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**MOI UNIVERSITY**

**(MAIN CAMPUS)**

**SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES**

**COMPUTER SCIENCE DEPARTMENT**

**NAME: KISORYO LYNNCARIE JERUTO**

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**LECTURER: DORCAS ARUSEI**

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**QUESTION: WRITE SHORT NOTES ON CLIENT PULL AND SERVER PUSH TECHNOLOGIES.**

**WHAT IS PULL TECHNOLOGY**

Pull technology is also referred  as the client pull its one of the methods for the network communication in which user make request first and the data demand is fulfilled by the network servers. Its vice versa technology is known as push technology in which serve pushed tat to the clients automatically without the generation of the query or request by the users. Pull technology is also known as the pioneer of the network computing. It originated the concept of client server communication as it introduced the reliable architecture to support this function. Foundation of the network computation is based on the request of the multiple users to the centralized hub or server which processes all results simultaneously or turn by turn. This technology is still widely used in the hypertext transfer protocols, Web Pages and website browsing all over the world, Major Companies like Yahoo, Hotmail, Google use pull technology to manage their webpage access requested by the users.

**How Pull Technology Works.**  
Pull technology can be also used in the simulation of the push technology both of these works separately in timely manner. First user pull pop3mail messages form the server and makes regular request for the other webpage. No to the user email will appeared to be pushed by the server ad he server pulls out the data requested by the user in periodic manner. The dialog boxes presenting success or failure of eth request is the pushed data by the servers to the users in the case of multiple servers load balancing techniques use in which server control switching as requires reconfiguring of pull and push functions. Web feeds such as RSS are logically pulled by the clients. There are several other functions that are categorized as the pull functions for either servers or clients. One should not confuse that this technology is basically client oriented and cannot be independently used by the network servers.

**Usage and Applications of Pull Technology:**  
There is no specific range of the pull technology applicability but the major uses or functions can be categorizes into four wide functions

1. Mail requesting
2. Webpage loading
3. Downloading via internet
4. Web syndications

Requesting for the mail is the daily activity of the daily internet users and professionals who seek the arrived information in the mail box this request is transferred to the server through pull technology .similarly Downloading activity also request the desired data by pulling the downloading request to the server. Downloading data could be of any type. Web syndications are the periodic document updating for the daily news readers. This updating is done by the server on user requests. This pull technology sometimes feels like the push technology when external overview is taken but logically all the above tasks are done by the pull technology and push technology can be just assistant to above activities.

In the world of internet writing a single line is search engine or entering specific URL in the address bar is the client pull for the server. A single click results in the data retrieval in the pull technology in the pull technology. Some people have the misconception that these activities are the navigational task but in real the being to the client pull. To better understand it can be said that something being downloaded, requested and copied from the internet is the pulled item. A purchase of a book, Printing file, Extracting music files, Downloading software, new drivers, a photo from internet buckets such as flicker and Photo bucket. English language dictionaries, online books and web mails all are the examples of the client pull.

**WHAT IS SERVER PUSH TECHNOLOGY**

It is a type of technology in which central server is involved in maintaining the different type of queries of the users during the start of transaction is called as the push technology. The working and the performance of the push technology is totally governed by the pull technology, which deals with the with the transmission queries of the client.

**How Push Technology Works**  
Push technology works in a real specific manner or in a very comprehensive way. All the working of the push technology is carried out with the help of different type of software. Different type of components or the ends are present in the working of the push technology, one end is of the client and other end is referred to as server end. First of all the softwares is installed on the users or the client end. The software which is used to installs for this purpose on the machines of the both sides should be capable to send and receive the information about the transaction and the transmission and also knows the technique to store them and then decode them on the machine in the form of display. On the other hands, the central server comprises on the software that help the operators to receive and store the applications of the clients for the sake of the communication and can also target the websites for the same job. And after this server provide the solution to the clients from the internet with the help of web casting.

**Applications of Push Technology:**  
Major application of the push technology that we see in the present era is Black Berry. Different models of the black berry phones based on the latest technologies, having PDA are able to govern the rules of the push technology and they can easily explain the concept of the push technology. With the help of such phone based on ten technology users can easily push their emails, send and receive data, web casting and many more other jobs. Every application that work as the application of the push technology should have three major components such as

1. Server side services
2. Clients requests
3. Infrastructure of the device e.g. blackberry

**Important Uses of Push Technology:**

As we know that push technology is a type of advance technology that really saves the time by its efficient working so, it offers many uses. So that some of the important uses of push technology in the field of networking are as follows

* One of the important uses of the push technology that we see in the present era is the Email. It is placed in the push technology because the protocol that is used in the Email is completely based on the push technology that is SMTP.
* Push technology is also used in configuring and sending the Instant Messaging different type of conferences are also organized with the help of push technology.
* Another important example or the use of the push technologies is the PNC point cast network.
* In spite of these uses push technology is also used in almost every application of web such as online gaming, chatting etc. In the case of websites push technology is also used for the sake of their updates and enhances the working of the websites and with the help of push technology users can also create their own networking channels

**REFRENCES:**

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