

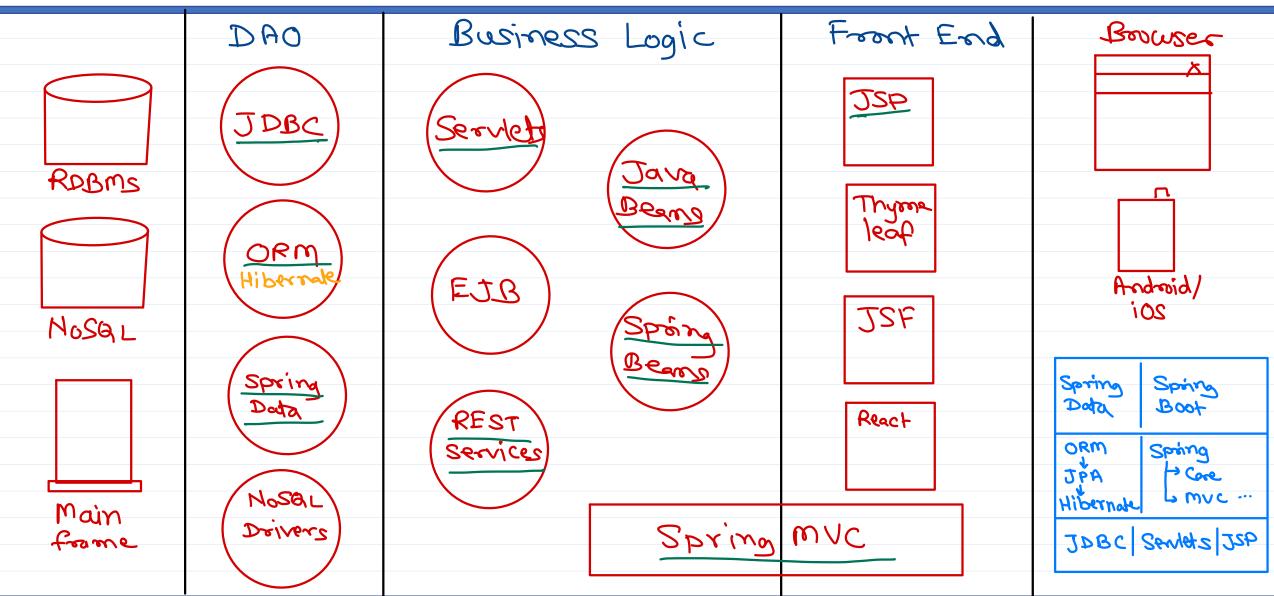


### Advanced Java

Trainer: Nilesh Ghule



## Java EE - Enterprise applications





### Java EE -> set of specifications

Servlet

JSP

JSF

JPA

JTA

EJB

JDBC

### mep servers

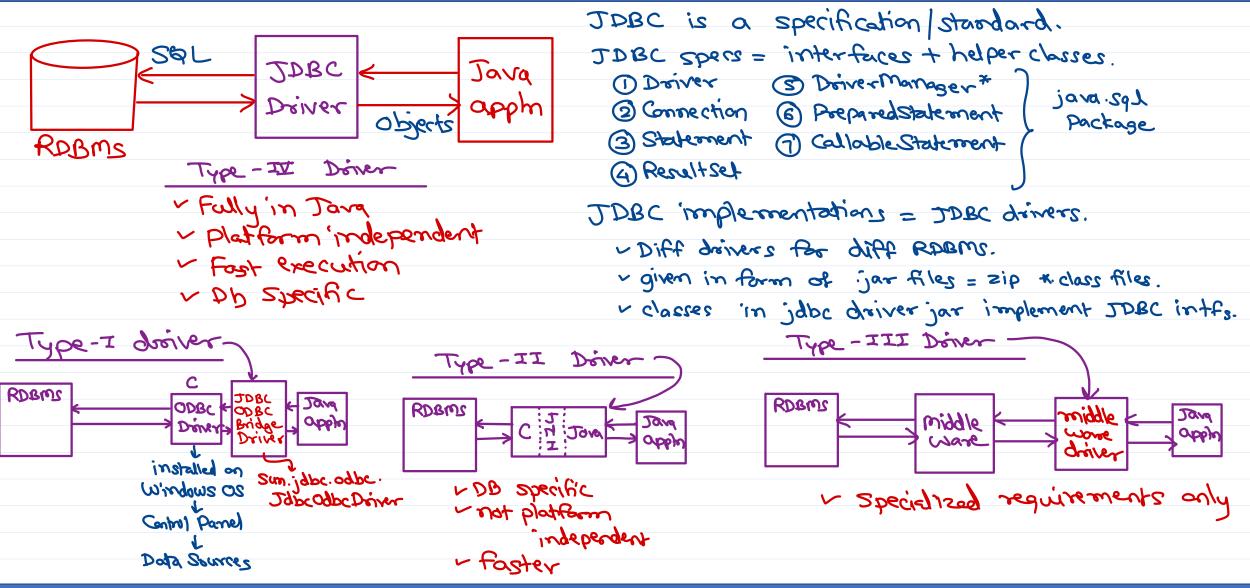
Allow Java E E Specs and develop web server.

