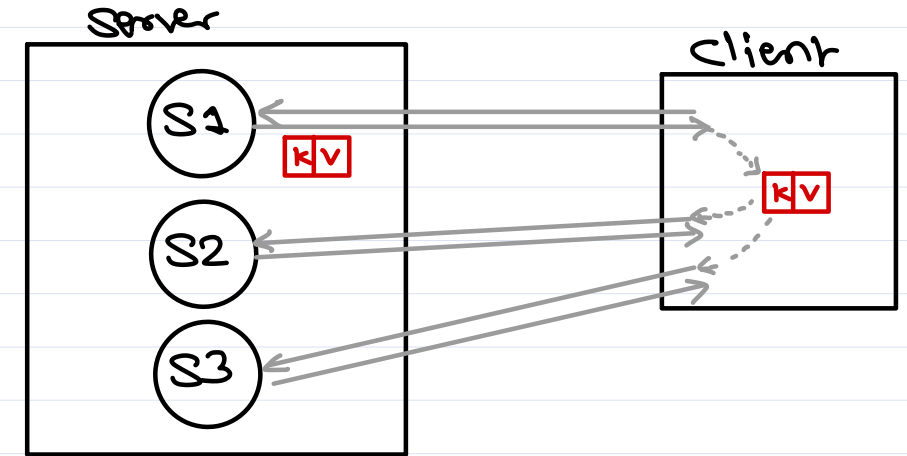# Advanced Java

Trainer: Nilesh Ghule

Cookie

Cookie = text (string) → key-value pair

= max size = 4 KB

= stored on client side by server/appln

↳ browser memory = temp cookie

↳ client disk = permanent cookie

Server

Client

Cookie usage

① server create cookie & send to client via <u>response</u>.

```
Cookie c = new Cookie ("key", "value");
c. setMaxAge (seconds); // for persistent cookie.
resp. addCookie (c);
```

② with each request client send cookie back to server
via <u>request</u>.

```
Cookie [] arr = req. getCookies();
for (Cookie c: arr) {
    if (c. getName(). equals ("key"))
        value = c. getValue();
}
```
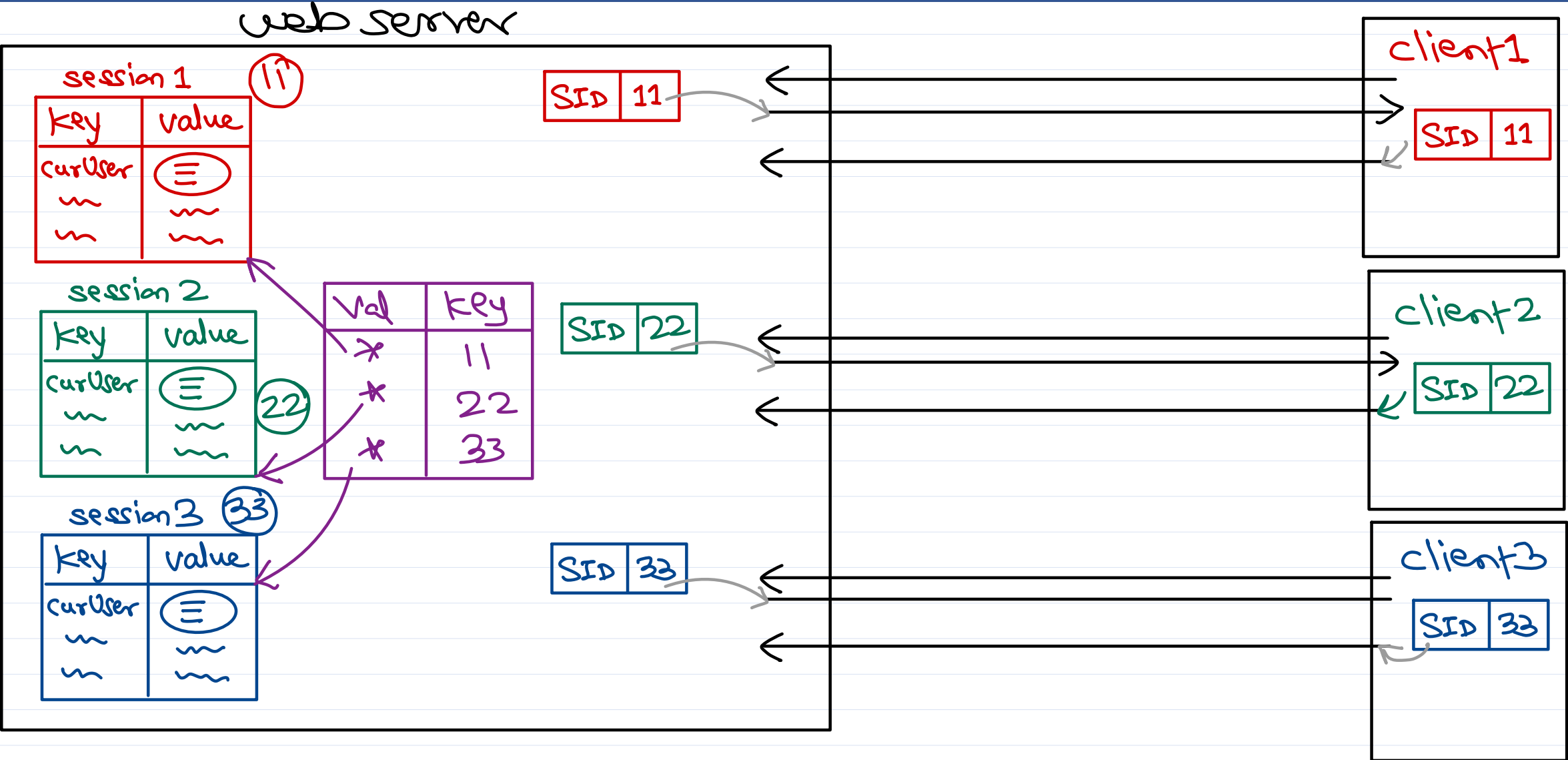
③ To destroy the cookie

```
Cookie c = new Cookie ("key", "");
c. setMaxAge (-1);
resp. addCookie (c);
```

