## Servlets

Sevulet technology was given by summitto system.

#### Semiar :-

- D web server
- O tomcat (http somer)
- (5) Smtp
- (I) FTP
- O IIS

- (2) application server It is having a containes
  - O weblogie sever
  - @ Gloss Lish server
  - @ J60s
  - a Jun
  - 5 FAM

#### Servle + API

- D Jarax. Servelet +; (basic)
- (3) Javax. Servlot. http. 4; (advanced)
  - O Ecroletii) -> Jarax. Ecrolet. \*;
  - @ Servle brequest(i) -> Javax. Servle t. 4;
  - (3) Sende tresponse (i) ) jarax. dervlet. x;
- @ Request Diepather (obi) -> javax. servlet.x;
- (5) Generic Servlet (ab) javak servlet. se;
- ( HTTP EINVLE+ (ab) -) javax. lerrlet. http:/
- (B) HTTP Soule+Request (1) = ) javax. servlet. Http. 4.
- (E) HTTP Servlet Response (i) ) javak. servlet . nttp. se;
- ( dervice + Contig (i) 7 Jarax. dervice + . \*;

it want to develop one servent. we must tollow somme Standards as tollows.

Steps to develop web application.

Steps to develop web application on chite erre.

Step Develop web application on chite erre.

Step Develop the web resources

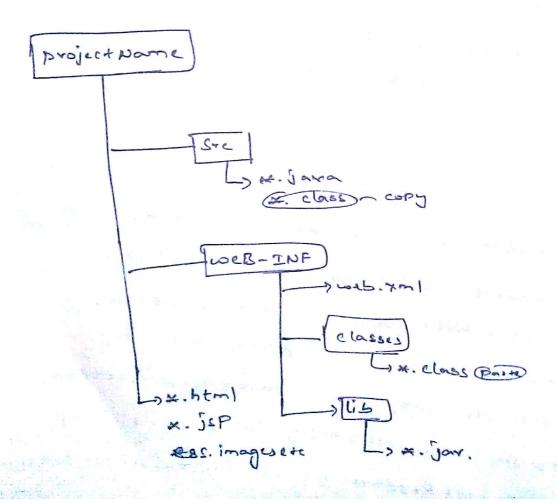
stepper Compile tue servlet java d'le.

Deploy the web application into kneer.

(6) Stort tue web server.

(7) open the browser and we can make aveguest.

(8) Enter the input values and we can cheak. (testing)



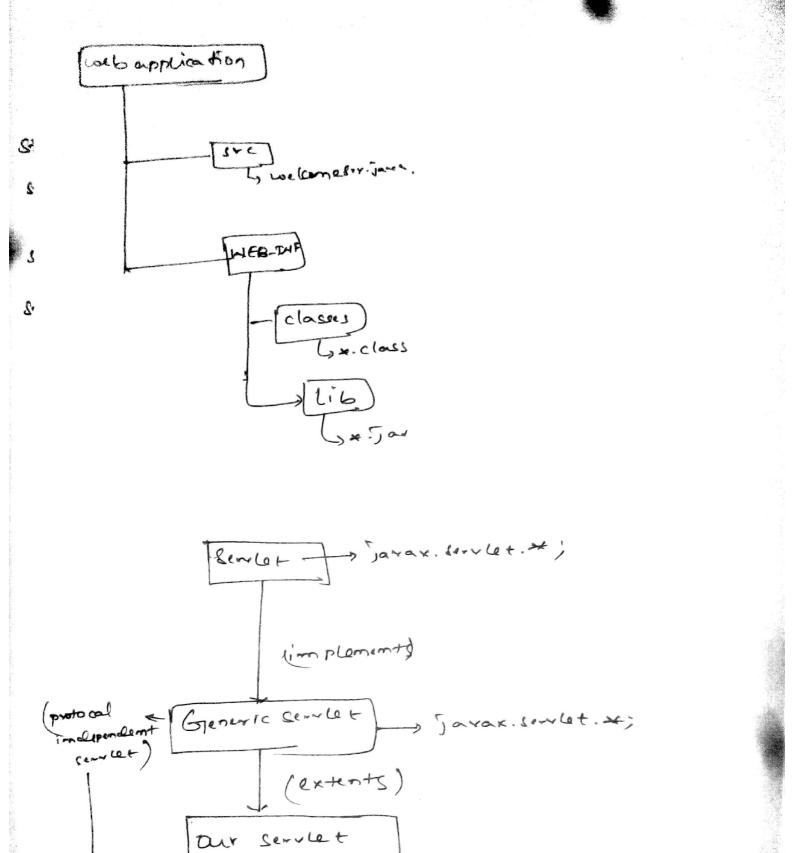
devotet is an interdace it contains the collection of mesthals ( it contains life cycle mesthals).

