Web Based Commercial Transaction System for Watch Stores

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Abstract

Web-based commercial transaction system is the process consumers go through to purchase products on the Internet. Nowadays, most transaction processing system (TPS) works in the online mode and online systems provide a tighter feedback loop by giving users more timely information. In fact, a web-based commercial transaction system is developed using Buy-Side Procurement System for watch stores. This system supports users with quick and accurate information. In addition, users can inquire the information about watch store. When specific information for watch or clock is needed, the appropriate data items are manipulated as necessary, and the user receive the resulting information. This information can then be applied to the specific purpose for which it was intended.

1. Introduction

Any application on the Internet via the browser is called Web-based application. World Wide Web is a collection of host machines or servers which deliver documents, graphics and multi-media to users via the Internet. Information systems capture data from the organization and its environment. They store the items over an extensive period of time. Information system relies on procedures for collecting, storing, manipulating and accessing data in order to obtain information. By using this system, it unable to satisfy the need of the customer and it may help the seller cannot lose the customer as he or she go away to the some other organization [14].

Transaction processing systems (TPS) support the operations of a firm by processing its business transactions. A transaction is an elementary activity conducted during business operations. A merchandise sale, airline reservation, credit card purchase, and inquiry about inventory are all transactions [5]. The technology allows Java code and certain pre-defined actions to be embedded into static content. To successfully accomplish the development of a web application, one needs to visually model the system's architecture. So we build a Web-Based Commercial Transaction System [5].

From the business owner's perspective, E-commerce provides a way to instantly satisfy demand for products, services, and information of each customer individually. From the customer's perspective, E-commerce offers convenience, variety, cost savings, and anonymity. Ultimately, E-commerce shifts the power from the merchant to the consumer. E-commerce also provides a way for the business to connect its customers, vendors, suppliers and employees all over the world. The business, as such, is now capable of reaching an infinite number of customers over the Web, seeking out potential markets that were once outside its traditional business boundaries. Web-based business-to-business (B2B) e-commerce systems holds the potential of achieving significant procurement cost savings, identifying new business opportunities, and supporting collaboration and cooperation among all supply chain partners. Critical success factors including effective communication between users and developers, processing time, process cost, reusability, efficiency for successfully building an ecommerce system are focused. Moreover B2B e-commerce has its roots in electronic data interchange (EDI) networks established between large buyers and suppliers within a specific industry. Ecommerce enables companies to conduct their business from prospecting to order processing and delivery on-line [3].

There are the four major procurement models that have emerged on the Internet for B2B e-commerce. They are Buy-side Procurement System, Private B2B E-Market, Industry B2B Exchange and Third-Party B2B E-Market. One of them, the feature of Buy-side Procurement System is used in this system. So, this system performs the capability to fit the customized needs of the internal customers, integrate the organization's internal operations, and improve its sourcing opportunities due to the features of Buy-side Procurement System. Moreover, customer can buy not only neat and beautiful type but also cheap and correct time of high quality watch. So, everyone is convenient because people value the time to improve their life. So, watch is essential for people in order to know accurate time

This paper describes the development of a Web Based Commercial Transaction System using Buy-Side Procurement System. The remainder of this article is organized as follows. In Section 2 we describe related work and problem issues and in section 3 we explain about proposed system detail. In Section 4, we present Implementation of the

System. We conclude in Section 5 with a brief discussion of conclusion and future work.

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2. Related Work

Transaction processing system makes an appropriate record of the transaction in database and producers documents relating to the transaction. For example, a sale transaction results in a sale record in the database a subtraction from the inventory total for the item purchased, and a printout of a sale slip. TPS may also produce detailed reports on transactions. TPS may work either in batch mode, processing accumulated transactions at a single time later on, or in on-line mode, processing incoming transactions immediately. Today, most TPS work in the on-line mode, Considered in terms of the systems concepts we have already discussed, on-line systems provide a Tighter feedback loop by giving users more timely information [5].

The JSP syntax adds additional XML-like tags, called JSP actions, to be used to invoke built-in functionality. Additionally, the technology allows for the creation of JSP tag libraries that act as extensions to the standard HTML or XML tags. Tag libraries provide a platform independent way of extending the capabilities of a Web server. JSPs are compiled into Java Servlets by a JSP compiler. A JSP compiler may generate a servlet in Java code that is then compiled by the Java compiler, or it may generate byte code for the servlet directly. JSPs can also be interpreted on-the-fly, reducing the time taken to reload changes. A Java Server Pages (JSP) may be broken down into the static data such as HTML, JSP directives such as the include directive and JSP scripting elements.

