IMPLEMENTATION OF ONLINE BOOK SALES SYSTEM

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ABSTRACT

Web site creation is very popular and people use web sites to advertise their business and to expend their marketing. Web service technologies are major impact for e-commerce system [5]. Online shopping system will soon become the predominant mode of shopping, the expansion of online offerings and better online shopping tools. The proposed system applies web technology to implement online book sales system which includes processes book-collecting, book-advertising and book-selling. This system helps customers to find the required book information that may save time, money, and also that may give convenience and satisfaction to the customers. This system is implemented by using ASP.Net programming language and Microsoft SQL server 2000 for database.

1. INTRODUCTION

The internet has experienced a rapid shift from information and entertainment to electronic commerce. Most of today computerized applications become web-based systems locating on a web site that is a group of related documents and associated files and database. All e-commerce applications are web-based systems. The amount of information available on the web, as well as the number of e-business applications and web stores, have been growing exponentially and the influx is difficult to retrieve and process [1].

Commercial applications are change from traditional process to web application. Many business persons are present their selling process to web. The exponential growth of the Internet and the World Wide Web (WWW) created a new type of commerce: electronic commerce (E-commerce) on the Internet. E-commerce on the Internet is the exchange of goods, services, and information for money using the Internet capabilities [2]. There are many forms of E-commerce: virtual shopping malls, electronic bill payment services, and electronic newspaper stands, to name a few.

This system is designed to implement an online book sales system. This system can be used by two kinds of user- the administrator and the user who knows neither the books' name nor the titles of the books can use this sales system. The system generates the books list according to the user's request about book such as the book category, the author and the title of the book. And then the user can view the generated book list. The user can choose the required books and then pay for these chosen books cost. And then the user must pay the total cost of the books that he or she had bought. After paying the total cost, the system permits the user to download the books that he/she had paid for. This paper is organized into five sections. Section (1) introduces E-commerce and Online Book sales, Section (2) presents Background Theory, Section (3) presents the Implementation of the system, Section (4) tells the Conclusion and Section (5) explains Further Extension.

2. BACKGROUND THEORY

2.1. Management information system

Management information systems (MIS) has evolved over a period of time comprising many different facets of the organizational functions that

are need in of all the organizations. Information System means an organization set of components for collecting, transmitting, storing and processing data in order to deliver information for acting proper action.

Management Information Systems are useful for all level of management. Management Information System is designed to improve the flow of information in an entire organization and enable managerial personal to perform their jobs more efficiently. MIS is useful for tool for any information processing system [6].

2.2. Online sale system and E - Commerce

Online sales are useful for students and many people who interested in shopping. Today web-based applications become attractive process [3]. Many computerized application can be view as in the form of online process such as online sale system, Air ticketing system, Travel agency system, etc. Online sale systems are based on E-commerce technologies [3].

Online shopping is the process in which consumers go through to purchase products or services over the Internet. An online shop, e-shop, e-store, internet shop, web shop or online store evokes the physical analogy of buying products or services at a bricks –and-mortar retailer or in a shopping mall. It is an electronic commerce application used for business-to-business electronic commerce (B2B) or business –to-consumer electronic commerce (B2C) [8].

2.2.1 E-commerce

The term e-commerce means the process of execution of commercial transactions electronically with the help of the leading technologies such as electronic data interchange (EDI) and electronics funds transfer (EFI) which gave on opportunity for users to exchange business information and do electronic transactions [2].

E-commerce is defined as the process of purchasing of available goods and services over the Internet using secure connections and electronics payment services [8]. E –commerce is part or all of the business transaction on the network. In addition to that, the customers are connected to the Internet via Internet Service Providers (ISP). The most common E-commerce payment method is by credit cards. E-commerce system is composed of three types of servers: a Web Server, an Electronic Commerce Server and a Database Server.

A common classification of e-commerce is by the nature of transactions as follows:
- Business-to-Business (B2B)
- Business-to-consumer (B2C)
- Consumer-to-Consumer (C2C)
- Consumer-to-Business (C2B)
- Government-to-Consumer (G2C)
- Government-to-Business (G2B)
- Government-to-Government (G2G)
- Non-business Electronic Commerce
- Intra-business Electronic Commerce

2.2.2 Business to consumer (B2C)

B2C is the form transaction in which business in the retail and services industries directly provide products of services for consumer.