#### Servlet (1)

- (1) public void imit (servlet comfig config) throws sewlet exeption
- ii) public void service (devolot request veg, servlot response ves) thous servlet exeption, To Exeption
- iii) public void destroy ()
- iv) public string get sendet Into
- v) public Servlet combig get surretcombig ()

first 2 methods are cornes under lite cycle remoin 2 methods are comes under non-citecycle

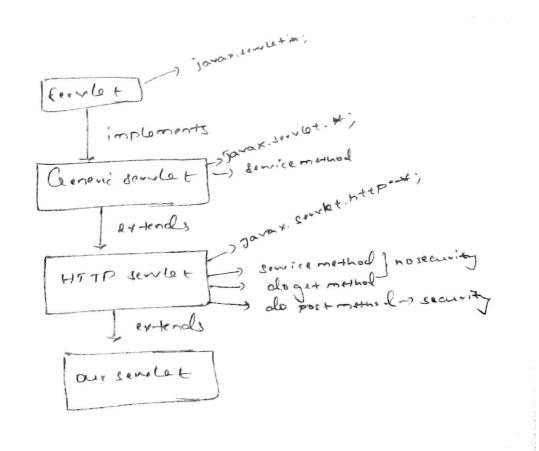
- if we want to exicute any type coale once we place init method
- client business logic implementing in 2nd method.
- it want to destroying the air server object.
- who is author, and version get tourse Themethop
- int pavara, pavara name, pavara valus it wanto seur get serlet condig 1). use goes to (tinding tree information about servlet)

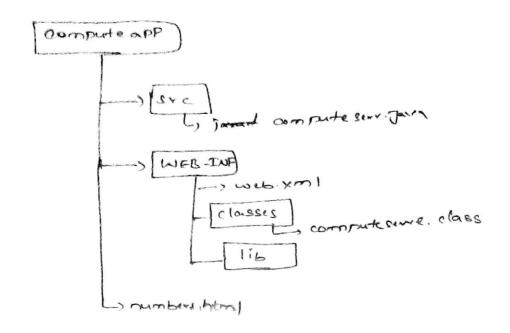


(its supported by treall tretype of protocoles like HTTP, SMTP,

PTP -- e+c)

whennever we are using the service interdace we need to providing the implementations of all the life cycle methods but providing the all implement of all the obtained cycles of methods. but providing the all implementations of life lycle there is no use of implementations of life lycle there is no use of client side and also developer sicle. Unnessanty increasing the turden on developer. In order to overcome that problem now eve have to go for generic service to generic service to was implemented by service introduce.





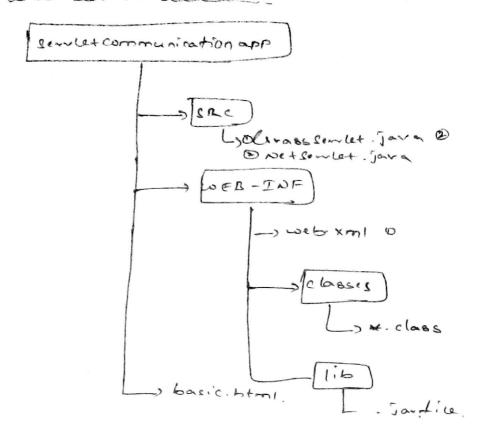
Gession roised

Servlet Correction of one business logic in In nowadays implementing the business logic in One servelet is not good. It the security we are using servlets different. To provide the communication blow the servlet wave we godor servlet amnions

Request Dispatcher -> javax. Devolet >4;

(i) tonordrand (req. res) of provided by there is method
i) include method (req. res)

Regas + Dispatcher rd - request. get Request Dispather()



Now se going to make him ( page.

