

Website Development technologies, platforms and Optimization Using Xampp/PHP

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ABSTRACT-

Website is a collection of web pages that is dedicated to a particular purpose. These created website will be published on a web server and accessed by the user through web browser. In this we discuss about the technology used for web development. Comparison of popular platforms in the development, technologies that are used at the client side and server side of a web application, web development life cycle and also about the local host Xampp tool .net.

Keywords:- Xampp tool, Life cycle, Technologies, Platforms, Development.

INTRODUCTION

Web development is developing the website for the web application like social network services, business that is E-commerce development. Web development resembles the construction of the building such as requirements, specification, design, and development.

Web Development Process:

Various Steps consider in Website Development Process:

- Analysis
- Specification
- Design & Development
- Content Writing
- Coding
- Testing & Security
- Deployment & promotion
- Maintenance

Analysis: Analyzing the project goal and its feasibility amongst the client and the web development services etc.

Specification: Specifying the requirements needed for the development of the web site like functions, operations, language has to be used, tools etc.

Design and Development: Designing the procedure to develop the web site, developing the website as per the designing. Designing the website in most impressive and efficient way using graphical elements like color, image we create colorful page layouts.

Content writing: Content writing plays a important role in attracting the user. The

content should be related and meaningful with respect to the website.

Coding: Coding is used to build the website. Coding start of a Web Pages in CSS, HTML,PHP, Java scripts and other technologies of WWW for drawing of the graphic and text contents. It adds special features and interactivity with the user.

Testing and Security: In testing we test the created website, we review the coding and check out the bugs present and debug if there and upload. Security is given to the user for their data.

Deployment & Promotion: The created website has to be executed. To make use of the website it is necessary to promote. we can do website promotion that are listed below:

1. E-mails
2. Social media
3. Web logs
4. Articles
5. Blog

Maintenance: We have to maintain the developed website by checking its working and updated the website as per the requirements of the users.

Objectives

The goals related with the work are given here:

- The target of work is update in necessity will be simple.
- The goal of work as spare the spaceutilizationon neighbourhoodhostand investigations standpoint execution.
- The target of work is to incorporate the different strategy for enhancement of work.
- The target of work is as improve the precision and strength of work.

LITERATURE SURVEY

Kaminietal. This paper likewise depict the utilization of mean stack for speak with IOT (web of things) gadgets. JavaScript is utilized as scripting language for customer side programming that runs in any strong program.

Bonny Alex Ninan, et al.: The objective of this paper to analyze the utilization of applying the person to person communication innovations in Education Institutes.

METHODOLOGY

In this we are discussing about the web development using a Xampp server. To develop a website we have to follow the life cycle of the development process and technologies used for the development as mentioned above.

Xampp: It is a free and open source cross platform web sever solution. Xampp stands for Cross platform, Apache, Mysql, PHP and Perl. It is used to test our website locally. Designers use Xampp as a development tool, to allow website designers and programmers to test their work on their own computers without any access of internet. It also provide support for creating and manipulating databases in Mysql.

Here we have the screenshot of (fig.1) Xampp after installation of Xampp tool and (fig.2) home page of the index code for designing the website in a PHP language.

Because of this work, we have an interactive, flexible and usable website. After using these amazing and quick responsible things addition, now we can able to pick out all those things in this work. Using a Local server Xampp and for development PHP programming language is used.