Business-to-Consumer is the form of transactions in which business in the retail and service industries directly provide products and services for consumer. By eliminating an intermediate stage in the products distribution B-to-C commerce enables substantial reduction in cost and time. B-to-C commerce allows transactions without having actual inventory thus enabling business to reduce inventory burden. Furthermore, business can conduct operations 24 hours on 365 days a year with an adequate customer support. [7]

2.3. Web Services Technology

The use of Web Services on the World Wide Web is expanding rapidly as the need for application-to-application communication and interoperability grows. These Web services provide a standard means of communication among different software applications, running on a variety of platforms and/or frameworks. The architecture presented in this document is intended to promote interoperability and extensibility among these various applications, platforms and frameworks in a manner that remains consistent with the architecture of the Web [4].

3. IMPLEMENTATION OF THE SYSTEM

The online book sales processes based on web service and e-commerce system that manages the book lists according to the user's request (by author name, by book title, by category). The system includes two sections of users such as the admin user and the customer who wants to buy books. The admin user is the user who authorizes to update data such as the new book category, the new books, the book price and the cash of the customer who wants to use this sales system. In other ways, the admin user must maintain data initially and control the information about books. But the admin user must have an ID member to enter the developed system.

As an e–commerce based application, all processing included in the system occurs via the net. If the user wants to buy a book from the system, the user must be register to use the system. After registering the user information, the user has chance to choose either the books category or the customized. If the user who knows either the books' name or the title of the books', the user has to choose customize. If the users choose the category, the system generates four books category. These four categories are Computer books, Science Technology books, English books and Cooking Books. If the user finds the book that he/she wants to buy, the user must choose this book. The system searches this book by comparing book name or author's name (for customize search) from the book list and from the book information table of stored database and add to the cart. So the system uses matching method to get required book from the relevant categories or all book list. And then, the user has chance to choose another category and books. If he/she finished buying books, he/she must enter his/her credit card number. The system checks this account by connecting with the Bank. If the user's card is valid, the system checks the cash with the amount that he/she spend to buy books. If the spent amount exceeds the cash, the system generates the error message. If the cash is enough, the system permits the user to download the books that he/she had paid for. To explain the system processes detail sequence diagram and flow diagram are prepared.

The flow diagram shows overall system processes and the sequence diagram shows how to contact users and system. The system shows users about book information in the home page.
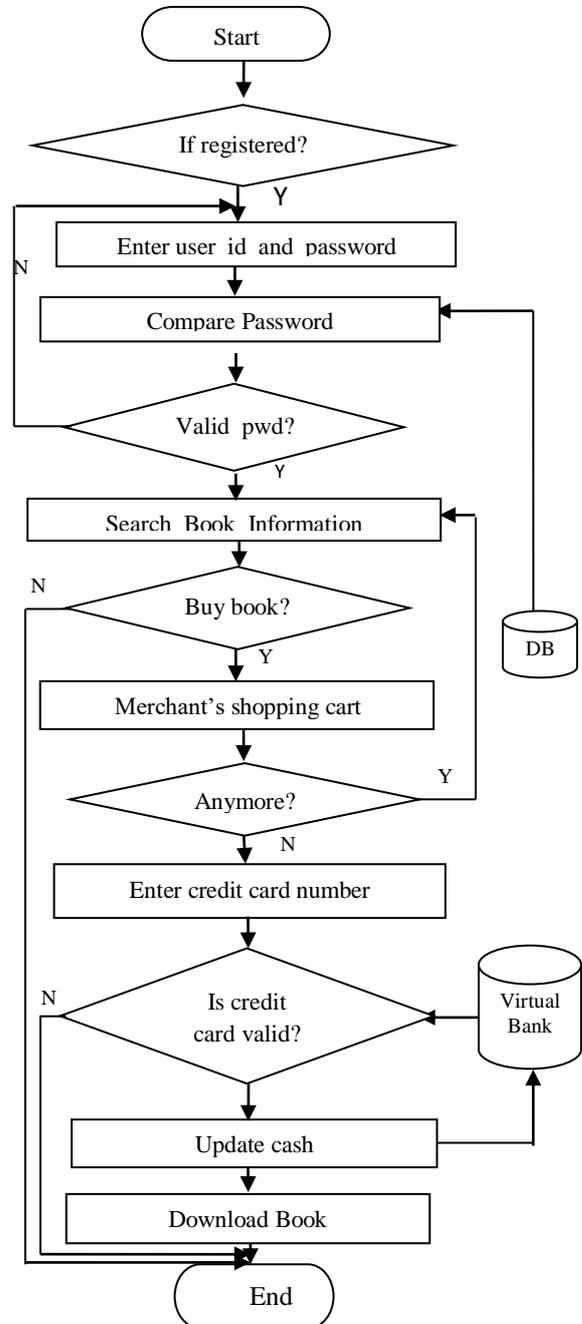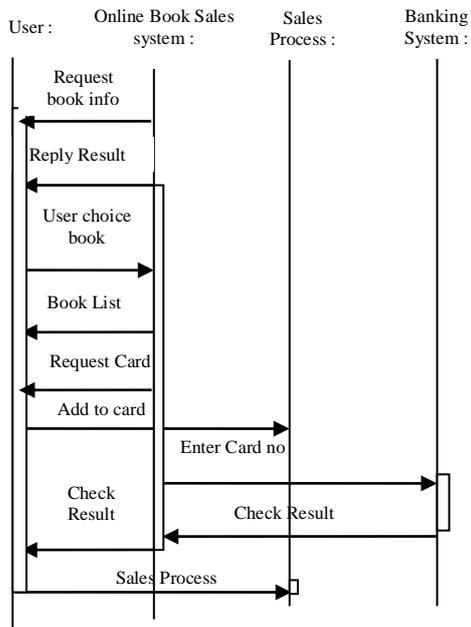