In these days, there are different types of web sites. Some of the categories of web sites include: Web front ends to Email servers, Business to Consumer (B2C) E-commerce, Business to Business (B2B) E-commerce, Consumer to Consumer (C2C) E- commerce, University web sites, and Search engines. They vary in their purposes as well as the nature of the data that they deliver. Various technologies support the delivery of web content to clients and browsers. So far as we know, there are other developments. They are the development of dynamic web content and ways in which to transmit it (.jsp, .asp, .cgi, etc.) has dramatically changed the interface for many web sites, making them appear more like canonical B2C E-commerce sites[3, 4].

There is a saying, “Time and tide wait for no man”. Nowadays people need to run their job and their brain in time in order to achieve their ambition. Hence, man value time to improve their lives. Watches play a vital role for human in order to know accurate time. It is a reason that why we develop a web-based commercial transaction for watch stores. Especially, customer can buy not only neat and beautiful type of high quality watch but also a durable water resistant watch. So, everyone is convenient due to benefit of this system.

3. Proposed System

Proposed System Design is described in figure 1. Buy-side Procurement System plays a vital component in this system. Buy-side procurement system is developed and implemented by a large buyer organization, Web-enabling and integrating procurement systems between the buyer and its selected suppliers to achieve greater transaction efficiency and process control. This system intends to implement Web Based commercial transaction system for watch stores. File creation builds the original master files and creates the transaction files needed for web based system of watch store processing. In the case of master files, the temporary serial files created during data capture will become input to a file creation activity. In other case, data capture may be used it created a transaction file without the necessary for a temporary files, as is done when data are captured through direct entry into computer terminal. The system flow of the commercial transaction system architecture is shown in figure 2.