# vop derelopers

E follow Dava EE Specs to implement various components 'M web apply.



#### **JDBC**



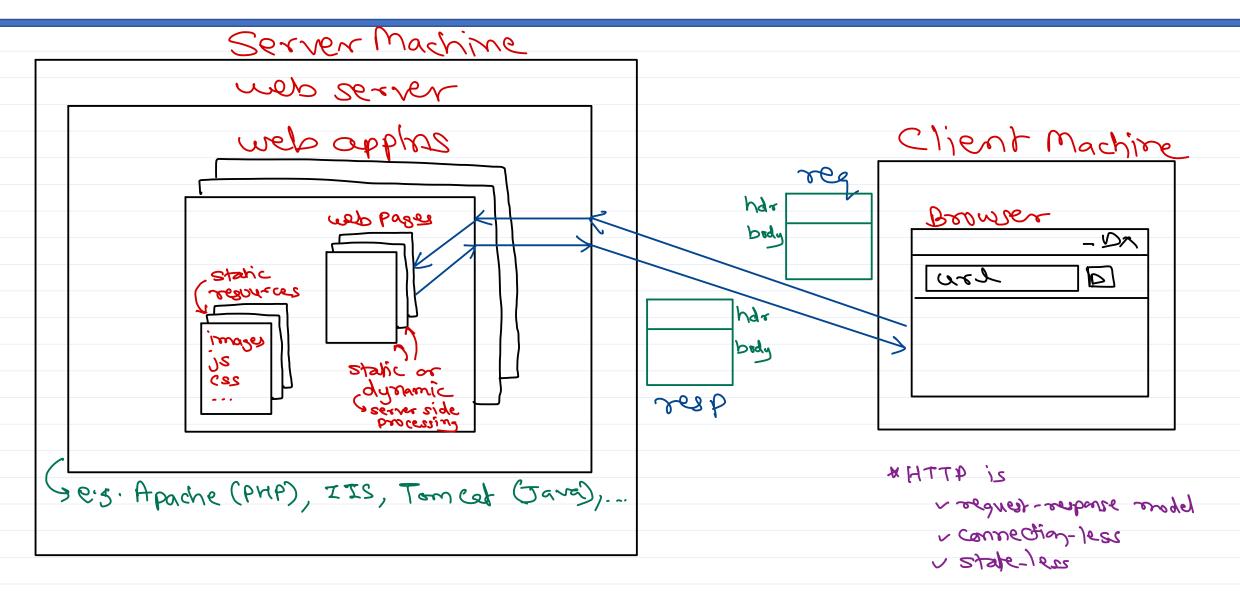


### JDBC Programming Steps - PreparedStatement.

```
(1) Add JDBC driver jar into project/classpost.
     Eclipse-Java Peoject -> Peoperties -> Java Build Path -> Libraries -> Add External Jass >>
                                             select roysel driver jar -> Apply & clave
(2) Load JDBC driver & register it.
        Class. for Name ("Com roysq L. cj. jd bc. Driver");
3) Create data base connection.
Url= "jdbc: mysql://localhost:3306/dbonne";
      con = Driver Manager. get (omection (url, "user", "passud");
4) Create parameterized Sql Statement.
      Strot = Con. prepare Statement (" param Sql query");
(3) set params, execute query & process result.
      Stoot. Set Int (1, val1);
                                               TS = Stont. execute onery ();
      Stant. Set Staine (2, velz);
                                                while (rs. next()) {
      cnt = Stant. execute Update ();
                                                 v1 = 25.9et Int ("(011");
                                                    15 = 22. det zusing ("col51).
                                                rs. close ():
 6) close statement & Garrection.
      Start. Close ();
      Con. close ();
```

