1. Implementation of Registration form in HTML.
2. Implementation static website in HTML
3. Implement Registration form with HTML and CSS
4. Implement static website with HTML and CSS
5. Implement a JavaScript program for form validation.
6. Implementation of AJAX by using GET and Post Method.
7. Implementation of AJAX example :
   a. Create a XMLHttpRequest with a callback function, and retrieve data from a TXT file.
8. Implementation of jQuery programs.
   a. Disable right click menu in html page using jquery.
   b. Disable/enable the form submit button.
   c. Make first word bold of all elements.
   d. How to detect whether the user has pressed 'Enter Key' using jQuery.
9. Implementation of simple program using jQuery with Ajax.
10. Implementation of all PHP programs available on Virtual Lab.
    http://vlabs.iitb.ac.in/vlabs-dev/labs/phplab/index.php

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Aim - Implementation of registration form in HTML

Theory -

Every developer must have have basic understanding of HTML, CSS, JS.

for responsive web design is used in all types of all web pages

when you feel comfortable with HTML CSS it time to dig deeper

You should learn how to map form & icon in html on JS how to access the DOM. Document object model

You should also learn how to use ajax fun for making several requests.

on CSS side you should choose a framework for responsive design Bootstrap / material design W3.CSS

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May be the property of jquery has passed the top but most used Javascript framework.

Backend Roadmap

full stack → SQL, PHP, ASP, python
full stack JS → SQL, Node.JS, MyJSQL, MongoDB

A full stack developer is a person who can develop both client and server. In addition to mastering HTML and CSS, he should know how to program web browser (using Angular, Vue, React)

→ Program server using (PHP, ASP, python, Node)

→ Program database using SQL, SQlite, MongoDB

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→ Client software → front end →

HTML, CSS, JS, Bootstrap, CSS, JS, ES6, HTML, DOM, JSON, XML, JQuery, Angular, React, Backbone JS, Ember.JS, Redux, Storybook, GraphQL, Meteor.JS, Count, Gulp.

→ server software → Back end →

PHP, ASP, C++, C#, JAVA, Python, Node.JS, Express.JS, Ruby, REST API, SQL, MongoDB, Firebase, LESS, Bootstrap, PaaS (Azure and Heroku)

Advantage of being full stack developer is you can master all technologies involved in a development project

Conclusion -

successfully implemented Registration form using HTML

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contact us at :nikhilchalikwar@gmail.com

First name:

Father name:

Last name:

Age:*

DOB: dd - - - - - yyyy

Gender: male female

Married?: yes no

Email:*

Mobile no.*

Address:

Subject: C language C++ Python Java

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Page No. [ ] Date :

Aim - Implementation of static website in HTML

Theory -

World wide Web Communication

HTTP stands for Hyper text transfer protocol, which is about communication between web client and servers communication between client computers and web servers is done by sending HTTP requests and HTTP responses. The world wide web is about communication between the clients and web servers.

The world wide web is about communication between web clients and web servers. clients are often browsers (chrome, Edge, safari) but they can be any of program or device, servers are most often computers in ~~cloud~~ cloud.

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HTTP Request / Response.

Communication between client and server is done by requests and response

A client a browser sends an HTTP request to the web. An web server receives the request. The server run an application to process the request. The server return an HTTP response. The client receive the response

The HTTP Request Cycle

The browser requests an HTML page. Then server return HTML file. The browser requests a style sheet. The server return CSS file. The browser request JPG image. The server return the JPG image. The browser request Javascript code. The server return JS file. The browser request data. The server return the XML or Json file

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HTML stands for Hyper text markup language for web pages. HTML was created by Berners-lee late 1991 but the 'HTML' 2.0 was the first functional HTML specification which published in 1995.

The HTML 4.01 was the major version of HTML and was published in late 1999 through HTML 4.01 version widely used but currently we have html 5 version is an extension to HTML 4.01 and this version was published in 2012.

