

Web Content Management System

We are planning to move a large web site from static HTML version to a Web content management system by a data-driver system.

Content Management Systems (CMS) automate the process of creating, publishing, and updating web site content said P Suh, J Ellis, D Thiemecke - 2002 - portal.acm.org

Related Business criteria

Internet has received a number of curriculum changes over the past year. The main reason we make such changes in the lines is uniform, reliable and flexible security is my mission statement to provide network to meet growing business needs.

The next step, this mission, in order to maintain my network group, needed to meet current and future business needs of Internet infrastructure, policies and procedures, secure, internal network to enhance confirmed.

Specifically, it is expanding to world, such as environmental documentation policies and standard (through the setting of common software and processes through if any, are modified to provide or), add more hardware capacity and general security measures.

Strengthening the effectiveness of joint enterprises:

The survival and business success, CMS need to organize all the various levels of collaboration. Anyone can, and offices, most front-line travel and colleagues if it can get an update on the current status of collaboration with customers in real-time control is simple and speedy, smart, effective it can enact decisions.

Simple and reliable collaboration platform:

For users is very useful as well, it must be support working on Microsoft(MS) and unified communications, CRM and ERP to streamline administrative tasks by repeating the solution for more than waste money on features a perfect blend, IT that there is no more important resource projects. The one place, all staff through, but also, and workflow to improve access for all to share information, transport, and reducing travel costs.

Drupal

Drupal is a free open source content management system (CMS) written in PHP is, GNU General Public License. This is the site of many different types of sites; large-scale political system is used for backup, until the last of a small individual blog, whitehouse.gov, also data.gov.uk. Companies, including knowledge management and business will be used for co-operation.

SonyBMG is the one of website which is using Drupal for their WCMS.

User Management

User Authentication - Users can register to, Jabber, Blogger validates the use of local or external authentication source such as online REDO logs, or other Drupal site. About the same as using the intranet the Drupal server. detailed LDAP information can be integrated in

Management and analysis

Analysis, tracking, and statistics - Drupal-based reporting can be printed in the browser, the information about the popularity and how visitors navigate through the content site screenshot. Details

Recording and Reporting - All important activities, in the event of system events, saving administrators time screenshot logs will be captured for review. Details

Performance and scalability

Caching - The caching mechanism to improve performance and eliminates the database query to reduce the load on your server. Load detailed cache in real-time traffic is much higher under a very informative Web site performance monitoring

Joomla!

Joomla who are World Wide Web and intranet content and the Model View Controller (MVC) of the Web application, platform systems, announced an open source content management. This is PHP is written using the data stored in MySQL has cached pages, RSS is a source, Web pages, printed version of the Flash news and features include blogs, polls, search, internationalization and language support.

ATChinese is one of website which is using Joomla for their WCMS.

<http://www.atchinese.com/index.php>

User management

Joomla will have a registration system that allows users to configure individual choice. Allowed users to access them access to nine types of forms, edit, publish, and manage user groups.

Contact Management

Contact Manager fined their contact information, people's rights, to help users. In addition to specific composed of multiple contacts, and plans to the group.

Search

Users can search the most popular items and provide to admin with search statistics.

System Features

Page cached page loads fast, cache modules, and fine-grained level, GZIP compression available on the page.

Administrator can troubleshoot the system if the problem is a rare need for debugging and error reporting modes. Administrators can quickly and effectively communicate one-one personal information via e-mail system of the user experience a lot or the entire site.

SharePoint

Microsoft SharePoint (MSSP), MSSP products and technologies known as the growth of product selection components, including software, among the collection element, Web browser, collaboration, process management module, document management and search modules platform.

VIA University College is one of website which is using sharepoint for their WCMS.

Portals

With other users of information, create a personal my site portal, share and user experience, the company's website content and personalized based on user configuration.

Enterprise Search

Let quickly and easily to find, business applications, content & people.

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Create a document and records management, Web content.

Business Process and Forms

Workflow and electronic forms to automate and streamline business processes created.

Business Intelligence

Easy to analyze and view data access business-critical information, data, and a report made to the decision-making and improve the work permit.

Drupal is a open source CMS there is no cost for the licenses, but may have a extra cost on employ expert. But on integration of work this CMS cannot directly to let use link up with Server existing data or search company information at the same time.

IF when CMS has happened problems that didn't have any problem notification to advice system administrator to handle and it didn't support these add-in into system. Joomla also is a open source CMS which is mean there is no cost for the licenses, but may have a extra cost on employ expert when there has happened problem. It using the P.H.P. language and MYSQL database as software system developed and in the support on Joomla is better than Drupal, which is supported TEST framework before apply any codes and support prototyping. Base on these reasons Joomla is very powerful as a portal website to centre knowledge if only for this processes.

SharePoint can integration all MS works from anywhere anytime. Even this is Closed Source licensed that is easily to find support that another CMS. In the end of total cost it wills the lowest cost one, and for scalability looking for future it can will help to centre all data by using MS product to meet the business flow.