### basic . html

Kht ml>

< body bgcolor = "yellow">

2 complex >

<h, > salary Entry screen <h, >

& form action = " / grass method = port >

Basic Pay < imput type = text "name = "basic">(br)

Limput type = "submit" value = "send" >

</torn>

</ center>

</body>

K/ html>

basic. 4 mm

```
Comes generaled inva
  Import . Janax surcet . M.
  imaport, Javak, Servlet, http. w;
    import, Java. 10. *;
  public class amassivilet extends timpsonulet
    public void dopost (----) Abrais SE, SOF
  float basic = float parcefloat (reg getporameter/basic)
  float grass = basic + (basic * 0.84);
      req. set Attoibute ("gr", grass);
   Request dispather rd = req. getRequest Dispather ( Inet);
          rd. dorward (reg, res);
        1
  wet source + java
   import Javax . servlet . x;
   import Javax. Servlet. http. x;
    import Java. io. x;
    public class pet servlet extends HTTP similet
     public void dopost (- reg, - res) throws SE, IDE
             res. set content Type (4 TEXT/NTMIY);
     printeritar pu= res getliniter ()
        Stoat grass = (Float. reg. getattribute (gr);
         float net = grass - (grass mo. ++);
              pw. println ("ch > Net salary"+ nett " (his)
              pw. close(1)
```

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solowite the order to the global for application = servelot - county [steel local devolet todbapplications service to albandication WEB-INF ) webs. 4ml Lojakanjar. dientside & ->Emp. html Emp. html <html> < Body 69 color = 4 yellow' > A down action = ". Id beenve" method = post > < center > Enter Employee Id: < input type = text name = em. id > + books Enter tweemployeename: < inputty pe \_ text name = tename = sbracks Enter treemployee (-lay: < imputype = 4++4 name = 4eral = < brokers Enter the employee departoxinputtype = there name = deptino > to > to > a imput type = " submit" store Emplyees くけかのつ </ conterd

```
erversiels cools
                                   in Torrent business layer
    import jaxas concet so;
    import barax Servlot http:x;
     import java . io. +;
      import Java . 571.00)
    public class DRSTV extends HTTP servlet
         prepared statement potent = null
     public void dopost (- roy - res) throws sombt Exeption, I of reption
             res. set contemtType (text/html);
     printwriter pw = res. getwritter ();
     int empid = Integer, parce Int (req. getparameter ("eid"));
      String erane = Snteger. ParseInt (reg. get parameter (mename))
                        Float . Parseflot (req getparameter (Mesal"));
        int. depro = Integer. parse Int ( reg. get parameter ( "deprino);
      float esal =
              class. for Dame ("oracle. JoBc, driver, Oracle Driver)
              Con= Drivermanager. getConnection(4 Jolba: oracle: thin
                     : E) localhost: 1521: XEM6a", 48a");
         pstmt = con. prepareStatement (4 insertime o employee values
                           (3 3 35));
        pstmt. setInt (1, empId); )
        ps+m+. setsting (2, ename); lo
         pstmt. setdloat (3, esal);
         pstmt. set imt (u, deptno); (
intrepstmt. exicute update ();
        } catch(Exption e) {
      e. primestoick Trace ()
```

```
public void dectroy()

try

it ( pstrat! = rull)

pstrat. close ();

it (con! = rull)

con. close ();

g catch ( Exertion e,)

it

of. print stackTrace ();

}
```

#### web. xml

LSINVLET >

LSINVLET - name > employee </sinvlet - name >

LSINVLET - class > DBSINVEY & /SINVLET - class >

LSINVLET - class > DBSINVEY & /SINVLET - class >

LSINVLET - mapping >

LSINVLET - mapping >

LSINVLET - mapping >

LSINVLET - mapping >

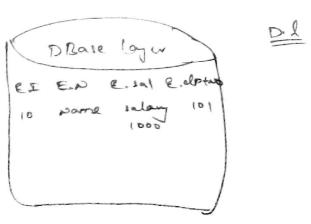
LUY - pattern > /dbsinver </sinvlet - name >

