

Design and Development of Business Management System for E-Commerce

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ABSTRACT

To conducting an e-commerce business, web-programming knowledge is required. However, another possible solution for these firms is to create e-commerce website using website content management system applications. These applications provides friendly interface with necessary e-commerce functions to create their own e-commerce website. The real-time communication channels become significant in e-commerce website. Although these features are important to e-commerce website in customer relationship management aspect, they are not included in any current content management system applications. However, firms can add these features by coding directly into webpage or put the code into provided space in content management system application. In either case, the firms must have programming knowledge in order to successfully modify website which is contrast with the main goal of content management system applications. This becomes problem to small and medium firms which do not have much capital. This paper presents a methodological contribution by demonstrating the use of data envelopment analysis (DEA), a linear programming methodology to measure the efficiency of multiple decision making units, to IS research.

Keywords : Website development strategy, e-Commerce Success, Website quality

ARTICLE INFO

Article History

Received : 27th February 2016

Received in revised form :
28th February 2016

Accepted : 1st March 2016

Published online : 2nd
March 2016

I. INTRODUCTION

Depending upon technology of e-Commerce and its phase, we have developed e-Commerce website for Client the System provides facility to buy product that are present in the market, also provides facility to user configuration. We are using java as front end and MySQL as back ends. The development of this new system contains following activities, which try to automate the entire process keeping in the view of databases integration approach. User Friendliness is provided in the system with various controls provided by system Rich user interface. The System makes overall website management much easier and flexible this can give good security for user information because data is not in the client machine. Authentication is provided for this site so only registered user can access. There is in risk of data management the data is audit under process. Keeping in mind the area we will implemented the following three Phases of E-Commerce.

Marketing:

It refers to targeting potential buyers & encourages them to purchase through site

Customers Job:

In this E-Commerce customer is the normal user who visits your site. Typically a visitor will browse through the categories and then products within those categories.

Process Order:

At This stage, once the customer finalizes the product to buy, an authentication is made. The total cost of the product is calculated. The total cost will include all the transportation charges and the taxes that are payable for the product.

II. LITERATURE SURVEY

[1]"Evaluation of E-Commerce Website Based on Grey Multipurpose Decision System"

Wuwei Li, Yueru Wei

Proposed, From the research procedure above, we can know that the solution procedure above can be the basis for evaluation and selection of advantageous e-commerce website, it can help corporations recognize the e-commerce's role of technology in creation of wealth, with which we may link technology with corporate strategies to make an e-commerce websites evaluation and selection model. The methodology discussed in this paper can also allow corporations to design a management decision model for evaluation of e-commerce websites according to the corporations' specific needs. Compared to other evaluation models, this research model is easy to practice and program, and this research results from this methodology is objective and credible.

[2]"Design and Development of Real-Time Communication Content Management System for E-Commerce"

Pilunchana Kiatruangkrai, Poomipat Phusayangkul, Supanut Viniyakul, Nakornthip Prompoon, and Pizzanu Kanongchaiyos

Proposed, From the results and test subjects' feedbacks, it can be concluded that this project is successful. The results were as expectation. Content management system's subject group could easily set up their web sites using this project's system within half an hour and website viewer group were able to familiar with this system with couple of click. The feedbacks from both content management system and web viewer subjects were that this project's system is easy to use, understandable, and satisfied. However, some subjects suggested that this system should provide options on which features to be used in the web sites similarly to comment-to-SMS feature. In addition, they suggested that each system in the front office should be able to be moved and arranged to any place users would like to place it. For example, users might want to move "Tracking Status" to center column on top of "Product" instead of its current place.

[3]"Website Development Strategy for e-Commerce Success"

Minwoo Lee, Hye Young Lee, Moon-Gil Yoon

This paper proposes a website development strategy for e-Commerce success by not only investigating website quality factors, their relative importance in choosing preferred website, but also finding which quality factors should be modified and enhanced for e-Commerce Success. This study provides useful insights to contribute the decision making of e-Commerce companies to making strategic decision and allocating their limited resources in order to develop more preferred websites and improve their financial performance. Also, this paper presents a methodological contribution by demonstrating the use of data envelopment analysis (DEA), a linear programming methodology to measure the efficiency of multiple decision making units, to IS research.

