



**California**

27881 La Paz Road Suite G186  
Laguna Niguel, CA 92677

**Colorado**

110 S Weber St. Suite 105  
Colorado Springs, CO 80903

T: 719.359.8798

F: 949.606.8306

[info@voltamedia.com](mailto:info@voltamedia.com)

## **VoltaCMS / Volta Web Application Platform**

Prepared by: VOLTA

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## **Introduction**

The VoltaCMS was developed based on the collective experience of working with other content management systems and identifying their weak points and shortcomings. The system was designed with 3 major goals in mind: ease of maintenance, speed of deployment and scalability.

The VoltaCMS is a PHP based web application that minimizes html form creation, maintenance and custom code for processing; as well as, managing all types of data. The core system is entirely database driven. One can make quick changes to data in seconds while minimizing the potential for coding mistakes.

The VoltaCMS allows data managers with basic computer skills to easily add, change, categorize and delete content on complex solutions via a web browser. Sharing the task of editing content among non-technical users can reduce web agency fees, or free up valuable in-house technical resource.

## **Problem Statement**

Selecting a content management system for an online solution can be a daunting task. The options number in the thousands, so selecting the correct solution for your needs is essential.

## **Previous Options**

Custom and off the shelf solutions have been available for a number of years. The prevalence of open source products has littered the market with confusing and conflicting information, making it difficult to choose. Completely custom solutions suffer from lack of testing, scalability and foresight in anticipating future needs. Open source solutions suffer from often confusing and inconsistent user interfaces. Furthermore, open source solutions are often the representative work of hundreds of individuals – making modification, maintenance and defect resolution difficult.

## **VoltaCMS Solution**

Volta has created a solution that is both dynamic and scalable. Built on industry standard technologies and a light weight code base, the

Volta CMS can accommodate the management of virtually any type of data.

### *Dynamic*

The administrative control panel is comprised of a dynamic code base that “builds” itself based on the database scheme. This eliminates the need for custom development on the administration code base for each installation of the CMS while still providing for a custom solution.

### *Intuitive*

The user interface is designed for ease of use and consistency. All data operations and manipulation operate in a similar manner. Whether you are managing a part catalog or online media files the interface remains consistent.

### *Scalable*

The VoltaCMS has been tested with millions of records and has offset any scalability issues as a function of the underlying database rather than the application software.

## **Implementation**



[Admin / administration](#)



Welcome to the VoltaCMS

From this control panel you can control every aspect of your site.

Design and implementation of the VoltaCMS was based on 3 core principles: ease of maintenance, speed of deployment and scalability.

By eliminating the need for modification of the core administrative code we have reduced development time on the administration panel to virtually nothing. These benefits are achieved through our proprietary database structure that enables the user interface to reflect any changes in the underlying database schema, allowing for instantaneous updates to the data management interface. The system is designed to run primarily on a MySQL database but can be and has been adapted to operate with other database platforms.

Based on the needs of the specific solution, several optimization techniques can be employed to boost the performance of the system, including database cache management, server load balancing and native code compilation.

## **Summary**

The VoltaCMS solution is more than a traditional content management system it is a database management platform and API for creating web based, data rich applications.

Sample installations currently include: e-commerce (B2B & B2C), website content management, online social networking, medical parts supply catalog, online media management of images and video, warehouse inventory management, customer relationship management, news feed aggregation, classifieds system and a variety of custom solutions.

For more information about the VoltaCMS or to request a demonstration, please visit: <http://www.voltamedia.com>