Pre-Spring

CGI (Common Gateway Interface) :

## ** Client Request: The client (browser) sends an HTTP request to the web server.**

## ** Server Processing: The web server receives and identifies the request as a CGI request.**

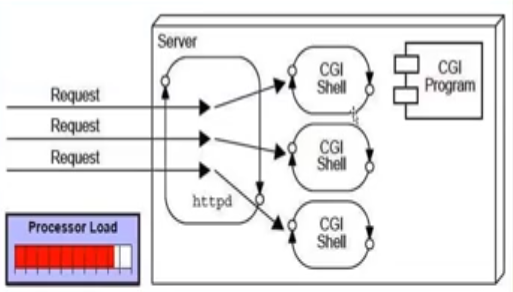
## ** CGI Script Execution: The server executes the CGI script, which can be written in languages like Perl, Python, or C (dependent language).**

## ** Data Processing: The CGI script processes the request, interacts with databases or other resources, and generates the required output.**

(by starting a new process 🡪 processor load)

## ** Response Generation: The CGI script sends the output, usually in the form of HTML, back to the server.**

## ** Client Response: The web server sends the generated HTML back to the client as the HTTP response. (more users 🡪 load on the server (slow)).**



Servlet:

* **Java programs (java language only) that run on the server to generate dynamic web content efficiently.**
* **Depends on JVM.**
* **Secured.**
* **Does the garbage collector of JVM collect garbage.**

 Client Request: The client (browser) sends an HTTP request to the web server.

 Server Processing: The web server receives and identifies the request as a servlet request.

 Servlet Loading: If the servlet is not already loaded, the server loads the servlet and initializes it.

 Request Handling: The server creates an instance of HttpServletRequest and HttpServletResponse.

 Servlet Execution: The server calls the servlet's service() method, passing the request and response objects.

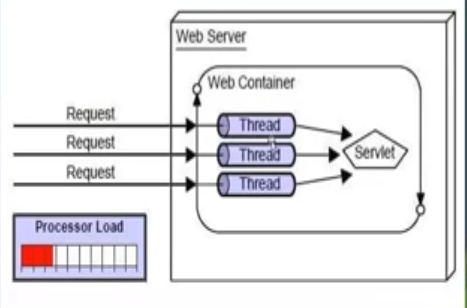
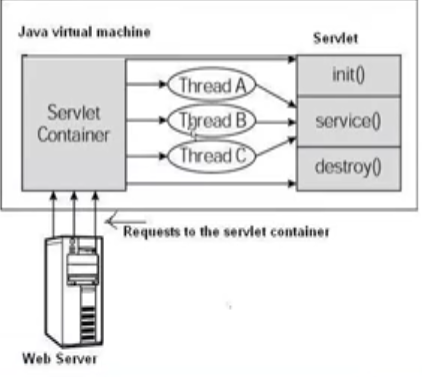
 Data Processing: The servlet processes the request, interacts with databases or other resources, and generates the required output.

\*Can receive many requests & use Multithread to process (less processor load).

 Response Generation: The servlet sends the output, usually in the form of HTML, back to the server.

 Client Response: The web server sends the generated HTML back to the client as the HTTP response.

🡪After Servlet terminated calls destroy() method .

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