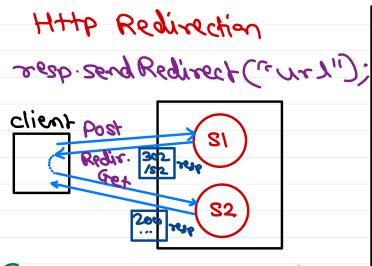
newwer.html
client
RegBerr

5:200
mm

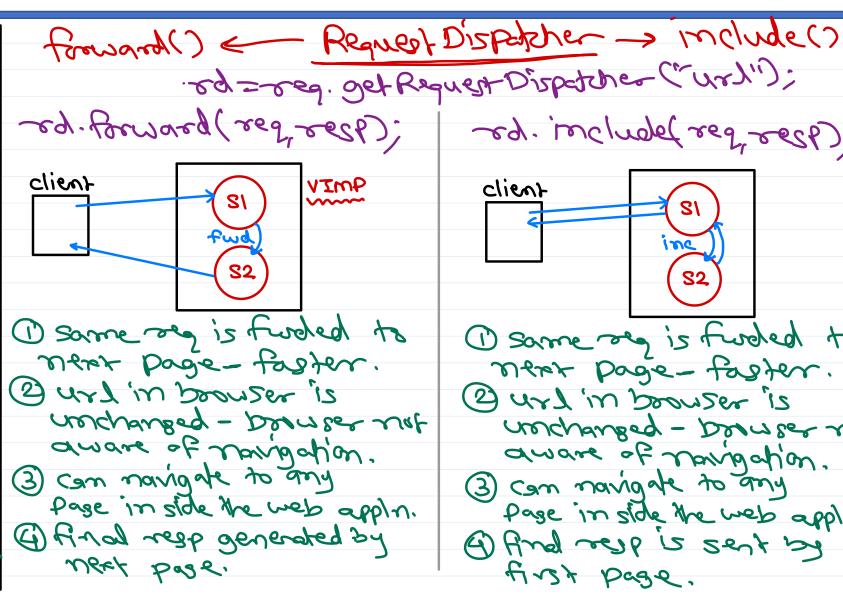
if client refresh, only last reg (GET) is replayed & dota fetened again. Earlier dota not posted twice,

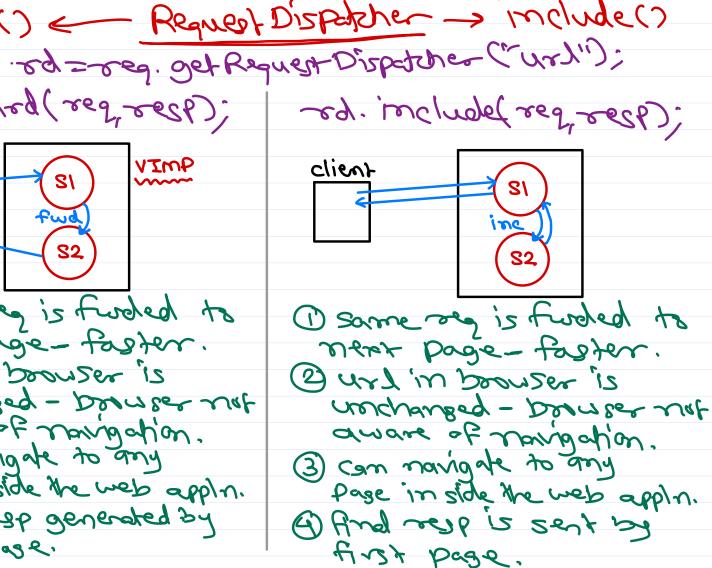


Servlet Communication/Navigation



- 1) execution as shown in diag. Two diff req from brouser - slower.
- @ url in browser is Changed
- 3) can navigate to any Page in or outside the web apply.
- 4) Useful after Post reg , so that same data is not posted again upon refresh.
 Redirection - PRG pattern.





