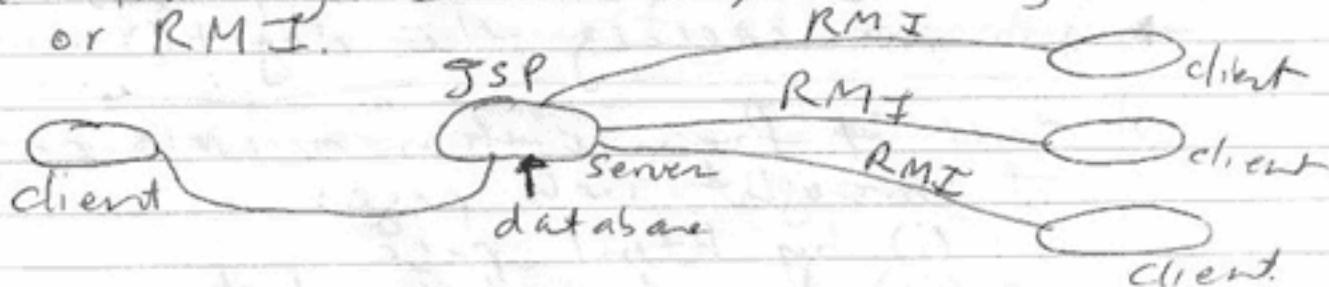
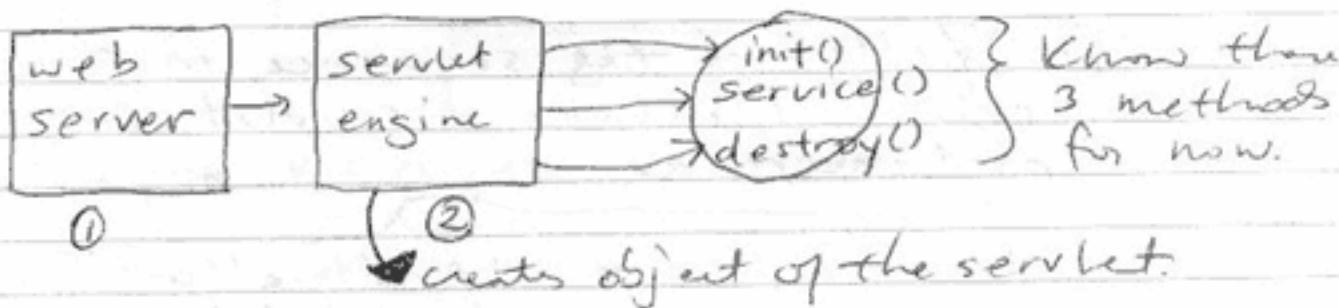


Projects: if you want to get a job in java do your project to incorporate any of the following: Database, servlets, JSP, or RMI.



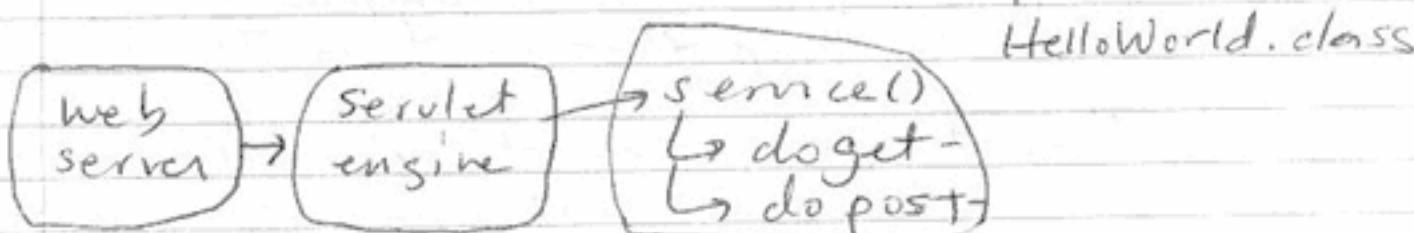
### Servlets

1. create project.
2. new → servlet / JSP



to initiate and launch servlet:

`http://localhost:8080/servlet/Helloworld`



`http://localhost:8080/servlet/Helloworld`

Service → doGet() // typically the 1st // to get called.

