Content Management System

Synopsis

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Abstract

This project discusses mainly about Content Management System (CMS). Easy CMS is the best, lightest, most amazing CMS. It's fast, awfully quick and astoundingly light. It has been developed using the latest technologies. You don't have to be a techie to use Easy CMS. All you need to do is sip on your coffee and write. Easy CMS will manage all the content like a piece of cake..

Users can create different posts in this and are provided with a secure gateway to login. It provides many features like User creation and speech-recognision which makes it a little different.

Furthermore, coming back it has theme options to select from. Moreover, anyone can use this service and need not have dependencies installed on their systems and can use this service remotely.

Also, this project is completely open source and the entire code is available to the user as and when required. There is Complete developer's Documentation as well as User manual alongwith it that helps using it a lot easier.

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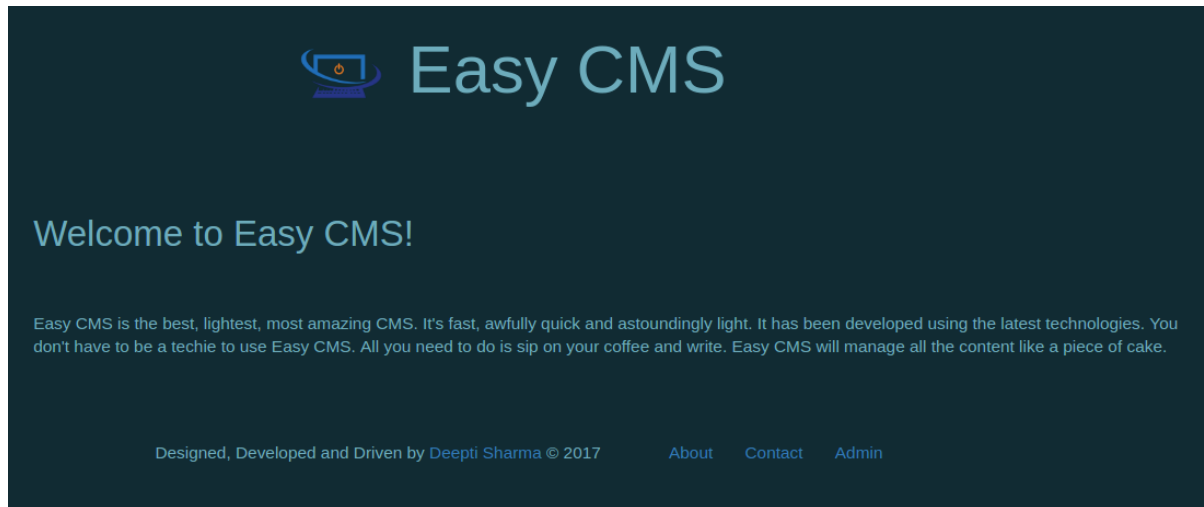
Introduction to Project

1.1 Overview

Figure 1.1: CMS

1.1.1 What is CMS?

The Content Management System (CMS) is a graphical user interface (GUI) that allows the user to control the creation, modification and removal of content from a website without needing to know anything about HTML.Here, CMS is an open-source interactive software application that supports the creation and modification of digital content. It is particularly designed for multiple users to use this system in a collaborative environment.

In addition, CMS can display data in different ways like entering text and listening sound. It also has its own programming language which allows the system to be extended. It can be thought of as a very powerful, programmable, graphical content storage system.

CMS makes it easy to put a wide range of data at a place which could help for future references allowing you to spend time experimenting and thinking about the wider problem. Few famous CMS are: Wordpress, Drupal, Jumla etc.

The first ever CMS was RAINMAN (Remote Automated Information Network Manager) which was developed around in 1992. It was one of the first systems to allow content publishers to directly place their content into a live navigation hierarchy. Dr. Glen Barry published the world's first blog in 1993 - "Forest

Protection Blog" The term "weblog" was coined by Jorn Barger in Dec. 1997 Shortened to "blog" in 1999 by Peter Merholz.

1.1.2   What CMS is not?

CMS is designed to allow users to change most of the text, images, audio, on your website without the need for a website developers assistance. Simple, everyday changes are now something you can do anytime, and anywhere you have an internet connection! Best of all, you don't need to to know HTML or any code to use a CMS. This means that it can't ensure that your content is any good because it's job is just to manage the data. In terms of business, CMS can make executing your marketing plans easier and more efficient, but those plans still need to be conceived, created, and analyzed by a competent human. This does not make the text better or worse, its just used for storing.

1.1.3   Who uses CMS?

Content Management Systems are widely used by engineers and scientists, in both industry and academia for different purposes. Its even been used by business maintenance teams and various authors, for attracting the crowd and for promoting their work. There are way more reasons such as an income from blogs, common people's interest towards writing and much more.
For example, Many well-known sites that are there who are powered by CMS:

- Forbes and ebay.

- Sony and Microsoft news.

- CNN hosts blogs for their many on-air personalities and for breaking news.

