

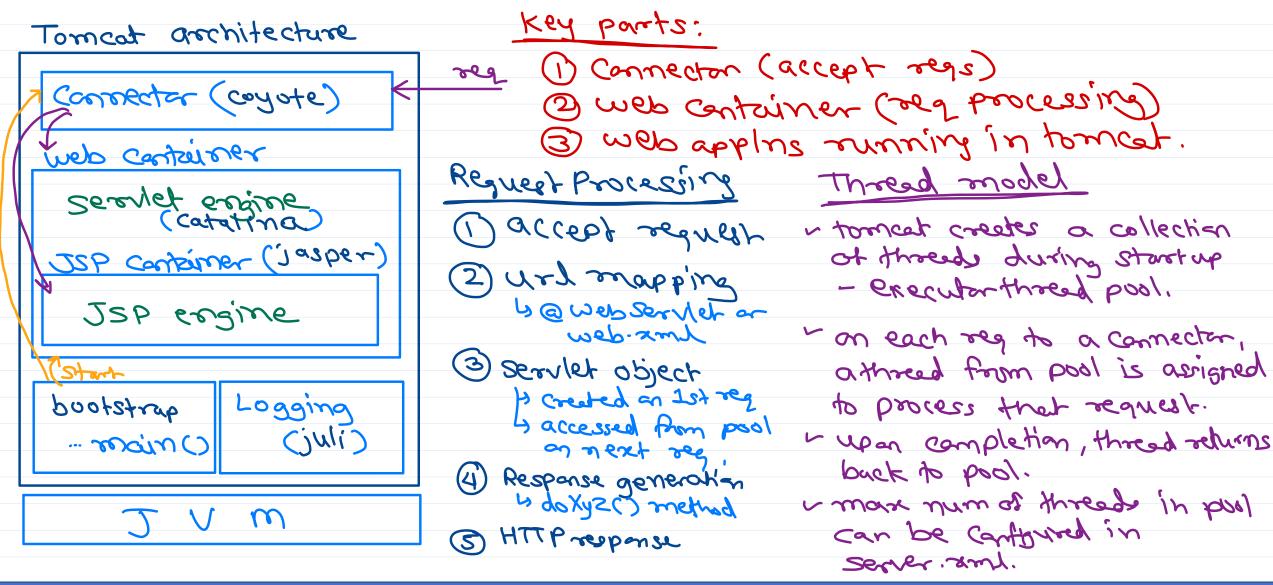


Advanced Java

Trainer: Nilesh Ghule



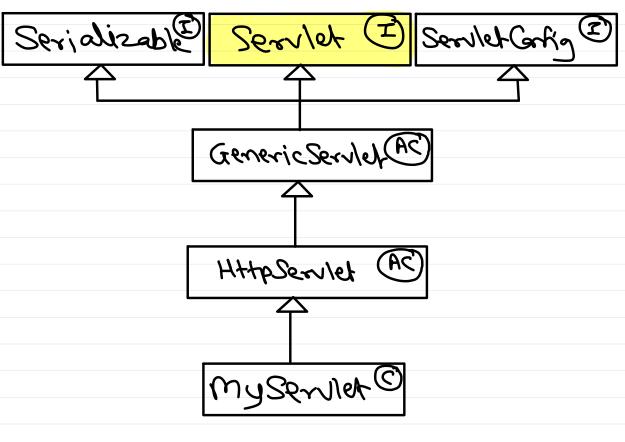
Tomcat architecture





Java Servlets

Speriet is a jana closes that is executed in jana web server when reg is received from client and produces response that is sent back to the client.



Sorviet intertace: [into metadoral of servets

- when 1st reg received for a server, obj is created and init () called by wer container.

- programmer should override, if any one time initialization is to be done. e.g. JDBC connection,...

- It failed, onust throw Servet Exception. Now servet regs will not be processed further.

3 destroy ()

- unhan appin is underbyed or was Server shutdown, destroy is called by med container.

- programmer should overvide it any one time de mittalization is to be dance. e.g. close connection.