Hypertext refers to the way in which web pages (HTML documents) are linked together. Thus the link available on a webpages is called Hypertext.

Conclusion -

Hence, successfully implemented static website using HTML

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repellendus ea perferendis. Commodi neque praesentium earum quo eius fugiat qui ex perferendis repudiandae. Ipsa
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usto ab vel sed autem veniam corporis fugiat blanditiis neque animi illo minima natus, saepe sunt quaerat dignissimo
erunt est quasi reprehenderit ab ad non nesciunt. Unde necessitatibus est iusto alias id iure quas beatae, assumenda v
nus, veniam quia totam iste optio repellendus voluptas et amet modi vel suscipit dolorum facere quod quisquam nob
niet iste aspernatur dolor incidunt qui? Ratione non corrupti harum laborum mollitia optio obcaecati dolore sint cons
uaerat facere velit quia. Temporibus laborum asperiores animi non aut magni, quo quasi deleniti, quidem reprehender
rcitationem suscipit velit, nam inventore, quibusdam vero necessitatibus sequi magnam explicabo error accusantium
, vitae illo voluptate soluta iusto architecto ex. Facere necessitatibus eligendi laboriosam ex enim optio. Perferendis
a! Quidem fugit illum quisquam, nisi illo adipisci! Nobis non, inventore nemo asperiores deleniti corporis est? Eius
te placeat impedit aspernatur doloribus vero iusto reprehenderit corrupti et repellendus? Aut voluptas perferendis ut
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Aim - Implement registration form using HTML and CSS

Theory -

HTML 5 is the major version of HTML standard superseding HTML 4.01 version XHTML 1.0 and XHTML 1.1.

HTML 5 is standard for structuring and presenting content on World Wide Web consortium (W3C) and the web Hypertext Application Technology working group (WHATWG)

The new standard incorporates feature like video playback and drag and drop that previously depend on the third party browser plugins such as Adobe Flash, MS Silverlight and Google Gears

Browser Support

The latest version of Apple Safari, Google

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Chrome, Mozilla Firefox and Opera all support many HTML5 features and Internet explorer 9.0 will also have support for HTML5 functionalities.

The mobile web browsers that come with pre installed on iPhones, iPads, and Android phones all have excellent support for HTML5.

New features

HTML5 introduces number of new features and attributes that can help you in building modern websites. Here is a set of some of the most prominent features introduced in HTML5.

* New semantic elements -
  Header, footer, section
* forms 2.0 - input tag
* persistent local storage -
* Websocket - Next gen communication
* server sent events -
* Canvas - Two dimensional drawing

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* Audio & video support
* Geo location - physical location
* Micro data - custom semantics
* Drag n drop support

HTML 5 action would use simple syntax to specify DOCTYPE as follows

<!DOCTYPE html>

encoding → UTF-8

HTML LAYOUT ELEMENTS -

<header> - define header

<nav> → navigation links

<section> - self contained content

<footer> - define footer

<details> - Additional details that user can open close

Conclusion

Hence successfully implemented form using HTML and CSS

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contact us at :nikhilchalikwar@gmail.com

ame:

name:

ame:

dd-----yyyy

r: male female

ed?: yes no

*

no.*

ss:

t: C language C++ Python Java

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Date :

Aim- Implement static website using HTML and CSS

Theory-

(Cascading style sheet)

CSS is a simple design language intended to simplify the process of making web development pages presentable.

CSS handle the look and presentation part of page.

CSS saves time you can write CSS once then you can reuse it again and again when ever it needed.

Page loads faster If you using CSS you do not need to write HTML tag attribute every time just write one CSS rule for tag it goes to all tags to implement style.