1.1.4   Why CMS?

The reason why I thought of creating a CMS of my own because I wanted to get a very specific idea of what it should do, and how it should work. Content Management System is a necessity nowadays for students as they have to write blogs for sake of daily diary as a part of their academic curriculum. Institutions can use this system to deploy on their server so that they can have a record of daily diaries of all the trainees and interns. It will develop a habit of writing in students.

1.2   The Existing System

There are few existing systems which do the task like Wordpress or other softwares but they don't have few features which I have added in this system. These system were not open source and free web based software. All exiting system suffers from at least one of the following system.

1.2.1 Limitations of previous system

- No Speech Recognision Method.

- They are costly.

- Don't provide direct pdf or other file saving options.

- They need installation and a lot of system resources.

1.3 User Requirement Analysis

1. Manage the content provided by user.

2. User can add text through both input and speech recognision method.

3. It can help many students, organisations, Institutions etc. to keep a track record of daily entries.

4. It provides a well secure method to add data.

5. It provides pdf document of the content added.

1.4 Objective of Project

CMS is a web based software and the main objectives of this project is to -:

1. To inspire students to maintain a blog on daily basis.

2. To accept inputs from the user in both text and speech.

3. To make an open source project in which people can contribute and learn.

4. Manage and save the work privately for a firm.

This project saves almost everything in a database.

Project Design

2.1 Flowchart

A flowchart is a type of diagram that represents an algorithm, work flow or process, showing the steps as boxes of various kinds, and their order by connecting them with arrows. Flowcharts are used in designing and documenting simple processes or programs. Like other types of diagrams, they help visualize what is going on and thereby help understand a process, and perhaps also find flaws, bottlenecks, and other less-obvious features within it. There are many different types of flowcharts, and each type has its own repertoire of boxes and notational conventions. The two most common types of boxes in a flowchart are: Following is flowchart of system showing flow of control and Data in the software-:
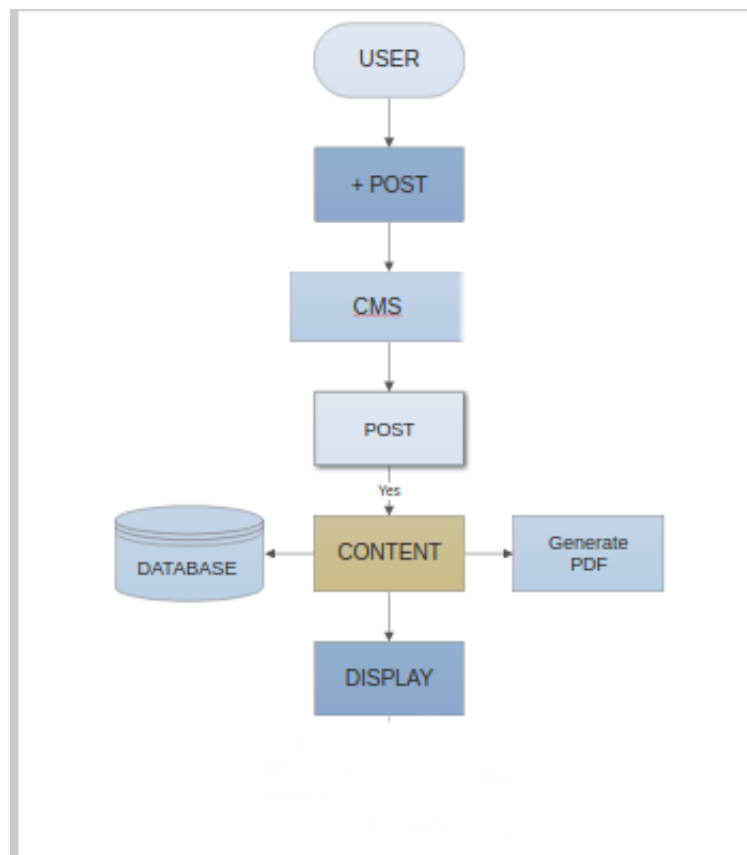