@ service () >

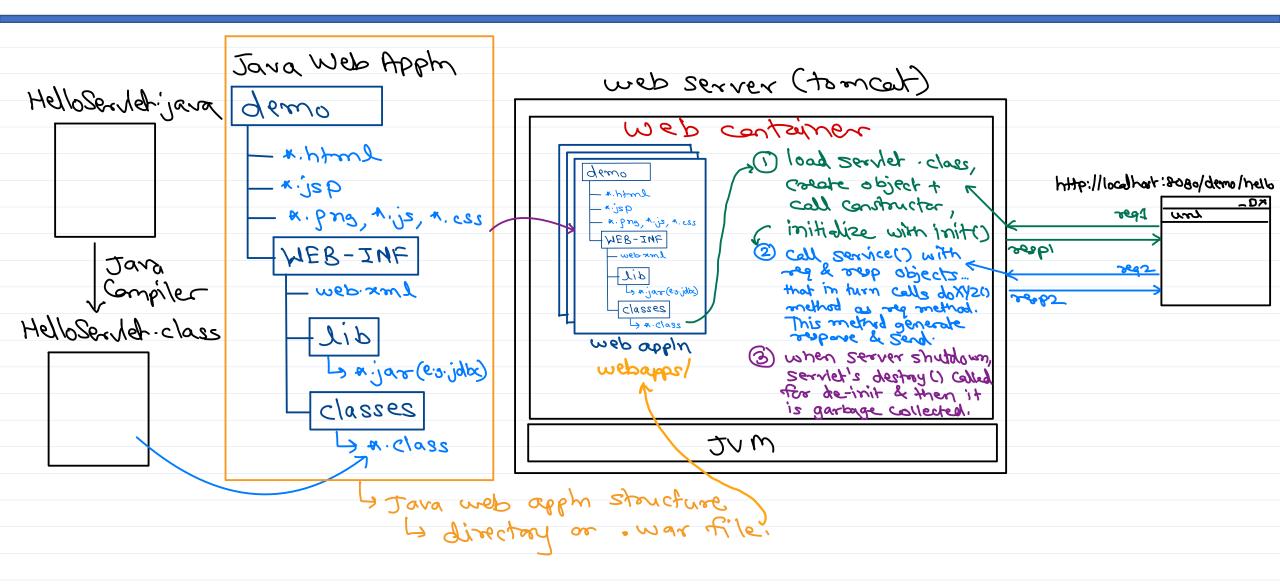


Java Servlets

```
* Sorvlet interface:
   @ Service ()
       - called for each reg by web container
       - programmer should override It to process the
                                                      11 predefined class 2
         reg and produce the response.
                                                     Class HttpServlet enterds
                                                              General Searlet ?
* Generic Servet class
    - provides default impl of init() & destry().
                                                      @ Override
    - Keeps service() abstract.
                                                       vig service (ser resp)...}
                                                          Stried on = sed . Dorged not working (2)
    * Protocol independent servlet.
                                                          1f(m== "9et")
evels tolvaseath
                                                          eper it (2005 = wbost 11)
    - class to handle HTTP requests.
    - it overrides service () and internally calls
                                                          P156 ... God (200 (200))
        doget(), dotost(), dotted(), ... methods depend
        on current seg. method.
                                                       void do Cet (seg, seg) } throw ... 5;
                                                       void do Post seq, seg) & throw ... 5:
```