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A CSS consists of style that are interpreted by the browser and then applied to the corresponding elements

Rule

selector { property : value }

e.g.

table { border : 1px solid #000 ;
h1 { color : blue ; font-size : 12px ;

CSS Text

Text color The color property is used to set the color of the text

color "red"
Hex "#f000"
RGB "rgb (255, 20, 20)"

Text alignment -
A text can be left, right, centered or justified

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CSS (link)

(link) can be styled with ()

a: link → normal unvisited link

a: visited → visited link

a: hover → move over it

a: active → clicked it

Navigation Bar

Navigation bar → list of links

A Navigation bar needs HTML as base

A Navigation bar is example of <ul> and <li> element make the perfect sence

And CSS does provides the animation support @keyframes rules using CSS docs.

Conclusion-

Hence, implemented static website using HTML and CSS

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text in the paragraph will wrap around the image.

sambiguation). Cherry blossoms in Paris in full bloom. In botany, blossoms are the flowers of stone fruit trees (genu
ly, flowers of orange are referred to as such as well. Peach blossoms (including nectarine), most cherry blossoms, ar
soms are white.[1]

lination necessary for the trees to reproduce by producing fruit.[2] Blossom trees have a tendency to lose their flowe

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Aim - Implement form validation using Javascript

Theory

JAVASCRIPT

JAVAscript first mean as live script, but Netscape changed its name to Javascript

Javascript was introduced in 1995 as a way to add programs to web pages in Netscape Navigator browser. The language has since been adopted by all other major graphical web browser. It has made modern web application possible

JAVAscript frameworks

Angular, React, JQuery, Ext.JS, Ember.JS, Node.JS, Polymer, Backbone.JS, Electron.JS, NeJS.JS

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We can write the JS code in <script> tage placed in <head> tages.

<script>

JS code

</script>

sample code.

```
var Msg:
msg = "Nikhil Na";

var variableName = "Hello";
var message = "Hello";
var nu = 100;
```

the var used for global variable scope and let is used for local variable scope

```
const pi = 3.14;
```

used to set constant values in javascript.

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Data Types

* null
* undefined
* boolean
* number
* string
* symbol

And the most important type is Object. object type is very much complex.

Eg.

```
let foo = 120;
foo = 'nu';
foo = false
```

```
let foo = 'Nicu-nu'
foo = foo + 'phoenix'
foo = foo + 'belivar'
```

Also provide support for event listening.

Conclusion- successfully implemented form validation using JAVAscript.

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gn Up

ame

Last Name

rd

Confirm Password

UP

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Date :

Aim - Implement ajax using GET and POST method

Theory -

AJAX -

Asynchronous Javascript and XML Although X in Ajax stands for XML, Json is used more than XML now a days because it has many advantages as compared to XML. Both XML and Json are used in AJAX for packaging information in AJAX model

Use →

Update page without reloading page

Request data from server

Receive data from server

send data to server

Ajax uses XHTML for content CSS for presentation along with

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Document object model and Javascript for dynamic content display

Conventional web application transmit information to and from the server using synchronous requests. It means it can fill out the form hit submit and get directed to a webpage.

XML can be used as the format for receiving data although any format including plain text can be used.

AJAX is a web browser technology independent of web server software.

A user can continue to use the application while the client program request information from server from background.

Intuitive and natural user interaction. Clicking is not required, mouse movement is a sufficient event trigger.

Data driven as opposed to page driven

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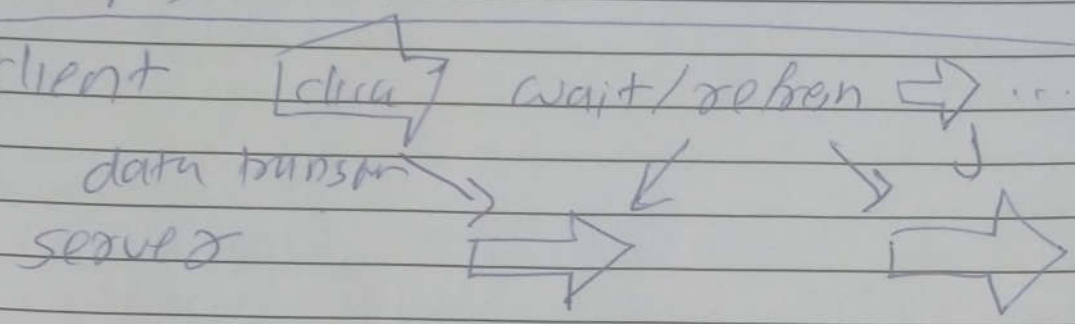
full page refresh



Conventional web applications transmit information to and from the server using synchronous requests. It means you can fill out a form and get directed to a new page with new information with information from server.

