



Content Management System
(Case Study)



Business Situation

Many website owners need content management system to manage content effectively & efficiently on their website, especially when content is required to be updated very frequently & that too by non-web developers

Solution

Webdunia CMS is a software that allows non-technical users/non-web developers to edit, update, maintain, and create a website using built-in templates. CMS is designed to simplify the publication of web content to web sites, in particular allowing content creators to submit content without requiring technical knowledge of HTML.

Benefits

- User Friendly – Easy to use
- Multilingual solution with Unicode support
- Template based HTML generation ensuring consistent design
- Role based security
- URL scanner tool to avoid malicious URLs
- Auto upload provision
- Archived content managed through web based module
- RSS feeds

Business Situation

system at many cybercafés is manual. Hence cybercafé operators find it difficult to bill the customers properly for the amount which they have spent in the cybercafé. Operators find it difficult to bill the customer for the amount which they have spent in the cybercafé. By using the Billing and Metering Tool, you can accurately track and

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Problem Situation

The billing and Metering system at many cybercafés is manual. Hence cybercafé operators find it difficult to bill the customers properly for the amount which they have spent in the cybercafé. To solve this problem, WebDunias Billing and Metering Tool, you can accurately track and



Situation

To manage content on a website, following questions arise:

- Do you need to update your sites content very frequently?
- Will non-web developers (content editors) updating/maintaining content on the site?
- Do you require the ability to manage your website's content from remote locations?
- Do you have a requirement to publish content in multiple languages and formats?
- Do you want to keep design of pages consistent?
- Do you need to publish your content to other digital channels such as mobile phones?
- Do you want to save money & time spent on managing static content on your website? Especially the sites which accumulate a lot of content rapidly.

If answer is 'YES' for any of the above questions then website owner needs content management system for managing content.

Solution

Webdunia Content Management System (CMS) is a thick client windows based desktop application supported by assorted web based applications which can be used for publishing web content consisting of text, images, audio, video etc. on the website.

Features

Multilingual Support

For each Language separate application setup needs to be deployed. Currently it supports 10 Languages viz Hindi, Marathi, Gujarati, Punjabi, Bengali, Tamil, Telugu, Kannada, Malayalam & English. It can be easily customized for more Languages.

Offline Support

It uses Local (intranet) Resources like database, web server & client PCs for generating content.

Template Based HTML Generation

The Application has facility to have more than one template. Different categories can have different templates. Each website can have one basic template & more than one special template.

Example:
(Basic Template)

<http://hindi.webdunia.com/sports/>

(Special Templates)

<http://hindi.webdunia.com/sports/jpl2009/>

<http://hindi.webdunia.com/news/election2009/>

<http://hindi.webdunia.com/miscellaneous/special08/womensday/>

Easily Customizable

Different style sheets can be applied for different categories (although templates would be same) to change the look and feel in the same layout.

Example:

<http://hindi.webdunia.com/sports/>

<http://hindi.webdunia.com/religion/believeitornot/>

Video Player

It provides the facility of video player to play videos attached with articles. Player opens up in a pop-up window. It plays the current selected video & shows category wise list of all other available videos. Flash Video (*.FLV) is currently supported video format.

Breaking News

It has provision to show Breaking News on homepage in case there is some important news. The breaking news block disappears if there is no such news. Inclusion of breaking news does not require uploading of homepage; only a small XML file is uploaded.





Ass Situation

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Offline Support

- Unicode Support.
- Generates Static HTML pages, XMLs, RSS feeds & uploads them.
- Preview (on local web server) option available for all pages which are generated. For uploaded pages; preview on web option.
- Role based security to provide access to the contents controlled by Administrator.
- Upload module to auto upload content using FTP. Upload module once started keeps picking the content marked for upload automatically.
- Content archiving through its web based module.
- Reports about the published content.
- Since whole content is available offline also; the whole website can be regenerated within few hours.
- Easy to use - user friendly interface.
- Provision for RSS feeds.
- URL scanner tool to ensure no malicious URLs are included in the pages which get uploaded to online server.

Article Specific Features

Article properties are stored in database & Article Content is stored in RTF file in the local (intranet) environment.

Article Page has following features:

- Provision to add Title (English + Regional Language), Sub Title, Keywords (English + Regional Language), Brief Description (English + Regional Language), Author Details, Content Source Category/Sub-Category, Thumbnail Image, Image Source, Photographer & Article Content.

The article title appears as browser title, keywords & brief description in <Meta> tag of page for SEO purposes.

- Content editor can design the content part by defining font size, font color, styles like bold, italic, inserting images, tables, highlighted quad, hyperlinks etc.
- Provision to attach multiple videos with article. If an article has any video attached to it, the video icon appears along with article title.
- Facility to invite feedback.
- Article rating.
- Provision to initiate discussion.
- Facility to send link of article to friends.
- Printer friendly version to print the article.

Technology

Development Tools

Front End: VB.NET 2.0, ASP.NET 2.0, ASP.NET AJAX 1.0

Back End: SQL Server 2000/2005/2008

Operating Environment

Client Machines: Windows XP/Vista,.NET Framework 2.0, IE 6.0 or above, Visual Soft FTP on upload machine

Web server (Offline & Online): Windows 2003 Server Enterprise Edition, IIS6.0 or higher, .NET Framework 2.0, ASP.NET AJAX 1.0

Database Server (Offline & Online): SQL server 2000/2005/2008



Solution Architecture

