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**WEB PROGRAMMING -2 LAB-1 TASK**

1. **Explore what are different servers available.**

**Web Server**

At its core, a Web server serves static content to a Web [browser](https://www.webopedia.com/definitions/browser/) by loading a file from a disk and serving it across the network to a user’s Web browser. This entire exchange is mediated by the browser and server talking to each other using HTTP.

**Application Server**

Sometimes referred to as a type of middleware, application servers occupy a large chunk of computing territory between database servers and the end user, and they often connect the two.

**Database Server**

Database servers are used to store and manage databases that are stored on the server and to provide data access for authorized users. This type of server keeps the data in a central location that can be regularly backed up. It also allows users and applications to centrally access the data across the network.

1. **Difference between Website, Web Application and Web Service.**

**Website**

Website is a collection of webpages put together which are accessed by a web browser.

**Web Service**

W3C (World Wide Web Consortium) describes web service as a system of software allowing different machines to interact with each other through network. Web services achieve this task with the help of XML, SOAP, WSDL and UDDI open standards.

**Web Application**

An application that the users access over the internet is called a web application. Generally, any software that is accessed through a client web browser could be called a web application.

**Website vs Web Services vs Web Applications**

* A website has a user interface or GUI.
* Websites are cross-platform as they require tweaking to operate on different browsers, operating systems, etc.
* Web Services can be used to transfer data between Web Applications.
* Web Services can be accessed from any languages or platform.
* A Web Application is meant for humans to read, while a Web Service is meant for computers to read.
* Web Application is a complete Application with a Graphical User Interface (GUI), however, web services do not necessarily have a user interface since it is used as a component in an application.
* Web Application can be accessed through browsers.

1. **On regular basis, any web application or online resource we use is a web service or web application?**

**Amazon.**com- Web Application **Tech Stack used:** Java, C++, Perl

**Blog Pages-** Website

**Stackoverflow-** Web Application

**Instagram** - Web Application **Tech Stack used:** react, Django (HHVM), Python, C++, Java, Erlang, D, XHP, Haskell

**YouTube** -Web Application **Tech Stack used:** C, C++, Python, Java, Go

1. **What other technologies used other than PHP.**

* The most popular server-side scripting languages and frameworks include **PHP, ASP.NET, Node.js, Java, Ruby, Perl and Python**.
* These scripts run on a web server and respond to client requests via HTTP to deliver dynamic and customised content to the user.
* Server-side scripting is required to access or store persistent data like user profile information. Whether that involves pulling data from a file server, database or mail server, it can all be done with a server-side scripting language like PHP.

One of the downsides of server-side scripting is that, simply put, it means more work for the server. Lots of scripts running on the server can result in slower performance, especially when client requests to the server occur frequently.