

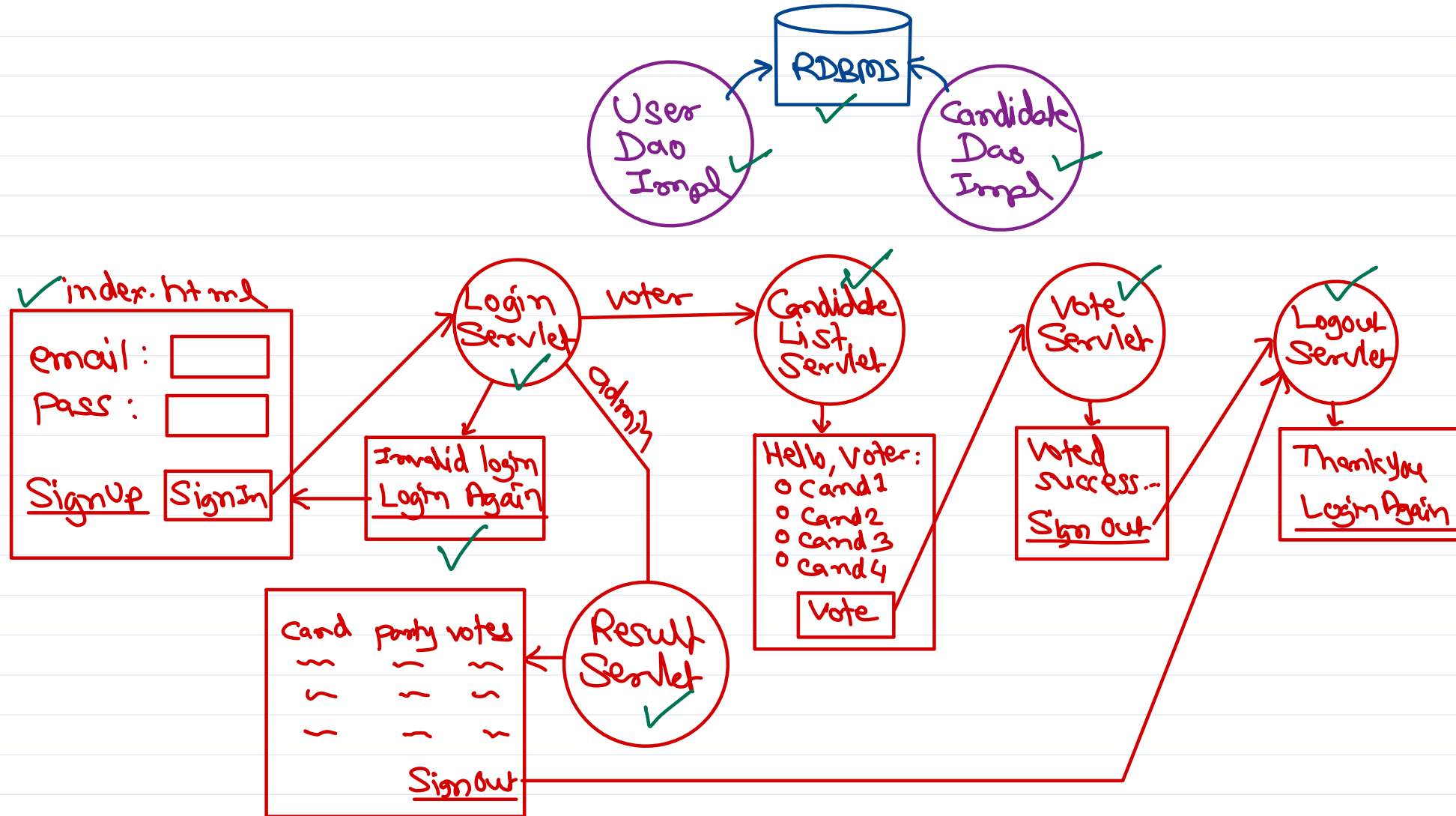


# Advanced Java

*Trainer: Nilesh Ghule*

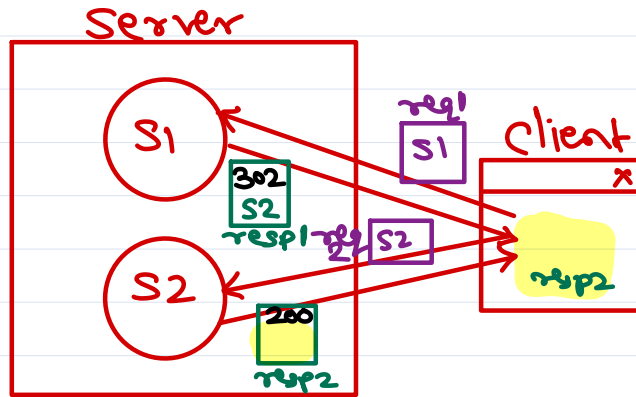


# Election Management



# Inter-Servlet communication

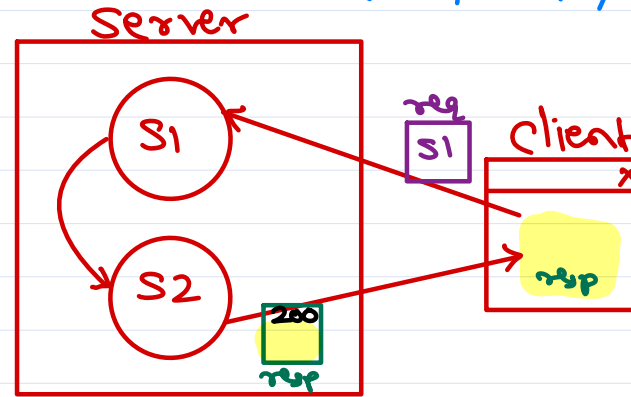
## HTTP redirection



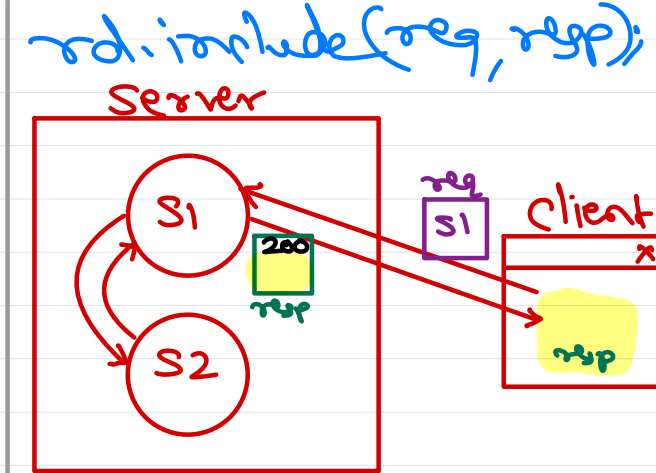
S1 : `resp.sendRedirect("s2-url");`

- ① First servlet sends a response (Status=302), due to which client makes a new request for next url.
- ② Can navigate to any web Component in the appn or outside the appn.
- ③ browser is aware of the navigation (check the url).
- ④ PRG pattern →
  - ① Post req to S1
  - ② 302 Resp (Redirect)
  - ③ Get req to S2.

RequestDispatcher  
`rd = req.getRequestDispatcher("s2-url");`  
`rd.forward(req, resp);`



- ① First servlet forward the request to the next web Component. Final resp generated by S2.
- ② Can navigate to any web Component within the appn.
- ③ client is not aware of the navigation (check the url).



- ① First servlet includes Partial resp generated by servlet 2. Final resp is generated by S1.
- ② Can navigate to any web Component within the appn.
- ③ client is not aware of the navigation (check the url).

# State Management

State management = maintaining client state/information/data across multiple requests.

- Client side state mgmt
  - ✓ less data on server (RAM)
  - ✓ not secure (visible to client, can be modified by client)
  - ① Cookie
  - ② query string
  - ③ hidden form fields
  - ④ session/local storage (JS only)
- Server side state mgmt
  - x more data in server RAM
  - ✓ secure
  - ① Session
  - ② request
  - ③ application / ServletContext



# HttpSession

HttpSession is like a hashtable for each user/client in server memory (RAM).

```
session = req.getSession();
```

↳ get session of current user.  
↳ if no session is avail, create new session for that user.

String Object

key	value
~	~
~	~
~	~

} session attributes

```
session.setAttribute("key", value);
```

↳ add an attribute into session

```
value = session.getAttribute("key");
```

↳ retrieve the attribute of given key.

```
session.invalidate();
```

↳ destroy the session of current user.





*Thank you!*

Nilesh Ghule <nilesh@sunbeaminfo.com>