Base on this WSM result, we can decide "SharePoint" is the appropriate choice for CMS.

Web Content Management System

Project Management

Design Test Analysis of Requirements & Design Phase

Development Phase

Testing Phase

Planning Phase

Requirement Phase

Design Phase

External Design

Detailed Design

Development

Deploy Figure 4 – Work Breakdown Structure

Project Team involved and their job flow

Project Manager & staffs will be involved to form as a team for this project. This team, Project manager, Programmers, System administrator, Database administrator will handle to build up WCMS; they are the specialized field of their flow.

Project manager job is planning, execution, depending on the project together with tight deadlines and within budget, it gets the resources, includes adjustment

Efforts to deliver third-party contractors and consultants and team members,

According to the project plan, the project manager defines the project goals

Overseeing the quality control of the entire lifecycle.

Programmer job is Work with users to develop software specifications. The ability to create, conceptual design, detailed design and documentation, please write a description of the concept of code based on business logic.

Programmers are involved by developers for this project.

System administrator (SA) job is effective configuration settings, installation, operation and maintenance of hardware systems, software, related infrastructure, research and development of innovative technology. This person is handle the system hardware, operating system, software systems and related procedures, according to the value of the organization to ensure staff, volunteers and partners.

Database administrator (DBA) use database software to store and manage information. They set up a number of these systems is to ensure efficient operations (such as database performance tuning, often called) is responsible for the database. They also regularly back up data stored in storage efficiency, ensure data is protected from unauthorized access. Data can be protected, and maximize database uptime, which is an important feature of a database administrator.

Programmers are involved by developers

Cost of the project

Weekly cost is only man-day of this project team only. There didn't have any other charge and this process will count after planning phase.

One-off cost consume is about buying new hardware, software & license.

Hardware:

No need to buy a new server. There have a new Virtue Machine (VM) before this project; SharePoint Server will be installed on this machine.

Software:

SharePoint & License

Project task dependencies

In project initialization, Project Manager (PM) will involve meeting with main stakeholders and developer about this Project Management planning. When the planning phase started, Project Team will establish and define development.

For the requirement phase, PM take important role on how to find out determine and identify the requirement of Business flow, after received requirement need PM will select solution to meet business-related requirement and order software.

At the Design Phase, there have external design (for internet) and detailed design (For Design Prototyping, test planning).

SA & DA will design the workshop; analysis; integrate standards.

Then we will go to Test analysis of requirement & deign, in this phase programmers will develop the need and analysis it. PM will verify the test plan to final confirm.

In Development phase, SA will prepare VM and sharepoint for starting and unit test; DBA will develop database for production DB. Programmers will write and verify for System Test & Unit Acceptance Test (UAT) Procedures.

In Testing Phase, system will be started for testing and UAT. User will have a training course by Programmers. They also generate document, facility readiness. PM will communicate for all related holder.

Finally, System can be go-live after UAT. SA & DBA will re-config for server, Programmers will install application to server, after it PM will have a meeting with all and close the project.

The below table is descript all task dependencies

Based on this Graph View, we know that Database administrator will be over time working. So, we may think about workload of work flow, is it too hard.

Review this graph, we know that Programmers will overtime to work, but Programmers is a team which is more than one, we can add or remove member in here. That is mean we may add more 2 or 3 programmers for this project.

The below figure is generated by MS Project about weekly cost.

Related Business criteria

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Business request for Benefits

After completion of the Web Content Management System, it will be realize the following Benefits:

Internet and technical configuration standards for management procedures

- Ability to use technology to provide the best Internet infrastructure. To contain appropriate Intranet and Internet applications
- Provides the infrastructure to allow business units. Reduce the current capacity issues
- Increase capacity • (80% maximum) corresponds to future business growth needs of business.
- You can easily support more effective internal network and the Internet •.
- update the process definition to provide the user easy to use effect of the use of the new framework.

Project Goal

Fault tolerance and redundancy implementation (without moving the bulk of production downtime.)

Full-featured intranet (security, applications, and other industrial areas)

To double capacity

To provide a scalable infrastructure for future development

The establishment of common technical standards and technical

Research the feature of WCM

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Evaluate the three alternatives

The below table have shown what are the different of these content management system.

Decide the choice of CMS

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7

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Work Breakdown Structure

For each task identify the people involved, the weekly cost and any one-off cost, and the task dependencies.

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Critical Success Factors

Must include the following: to ensure the success of this project an important place:

- Prepare the necessary facilities to accommodate the additional hardware and software should be on the time to complete.
- Procurement is to provide time for hardware and software, along with the plan required.
- Allocation of resources, work activities, giving priority in this way, the project work is completed
- influence, leadership, problem solving and decision from the project sponsors and commercial projects, including timely and effective way to join the teaching
- Range must manage and control the most severe. Executive Steering Committee to upgrade to a change request Timely and effective risk management
- Project budget management
- executive sponsors

Total Budgeted Costs

The below figure is general by MS Project.

Project Plan

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Gantt Chart of WBS created by MS Excel