With Ajax when you hit submit Javascript will make request to the server interpret the result and accordingly update the content on the web page

conclusion-

Successfully implemented AJAX by using GET and POST method.

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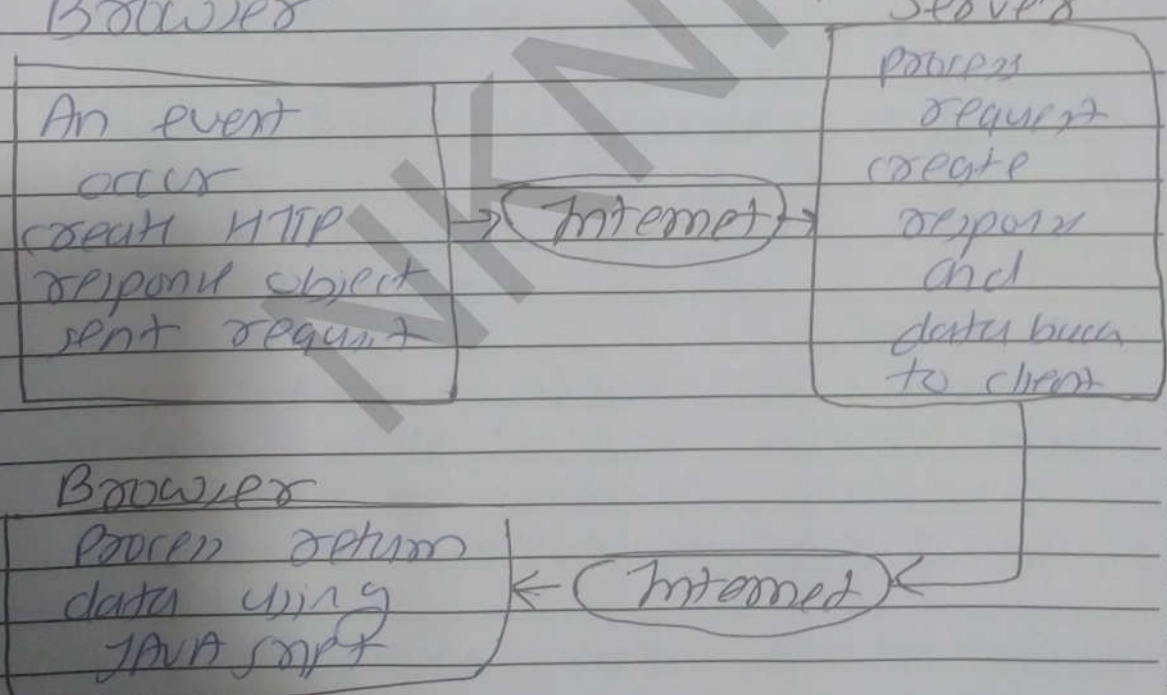
Aim - Implementation of Ajax Example
→

Theory -
create XMLHTTPREQUEST with callback function and retrive data from text file.

How AJAX Works



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1) An event occurs in a web page (the page is loaded a button is clicked)
2) An XML HTTP Request is created by the JavaScript
3) The HTTP request sent to the server
4) Server processes the request send back to the webpage
5) The response read by JS
6) proper action will be taken and performed by the JS.

The XMLHTTPRequest object

All browsers support the XMLHTTPRequest object

The XHRO used for exchange of data from client to server and server to client behind. without reloading the whole page

Create an XMLHTTPRequest object

All modern browser (chrome, firefox, IE7+, Edge, safari, opera)

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Have built in support for it.