LUY - pattern > /dbsinver </bri>
LSINVLET - mapping >

LISINVLET - mapping >

LISINVLET - pattern >

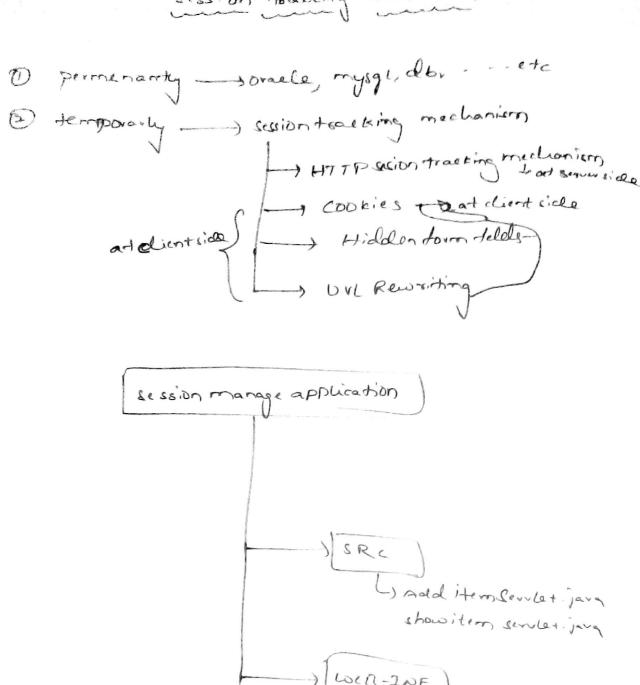
LISINVLET - pattern



overytime anytime client is going to hitting the application - pust number of tireses we are going to hit the DBme layer. so number of times hitting the Duta base layer will decrease our application performance, that day to overcome tuat problem use one using insit method. come from well inside int method public void init (servle+Config config) throws servle+Exering class formane ("oracle jobe, driver, oracle privor"); con: Driver Manager get Connetion ( ide c: oracle: thin: 10 calhost: 1521: xe", "" "P"); pstmt: con. propose statement (4 insert into employee ralues (22,22)"); g catch (Exertions) 1 e. printstack Trace ();

عظيا

# session traveling mechanism



indiw.html Kh+m13 Rynter > Kahred Fruit nem 1 moderitalas < a hored: " vegitable html" > vegitable </a> </enters don't him! 2htm15 2 booky bycolor = "yellows > < conter > return action = " . / Srv," method- " Gret"> EnterFruit Danne: < select name = 45,4 > KOPTION value = "apple">Apple </ortion> toption value - 4barrana > Barrana </prition> Lopition value = "Mango"> Mango Kloption> </select> Entergrantity: <inputtype="submit value = Add I tem 10 Entiquantity: < imput type = text name = "9ty"/> Limput type " ucubmit " value = " Addition 1/2 21form> Externaction = . /Srys'method = "OLL'> a imputtype = "submit value = showitem"/> 21torms 2/center> </h </body>

```
Additions on let jour
 import javax. servlet. http. 26;
  import jarax. serelet. *;
 public class Addition souls Extends Horpsonie +
 public void dollet (-, --) thous st, Tot
  stoing itemname = reg. get powernater ("E,");
  Stoing itm qty = req. get parameter ("7ty");
    HTTP sission hs = req. get session (true);
              he set Attribute ( . temnome, item 27);
 Showitem servlet Java
  import Javax. servlet. http. w;
  Import Vavax. Servlet. #;
  import java io. x)
  public class showitem servet externels the FD servet
   f public void doget (--, --) throws € 6, IO €
   printeriter per: resigeteriter (1)
       HTTP secsion hs - reg. get Session (true);
    Enumeration e= hs. ge+Atoibutespamme (1)
        while Le. has more Elements (1)
      Storing key = (storing) e. next Element ();
       Stoing value - (Stoing) hs. get Attribute (Fay);
        pw. printly (key+" + value);
```

while spentaring that HTTP sessions medianisars. Inumber of sessions are used are using that server, that numeries of sessions are going to be increased too that performance will be decreased overally that why we are going to see about at about it is its wildendown DRI Recoviring These are work at dient side.

Stoing france = req. get povarnater (usname);

Stoing address = req. get povarnater (usname);

Cookie (1= new Cookie (ustudentadress, advers);

res. addrookie (ci);

res. addrookie (ci);

(1) Hiddentomfeild; The data bipting in the form of text box (2) DRL rewriting - The late is appealing in the domot URL

filter