

Purpose of scripting language:-

- ▶ The web by nature is client / server environment.
- ▶ The server stores information, client does processing.
- ▶ Using script language , you can add small programs to your web pages that can be executed on server or client computer.

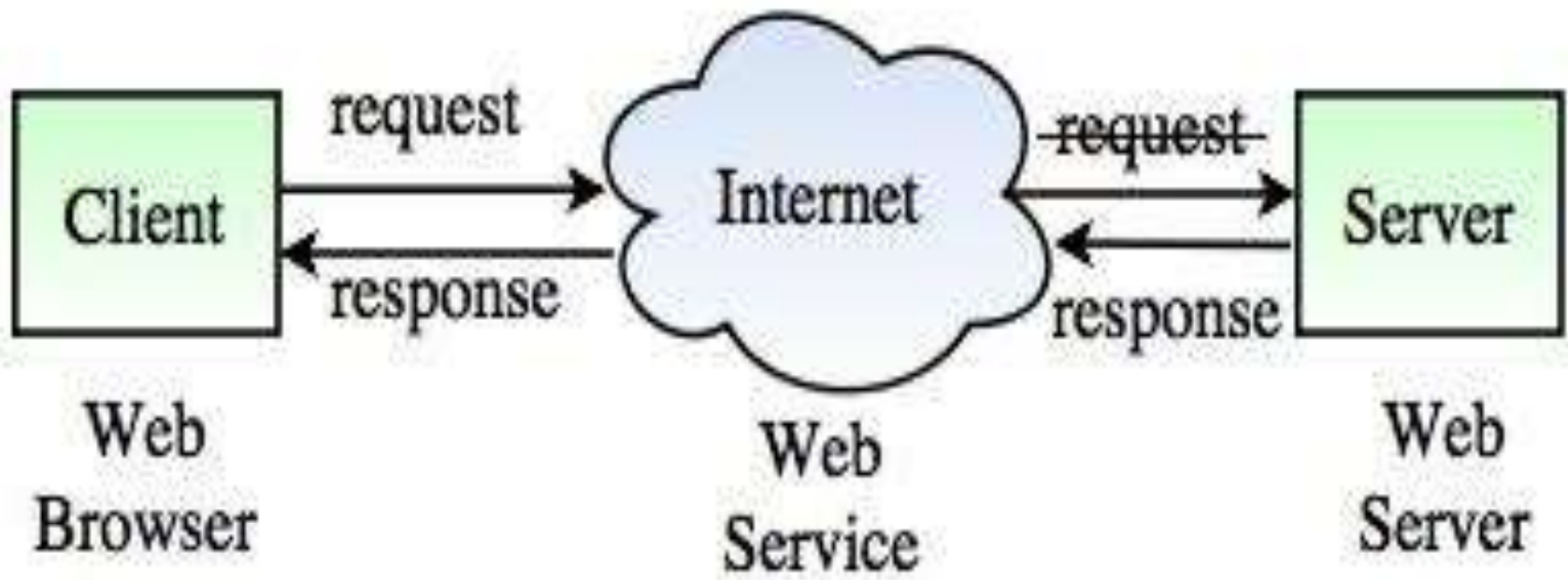


Fig. Client-Side Scripting

- ▶ Web pages are by definition interactive each time when we click a hyper link, we are taken to another page. This type of interaction requires trip to server at each step.
- ▶ The latest trend in web design is to make pages active.
- ▶ A active page behaves like an application.
- ▶ It has its own interface , composed of common windows elements (command button, text boxes), and interacts in a manner similar to windows application.
- ▶ Active page does not require a trip to server.

- ▶ Script is an embedded application. (Providing some type of control function and/or user interface,)
- ▶ When the page is downloaded , the script is downloaded with it and is executed by browser on client computer.
- ▶ It uses client computing power. This is called client side scripting.
- ▶ Certain scripting programs can be run on server.
- ▶ They are called server side scripting.
- ▶ In this chapter we are mainly concentrating on server side scripting.
- ▶ There are various types of scripting languages.
- ▶ For example, we have CGI (Common Gateway Interface), perl, VBScript (Visual Basic Script).

- ▶ In HTML page you can add a script in a <script>tag.
- ▶ Because there are more than one scripting language, you must specify the scripting language.
- ▶ For eg:-
- ▶ <script language="VBScript">
- ▶ [your scripting code]
- ▶ </script>

- ▶ When browser hits the `<script>` tag , it calls the VBScript interpreter(translator) to compile and execute the following code.
- ▶ The code is executed as soon as page is downloaded and before the browser renders (give) the document on the screen.

Difference between java and JavaScript:-

- ▶ Java was developed by Sunmicrosystems.
- ▶ It is an object oriented programming language similar to c++.
- ▶ Java is platform independent.
- ▶ Java programs can run on any machine with any operating System.
- ▶ Once it is compiled, it can be executed on any platform.

- ▶ Java create byte code file. (Java **Byte Code** is the language to which Java source is compiled and the Java Virtual Machine understands)
- ▶ It has power to merge interactivity with static HTML pages.
- ▶ JavaScript is a different programming language used for adding interactive elements into a webpage.
- ▶ The scripts are embedded in HTML file and executed on browser
JavaScript was introduced by Netscape and is supported such as validating input data.
- ▶ Animation can also be created in JavaScript.



