

# **OPEN SOURCE CONTENT MANAGEMENT SYSTEM AN OVERVIEW**

by

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# CONTENT MANAGEMENT SYSTEM (CMS)

- Digital content is any unit of information that can be stored or managed in digital format
- A content management system is defined as a computer software system for organizing and facilitating collaborative creation of documents and other content, especially for loading to a website

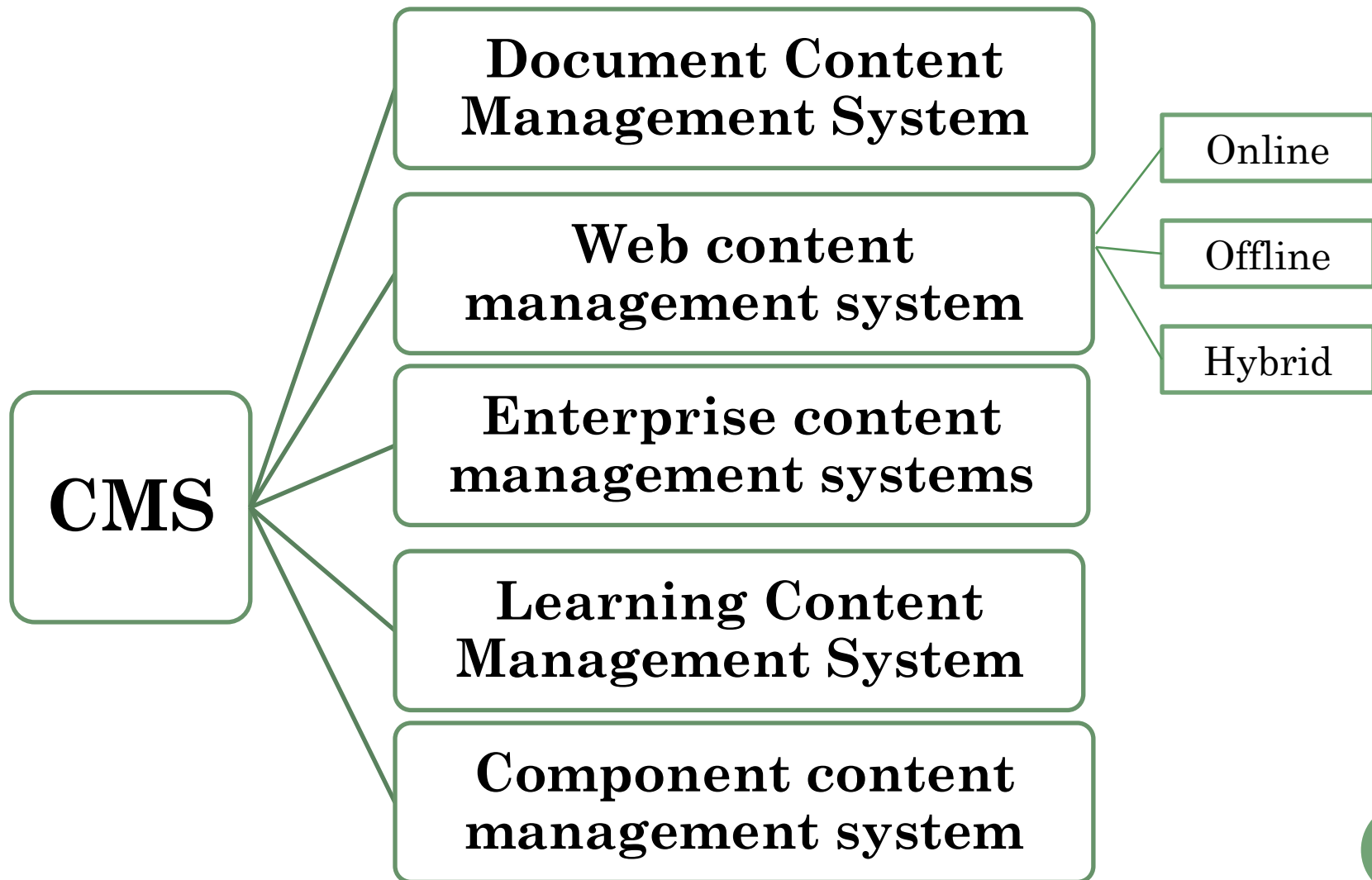


# USE OF CONTENT MANAGEMENT SYSTEM

- To create, edit, delete and organize contents without knowing HTML
- Content can be published/visible or not based on conditions
- CMS helps in easy storage and retrieval of data and prevent repetitive input of data
- CMS is used when the amount of data to be managed is too large and many people to contribute or share data



# TYPES OF CONTENT MANAGEMENT SYSTEMS



# OPEN SOURCE CONTENT MANAGEMENT SYSTEM

- Access to source code
- Right to make copies of the program(with minimal copyright restriction)
- Collectively developed by a group
- Most of the open source systems are is freely distributed



# TYPES OF CONTENT MANAGEMENT SYSTEMS

One method of classification is based on platform

- JAVA
- Java packages/bundle
- Microsoft ASP.NET
- Perl
- PHP
- File/flat file
- Python
- Ruby on Rails



# METHODOLOGY

Several websites giving CMS evaluation and CMS ratings are used for the selection of top CMS two main source used are;

- Open source CMS award given by Packt Publishing
- CMS market share report

Top 20 CMSs commonly appeared in all source are Selected for the study



# EVALUATION CRITERIA

Evaluation criteria used by the websites are;

- Performance
- Usability
- Size
- Support from community
- Accessibility
- Ease of configuration
- Customization
- Scalability and security.



