

# Deploying an Lottery Results Website Using CMS

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**ABSTRACT:** Nowadays, a company's website plays an important role in its production and business. It helps promote the products, introduce the company profile and provide information on its activities. As not everybody in a company is an IT expert, a company needs easy-to-use software to help manage and control its website content with less technical knowledge. One of the best solutions for such is the use of Content Management Systems (CMSs). This study aimed at performing a comparative analysis of two most commonly used CMSs, drupal and joomla, based on certain parameters, stating their criteria and suggest which is best suitable for the specified functionalities. Two online shopping web applications were created with the same functionalities using Drupal and Joomla. Sampled users were employed to visit the sites and later filled an online questionnaire to capture their view and GTmetrix was also used to analysis the technical aspect of the two web applications. The result of the analysis based on users perspectives shows that, in terms of E-commerce solutions such as online shopping, drupal is more modular ready platform and can easily configured for the needs with more powerful modules such as commerce kickstart, ubercart. Joomla tend to be more content publishing friendly platform and while it may be quicker to set up in the long run, it will be less featured without putting in an extra effort. The result of the technical analysis shows that in a site page with only textual information, drupal gives faster response and load on time since the page did not use any javascript file, so drupal is giving its best for the site having textual information.

**KEYWORDS:** Drupal, Joomla, GTmetric, Content Management Systems

## I.INTRODUCTION

Nowadays, a company's website plays an important role in its production and business. It helps promote the products, introduce the company profile and provide information on its activities. As not everybody in a company is an IT expert, a company needs easy-to-use software to help manage and control its website without technical knowledge. One of the best solutions for such is Content Management Systems (CMSs). A CMS is a computer application that allows publishing, editing and modifying contents, organizing, deleting as well as maintenance from central interface. CMS are often used to run websites containing blogs, news and shopping. A CMS provides the necessary infrastructure for multiple persons to effectively contribute content and collaborate throughout these life Content Management Systems Content Management Systems Content Management Systems cycles. With the growth of the internet, fundamental CMS needs have also grown, no longer can information be published online in a manual process and be left unattended. Choosing the best content management system for your website is a very big decision, a lot of people and organizations uses quite vague criteria to help them make this important decision. Without a clearly defined set of requirements, you will be immersed by fancy functionality that you will never get to use. A CMS will be a company's critical tool for showcasing their products, services, and opinion online. It will also be the strategic tool use by the marketing and Search Engine Optimization (SEO) functions within a business. Each CMS may have unique procedures to manage workflow. Some users uses inappropriate CMS for sites with specified functions and features since they do not have vast knowledge of the type of CMS they tend to use, they just pick one of the CMSs . In other not to make effort wasted, this project will study the requirement of both CMSs, Drupal and Joomla, which will make user choose the best suitable CMS applications for their websites depending on how they want it to be, features to be included, number of users who will be operating it. This project will give broad understanding of two particular CMSs, Drupal and Joomla, since they are the most commonly used content management systems. CMS Content Management System is a computer application. CMSs are mostly used to develop web application containing blogs, news, events and shopping. Many Govt. Organization, Corporate, Shopping and Marketing website use CMS. CMS is normally used to avoid to write the code. CMS provide the default structure of the website in which one has to create page, articles, news etc. and put the content in that and CMS automatically display the

contents on the website[1]. A content management system (CMS) is a stand-alone application to create, manage and the store content. As we know that a webpage's have text, graphics, photos, video, audio etc that display content or interacts with the user. CMS provides all above inbuilt features and many more.

## II.RELATED WORKS

According to Bryan ruby(2013) who quoted justinkerr, Robert nowak, jet pixel(2013) said that writing a comparison of any two content management systems can be challenging. This is especially true when the CMSs in the comparison are open source and each CMS has a legion of followers ready to pounce on anything you write that they perceived as false. According to Trey Gardner (2013), in cost conclusions, Joomla default support for basic content types and a structural hierarchy makes it much faster and less expensive to implement structured sites content. Most Joomla sites employ its general-purpose article content type as the main method for containing the web page content, and use the default categories/subcategories systems to keep things organized. In contrast, drupal sites require implementers to plan and create content types first before meaningful content build-out can begin. This process takes at least a handful of hours; much longer for sites with specialized content items and complex content relationships. In general, drupal site structural build-out will take at least 50 percent more time than conducting the equivalent work on joomla sites. Since both these CMSs are highly competent on individual basis, it is necessary to go a step deeper to analyze their differences. The comparisons are: technical expertise, standard of sites, highlights, best suited cases, caching, versions, security, and support. In short, both drupal and joomla are equally competing with the availability of the vast number of additional extensions and modules. It is at your discretion to choose the CMS that best suit your requirement.