Syntax for creating

XMLHttpRequest object :

variable = new XMLHttpRequest();

There are two types of methods open() and send() use of these methods explained below.

```
req.open("GET", "hn.php", true)
req.send();
req.open("GET", "hn.php?q=s", true)
req.send();
```

Conclusion-

Hence implemented AJAX example

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Aim

Implementation of Jquery program

Theory-

a) Disable right click menu using Jquery
b) Disable/enable form submit button
c) Make text word bold of an element

* Jquery

The purpose of Jquery is to make it much easier to use Javascript on your website. Jquery is a lightweight "write less, do more" Javascript library.

Jquery take a lot of common tasks that require many lines of Javascript code to accomplish and wraps them into methods that you can call with a single line of code

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Jquery also simplifies a lot of the complicated things from Javascript like AJAX calls and DOM manipulation

* Jquery library contains.

* HTML/DOM manipulation
* CSS manipulation
* HTML and animation
* AJAX
* Utilities

There are many JS libraries out there but Jquery is probably the most popular and also most extendable

Companies using Jquery

Google
Microsoft
IBM
Netflix

Adding Jquery to your webpages

There are several ways to add

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To add
Include Jquery from
Google CDN.
Downloading the
Jquery from Jquery.com
There are two version
of Jquery available to download

production version-
this is for your
live website because it has
been minified and compressed

Development version-
this is also
used for testing and development
purpose (uncompressed and
readable code)

Conclusion-
Hence successfully implemented
Jquery program.

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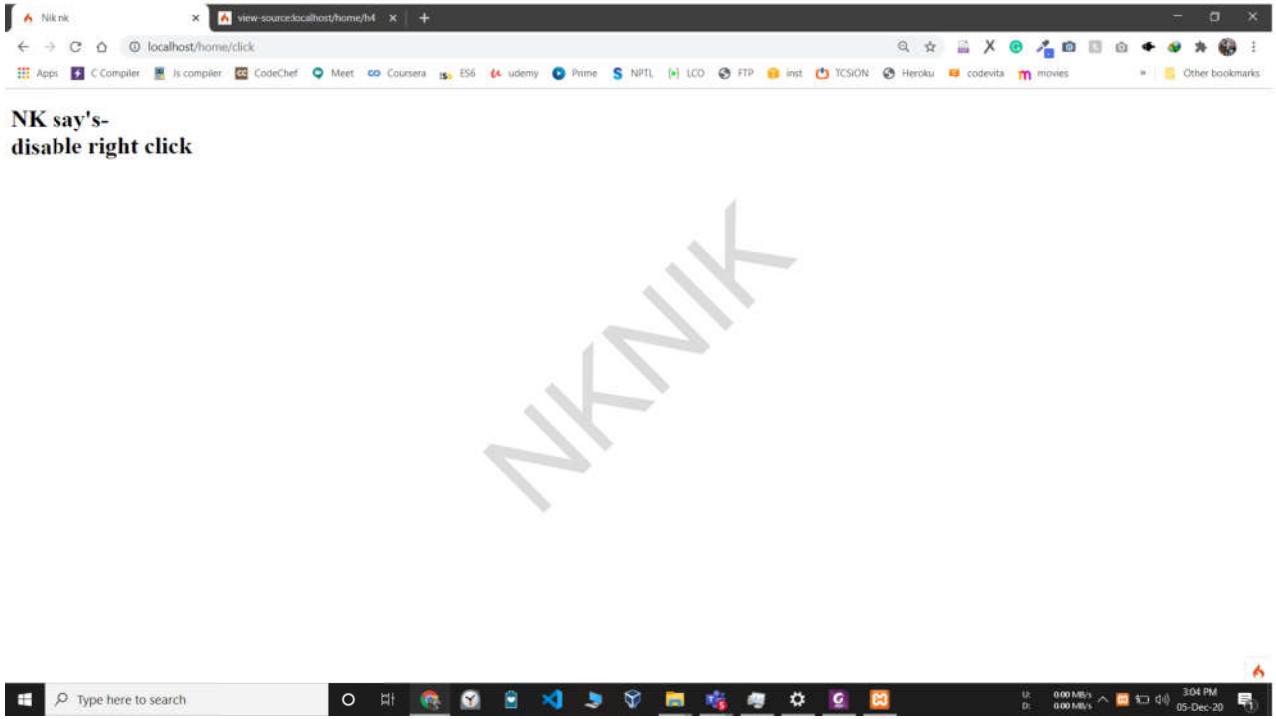
Nik nk
view-source:localhost/home/h4
localhost/home/click
Apps
C Compiler
Js compiler
CodeChef
Meet
Coursera
ES6
udemy
Prime
NPTL
LCO
FTP
inst
TCSION
Heroku
codevita
movies
Other bookmarks
NK say's-
disable right click
NKNIK
Type here to search
3:04 PM
05-Dec-20

