

## Word Press Web Application Development

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**Abstract-** Word Press is open-source software you can use to create a beautiful website, blog or application beautiful design, powerful features and the freedom to build anything you want. Word press is both free and priceless at same time. Word Press allows users to build dynamic websites and blogs that may be updated, customized and managed from its back-end CMS (Component Management System) and components. Word Press is one of the world's most popular publishing platforms. It's highly customizable, very easy to use and it's completely free, making it an obvious choice for anything from a simple blog to an online design portfolio.

**Index Terms-** open-source, free and priceless, CMS, dynamic, blogs, customizable, online design portfolio.

### 1. INTRODUCTION

In 2003, Word Press was created as a successor by Mike Little and Matt Mullenweg. There are over 73 million Word Press sites in the world and 300+ million people view 2.5+ billion pages each month. It is provided as a hosted or self-hosted Web blogging platform. Word Press is built on PHP, supported by MySQL and integrates with a variety of features and tools used to design, develop and manage websites. Word Press provides easily useable proprietary and themes, plug-ins and widgets that providing enhanced user features, including the ability to customize code, build search engine friendly internal-links and tagging. WordPress was designed to be extended and adaptable to the different needs of different people.

Word Press started with a single bit of code to enhance the typography of everyday. Word Press is a content management system which allows you to manage a website without the requirement for knowing HTML coding. WordPress distinguishes itself with a broad array of hosting options, functional extensions (plugins), and attractive designs and elements (themes). With the rise of self-publishing, low-cost web hosting, and freely available core components like the MySQL database, blogging software followed the same trend as most other digital technologies, moving from high-end, high-cost products to widely available, low-cost consumer or “hobbyist” systems. Akismet is a robust, Automatic-hosted spam detection and protection service with a statistically (and incredibly) low failure-to-detect rate. Previously known as WordPress MU, multi-site WordPress functions are at the heart of the wordpress.com hosting system and are now merged into the main WordPress source tree.

As a content management system, the WordPress system definition doesn't stop at time-serialized posts with comments. BuddyPress is a set of themes and plugins that extends WordPress into a functional social networking platform, allowing registered users to message and interact with each other, again with all content managed within the WordPress framework.

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#### 2.1. What is word press?

WordPress is publishing software with a focus on ease of use, speed, and a great user experience. WordPress is blessed with an active community, which is the heart of open source software. WordPress is a free and open-source content management system (CMS) based on PHP and MySQL.

#### 2.2. Install Word Press with Wamp Server

##### 2.2.1. Downloading Wamp Server

- Download the installer file for the [latest version of Wamp Server](#), and save the file to your computer. Make sure you select the correct installer file for your version of Windows. If you don't know if your system is 32-bit or 64-

bit, right-click on My Computer, and then click Properties.

### 2.2.2. Installing Wamp Server

- To start the installation process, you need to open the folder where you saved the file, and double-click the installer file. A security warning window will open, asking if you are sure you want to run this file. Click Run to start the installation process.
- Next you will see the Welcome to The Wamp Server Setup Wizard screen. Click Next to continue the installation.
- The next screen you are presented with is the License Agreement. Read the agreement, check the radio button next to I accept the agreement, then click Next to continue the installation.
- Next you will see the Select Destination Location screen. Unless you would like to install Wamp Server on another drive, you should not need to change anything. Click Next to continue.
- Next you will see the Ready to Install screen. You can review your setup choices, and change any of them by clicking Back to the appropriate screen, if you choose to. Once you have reviewed your choices, click Install to continue.
- Once the files are extracted, you will be asked to select your default browser. Wamp Server defaults to Internet Explorer upon opening the local file browser window.
- A Windows Security Alert window will open, saying that Windows Firewall has blocked some features of the program. Check whether you want to allow Apache HTTP Server to communicate on a private or public network, then click Allow Access.
- The Setup screen will appear next, showing you the status of the installation process.
- Once the progress bar is completely green, the PHP Mail Parameters screen will appear. Leave the SMTP server as localhost, and change the email address to one of your choosing. Click Next to continue.
- The Installation Complete screen will now appear. Check the Launch Wamp Server Now box, then click Finish to complete the installation.
- You should see the Wamp Server icon appear in the systray on the right side of your

taskbar. If the icon is green, then everything is working properly. If the icon is orange, then there are issues with one of the services. If the icon is red, then both Apache and MySQL services aren't running. You will need to resolve those issues before continuing.

