

Modeling Essentials of Content Management System (CMS) for Web-Based MIS Application

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ABSTRACT

Web Content Management Systems (WCMS) consist of applications used to create, manage, store and deploy content on the Web, including text, graphics, video or audio, and application code. Web Content Management Systems are often a component of Enterprise Content Management (ECM) solutions. However, the scope of these standards is limited to the basic WCMS solution. The Content Management layer contains the core components for the Web Content Management Application. The authorization component grants the appropriate privileges to users, based on their respective roles. Library Services provide the core content management functionality (check-in/out, version control), along with Publish, Staging, Logging, and Content Reporting/Auditing. Basic Workflow, embedded in most WCM solutions, provides for basic routing of content jobs. The Web Interface and Portal Application present the content to the various user segments, based on their authorization. Remote port lets (e.g., web parts, gadgets, widgets) can be used to embed content management functionality or sourced content in portals provided by other vendors. The search indexing engine can create searchable indexes from websites supported by WCMS solutions. Websites may also be independently indexed by NIH enterprise search engines. This paper concerned with some review work, introduction to towards some basic modeling of CMS/WCMS with the reference of entire reviewed sources.

Keywords: CMS, WCMS, Open source CMS tools, CMS-vendors, VO, CMS publishing, MIS

1. INTRODUCTION

A content management system (CMS) is critical to the success of almost every website and intranet, and yet many organisations are not familiar with this technology. The continued dramatic growth in Content Management Systems (CMSs) and technologies – there are hundreds of CMSs, including dozens of open source tools – has defied the usual rules of business software markets. The number of new product launches by old and new companies somehow still manages to keep ahead of the ongoing consolidation. This is very healthy. However, even a full-time market analyst paid to be a content management expert is not going to be able to keep up with all the products and features, especially since managing content involves technologies that go well beyond a CMS. IT strategists and project managers who have other responsibilities don't stand a chance of keeping up-to-date. Fortunately, there is an industry effort gathering steam to provide an open and free list of CMS products and features. This public domain classification will be based on an XML schema (CMSML) so that anyone can use the information. Web Content Management Systems (WCMS) consist of applications used to create, manage, store and deploy content on the Web, including text, graphics, video or audio, and application code. Web Content Management Systems are often a component of Enterprise Content

Management (ECM) solutions. However, the scope of these standards is limited to the basic WCMS solution.

2. CMS: DEFINITION

A content management system (CMS) supports the creation, management, distribution, publishing, and discovery of corporate information.

CMS covers the complete lifecycle of the pages on site, from providing simple tools to create the content, through to publishing, and finally to archiving.

CMS provides the ability to manage the structure of the site, the appearance of the published pages, and the navigation provided to the users.

2.1 Business Benefits of CMS

There are a wide range of business benefits that can be obtained by implementing a CMS, including:

