Review Paper on an Open Source Content Management System: Joomla CMS

Miss. Vaishali Sunil Bhirud

Bachelor of Engineering, Student, Department of Computer Science & Engineering,
Shri Sant Gadge Baba College of Engineering & Technology, Bhusawal - 425203, Maharashtra, India

Abstract: **Joomla is a free and open source content management system (CMS) for publishing content on the World Wide Web and intranets and a Web application framework that can also be used separately. Joomla is written in PHP, uses object-oriented programming (OOP) techniques and software drawing pattern, supplies data in a MySQL database, and include features such as page caching, RSS feed, printable version of pages, information flashes, blogs, polls, investigate, and sustain for language internationalization. A content management system (CMS) is a system providing a collection of procedures used to manage work flow in a two-way environment. These procedures can be physical or computer-based. Here a CMS, data can be defined as nearly anything: papers, movies, text, pictures, phone information, scientific data, and so forward. CMSs are frequently used for storing, calculating, revising, semantically elevating, and publishing documentation. Serving as a central storehouse, the CMS increases the version level of new updates to an already presented file. Version control is one of the primary advantages of a CMS.[1]**

Keywords: **Joomla, Drupal, Content Management Systems.**

I.   INTRODUCTION

CMS is used tool to manage website content and depository for in sequence. CMS is a software package that lets us to construct a website that can be quickly and easily updated by your non-technical staff member. These release source systems are produced and supported by a community of developers, and can be downloaded with no cost. A web presence is critical for almost each nonprofit, but create websites can be daunting.

 It can take a lot of time, money and technical capability, which are frequently in short supply. And just because you have a website up and running doesn't mean your work is done. We still require charge up with preservation, updates and desirable new features. This is where an open source Content Management System can help.[2]

Content Management Systems (CMS) have evolved into more than just publishing at ease, but organization our workflow as well. CMS's at the present time allow you to easily imagine, edit, index, and issue at ease, while giving designers and developers more flexibility in customizing their look and functionality. Even if there are many that require advanced skills to operate successfully, this piece of writing is going to cover a select few that offer a balance between drawing, code, and end-user usability.

II.   JOOMLA FILE STRUCTURE

The file structure is exactly the same as in the or simply a /site folder. The view, models, etc. of the site and admin parts are by default completely separated, and have nothing to do with each other - the site part and the admin part can be thought of as two different components! A view in the /admin folder may contain a counterpart with the same name in the /site folder, yet these two views have nothing in common but their name are.[3]

When sharing any code between site and admin applications, classes should be designed with great care to avoid the possibility of a site user executing admin actions.[3]

The /admin folder

III.   WHAT IS DRUPAL?

Drupal is open source software maintained and developed by a group of people of over 1,000,000 users and developers. It's dispersed under the terms of the GNU General Public License (or "GPL"), which means anyone is free to download it and share it with others. This release development model means that people are continually working to make sure Drupal is a forward-looking platform that supports the latest technologies that the Web has to offer. The Drupal project's values encourage modularity, standards, cooperation, ease-of-use, and more.[4]

IV.   COMPARATIVE ANALYSIS OF JOOMLA AND DRUPAL

Description	Joomla	Drupal
About	Joomla CMS offers middle ground between the developer-oriented, extensive capabilities of Drupal CMS and user-friendly but more complex site development options than that of Wordpress offers.	Drupal CMS is a powerful, developer-friendly tool for those who like to build some complex sites. Like some powerful tools, it requires some expertise and also an experience to operate.
Flexibility	Joomla is more flexible as compare to Wordpress CMS.	Drupal is more flexibility than that of Joomla CMS.
Coding Standards	Joomla adheres to the PSR1 (PHP Specification Request) coding standards.	Drupal is still not compliant to any of the PSR standards. There have been predictions that Drupal 8 would contain PSR-0 by default.
Features	Joomla CMS Designed to perform as a community platform, with strong social networking features.	Drupal CMS is Known for its powerful ability to tag and taxonomy, categorize and organize complex content.
GPL Extensions	Joomla CMS does have some free extensions; there are also numerous commercial ones.	While the CMSs are open source, only Drupal's extensions are 100% GPL. This means all the extensions we can download and use for free.

ISSN 2350-1022

International Journal of Recent Research in Mathematics Computer Science and Information Technology
Vol. 1, Issue 2, pp: (95-98), Month: October 2014 – March 2015, Available at: **www.paperpublications.org**

V. HOW DOES JOOMLA WORKS?

Your Device Asks For A Web Page:

It connects to server that contains the Joomla website. It knows which one by first connecting to a DNS service that tells it where the server is for a particular domain name.

Servers Sends The Data:

The web server contains the files that control how your joomla site looks and what it does. It gets the content for the page that's been requested from the database server that is sometimes it is just one server.

The Page Appears On Your Device:

Your device now takes all of the files and data and combines them to make a web page appear on the screen of the device.[5]

VI. ADVANTAGES OF JOOMLA CMS

1. Open source- The best advantage of using the Joomla CMS is that it is an open source platform and is available for free. All the source codes are somewhat available for free and the user can reuse it as per the requirements. If we want to hoard some of our hard earned money we must make our website using Joomla CMS.

2. Usability- Joomla Content Management System used for making any kind of websites, right from the small, simple and personal blog to the large corporate website or any e-commerce website. The plenty of options and features available in Joomla CMS enables the user to make a website with all necessary modules. One can also make the organizational websites and government applications using the Joomla CMS. Even the online communities/online magazines could be created easily by using Joomla CMS.

3. Accessibility-Joomla CMS is very easy to use and just a layman having no technical knowledge about HTML programming can make a website using it. This is the major advantages of Joomla CMS which is making it increasingly popular bit by bit.

4. Themes and templates-Joomla CMS comes with various attractive themes and templates. Also we can make our website look attractive by using different types of inbuilt templates and themes. Selecting or changing the existing theme and template is absolutely easy in Joomla CMS.

5. Trouble-free Migration –If we have our website in Joomla we can migrate to any other server with ease.[6]

VII. DISADVANTAGES OF USING JOOMLA CMS

1. One major drawback that Joomla user experience is that some of its plug-ins works with only some particular scripts.

2. We can customize our website extensively as we can do with other open source platforms.

3. The learning curve is larger as compared to other open source platforms.

4. Makes the website heavy to load and run.[6]

VIII. CONCLUSION

A particular CMS may provide a better option for one application while another CMS may be more suitable for a different purpose. The study of widely used CMSs Joomla, Drupal and the analysis of the features of an individual system can help an individual or organization to choose an appropriate CMS for their specific web application.

A particular CMS may provide a better option for one application while another CMS may be more suitable for a different purpose. The study of widely used CMSs Joomla, Drupal and the analysis of the features of an individual system can help an individual or organization to choose an appropriate CMS for their specific web application.

REFERENCES

[1] http://www.seminarsonly.com/computer%20science/JOOMLA-and-CMS.php

[2] Margaret Rouse, "Content Management System (CMS)" January 2011.

[3] https://docs.joomla.org/File_Structure_and_Naming_Conventions

[4] https://www.drupal.org/about

[5] http://www.insquaremedia.com/joomla-guides/10-using-a-joomla-site/6-what-is-joomla-and-how-does-it-work

[6] http://www.digisecrets.com/web/advantages-and-disadvantages-of-using-joomla-cms-for-your-website/