SERVLET

**Servlet** technology is used to create a web application (resides at server side and generates a dynamic web page).

**Servlet** technology is robust and scalable because of java language. Before Servlet, CGI (Common Gateway Interface) scripting language was common as a server-side programming language.

Servlet can be described in many ways, depending on the context.

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* Servlet is a technology which is used to create a web application.
* Servlet is an API that provides many interfaces and classes including documentation.
* Servlet is an interface that must be implemented for creating any Servlet.
* Servlet is a class that extends the capabilities of the servers and responds to the incoming requests. It can respond to any requests.
* Servlet is a web component that is deployed on the server to create a dynamic web page.

### **Advantages of Servlet**

There are many advantages of Servlet over CGI. The web container creates threads for handling the multiple requests to the Servlet. Threads have many benefits over the Processes such as they share a common memory area, lightweight, cost of communication between the threads are low. The advantages of Servlet are as follows:

1. **Better performance:** because it creates a thread for each request, not process.
2. **Portability:** because it uses Java language.
3. **Robust:** [JVM](https://www.javatpoint.com/jvm-java-virtual-machine) manages Servlets, so we don't need to worry about the memory leak, [garbage collection](https://www.javatpoint.com/Garbage-Collection), etc.
4. **Secure:** because it uses java language.

**Methods**

1. **public void init(ServletConfig config) :** initializes the servlet. It is the life cycle method of servlet and invoked by the web container only once.
2. **public void service(ServletRequest request,ServletResponse response):** provides response for the incoming request. It is invoked at each request by the web container.
3. **public void destroy() :** is invoked only once and indicates that servlet is being destroyed.
4. **public ServletConfig getServletConfig():**returns the object of ServletConfig.
5. **public String getServletInfo() :** returns information about servlet such as writer, copyright, version etc.