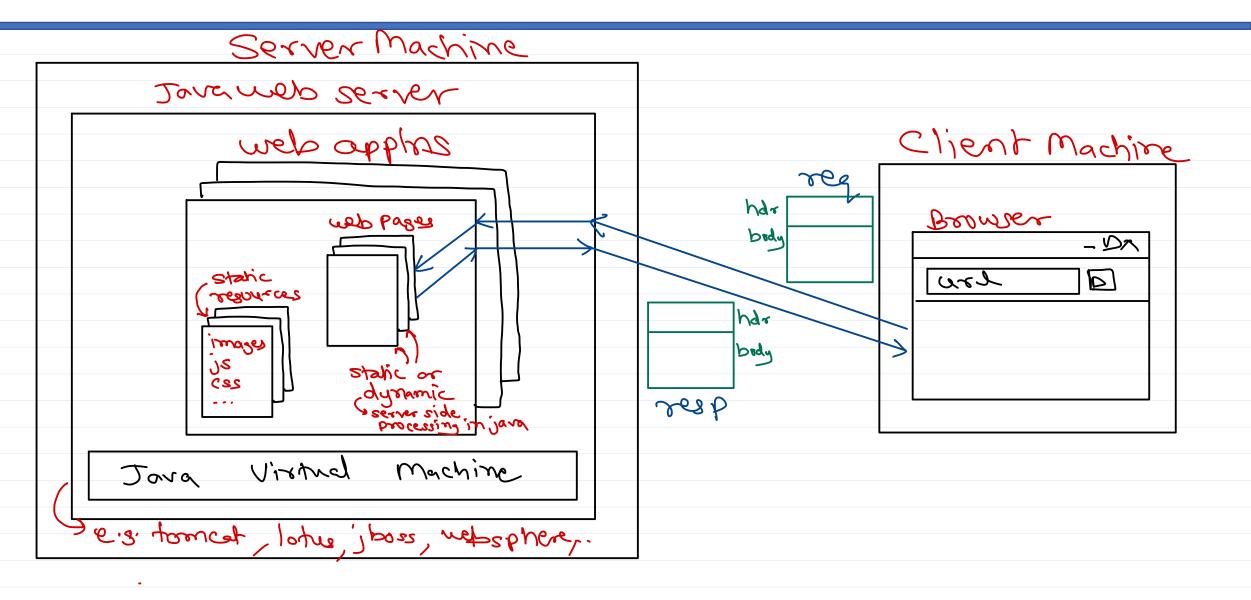


### **HTTP Protocol**





### Java Web Server



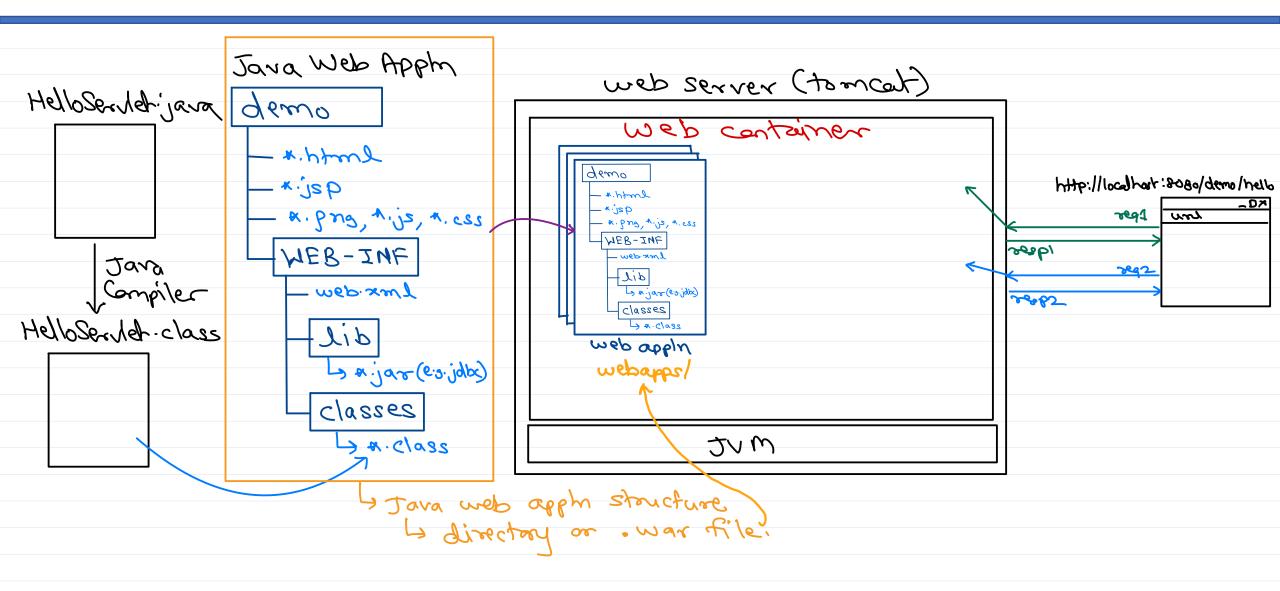


#### Java servers

```
Sun Microsystem
                                          Jara Servers
   - Standards/ specifications.
                                                -> mep server = mep container + entra services.
       - 7vm
                                                                                     () https (SSL)
       - JDBC
       - Java EE to be followed
                                                                                     (2) Connection
          - Servlet - JTA
                                                  e.g. tomat, jetty, lotus, ...
                                                                                         Poolis
                           by Java web
           - JSP - ETB
                                                                                    3 JUDI
                             Servers &
           - 72F
                    - 2 WZ
                             java neb appln.
           -JPA
                                                Ly application server = unp server + ejb container
                                                         - web container + entra services.
Apache Tornat -> default Port = 2080
                                                                                       Scalable
                                                                                       worked
                                                 servlet + JSP &
  -> bin -> tomat bins, startup shutdown.
                                                                       (JUZ) EGHA ()
                                                                                       109/c Components
                                                  sedies , sidjes
                                                                       2 conschen
  Carei sail tomant + dibs (jars)
  > Conf > tooncot wers. xonl, server. and (change port, 51), ...)
                                                                       3 JUDI
  - webaper -> hot deployment solder
                                                   e.g. Jboss, websphere, weblogic, ...
  > logs -> log files (monitoring)
  - mark -> Ist ber (szijje
  -> temp -> temp files.
```



#### HelloServlet execution







Thank you!

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