

Servlet Class - 1)

Java Servlet Introduction | Advantages of Servlet Over CGI, Uses of Servlet ...

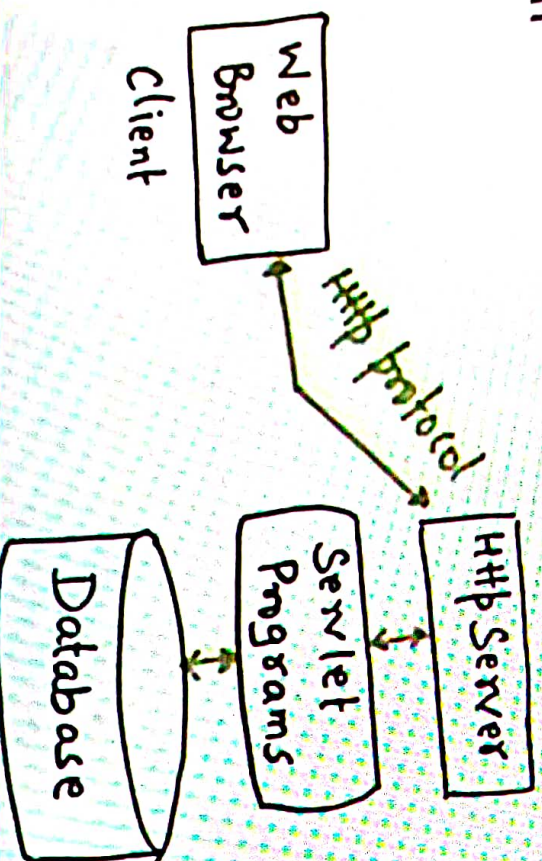
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Web Engineering - Java Servlet Lecture 1.)

Introduction to Java Servlet

- Java Servlets are the programs that run on a web Application Server.
- It acts as a middle layer b/w a requests from web browser/client and database/application on HTTP Server.



Advantages of Servlets over CGI

- i) Better Performance
- ii) Servlets executes within add. Space of Server.
- iii) Platform-independent
- iv) More Secure.
- v) Communicate with other Applⁿ with RMI.

Uses of Servlet

- i) Read explicit data Sent by browser.
 - ii) Read implicit HTTP request data.
 - iii) Process the data
 - iv) Send explicit data
 - v) Send implicit data
- cookies etc.

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(Web Engineering - Java Servlet Lecture. 2) [Servlet Life Cycle] Imp..

Called only once. } public void init() throws ServletException { // initialization code }

Servlet is created

init()

Servlet is in Service

destroy()

only called once at end of servlet life cycle. public void destroy() { // cleanup code. }

checks the HTTP request type (get, post) and calls the doGet, doPost etc.

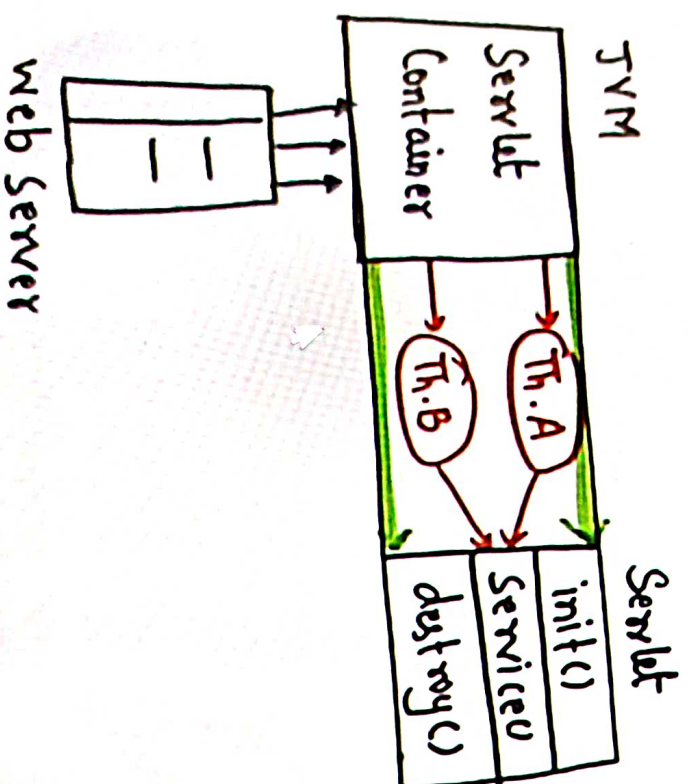
Service() → main method that performs actual task. Client — servlet container (web server) → to handle requests coming from client.

public void service (ServletRequest req, ServletResponse res) throws ServletException, IOException {
 HTTPServletRequest request;
 HTTPServletResponse response;
 throws ServletException, IOException;
}

Java Servlet Architecture | Thread mode of Requests in Servlet | Web Engi... Easy Engineering Classes - Free Youtube Lectures

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(Web Engineering- Java Servlet lecture.3) [Servlet Architecture]



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(Web Engineering - Java Servlet Lecture.4) [Servlet First Example]

web.xml → Configuration.