Figure 1. Flow diagram of the system

Figure 2. Sequence Diagram

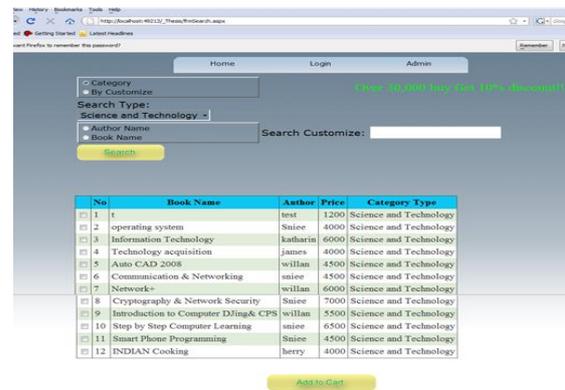And the system output can be seen in the following figures.

Figure 3. Book Information
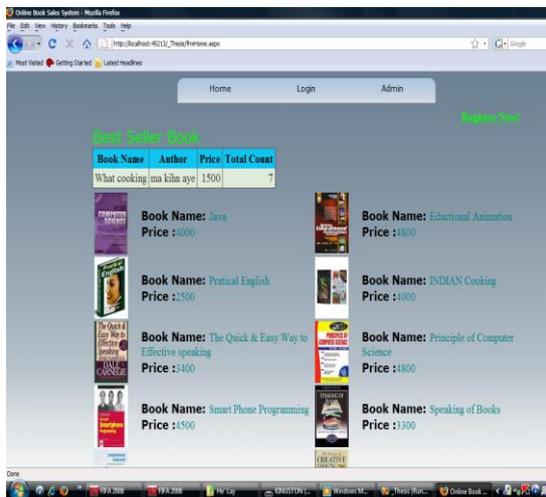

Figure 4. Available books List

Figure 5. Discount Information

Figure 6. Error Message

4. CONCLUSION

E – Commerce system provides Business–to-consumer applications, such as marketing and purchasing. The performance of electronic commerce systems will have a major impact on their acceptability to users. Many processes are doing on web. So user can easily interact to the system from their terminal computer. The system is implemented for selling books on web that allows user to search the required books by book category, authors' name. So, customers can look for the required book within the short time. This sales system generates the error message if the user spent the cash amount exceeded in the Bank. So, the user can check the cash in his/her account. At that time, he/she can reduce the books he/she wanted to buy. Moreover he/she can get discount ten percent if he/she had bought exceeds thirty thousand kyats. But the book sales system cannot deliver the book to the user's home. Online book sale systems are popular because they fulfill the user's need without spending much time. The system is implemented using e-commerce system followed by web services. It is low cost than other book sale Systems because of using this technology. Many books can be search within in a second. Moreover it is about two minutes to download a book generally. Online shopping is one of the e-commerce applications in which the user can get products without going shop, so he can save time and money.

5. FURTHER EXTENSION

The growth of Internet, computer telephony, electronic banking, interactive media services, mobile communication and related technologies have paved the way for new global network the Internet and telephone network emerge. This system can be extended to Internet with e-banking services so that the customers can make online payment which will terminate the prepaid system such as member card. And More Admin control and search service are further extension for other studies.

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