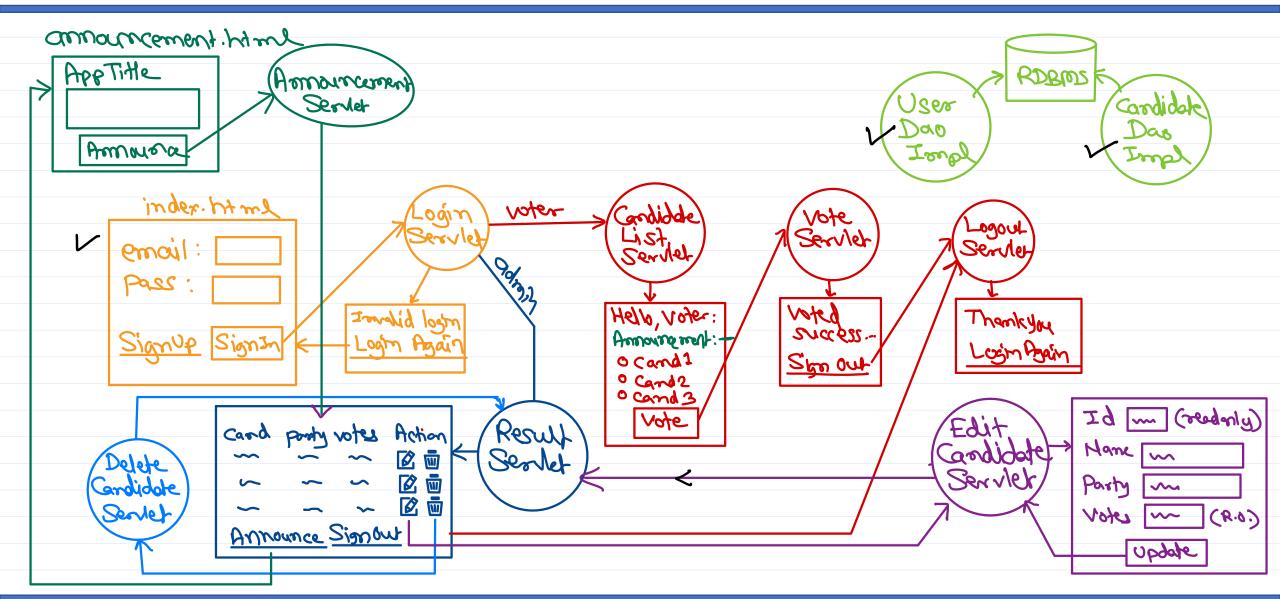


HelloServlet execution



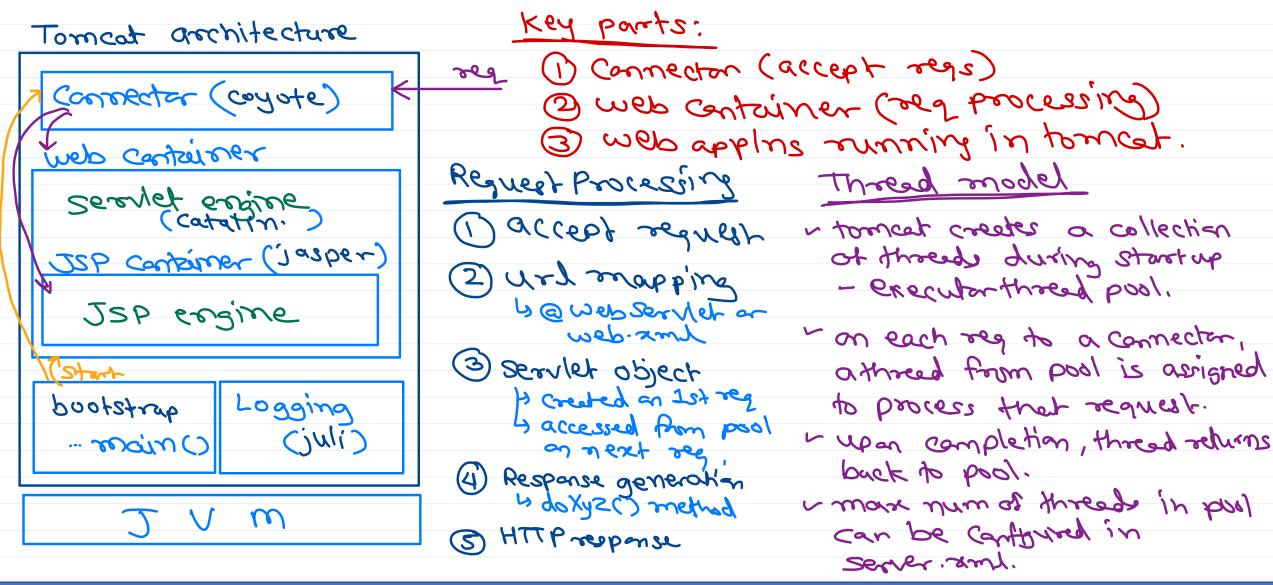


Election Management





Tomcat architecture





Request parameters

```
data form poer page antrols or query string will come with reg object.

It can be accessed in next servet wiry,

String val = reg. get Parameter ("param-name"),

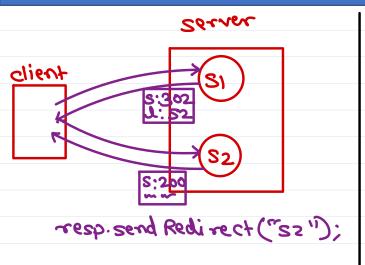
String[]vals=reg. get Parameter Values ("param-name"),

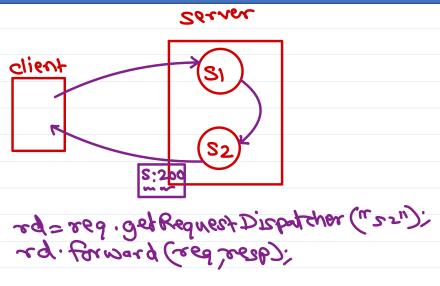
I checkbox, listbox,

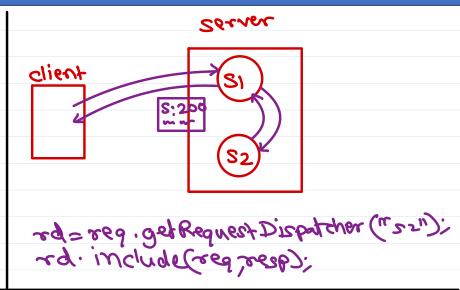
I textbox, radio, drop down,
```