// Helloworld.java

import java.io.*;

import javax.servlet.*;

import javax.servlet.http.*;

public class Helloworld extends HttpServlet {
 private String message;

public void init() throws ServletException {
 message = "Hello World";
}

doPost

public void doGet(HttpServletRequest request, HttpServletResponse response)
 throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();
 out.println("<h1>" + message + "</h1>");

public void destroy() { }

(Servlet Lecture.5)

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(Web Engineering-Java Servlet Lecture.5) [Reading Form/Parameter Data]

Following methods are used:

i) `getParameter(): request.getParameter()`

↳ get value of a form parameter.

ii) `getParameterValues():` Checkboxes

Call this method if the parameter appears more than once and returns multiple values.

iii) `getParameterNames():` Call this method to get complete list of all parameters in current request.

//Pl.html

```
<form action="Servlet" method="GET">
  <input type="text" name="firstname"/>
  <input type="text" name="lastname"/>
  <input type="submit" value="Click"/>
```

Example: //Servlet.java

```
out.println("docType +
```

```
"<html>\n" +
```

```
"<body>\n" +
```

```
"<b>First Name</b>\n" +
```

```
request.getParameter("firstname")
```

```
"\n" +
```

```
"<b>Last Name</b>\n" +
```

```
request.getParameter("lastname")
```

```
"\n" +
```

```
"</body></html>");
```

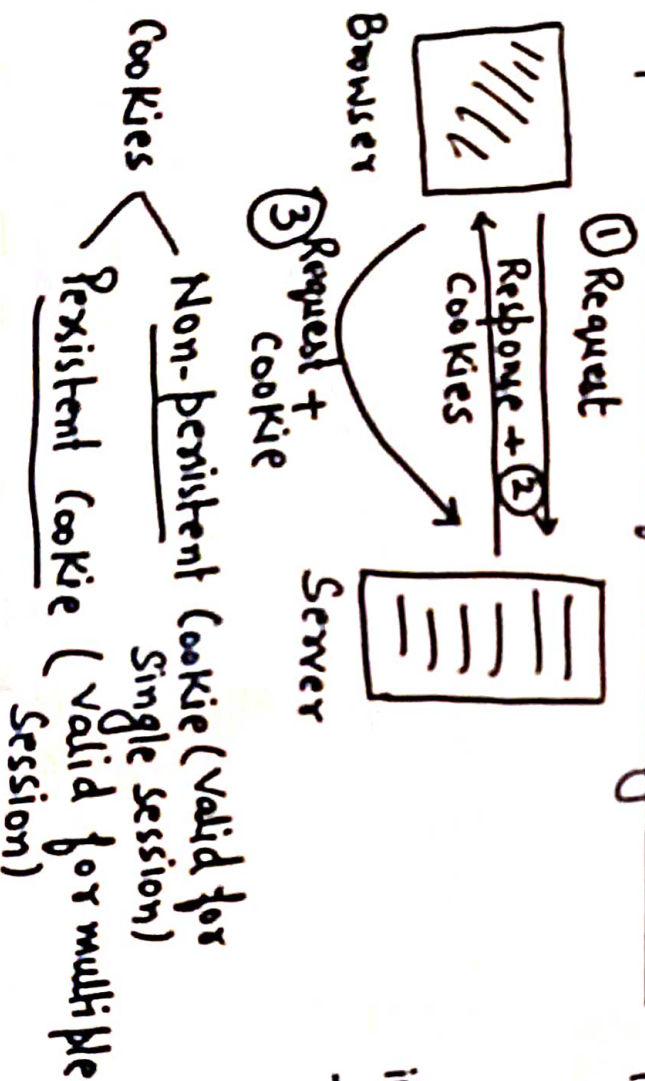
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(Web Engineering Lecture.6) [Cookies in Java Servlet]

- Cookies are the text file stored on the client computer.
- Are used for various tracking purpose.

Steps involved in Identification using cookies



Steps to Set cookies

i) Create cookie object

```
Cookie c = new Cookie("key", "Value");
```

```
Cookie c1 = new Cookie("Name", "EC");
```

ii) Set maximum Age

```
c1.setMaxAge(60 * 60 * 24);
```

iii) Send cookie into HTTP response Headers.

```
response.addCookie(c1);
```


(Servlet lecture. 6)

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(Web Engineering- Servlet lecture. 6)

Example to Set cookie

```
Cookie firstName = new Cookie("f-name",  
    request.getParameter("first-name"));  
firstName.setMaxAge(60*60*24);  
response.addCookie(firstName);
```

Example to Read cookie

```
Cookie cKL[] = request.getCookies();  
out.println(cKL[0].getName());  
out.println(cKL[0].getValue());  
o/p: f-name  
EEC
```