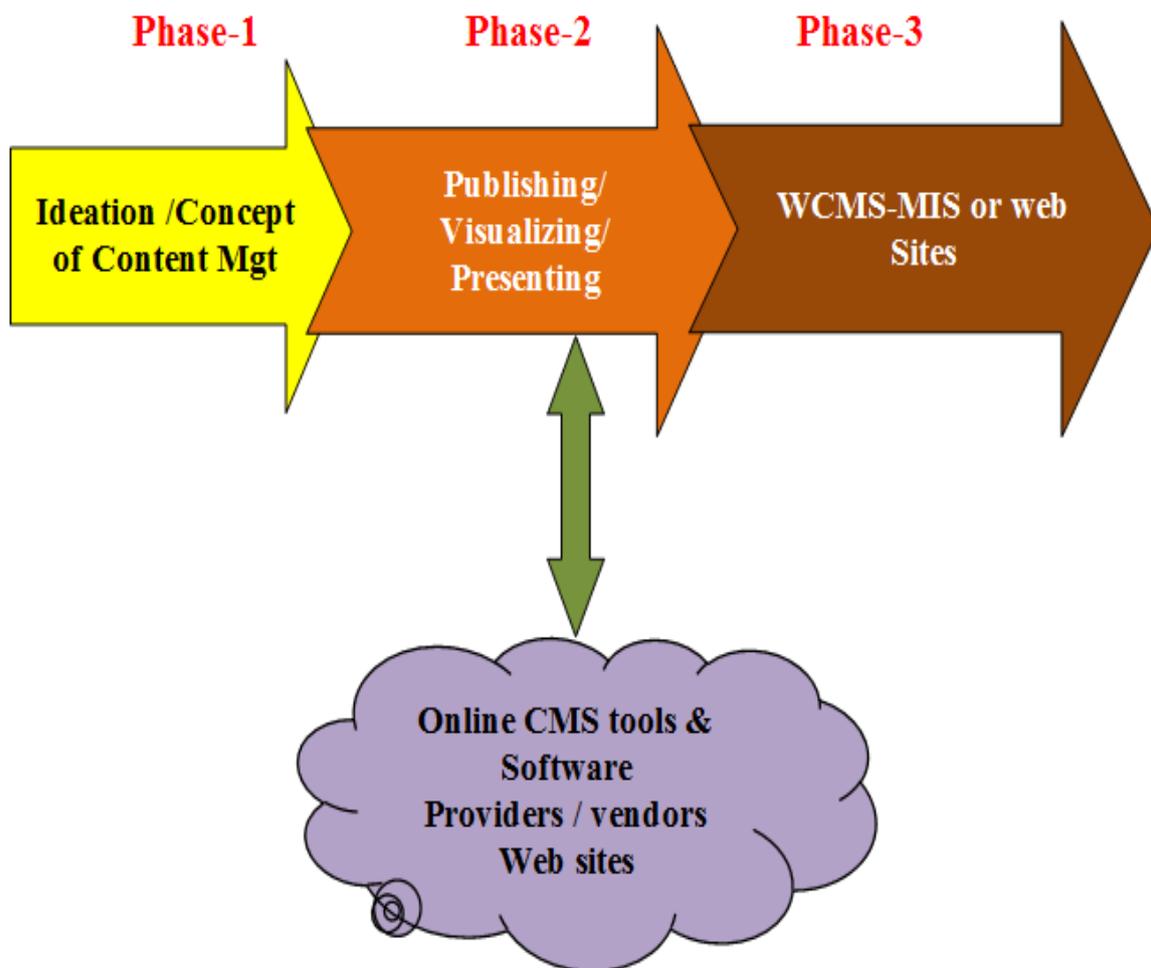
- Streamlined authoring process
- Faster turnaround time for new pages and changes
- Greater consistency
- Improved site navigation
- Increased site flexibility

- Support for decentralized authoring
- Increased security
- Reduced duplication of information
- Greater capacity for growth
- Reduced site maintenance costs

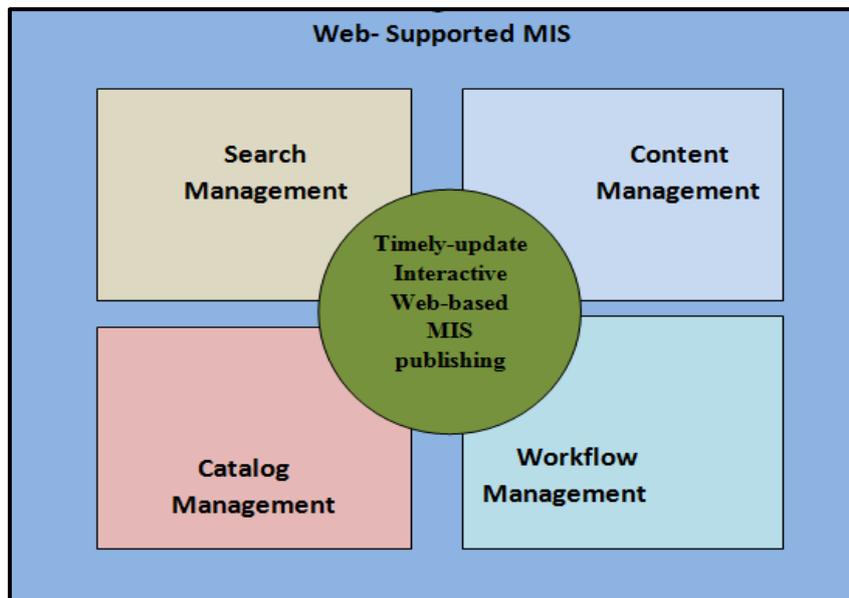
2.2 CMS-Process Model

We are most familiar with importance of CMS in today’s competitive business environment to execute business with benchmark it with competitor plans and execution for business. The first step for effective CMS in either business MIS or online Web-based business MIS “Creative ideas and concept generation” how to develop, to select , to manipulate, to publish, to present and to update content of business MIS /web based MIS, what to show ,what to hide, how much to show, how much to show, how much to hide, meaningful concise, relevant and informative content within the web pages to