# TOP 20 OPEN SOURCE CMS

- Alfresco
- b2evolution
- CMS Made Simple
- Concrete5
- DotNetNuke
- Drupal
- e107
- Joomla
- Liferay
- MODx
- Moodle
- Movable Type
- Plone
- SilverStripe
- Textpattern
- Tiki
- TYPO3
- Umbraco
- WordPress
- XOOPS



# ALFRESCO

- Free enterprise content management system
- Written in Java and under LGPL
- Available in two edition
- Founded by John Newton & John Powell in 2005
- Latest stable version 3.4



## **b2evolution**

- Blog publishing system
- Written in PHP
- Under GNU General Public License
- On MySQL database and PostgreSQL
- Started by François Planque

## **CMS Made Simple**

- Enterprise CMS released in 2004
- Developed by Ted Kulp
- Written in PHP
- MySQL and PostgreSQL
- Recent version 1.9.4.2



# CONCRETE 5

- Written in PHP Language
- Founders are Franz and Andrew
- Start to develop in 2003
- Latest stable version 5.4.1.1
- MySQL Database
- MIT License



# DOTNETNUKE

- Web content management system
- ASP.NET Platform
- BSD-style license
- Developed by DotNetNuke Corporation
- Available in Community Edition and Enterprise Editions
- Recent Community Edition version 05.06.02



# Drupal

- Written in PHP
- Distributed under the GNU General Public License v2
- Developer Dries Buytaert
- Recent version 7.2

# e107

- Written in PHP
- Using MySQL Database
- Under GNU General Public License v2
- Recent version 0.7.25



# JOOMLA

- Enterprise content management system
- Written in PHP
- Developed from another CMS Mambo
- Latest version 1.6.4
- Licensed under GNU General Public License
- Data stored in MySQL database



# LIFERAY

- Enterprise content management framework
- Written in Java
- Founded by Brian Chan and developed by Liferay Inc.in 2000
- Distributed in Community Edition and Enterprise Edition
- GNU Lesser General Public License



# MODx

- Written in PHP on MySQL database
- General Public License
- Recent version 2.1.1
- Developers are Raymond Irving and Ryan Thrash
- It is easy to install and operate



# MOODLE

(MODULAR OBJECT-ORIENTED DYNAMIC LEARNING ENVIRONMENT)

- Learning Content Management System founded by Martin Dougiamas
- Written in PHP using SQL type database
- GNU Public License
- Recent version is 2.0.3
- In India it is used by BBSB Eng: College, IIM in Ahmedabad ,Calcutta, Bangalore,Goa University, Christ University, IIT in Madras, Bombay, Chennai Mathematical Institute(CMI) and BITS Pilanicampuses.



# MOVABLE TYPE

- Weblog publishing system developed by company Six Apart
- Works on Perl, mod Perl, Fast CGI platforms
- Latest version is 5.12
- Features – host multiple weblogs, standalone content pages, tags and static & dynamic page generation
- GNU General Public License



# PLONE

- Enterprise Content Management System launched in 2001
- Written using Python language on Zope application server
- Creators are Alan Runyan, Alexander Limi, Vidar Andersen and the Plone Team
- Features – wiki support, graphical page editor and content reversion
- Latest version 4.0.5



# SILVERSTRIPE

- Web content management system written in PHP web application framework
- Developed by SilverStripe Limited in 2000
- Stable version SilverStripe 2.4.5
- Core of SilverStripe is Sapphire
- BSD License



# TEXTPATTERN

- General-purpose open source content management system
- Developed by Dean Allen and made available on 2003
- It is in PHP using MySQL database
- GNU General Public License
- Up to date version is Textpattern 4.4.1



# TIKI WIKI CMS

- Wiki based CMS commonly known as Tiki released in 2002
- Distributed under the GNU Lesser General Public License
- Written in PHP with JavaScript code
- Used to create websites, portals
- Current version 6.3



# TYPO3

- Enterprise content management system
- Authored by the Dane Kasper in 1997
- Consists of frontend for generation and display of content and backend for administration
- Written in PHP under GNU General Public License
- Recent stable version 4.5



# UMBRACO

- Written using C# on MySQL database
- Built on Microsoft .NET Framework
- Backend is released under an MIT License and UI under the Umbraco license
- Developed by Niels Hartvig in 2000
- Key features – multi level galleries and e-commerce
- Released as open source in 2005 and the current version 4.7



# WORDPRESS

- Blog tool and publishing platform cutomised into CMS
- Developed by Wordpress foundation in 2003
- Current stable version is WordPress v 3.1.3
- Build on PHP and MySQL under GPL v2
- Features – integrated link management, tagging for articles, trackback and pingback standards and rich plug in architecture



# XOOPS

(EXTENSIBLE OBJECT ORIENTED PORTAL SYSTEM)

- Dynamic web content management system
- Written in PHP language
- New stable version 2.5.1
- Xoops use MySQL relational database
- Licensed under GNU General Public License



# CONCLUSION

Best CMS award given by Packt publishing company goes to...

2008 -Drupal, Joomla and DotNetNuke

2009 -WordPress, MODx and SilverStripe

2010 - CMS Made Simple, SilverStripe and MODx

A survey conducted by water&stone has released Open Source CMS Market Share Report shows the following results.

2008, 2009 & 2010- WordPress, Joomla! and Drupal



I thank  
you!