Two ways to invoke a servlet:  
1) will overwrite service() method  
http → invoking servlet using URL  
(like an HTML page)

→ you are calling the doGet() method

2) call it from within a web page.

I brought web page:

(i) by html page  
or (ii) by do get servlet page.

web page is displayed by :

i) invoking an html page.

ii) by invoking a servlet which  
displays a web page. ↗(doGet())

The following tag sequence in a web  
page will invoke a servlet with a  
post message.

any post over  
is OK

<form action="http://localhost:8080/  
/servlet/HelloWorld"  
method="post">  
~~</form>~~

See page 947 for examples in Deitel.  
→ could skip this part in JBuilder.

<input type="submit" value="Click me">  
textbox → <input type="text" name="message"  
value="Hi">  
</form>

→ see example 19.8 on p. 952, Deitel.

Form input sends parameters to servlet see p 949 line 41.

String v = request.getParameter("animal");

<input type="radio" name="animal" value="dog">Dog

<input type="radio" name="animal" value="cat">Cat

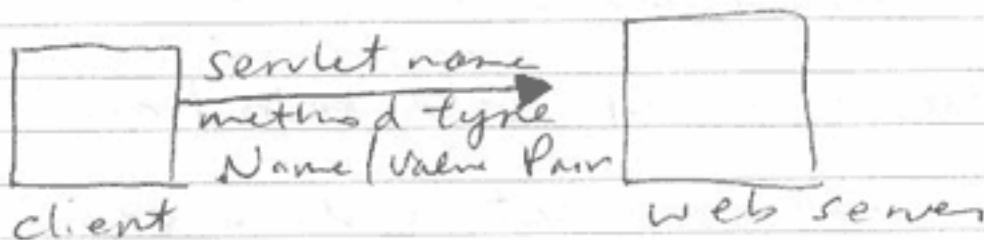
Dog       Cat  
 Cat      buttons

<input type="text" name="message"><br>

Enter name abc

String v = request.getParameter("message");

Along with the name of the servlet, the parameters are also sent to the web server as name/value pairs.



- 1) Servlet Name
- 2) Method Type (get/post)
- 3) Name/Value pair

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web server hands it to the servlet  
engine.

Servlet engine puts those Name/Value  
pairs in a request object.

it invokes method service.

method service invokes either  
doget or dopost method depending  
on method type and passes  
the request object.

After servlet is done computing /  
accessing its outputs.

How does it output?

Servlet is passed an object  
"response".

Servlet uses this object to output.

```
PrintWriter out = response.getWriter();
//using "out", servlet can output
//text data.
```

Typically it will output an html page.

So after servlet is done executing  
user will see another html page.

p. 943:

two ways to output:

- 1) out.println(" - - . - ");  
 out.println(" . . . . . ");  
 // Build the string
- 2) String s = ""; } not efficient.  
 s = s + " - - - - ";  
 s = s + " . . . . . ";  
 s = s + " - - - - ";

// Build the string using StringBuffer.

```
StringBuffer buf = new StringBuffer();
buf.append(" ");
buf.append(" ");
```

```
: :  
output.println(buf.toString());  
out.close();
```

```
}  
buf.append("<html>\n"); // entire web  
buf.append("<head>\n"); // page is in  
buf.append("</head>\n"); // these lines.  
out.println(buf.toString());
```

the servlet engine may or may not be built-in to the web server. IIS has one, apache does too. Servlet engine may be started when web server is started or when first call for servlet is made.

Execute servlet in JBuilder:

- 1) right-click the servlet:  
→ Make.
- 2) right-click the servlet:  
→ Web Run

Web Run will show the built-in web browser and the contents of executing the servlet.

I will run the servlet.

get method will run and will show the form with Submit button.

I will enter name, etc.

Click "submit".

→ post will send it.

New assignments:

as 8: Do the stock assignment using servlets  
for searching  
inserting  
updating  
deleting  
display Table (optional)?

as 9: do the same as above using JSP.