target and attract potential customers and maintain them with the full satisfaction by replacing content with the respective time slot and always offer update information when end users login to MIS or Web-Sites. Therefore one of the excellent decision either select most suitable open source CMS tools/software or to choose online vendors services which match to your ideas and concepts for “content management” in MIS GUI or web pages in web sites i.e. what are best CMS tools to publishing/presenting our defined content to develop and manage it. This whole process flow as display in above exhibit “CMS- Process Model”, which passes through three major phases, but Phase-2 is most important, where Enterprises/MNCs/INCs organization need to get help through online support for CMS development in their MIS or web sites and organization engage to design CMS for MIS and online web sites with well managed content equally need to pay attention on Phase-1 i.e. ideas & concept for content management as this issues further expanded in detail as foundation of CMS-MIS/WCMS-MIS discussed next.



2.3 Foundation Models for Web-Based CMS-MIS



Source: Md. Sadique Shaikh.

This is the second vital model to learn about what fundamental criteria have to be followed when someone thinks about CMS supported MIS-Web-sites, since idea development to CMS implementation process. The most important pillars for effective web supported MIS, are

2.3.1 Search Management

For e-commerce web-sites, powerful, efficient and effective search management is necessary. This searching can help customer/end users to find out specific product or service information they want to evaluate or buy. Normally e-commerce software packages include faster search engine or customized e-commerce search engine from search Technology Company's link merge into it.

2.3.2 Content Management

Content management software & tools becoming more popular in e-business/.com business companies. This is used to develop, generate, deliver, update and archived text, graphics data and multimedia information at business web sites. Many live presentations are now displayed with browser software and computer projectors, using an Internet link to display web pages as slides and using the hyperlink capability of web pages to navigate from slide to slide. Because browsing software is available for almost any desktop computer system, speakers do not have to attend their own computer; instead, they can expect their presentation to work on any system that they are provided. Because multimedia elements can easily be built into the presentation, a flexible, powerful, and appealing display format is attainable. Add the capability to think to any

other related web sites in the world and provide attractive means of conveying information to a live audience.

2.3.3 Catalog Management

com business concept is normally stored in the form of multimedia catalog of products information management of such catalog is known as catalog management. Content and catalog management software's normally work with the profiling tools to personalize the content of web pages seen by individual users. Content and Catalog Management helps customers in designing their own system.

2.3.4 Workflow Management

Workflow Management software is used to automate and manage various business processes of e-commerce applications. E-business workflow system helps employees electronically collaborate to accomplish structured work tasks within knowledge-based business processes.

