  Sabir Mohamed

**Technical Written Assignment**

Wide Web operates on a client/server model. You run a web client on your computer called a web browser, such as Microsoft’s Internet Explorer or Firefox. That client contacts a web server and requests information or resources. The web server locates and then sends the information to the web browser, which displays the results. When web browsers contact servers, they’re asking to be sent pages built with Hypertext Markup Language (HTML). Browsers interpret those pages and display them on your computer. They also can display applications, programs, animations, and similar material created with programming languages such as Java and scripting languages such as JavaScript, and techniques such as AJAX. This is like the runtime, the runtime is when a person run a program or when a program is being executed

Code Server-side

processing is used to interact with permanent storage like databases or files. The server will also render pages to the client and process user input. Server-side processing happens when a page is first requested and when pages are posted back to the server. Examples of server-side processing are user validation, saving and retrieving data, and navigating to other pages.

client-side

There are many advantages to client-side scripting including faster response times, a more interactive application, and less overhead on the web server. Client-side code is ideal for when the page elements need to be changed without the need to contact the database.

users may have their choice of a number client programs (e.g. most modern web browsers can request and receive data using both HTTP and FTP). In the case of more specialized applications, programmers may write their own server, client, and communications protocol which can only be used with one another.

Websites use server-side code to dynamically display different data when needed, generally pulled out of a database stored on a server and sent to the client to be displayed via some code (e.g. HTML and JavaScript).

Perhaps the most significant benefit of server-side code is that it allows you to tailor website content for individual users.

An instance of the Database Engine operates as a service that handles all application requests to work with the data in any of the databases managed by that instance.

You can run multiple instances of the Database Engine on a computer. One instance can be the default instance. The default instance has no name. If a connection request specifies only the name of the computer, the connection is made to the default instance. A named instance is one where you specify an instance name when installing the instance. A connection request must specify both the computer name and instance name in order to connect to the instance. There is no requirement to install a default instance; all of the instances running on a computer can be named instances.