## III.IMPLEMENTATION

### Different Content Management System

Content Management Systems are traditionally implemented as document/information 'repositories' of information – generally a content storage location powered by a database technology, with rigorous security controls on the repository to control and audit access to the information stored within. These controls encompass things like:

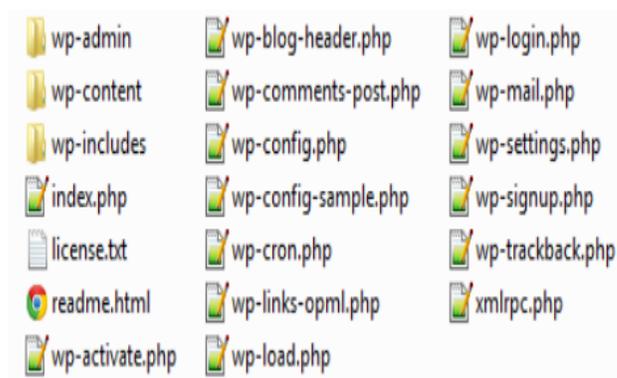
#### WORDPRESS

Word press is a completely free open source used to create dynamic website very fast in a limited budget. Originally, Wordpress was developed for creating Blogging software, fastest news updates from over website speedrafter.com

#### WHAT IS A BLOG

A blog is a type of website or part of a website that is maintained on regular basis by it owner reviews, opinions, and video. In the verb form "BLOGING" means to post to your blog[1] . Wordpress is an open source blogging tool powered by PHP and uses MySQL as the backend. Wordpress can be customized into a content management system. Easy to install and configure the files which allows businesses to set up and run a website or blog atless price. [1] .

#### WORDPRESS FILE STRUCTURE



#### Drupal

Drupal is a free software package that allows anyone to easily publish, manage and organize a wide variety of content on a website. Hundreds of thousands of people and organizations are using Drupal to power an endless variety of sites. Drupal

you can easily build many different types of web pages - from simple web blogs to large online communities. Drupal design is not as fancy as this of Joomla!, but it is very easy to customize, has built-in search tool and search-engine friendly URL's as an extra module, discussion capabilities and news aggregator. [8].

### **Joomla**

Joomla is an award-winning content management system, which enables you to build Web sites and powerful online applications. Many aspects, including its ease-of-use and extensibility, have made Joomla the most popular Web site software available. Best of all, Joomla is an open source solution that is freely available to everyone. Joomla is one of the best and most widely used CMS applications. It is suitable for creating corporate websites or intranets, online magazines, community-based portals and more. It has numerous built-in features as well as a large selection of extra modules and components which will enhance the value of your website and will enrich your visitors' experience. [8]

speedraftaar.com is a India's news and educational blog that brings its viewers the best and quickest information in all of India. We are at the forefront of information technology. The blog shares updated material related to on-going news and education in just a few clicks. Our mission is to provide you with the best available knowledge and in the quickest manner possible. Speedraftaar makes it easier for our readers to navigate through the website, saving their time and money [11]

Speedraftaar Informative LLP was launched on the 25th of June 2019. Its founder, Meerja Maqbul Baig, is a passionate blogger and a professional web developer who started out the blog as a way to reach out to society and lend a helping hand. His love for the latest technology and blogging has been projected well within Speedraftaar itself. Speedraftaar has the privilege of having two more co-founders, MD Abdul and Mohammad Ashwaq. Two brilliant creative content and web developers. The founders have been into the blogging and web development sectors for years before they decided to come up with a blog site which would ease the troubles of many Indians when looking out for jobs and students who find it difficult to scan through tons of sites before they find the right ones to help them out. The co-founders' creative flair along with Meerja's background in IT development has propelled Speedraftaar to great heights in just a short period of time.[11]