III. PROPOSED SYSTEM

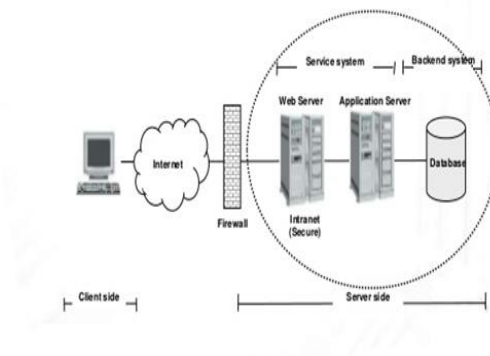


Fig 1. System Architecture

This project system can be divided two ways. One way is divided according to user side and other way is divided according to the server side.

User Side:

In the first way, the user can search the product by online through internet. User can check all product details as well as profile. He cans authority to change any updating of our profile data. He also buy any product form website.

Server Side:

The system is divided into Service System and back end System. The Service System is for customers to search and buy products, while the back end system is for administrator to maintain the web site. From Fig.1.

User Side office's functions are used by customers. Customers can retrieve data from database through front office such as front web page, products' detail, news, and their own recorded profile in member section. Customers can also modify data in the database such as buying products, modifying their own profile, and posting comments through front office. For the back office, administrator can modify and retrieve data in database through back office's functions. The administrator can retrieve recorded products' detail, customers' profile, and web site's appearance setting. For modifying data, the administrator can modify web site's appearance, products, members, and news in the database through back office.

IV. ALGORITHM

Algorithm of flow of procedural overview:

- Step 1: Login to the website.
- Step 2: Search for the desired product.
- Step 3: Compare and filter product.
- Step 4: Select product to view its details.
- Step 5: Confirm product to be purchased.
- Step 6: Choose mode of transaction.
- Step 7: Generate payment status according to mode of transaction.

Step 8: Generate payment receipt and display acknowledgement stating successful purchase.

Algorithm for Login Module:

In login module we used standard encoding algorithm for checking user is authenticated or not.

Step 1: User register with our website.

Step 2: User enter registered email id as user name and password as he/she enter in Registration.

Step 3: User is added in database during registration.

Step 4: If user enter credentials for login then that credentials will be match with Database values.

Step 5: If match then login successful otherwise failed.

Algorithm for Searching and Selection of product:

Step 1: Enter desired product.

Step 2: Provide product specification (Cost estimation, type of product, features of product)

Step 3: Compare within the acquired range of desired product available.

Step 4: Select the product satisfying consumer requirements in sense of cost, features, type.

Step 5: Add it to cart for payment process.

Step 6: Repeat above steps in case of any product reconsideration or purchase any other product.

Algorithm for Payment Process Flow:

Step 1: The consumer selects the product on your website and clicks on "Pay Now" button.

Step2: The consumer is then taken from your website to the transaction page of www.payumoney.com where in all the payment related details are entered by the consumer.

Step 3: Payumoney.com redirects the consumer to Visa, MasterCard or the relevant bank for the next level of authorization.

Step 4: The Bank/Visa/MasterCard authorizes and confirms the transaction.

Step 5: The consumer is sent back to PayUMoney

Step 6: PayUMoney sends the consumer back to your website along with the transaction status.

SHA2 Algorithm:

Step 1: All variables are 32 bit unsigned integers and addition is calculated modulo 232

Step 2: For each round, there is one round constant $k[i]$ and one entry in the message schedule array $w[i]$, $0 \leq i \leq 63$

Step 3: The compression function uses 8 working variables, a through h

Step 4: Big-endian convention is used when expressing the constants in this pseudo code,

And when parsing message block data from bytes to words.

Step 5: Pre-processing

Step 6: Initialize working variables to current hash value

Step 7: Produce the final hash value (big-endian):

V. ADVANTAGES OF PROPOSED SYSTEM

1. It makes products easy to find
2. Products are often more inexpensive

3. It saves time and energy
4. Shopping online gives you access to a wider range of options
5. It's easier to hunt for a great deal
6. Customers are usually satisfied
7. There is buyer protection
8. It's easier to find rare products
9. Shopping online is very useful in buying rare products.
10. Shopping online allows you privacy
11. You can support e-businesses

VI. CONCLUSION

The central concept of the application is to allow the customer to shop virtually using the Internet and allow customers to buy the items and articles of their desire from the store. The information pertaining to the products are stores on an MYSQL at the server side (store).The Server process the customers and the items are shipped to the address submitted by them.

The application was designed into two modules first OS for the customers who wish to buy the articles. Second is for the storekeepers who maintains and updates the information pertaining to the articles and those of the customers. The end user of this product is a departmental store where the application is hosted on the web and the administrator maintains the database. The application which is deployed at the customer database, the details of the items are brought forward from the database for the customer view based on the selection through the menu and the database of all the products are updated at the end of each transaction.

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