

The Couch Potato

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Abstract

The Couch Potato is a mini content management system for creating websites pertaining to maintaining information about various movie titles. It is a free, safe and user-friendly content management system. It is a web-applications that allow users to easily publish documents and articles online, without requiring a lot of technical knowledge. It was created as part of a college assignment by Ankit Gadgil and Sayak Sarkar, students of Symbiosis Institute of Computer Studies and Research.

1 Introduction

1.1 What is a Content management System?

- A CMS is a tool that enables a variety of (centralised) technical and (decentralised) non technical staff to create, edit, manage and finally publish (in a number of formats) a variety of content (such as text, graphics, video, documents etc), whilst being constrained by a centralised set of rules, process and workflows that ensure coherent, validated electronic content.
- A content management system (CMS) can also be defined as a system providing a collection of procedures used to manage work flow in a collaborative environment.
- It is a system used to manage the content of a Web site. Typically, a CMS consists of two elements: the content management application (CMA) and the content delivery application (CDA). The CMA element allows the content manager or author, who may not know Hypertext Markup Language (HTML), to manage the creation, modification, and removal of content from a Web site without needing the expertise of a Webmaster. The CDA element uses and compiles that information to update the Web site. The features of a CMS system vary, but most include Web-based publishing, format management, revision control, and indexing, search, and retrieval

2 The Couch Potato

- The Couch Potato was created on the Linux platform using HTML, PHP and MySQL as the base technologies.
- It recognizes three types of users, namely: anonymous user, registered user and the administrator.
- The main page has six main areas:-
 - **Title Area:** It is where the site's title is displayed along with the site logo in jpg format.
 - **Login Area:** This area contains the user login options, i.e., text areas for an user to enter his/her username and password along with login and reset buttons.
 - **Navigation Bar:** The Navigation Bar consists of links for the various content categories. The categories can be changed as per the site's requirements by the site administrator. The contents of the Navigation Bar can be changed as per the system's requirements and can accomodate six major categories.

- **Side Bar:** The Side Bar consists of various options as per the user logged in:-
 - * For an anonymous user not logged into the system, the sidebar displays three primary links:-
 - **Home:** Link to the site's home page.
 - **Genres:** Composite link, which expands further to provide a list of movie genres, each contains links to show movies that belong to that particular genre.
 - * For a registered user logged into the system, the sidebar displays five primary links:-
 - **Home:** Link to the site's home page.
 - **Add New Content:** Link to the system's content creation page. The content creation page allows the user to add a new content, by providing the user with a blank form, in which the details about the new content can be filled up.
 - **Genres:** Composite link, which expands further to provide a list of movie genres, each contains links to show movies that belong to that particular genre.
 - **About:** Link to site's help file, which consists of a detailed description of the site.
 - **Logout:** Link for the user to log out from the system.
 - * For the system administrator, the sidebar displays six primary links:-
 - **Home:** Link to the site's home page.
 - **Add New Content:** Link to the system's content creation page. The content creation page allows the administrator to add new content, by providing the administrator with a blank form, in which the details about the new content can be filled up.
 - **Genres:** Composite link, which expands further to provide a list of video genres, each containing links to show videos that belong to that particular genre.
 - **Administer:** Another composite link which provides a list of two secondary links namely: Genres Categories, and Configure Site. The Genres Categories link takes the administrator to the Genres Categories modification page, where the administrator can create, rename or delete genres and categories as per the needs of the system.
 - **Logout:** Link for the administrator to log out from the system.

3 Data Structure:

The Couch Potato stores all system data in a MySQL database, in the form of tables and relationships. The relationships among the tables are maintained by using Primary Key - Foreign Key Relations.

- The tables used by the system are as follows:-

- **category**
- **content**
- **genre**
- **item**
- **user**

- The table descriptions are as follows:-

– category	Field	Type	Null	Key	Extra
	cat_id	smallint(5) unsigned	NO	PRI	auto_increment
	cat_name	varchar(255)	NO	PRI	

– content	Field	Type	Null	Key	Extra
	con_id	smallint(5) unsigned	NO	PRI	auto_increment
	con_title	varchar(255)	NO		
	con_tagline	varchar(255)	NO		
	con_release date	date	NO		
	con_genre	varchar(255)	NO		
	con_language	varchar(255)	NO		
	con_cast	varchar(255)	NO		
	con_crew	varchar(255)	NO		
	con_prodhous	varchar(255)	NO		
	con_category	varchar(255)	NO		
	con_alt_txt	varchar(255)	NO		
	con_article	varchar(255)	NO		

– genre	Field	Type	Null	Key	Extra
	gen_id	smallint(5) unsigned	NO	PRI	auto_increment
	gen_name	varchar(255)	NO	PRI	

– image	Field	Type	Null	Key	Extra
	img_id	smallint(5) unsigned	NO	PRI	auto_increment
	img_binary	longblob	NO	PRI	

	Field	Type	Null	Key	Extra
– user	usr_id	smallint(5) unsigned	NO	PRI	auto.increment
	usr_fname	varchar(255)	NO		
	usr_lname	varchar(255)	NO		
	usr_dob	date	NO		
	usr_gender	varchar(10)	NO		
	usr_uid	varchar(255)	NO		
	usr_password	varchar(255)	NO		
	usr_email	varchar(255)	NO		
	usr_type	tinyint(1)	NO		

4 System requirements

Basic software requirements needed to run Renovatio is as follows:

- * **A web server:** That supports PHP5, MySQL5 and FTP.
- * **A modern web browser:** Firefox, Chrome, Explorer, Opera or Safari