Figure 2.1: Flow diagram

Development and Implementation
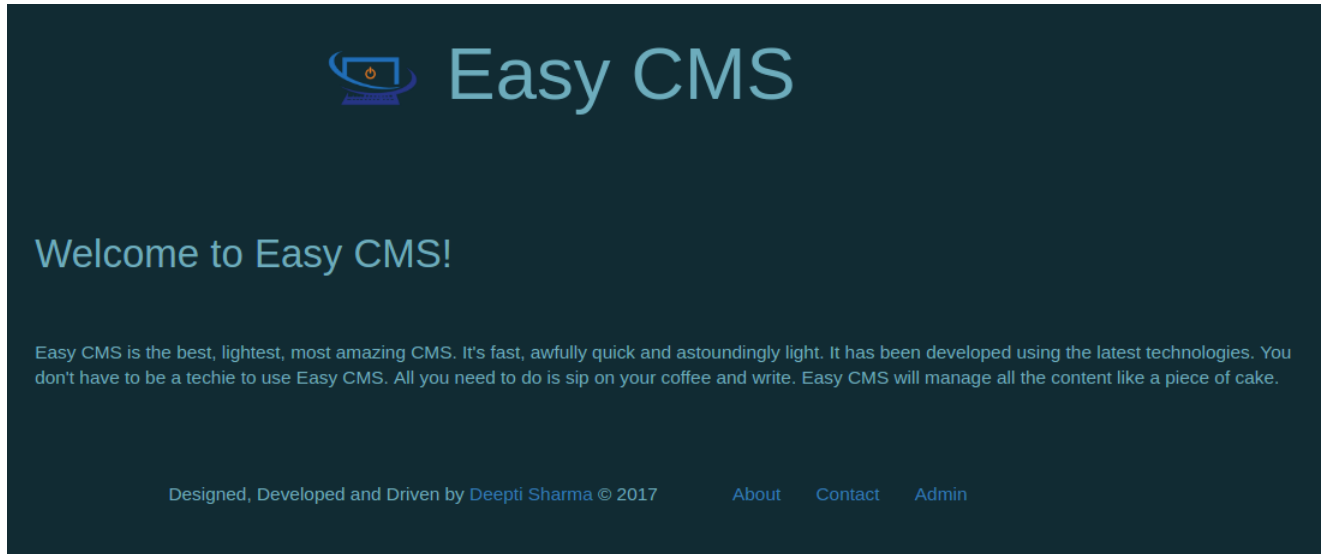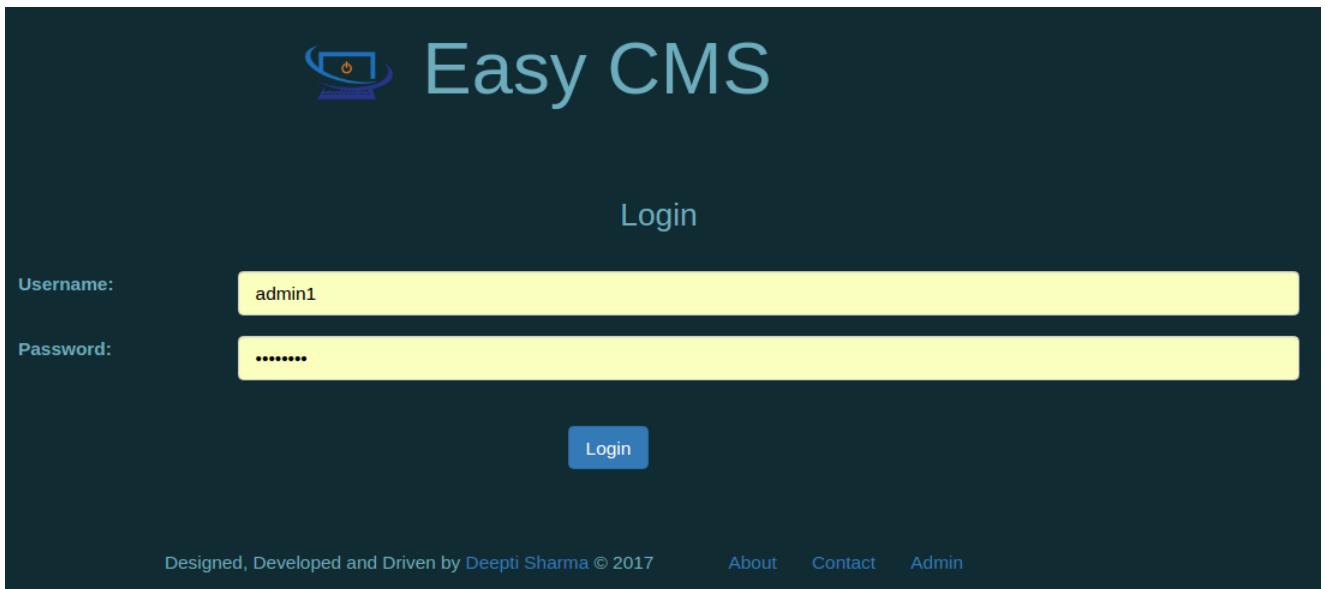
3.1 Implementation

Figure 3.1: EasyCMS

Easy CMS is the best, lightest, most amazing CMS. It's fast, awfully quick and astoundingly light. It has been developed using the latest technologies. You don't have to be a techie to use Easy CMS. All you need to do is sip on your coffee and write. Easy CMS will manage all the content like a piece of cake..

3.1.1 Login Panel

This system provides secure login page to users and even for a private company, it's having an admin panel which can control the addition and deletion of the Users. Moreover, will be having a control over content posted.

Figure 3.2: Login

This project is completely open source and the entire code is available to the user as and when required. There is Complete developer's Documentation as well as User manual alongwith it that helps using it a lot easier.

Moreover, anyone can use this service and need not have dependencies installed on their systems and can use this service remotely.

I am planning to build below mentioned unique features in this system:

- Sound Recognision System

- Generate PDF Document

- Private Admin and User Panels