### 2.2.3. Creating a MySQL Database with Wamp Server

- Creating a database in Wamp Server is done via phpMyAdmin. You can access phpMyAdmin by entering <http://localhost/phpmyadmin/> in your web browser.
- The main phpMyAdmin screen will appear. On the left is a list of databases that already exist: information schema, MySQL, performance schema, and test. Do not delete these, as they are necessary for Wamp Server and phpMyAdmin to run properly.
- To create a database, click Databases in the main navbar at the top.

### 2.2.4. Shutting Down Wamp Server

- To shut down Wamp Server, click on the systray icon and select Stop All Services to shut down the Apache and MySQL services. The icon will turn red once all services have been shut down.

## 3. Word Press Features

WordPress is a powerful semantic publishing platform, and it comes with a great set of features design to make your experience as a publisher on the internet as easy pleasant, and appealing as possible. We are proud to offer you a freely distributed, standards-compliant, fast, light, and free content management system, with sensible default settings and features, and an extremely customizable core.

The features that come standard with word press, however there are literally tens of thousands of plugins that extend what word press does, so the actual functionality is nearly limitless. That is the beauty of free software, free meaning not only price but also the freedom to have complete control over it.

- Easy to use.

- Time travel.
- Drag and Drop administration.
- Dynamic page generation.
- Spam protection.
- License platform and philosophy.

#### **4. Set Up Word Press**

To help you understand how all the various features and screens on the word press administration panel's work, checkout the administration screens guide for a detailed walkthrough. for help on creating your user profile information of which some or all may appear on your word press theme, see the user > your profile pages for guidance. to set the site name and other information, go to administration > settings > general. After you have published a few posts you can experiment with the full edit or quick edit features in the Administration > Posts > Posts panel. Add your "about", contact, and other information pages by going to administration > pages > add new. Want to change the look and feel of your word press site? Go to Administration > Appearance > Themes.

#### **5. Appearance and Themes**

##### **5.1. Appearance**

Appearance section is theme based. The various Appearance menus allow you to change how your site looks and behaves. If your site has been setup for you by a third party then it is more than likely that you would not need to change any of the setting in here. Appearance contain following contents

- Themes
- Customize
- Widget
- Menus
- Header
- Background
- Editor

##### **5.2. Themes**

The word press theme changes the design of your website, often including its layout. Themes take a content and data stored by word press and display it in the browser.

When you create a word press theme, you decide how that content looks and it displaying. Theme have different layouts, such as static or responsive, using one column or two. Good themes improve engagement with your website's content in addition to being beautiful. one of the best places to download Word Press Themes in the WordPress.org Theme directory.



#### **6. Word Press Plugins**

Plugins are ways to extend and add to the functionality that already exists in word press. There are many "add-on" scripts and programs for word press called Plugins that add more capabilities, choices, and options to your word press site. Word press plugins do many things including customizing the results of your site information, adding weather reports, adding spell check capability, and presenting custom lists of posts and acronyms.

The following two default plugins are included in Word Press:

##### **1. Akismet**

Akismet checks your comments against the Akismet web service to see if they look like spam or not. You can review the spam it catches under "Manage" and it automatically deletes old spam after 15 days. See all of the features in Akismet here:

<http://wordpress.org/plugins/akismet/>

##### **2. Hello Dolly**

This is not just a plugin, it symbolizes the hope and enthusiasm of an entire generation summed up in two words sung most famously by Louis Armstrong. Hello Dolly this is by the way, world first official WordPress plugin.

## 7. Advanced Use of Word Press

Now that you are familiar with the basic features and functions of how WordPress works, it might be time for you to plunge deeper into the power of WordPress. The links below will expand your familiarity with PHP, HTML, X HTML, and CSS:

- WordPress features and functions
- Photo blogs and Galleries
- WordPress advance techniques
- WordPress server and database information
- Developer documentation

## CONCLUSION

The frontend of an application presents the backend data to the user in an interactive way. The possibility of requesting for frontend changes of an application is relatively high as compared to the backend. Therefore, it's important to make the application's design as stylish and as flexible as possible. Advanced web applications will require complex layouts that can be extended by new fe

atures. We also had a look at the integration of custom hooks with widgetized areas while building the most basic home page for the portfolio application. A navigation menu is vital for providing access to templates based on user roles and permissions. Here, we looked at how we can create separate frontend menus based on user roles and how to display them on the frontend.

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