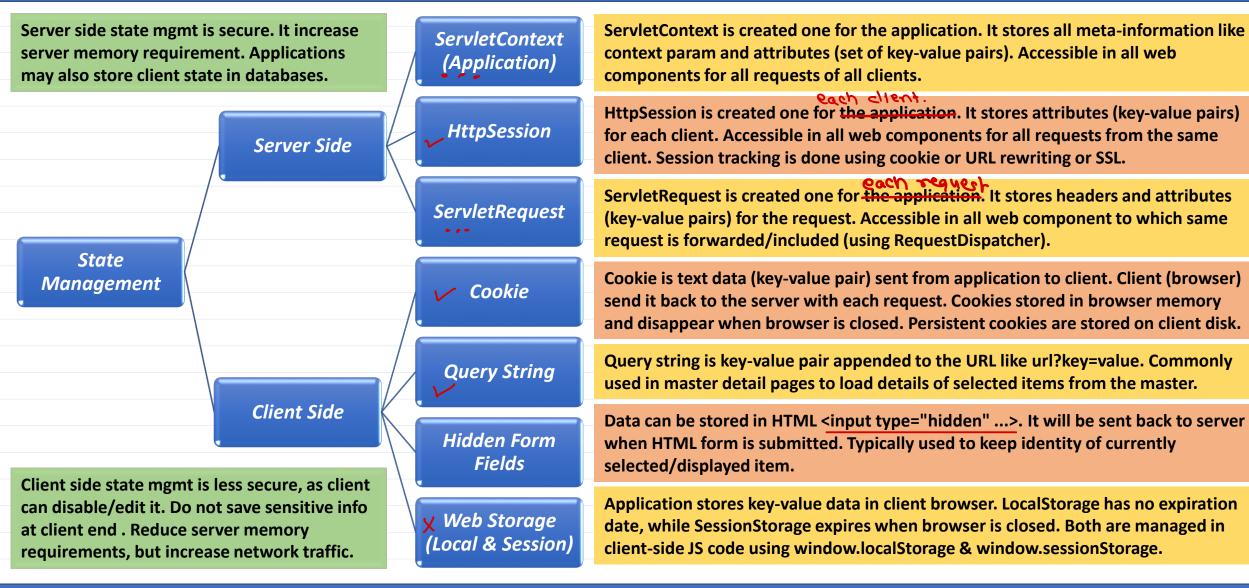


State Management

```
* maintaining state/info about client
   is called as "State mant".
* Client side state ment
                 V Need less server resources.
   - Cookie
   - Query String X Visible to client
   - Hidden fields x Client can tamper
   - HTML Storage
* Server Side State soldent
                   v Secure (Not accessible to Client)
   -Session
   - Reguest
                   x Heeg more server resources
   - Application a.ka.
     Serviet Content
```



Java Web Applications – State management – at a glance





Cookie

Cookie - text key value pair - stored on dient side

- temp cookie - promer member

- persistent cookie - client disk

-max size= 4 KB

- created by server and sent to client in a response.

- afterwards cookie is sent back to seever with each request by the client.

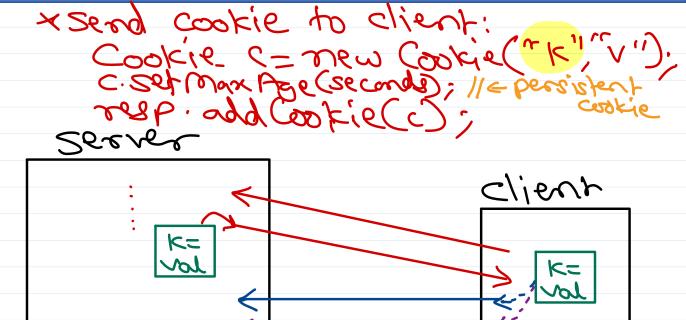
- cookies can be seen and modified & seceive cookie from client:

by the client.

Cookie [] are= reg.getCookies(

- Cookies can be disabled in bruser.

c.set Max Age(-1); → Cookie become temp. c.set Max Age(0); → cookie delete

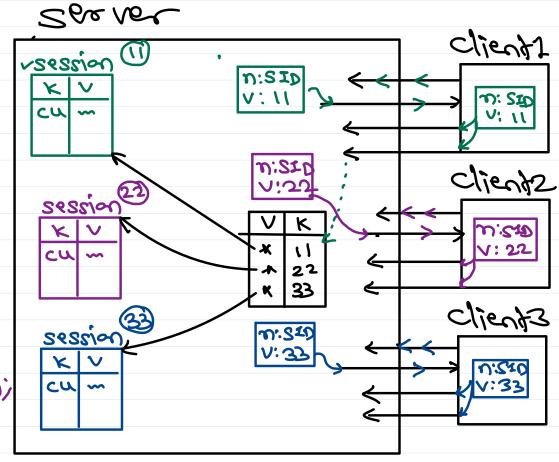


receive cookie from client; Cookie[] are= req.get(ookies(); for((ookie c: are) { mp. if(c.get Marre().equals("K")){ v=c.getValue(); preak;



Session

Http Session is key-value map stored on seever side for each wer. To create access session: Session = reg. get Session (); To stone key-value in session: session. set-Attibute ("key" value); To retrieve key-value from session: value - session. get Attabute (~ keyi); To destroy the session: session. invalidate();



Sessian tracking Using Cookie (JSESSIONID).