Our mission is to provide you with the best available knowledge and in the quickest manner possible. Speedraftaar makes it easier for our readers to navigate through the website, saving their time and money. We aim to provide a vast range of content which is authentic and up to date without fail. We at Speedraftaar are passionate about sharing knowledge with viewers, thus we ensure that this fountain of knowledge never dries up! Our sole aim is to ease the lives of hardworking students and job seekers who spend a great deal of resources into achieving their goals. The founders work tirelessly to make Speedraftaar a unique hub of knowledge for the Indian people where information is abundant and easy to understand. Speedraftaar hopes that someday all types of information will be free and easily accessible everywhere in India. We aim to reinvigorate and encourage learning and struggle in the Indian population to propel the nation to success! We hope you take as much advantage as possible from us. Don't forget to bookmark the website to keep up with the latest updates and learn more![11]

## **IV.PERFORMANCE ANALYSIS AND RESULT**

In testing the two web applications, an online questionnaire was created. After the development of the two web apps, sample users were employed to surf through the two web applications at different time and location and later filled the online questionnaire in order to capture their view. The table below shows the result of the analysis based on the users

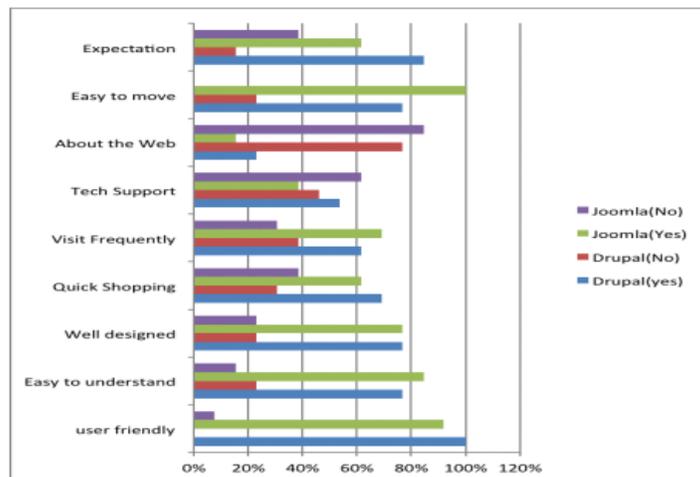


PERFORMANCE ANALYSIS AND RESULT IN COMPARISM OF DRUPAL AND JOOMLA CMS				
CRITERIAS	DRUPAL(YES)	DRUPAL (NO)	JOOMLA (YES)	JOOMLA (NO)
SITES MET TO THEIR EXPECTATIONS	84.60%	15.38%	61.50%	38.46%
EASY TO MOVE FROM ONE PAGE TO ANOTHER	79.80%	15.38%	100%	0%
KNOW ABOUT THE WEBSITE	23.70%	76.90%	15.38%	84.60%
TECHNICAL SUPPROT	53.80%	46.18%	38.46%	61.50%
VISIT FREQUENTLY	61.50%	38.46%	69.20%	30.70%
QUICK SHOPPING	69.20%	30.70%	61.50%	38.46%
WELL DESIGNED	76.90%	23.10%	76.90%	23.10%
EASY TO UNDERSTAND	76.90%	23.10%	84.60%	15.38%
USER FRIENDLY	100%	0%	92%	7.69%

The below chart represent the table above

### V.CONCLUSION

In the software development business today, Content management systems (CMS) is a valuable tool that helps Organisations deliver targeted information for visitors interested in their products and services, there are many software packages available; however selecting a CMS is sometimes difficult because trend and evaluation data does not always coexist in the same reports and it can easily be concluded that these CMSs work best for certain functionalities. In the aspect of joomla, if the site you want involves serving of various pages and blog-like while keeping to a consistent style and the ability to author page easily, joomla will fit your needs, it work best when building simple site and more suitable for a non-IT person who intend to be the administrator of his/her site.



In the aspect of drupal, if you need an advanced system with specific content appearing in different ways on different pages in different places, then drupal ability to have complex content relationships and access control of content will allow the flexibility to fit in any project, drupal work best when building a complex site and if you don't have any understanding in programming before, it takes longer period to learn how to use drupal. In terms of E-commerce solutions, drupal is more modular-ready platform and can be easily configured for your needs, with more powerful modules such as commerce kickstart. Joomla tend to be more content publishing friendly platform and while it may be quicker to set up, on the long run it will be less featured without putting in an extra effort.



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