After lockdown you are going to give me treat

I do Promice

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Aim -

Implementation of simple program using Jquery and Ajax

Theory -

The Jquery library is a single Javascript file and you reference it with the HTML <script> tag (notice that the <script> tag should be in <head> tag.

```
<head>
  <script src="jquery.js">
    </>
  <l>
```

place the downloaded file in the same directory as the pages where you with to use it.

Jquery CDN

If you don't want to download and Jquery then you can include it from a CDN

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content delivery network :-

Google CDN

<head>
<script>
src= ..... CDN ....
</>
</>

The Jquery syntax is tailor made for selecting HTML elements and perform some action on the elements

Basic syntax $(selector).action()

A $ sign to define/access Jquery
A (selector) to "query (or find) HTML elements.
A Jquery action() to be performed on the elements

Example

$(this).hide() - hide current element

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$ ("p").hide()- hide all <p> elements

$ (".test").hide()- hides all elements with class = "test".

$ ("#test").hide()- hides the element with id = "test".

The document Ready Event.

You might have noticed that all jquery method in our examples are inside a document ready event.

$ jquery.

$ (document).ready(function(){

// Jquery method go here...

});

This is to prevent any Jquery from running the hinted loading

Conclusion -

Hence successfully implemented simple program using Jquery and Ajax.

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Page No. [ ] Date :

Aim -

Implementation of program of PHP on virtual lab.

Theory -

PHP -

PHP is a server scripting language and a powerful tool for making dynamic and interactive web pages.

PHP is widely-used, free and efficient alternative to competitors such as microsoft ASP

PHP 7 is latest stable release

PHP code is executed on the server

PHP is an acronym for PHP: Hypertext preprocessor

PHP used for large scale open source scripting language

It is powerfull enough to be at the core of biggest blogging system on web (wordpress)

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It is deep enough to run world largest social network (facebook).

* It is also easy to beginner but reversible programming language

* What is a PHP file?

→ PHP files can contain text, HTML, CSS, JS, PHP code
→ PHP code can be executed on server
→ PHP code can executed on server and the result it returned to browser as plain HTML
→ PHP files have extension ".PHP"

* What can PHP do?

→ PHP can generate dynamic page content
→ PHP can create, open, read, write, delete and close files on the server.
→ PHP can collect the form data.

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→ PHP can send and receive cookies
→ PHP can add, delete, modify database
→ PHP can used to control user access
→ PHP can encrypt data
→ with PHP you are not limited to output HTML. You can output Image HTML files, PDF files and even flash movies. You can even flash movies you can output any text, such as XHTML and XML

Why PHP?
→ PHP runs over various platforms (windows, linux, mac os, x etc)
→ PHP is compatible with almost all servers used today (Apache, IIS etc)
→ PHP support wide range of Databases
→ PHP is free, available to download
→ PHP is easy to learn and runs efficiently server side

Conclusion -
Hence, successfully implemented PHP programs on Xlab

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