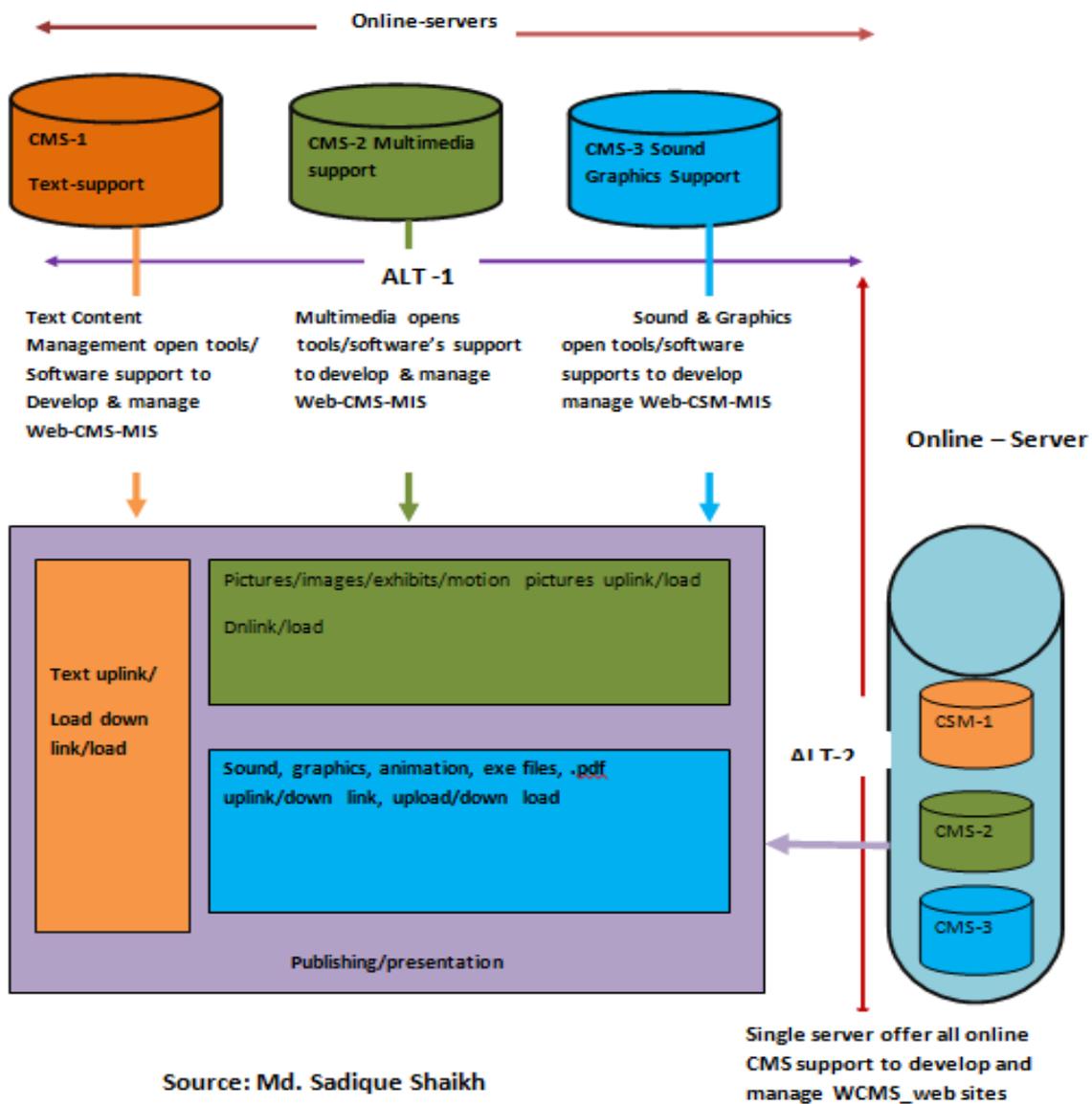
Thus proper analysis and designing for prompt CMS-modeling required in all these four pillars which work coordinatively with each other in MIS/W-MIS.

2.4 Online Web-based CMS (WCMS) Model to Support MIS

This is the model exhibit for online web-based CMS (WCMS) to support web MIS. When CEOs, MDs, VPs &

GMS of MNCs, INCs, NGO and Enterprises want to either get free open source, software's and tools for CMS in web pages within the business web site or want to purchase non open source tools, software's (i.e. online vendors CMS-services for business MIS/Web sites). It is possible either go through Alternate -1 (ALT-1) or go through Alternate-2(ALT-2). Generally ALT-1 for all those want to update and maintain CMS of Web- MIS by selecting open source online tools, software's and CMS services , where may be or may not be single service providers have all types of CMS handling, thus need to link several different CMS tools, software's and services from different servers which is specific and manage unique content CMS like text content management, Multimedia picture, graphics images content management software ,.exe files, presentation,

sound, motion pictures, pdf, word,.ppt content management as well as up link, down link, browsing , processing content online and transaction processing like OLTP and OLAP and their publishing and presentation. Whereas ALT 2 generally non-open CMS tools, software's and services, hence provided by vendors but generally all types of CMS content nature support is offered by single vendors single servers for CMS support in WCMS-MIS/ Web sites as shown in model ALT2 as compare to ALT1 is good selection, because fast and low complication due to all types of content managed by single online CMS vendors but it complicate link networks when different servers call in Web-MIS for different CMS support as illustrate above



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