



Girls in ICT Day 2020 Workshops

Title: Expanding Horizons and Changing Attitudes

Workshop Title: Basic web design and Development

Location: Online- BY Zoom,

Date & Time: 18th of April 2020, 8:00am to 11:00am

Instructor: Eng. AbdulHadi Nur & Eng. Abdifatah Farah

A workshop on: Basic web design and Development

Eng. AbdulHadi Nur and Eng. Abdifatah Farah

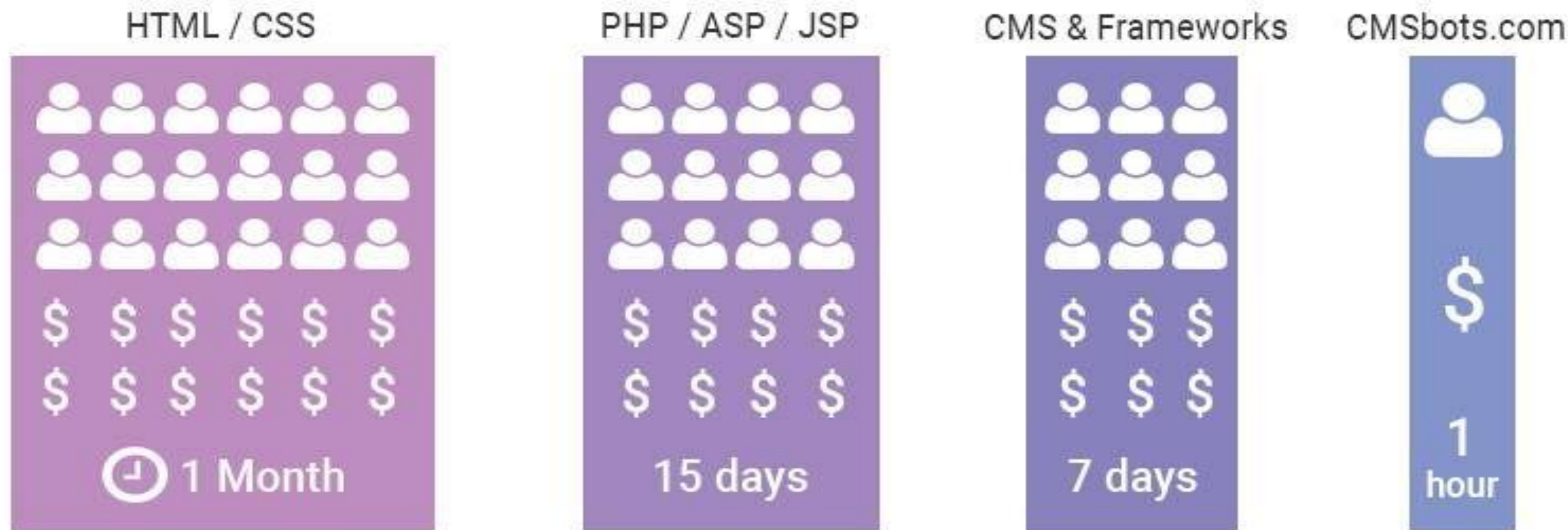


Web Development Life Cycle



Evolution of Web development

Time, Effort and Cost Estimation of a web development project in different period of time.



cmsbots.com

What Is Content Management System?

Content Management System (CMS) can be defined as a tool or software program containing a set of interrelated programs used for creating and managing different digital or online content. Some famous examples of CMS software are Joomla, Drupal, WordPress, TYPO3, etc.

In the majority of the cases, it can support many users, letting them work in the association. For example, WordPress makes it possible to create many administrative users, where each one has different privileges hence making the work progress in parallel. Content management systems also comprise of text as well as the layout and design features like the facility to upload multimedia content like photos, videos, audio, maps, or even any source code.



CMS



Content



Data



Network



Website



Administrator



Domain



Open Source



PDF-HTML

Components of Content Management System

A content management system is composed of two major components. These are:

- A content management application (CMA) is a graphical user interface that allows its users to create, delete, modify, and publish content even without the knowledge of HTML or other programming languages that are necessary to create web pages.
- A content delivery application (CDA) is responsible for the back-end services. It manages as well as delivers content after framed in the CMA.



