What is CSS

CSS stands for Cascading Style Sheets. It is a style sheet language which is used to describe the look and formatting of a document written in markup language.

<h1 bac=”red”>

Tagname

{

}

# CSS Selector

# How to add CSS

CSS is added to HTML pages to format the document according to information in the style sheet. There are three ways to insert CSS in HTML documents.

1. Inline CSS
2. Internal CSS
3. External CSS

<h1 bgcolor=”red”>

H1{

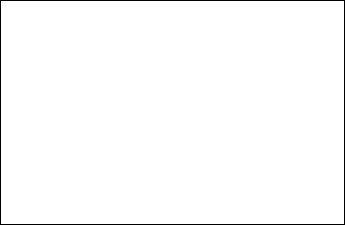
}

SERVER

* It is a program(computer program)
* A server is **a computer program or device that provides a service to another computer program and its user, also known as the client**.
* The role of a server is **to share data as well as to share resources and distribute work**.

SERVLET

* 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.



### **What is a web application?**

A web application is an application accessible from the web. A web application is composed of web components like Servlet, JSP, Filter, etc. and other elements such as HTML, CSS, and JavaScript. The web components typically execute in Web Server and respond to the HTTP request.

Diagram

Description automatically generated

Diagram, schematic

Description automatically generated

# Servlet API

The javax.servlet and javax.servlet.http packages represent interfaces and classes for servlet api.

The **javax.servlet** package contains many interfaces and classes that are used by the servlet or web container. These are not specific to any protocol.

The **javax.servlet.http** package contains interfaces and classes that are responsible for http requests only.

Let's see what are the interfaces of javax.servlet package.

Javax.servlet

### **Interfaces in javax.servlet package**

There are many interfaces in javax.servlet package. They are as follows:

1. Servlet
2. ServletRequest
3. ServletResponse
4. RequestDispatcher
5. ServletConfig
6. ServletContext
7. SingleThreadModel
8. Filter
9. FilterConfig
10. FilterChain
11. ServletRequestListener
12. ServletRequestAttributeListener
13. ServletContextListener
14. ServletContextAttributeListener

### **Classes in javax.servlet package**

There are many classes in javax.servlet package. They are as follows:

1. GenericServlet
2. ServletInputStream
3. ServletOutputStream
4. ServletRequestWrapper
5. ServletResponseWrapper
6. ServletRequestEvent
7. ServletContextEvent
8. ServletRequestAttributeEvent
9. ServletContextAttributeEvent
10. ServletException
11. UnavailableException

SERVELET INTERFACE :

|  |  |
| --- | --- |
| **Method** | **Description** |
| **public void init(ServletConfig config)** | initializes the servlet. It is the life cycle method of servlet and invoked by the web container only once. |
| **public void service(ServletRequest request,ServletResponse response)** | provides response for the incoming request. It is invoked at each request by the web container. |
| **public void destroy()** | is invoked only once and indicates that servlet is being destroyed. |
| **public ServletConfig getServletConfig()** | returns the object of ServletConfig. |
| **public String getServletInfo()** |  |