Cookie

```
name = key
value = val
domain = server/host
path = webappln
expire = date time/session
secure = true/false
```

Session Tracking

Session Tracking

Cookies can be disabled in browser. In this case, session will not work.

Session tracking can be alternatively done using __url rewriting__.

http://localhost:8080/app/Page;jsessionid=223344

Every url used in appln needs to be rewritten.

```
encurl = resp.encodeRedirectURL(url);
resp.sendRedirect(encurl);
```

```
encurl = resp.encodeURL(url);
out.printf("<a href='%s'>Label</a>", encurl);
```

```
encurl = resp.encodeURL(url);
out.printf("<form ... action='%s'>", encurl);
```
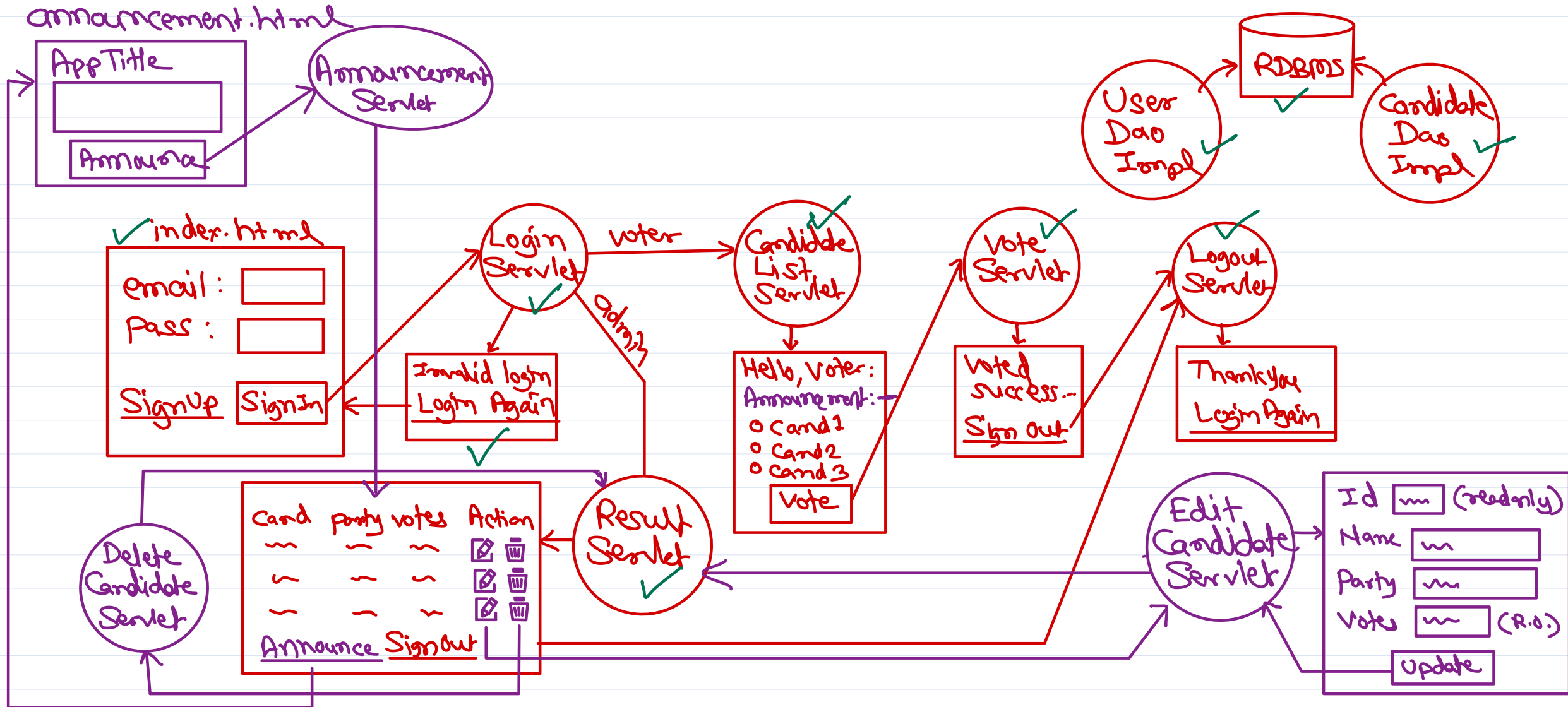
* change tracking-mode into web.xml

default: COOKIE

```
<session-config>
  <tracking-mode>URL</tracking-mode>
</session-config>
```

Election Management

Thank you!

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