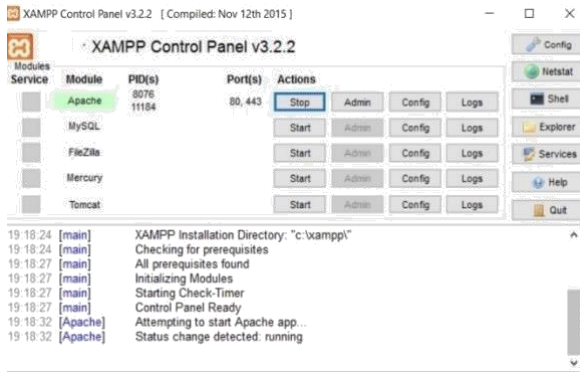


Fig.1 Screenshot of Xampp

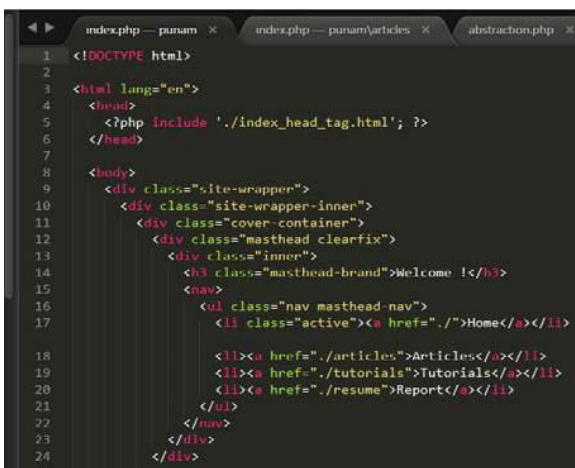


Fig.2 Screenshot of Home page

Technology used for web development:

Browsers: Browsers are the interpreters of the web.

HTML: It is a markup language that provides a structure of a website.

CSS: It is a cascading style sheet used to design the webpage like color, images, animation etc.

Programming languages: It is used for coding. It helps to create the logic of websites and application.

Frameworks: It is build to make building and working with programming languages.

Database: It is used to store the data in a proper manner.

Protocols: These are standardized instruction to pass information back and forth between the devices.

Comparison of three popular plat forms in development:

Development of web application can be done in so many plat forms, next we compare the three most popular platforms namely Linux / Apache / MySQL / PHP (LAMP) vs. Microsoft’s ASP.NET vs. Sun’s Java 2 Enterprise Edition (J2EE) flat forms. The results of the comparison can be found in Table.1. (Hanley, 2011)

Criteria	PHP	ASP.NET	J2EE
Licensing cost	No licensing cost	Expensive licensing Cost	No licensing cos
Platform(s)	Multiple	Only windows	Multiples
Hardware cost	Runs on very Inexpensive servers	Requires slightly more Expensive servers	Requires expens Servers
Staffing	Somewhat difficult to Find qualified people In this domain	Very easy to find Qualified people in This domain	We can find qualified People reasonab
Security	Good	Improved	Good
Performance	Very good	Often requires more Expensive hardware To Perform well	Often requires Substantial Configured prop
Scalability	Scales very well	Difficult to scale	Scales well Configured prop
Administration	Difficult : often Requires Reading Documentation And editing text files	Easy: often can be Done through point And Click interface	Moderate : Sometimes Can be done vis
Configuration Flexibility	Can be difficult to Configure properly	Easy to configure	Moderately diffi To configure
Frameworks	Many available often Difficult to choose	One standardized Framework	One standardize frame work
Components	Widely available	Widely available	Widely available
Compatibility	Very good : New Versions usually Backwards Compatible	Moderate: New versions often break functionality	Bad: many prob between old and Versions

From the contents in Table 1, we can make the following recommendations

1. If the project has short budget, then use PHP platform.
2. If security of application is most important, then use PHP or J2EE platform.
3. If the project has to be in more compatible mode, then use PHP platform.

4. If the project is large, then use ASP.NET platform.
5. If clients want configuration flexibility, then use ASP.NET platform.
6. If client wants high performance project, then use ASP.NET platform
7. If the project has more time and high budget, then use J2EE.

CONCLUSION

Here we get to know the development process of the web development, technologies used for developing a website. About the Xampp and usage of the Xampp tool, comparison of the platforms allow the developer to select the best platform based on his requirement for the web development. In this we discussed about the basic knowledge the developer must know to develop a website.

REFERENCE

- Asha mandava and Saloman antony, “ review and analysis of technologies for developing web application”, conference paper, march 2012.
- “Website development optimization using Xampp/PHP”, punam kumar and rainu nandal, research paper june 2017.
- www.google.com
- en.m.wikipedia.org
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