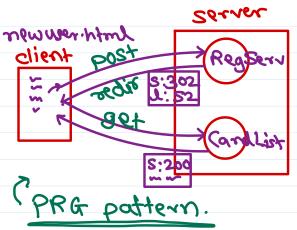


Inter-Servlet Communication









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.

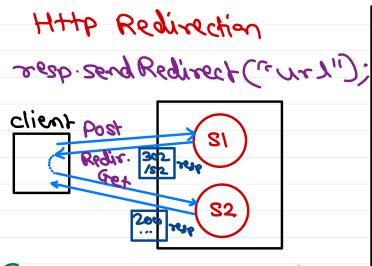
newwer.html
client
RegBerr

5:200
mm

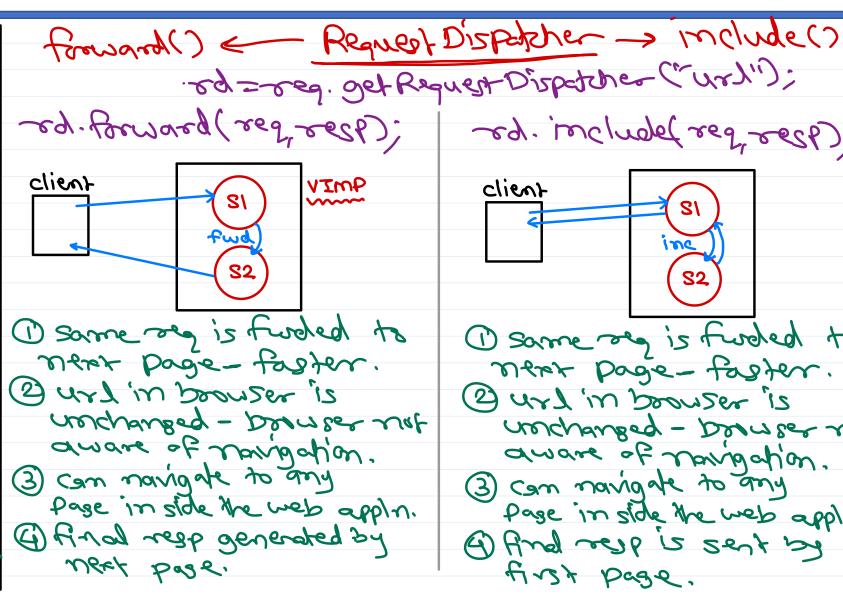
if client refresh, only last reg (GET) is replayed & dota fetened again. Earlier dota not posted twice,

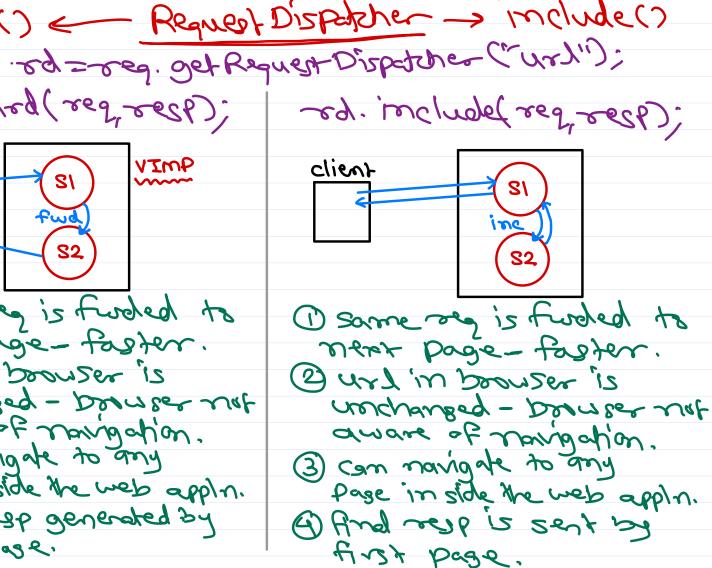


Servlet Communication/Navigation



- 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.









Thank you!

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