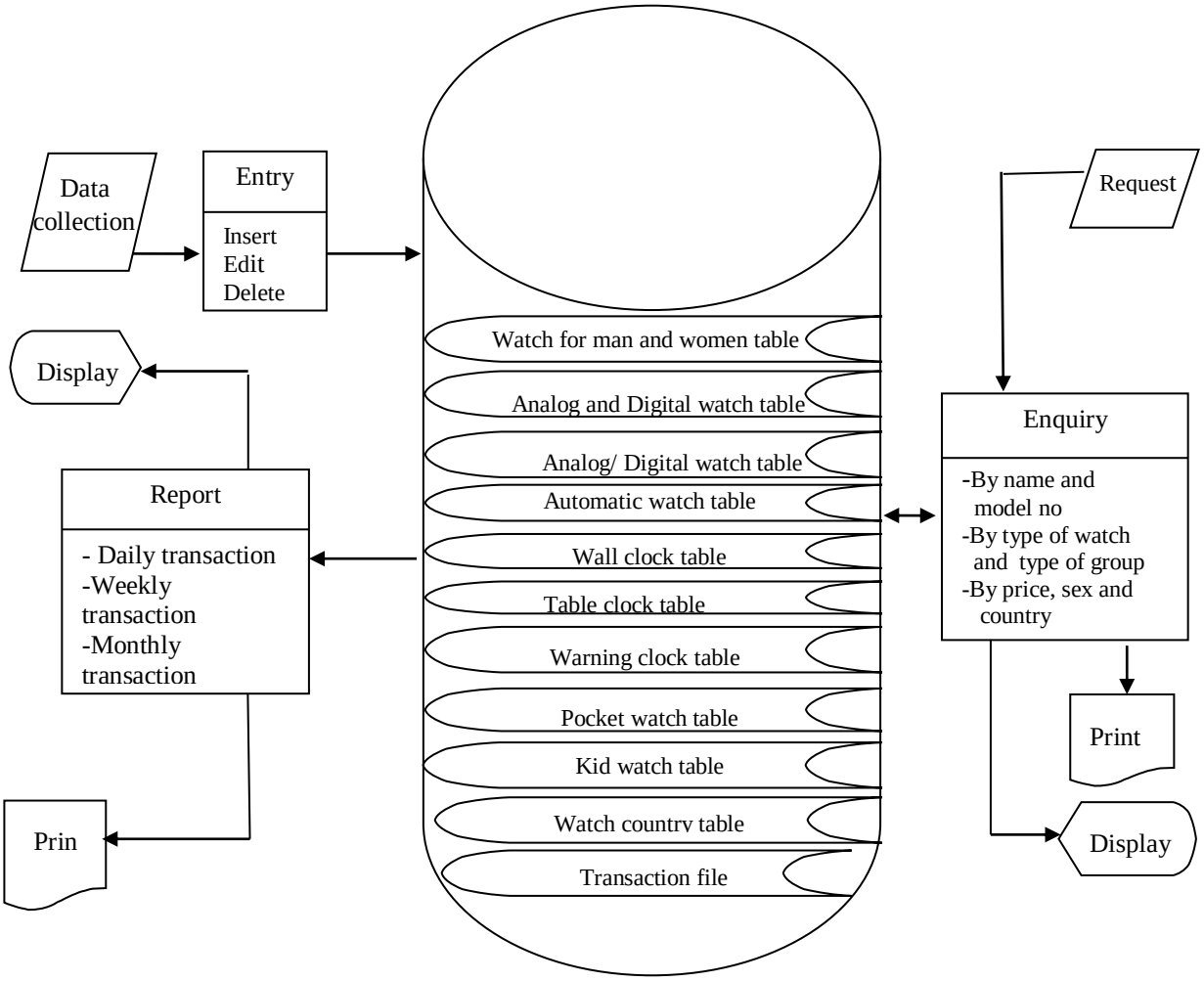

Figure1. System Design Diagram

3.1 B2B Electronic Commerce

In this paper, we focus on B2B e-commerce. B2B e-commerce has its roots in electronic data interchange (EDI) networks established between large buyers and suppliers within a specific industry. Ecommerce enables companies to conduct their business from prospecting to order processing and delivery on-line. B2B e-commerce includes the use of exchanges –internet-based marketplaces in which companies can purchase or sell a variety of products, some generic across industries and others specific to a given industry.

3.2 Using Buy-Side Procurement System

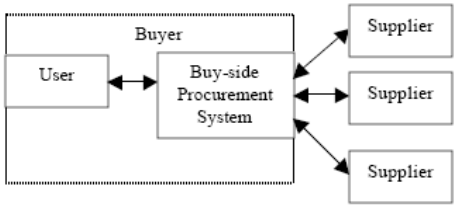

Figure2. Buy Side Procurement System

According to figure 2, we use a Web-based procurement model, the buy-side procurement system by the buyer organization. Many large organizations, particularly manufacturing firms, find that third-party procurement systems are not adequate or have to make extensive design changes to meet their customized needs of procurement. Several of them have initiated efforts to create a buy-side Web-based procurement system that incapable of integrating with their internal operations, yet allow them to use the Web to improve their sourcing opportunities.

3.3 Many Forms of Internet Information

Communication on the Web can take many forms and take place in many contexts. Many people use the terms *Internet* and *World Wide Web* (or just the *Web*) interchangeably, but, as discussed above, the two terms are not synonymous.

The World Wide Web is a huge set of interlinked documents, images and other resources, linked by hyperlinks and URLs. These hyperlinks and URLs allow the web servers and other

machines that store originals, and cached copies of, these resources to deliver them as required using HTTP (Hypertext Transfer Protocol). HTTP is only one of the communication protocols used on the Internet.

Software products that can access the resources of the Web are correctly termed user agents. In normal use, web browsers, such as Internet Explorer, Firefox and Apple Safari, access web pages and allow users to navigate from one to another via hyperlinks. Web documents may contain almost any combination of computer data including graphics, sounds, text, video, multimedia and interactive content including games, office applications and scientific demonstrations.

Through keyword-driven Internet research using search engines like Yahoo! and Google, millions of people worldwide have easy, instant access to a vast and diverse amount of online information. Compared to encyclopedias and traditional libraries, the World Wide Web has enabled a sudden and extreme decentralization of information and data.

Using the Web, it is also easier than ever before for individuals and organizations to publish ideas and information to an extremely large audience. Anyone can find ways to publish a web page, a blog or build a website for very little initial cost. Publishing and maintaining large, professional websites full of attractive, diverse and up-to-date information is still a difficult and expensive proposition.

When the World Wide Web was created, one of the new features it provided was a new Internet protocol for managing hypertext information across the Internet: HTTP (Hyper Text Transfer Protocal). HTTP is a simple protocol that allows for the hypertext documents to be transferred quickly over the Net between the Web browser and servers. To provide a new system for publishing and distributing information, the World Wide Web supports the forms of information distribution that has already existed on the Internet. FTP, Gopher, Usenet news, WAIS, telnet, e-mail, they are used different tools (that all need to be installed separately), and all those operate in different ways. The Software that enables the user to go from one source to another by following hyperlinks is known as Web Browser. The most popular browsers such as Netscape Navigator, Internet Explorer, and Mosaic-are graphical browsers and are being adopted for use within organization to access the Intranets. The basic capabilities of a browser are to retrieve documents from the Web, jump to links specified in the retrieved document, and save and print the retrieved documents. Web can performed several options so in my system web based commercial transaction system is used.

4. Implementation of the System

According to figure 3 the homepage can be learned every user. The most popular watches and clocks can be seen.

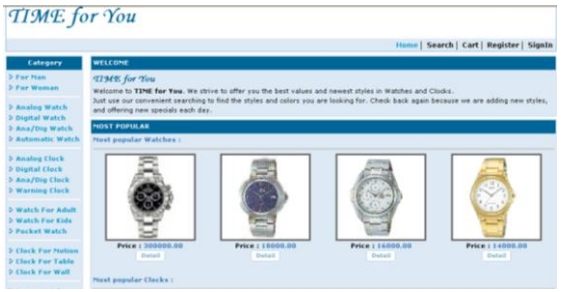

Figure 3 Home Page

The user clicks the register menu, account register may be seen and fill in given box.

