

Rafizza Expertise, PT

Overview Server Side Programming

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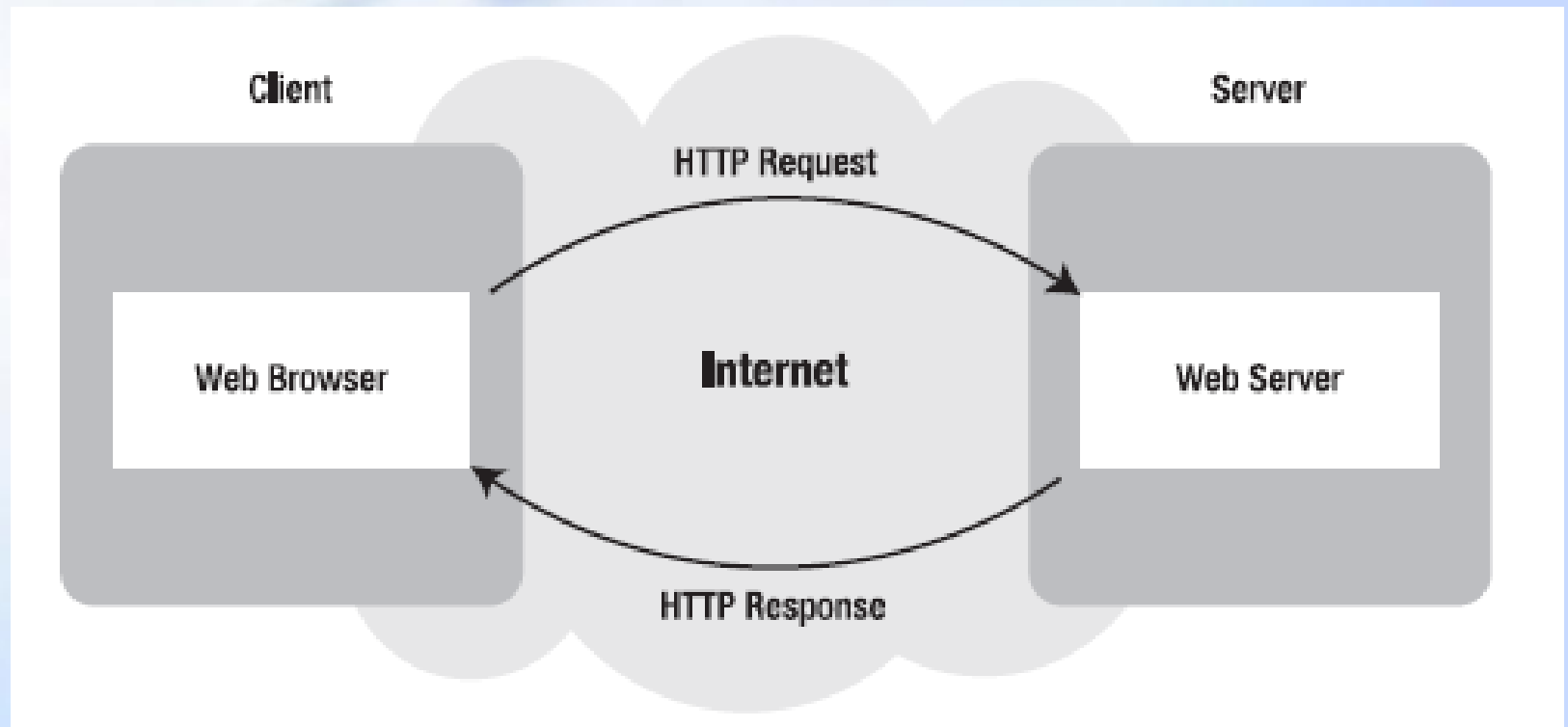
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Behind Hyperlink

what happens when you ask your browser to view a web page, either by typing a URL in the address field of your browser or by clicking on a hyperlink.

The Process



The Story

The following steps show what happens when you request your browser to view a web page:

1. When you type an address such as `http://www.website.com/path/whatever.html` into the address field, your browser first resolves `www.website.com` (i.e., the name of the web server) into the corresponding Internet Protocol (IP) address, usually by asking the domain name server provided by your Internet Service Provider (ISP). Then your browser sends an HTTP request to the newly found IP address to receive the content of the file identified by `/path/whatever.html`.

The Story.....cont 2

2. In reply, the web server sends an HTTP response containing a plain-text HTML page. Images and other nontextual components, such as applets and sounds, only appear in the page as references.
3. Your browser receives the response, interprets the HTML code contained in the page, requests the nontextual components from the server, and displays the lot.

Web Pages

- Web pages are displayed in your browser on your local machine.
- The Web site is displayed by your browser, which interprets code that was sent to it.
- In general this code will be primarily HTML, but may also contain anything supported by your browser such as javascript, flash movies, and more.

Web Pages

- The machine where the Web site actually resides is called a Web server.
- When you send a request for a Web page by entering a Web site address, this request is sent to a Web Server.
- The Web server then sends the Web page to your browser.

Web Pages

- The interesting thing about a Web server is that it can manipulate the code within a Web page before sending it to your browser.
- For most Web pages, no manipulation is done. Rather, the server simply sends a copy to the browser and the browser does the work of displaying the code.

Web Server

- A Web Server can manipulate what is included in a Web page before sending it.
- When the request is made to a server to send a Web page, the server can actually execute a program instead.

Programming Language

This can be a program written in a variety of languages. Some of the programming languages and technologies that can be used are Active Server Pages (ASP), PHP, C/C++, and Java Server Pages (JSP), and more. Of course, in order to use any of these languages, the server must support them

Web Application

- An important issue when working with Web applications is to remember that the Web server is separate from the Web browsers that will use a Web site's pages.
- The Web server can be located anywhere in the world -- or even off the world!
- The browser is generally on a machine you are using. Stated a different way, you can act as a customer, or client, using a browser to access a Web site that is located on a Web server.

Server Side & Client Side

- The browser being used to access the Web site is on the same side of the Web as you, the client side. If code is executed on the Web server, it is considered server side code. If code is executed on your browser, it is considered client-side. Because the internet is vast, the client side and server side programs are not constantly in contact with each other. Because of this, there is code that you can use on the server and there is code that you can use on the client

What do you do on the server?

There are a number of types of programming things that can be done on the server. One of the primary functions you can do with code is to prepare the code that is to be sent to the Web browser. This includes such tasks as building pages customized for the type of browser that requested a page. It could also include doing tapping into a database to create information for a Web page.

What do you do on the client?

HTML, javascript, Flash files, ActiveX controls, Java applets, and a number of other technologies can be executed on the client side. You can execute any technology supported by your browser. Client side programming is used because the browser is separate from the server. By including code within a web page, a number of features can be added to a Web page without the need to send information to the Web Server which takes time.