Session

session = req. get session ();

</session-Contig>

- O check if session id cookie is present in current regular. If available, find the Session object corresponding to that id and return it
- D if session id cookie doesn't exist, create a new session and save it with new Session id (in server internet mem). Create a new session id cookie and send it to client with next response.

Special tracking modes: mapxml <SPSION-Config> Session - Casha > URL

Session tracking by URL rewriting

http://lh:8080/app/url (after re-writing xxxx=binai2292i; Lzu/940[0808: 11 //: 4th/ " beolevemen used to esmite each wet in apply (form action a heef, resp. send Redirect, miss (...

- () renzz=resp. en case URL (und);
- @ reurl = resp. en code Redirect URL (urs);



QueryString

when reg next page, the page Url can be appeded with additional key-value poirs. It is called as query string. http://lh:8080/app/page?key1=vd1&keyz=vd2 This data is acceptable in that page as reg. parameters. String val2 = reg. get forgoneter ("key2"); String val2= reg. get forgoneter ("key2");



Req parameters vs Req attributes

- 1) received from client
- 3 always sting.
- (4) to access:

Sting v= reg. get Pasameter ("-")

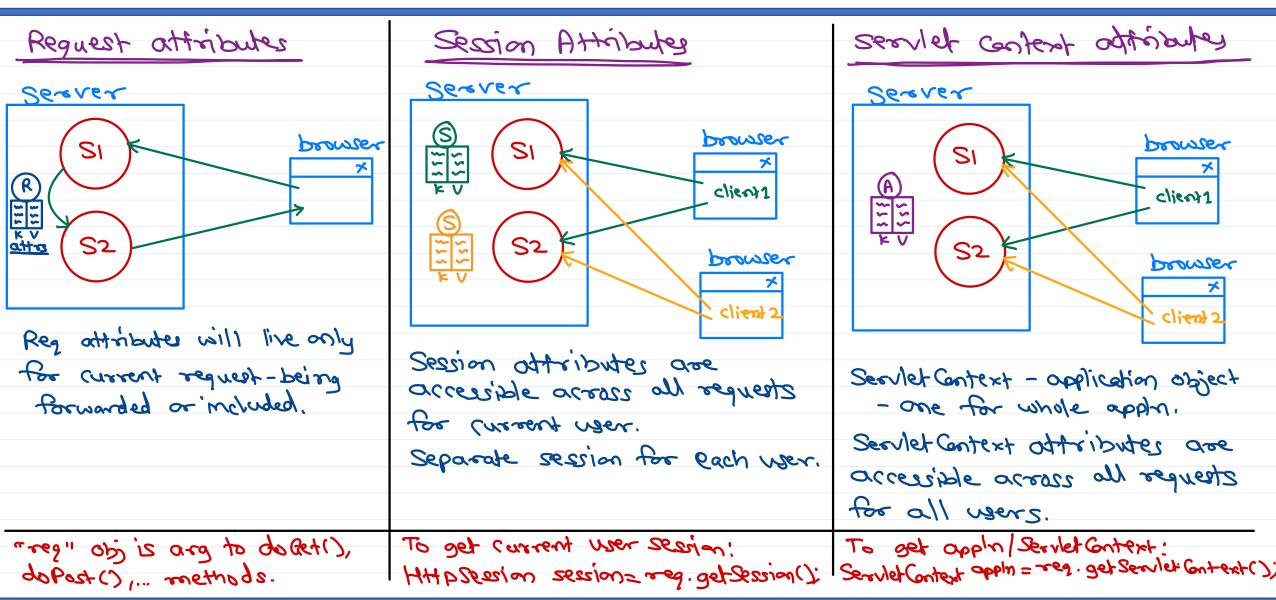
cr String[] v=
reg. getParameterValue (~_1);

- 1) Sent from Servlet 1 to Servet 2
- @ arry data added by servlets.
- 3) any java Object
- (4) Servlet 2: reg. Set Attinbute ("k", val); sendet 2:
- val= reg.getAttribute("K");
- Induding reguest.

response 15 generated processing is completed it.



Attributes - Scopes







Thank you!

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