Features of Content Management System

1. **User Management:** This permits the management of user information like the roles of different users allotted to work simultaneously, such as creating or deleting the user, change the username, password, and other related information.
2. **Theme System:** This allows us to modify the site view as well as functionality using stylesheets, images, and templates.
3. **Extending Plugins:** Different plugins are offered, which gives custom functionalities and features to create the CMS site.
4. **Search Engine Optimization:** It is embedded with a lot of search engine optimization (SEO) tools making content SEO more straightforward.
5. **Media Management:** is used for managing the media files and folder, with uploading media contents easy and effortless.
6. **Multilingual:** Translation of the language, as preferred by the user, is possible through CMS.



Advantages of Content Management System

- Most of the CMS is open source and is available for free.
- Easy and quick uploading of media files can be done.
- Several SEO tools make on-site SEO simpler.
- Easy customization is possible as per the need of the user.
- It can modify CSS files as per the design needed by the user.
- Many templates and plugins are available for free. Customization of plugins is also possible.
- Content editing is also more comfortable as it uses the WYSIWYG editor.



Disadvantages of Content Management System

- CMS software needs a time-to-time update, and hence the user needs to look out for an updated version.
- The use of different plugins can make your website heavy and challenging to run.
- CMS hosting is quite expensive.



What is WordPress?

WordPress can be defined as an open-source CMS that has been licensed under GPLv2. It means anyone has the right to use as well as modify the WordPress software for free. It can be considered as a tool that makes the life of content publishers easy to manage an essential portion of the website like website content, and multimedia files in web pages without having prior knowledge of web programming. The ultimate result is that WordPress helps develop and build a website handy for anyone, even without the skill set of a developer.



WORDPRESS USAGE WITHIN TOP 100K INTERNET SITES



1.9%
1910 sites



2.6%
2611 sites



11.2%

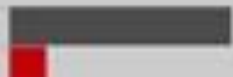
11184 sites

WordPress 3.2 has been downloaded
5,062,979 times

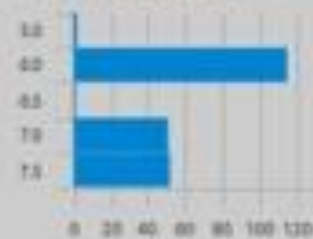
Exploits for wordpress core and plugins released publicly by month.

■ CORE
■ PLUGINS

2011-06
2011-07



Microsoft IIS



APACHE
74.6%

Apache Major Version



2.0%

nginx
16.6%

3.6%

0.1

lighttpd

2.0%

other

litespeed



Features of WordPress

- WordPress is considered to be the most popular content management system due to its characteristics.
- The most important features of WordPress are that you can create a dynamic website without any programming and design knowledge.
- WordPress is theme-based, which provides you options for various open-source and premium design themes, which can be integrated easily without any designing knowledge.
- Plugins extend the functionality of WordPress, which can be used to add new required modules.
- WordPress sites are search engine optimization (SEO) friendly, and it means sites built-in WordPress can be easily optimized for search engine listings.
- WordPress is Multilingual, which allows users to translate content in their language.
- WordPress has an inbuilt Media Management System, which is used to manage images, music, documents, etc. and can be used with text content.



Advantages of WordPress

- WordPress is free and an open-source platform under the GNU General Public License (GPL).
- Design themes customization in WordPress is straightforward.
- It allows you to manage users with different roles and permissions.
- WordPress media management is quick and easy to use.
- WordPress provides WYSIWYG editor to manage your text content, which is very useful for manipulating the layout of the document.



WordPress.com and WordPress.org

The two ways through which WordPress allows you to host a site is by WordPress.com and WordPress.org. The primary thing which varies with these two approaches is the real host. By making use of WordPress.org, you might download the script free of charge and host it on a local machine or in any server. Byt, in case of WordPress.com, it takes care of every aspect, right form hosting the site for you to providing features for managing the content. You don't have to organize a web server or pay for hosting or even download any application, but yes, ads will be shown on your site.



END