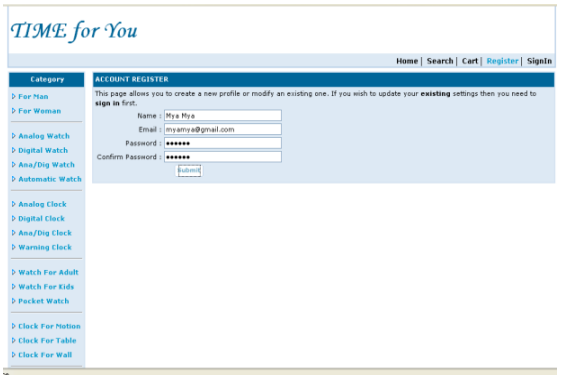

Figure 4. Register page

The guest can enquiry watch and clock by using search box and he can write this. Example, select the watch name from search box and Q&Q watch is written, Q&Q watch will appear.

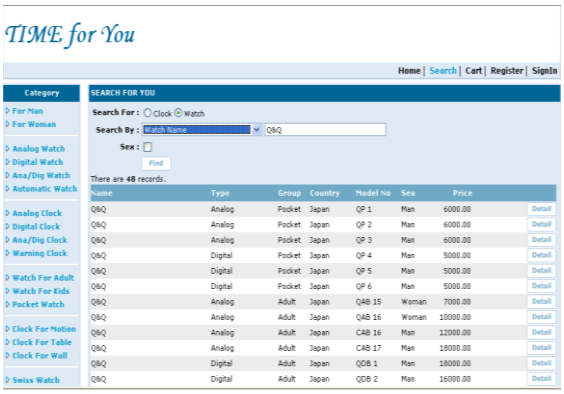

Figure 5. Search for you page

The user can learn detail information about watch. This page is choose the pocket watch from him and click the detail button.

Figure 6. Detail information about watch

Figure 7 show that user was bought the watches. In this page, administrator alert reply to user.

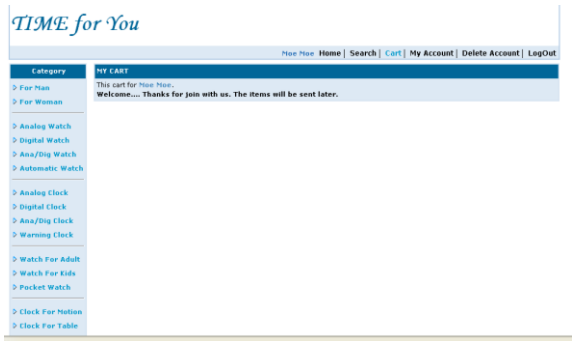

Figure 7 My cart page

Figure 8 shows seen from admin side, set up, listing, report and category can be performed.

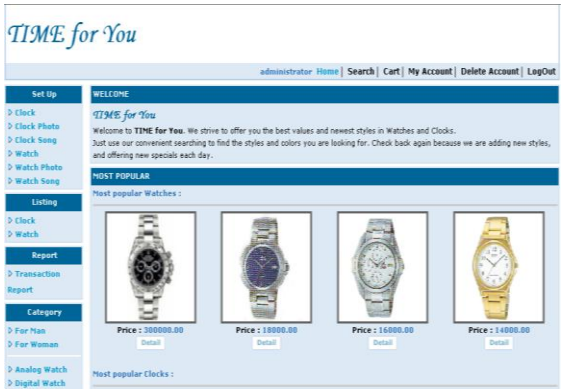

Figure 8. Home Page of the Administrator

According to figure 9, admin can add the watches and clock in the setup page.

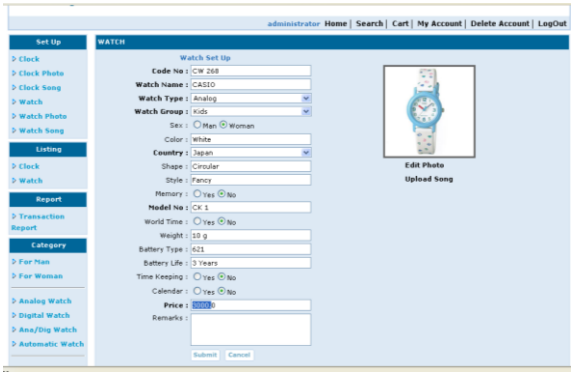

Figure 9 watch setup page

In this way, transaction report page can be seen as shown in figure 10. Hence admin can search the sale date choosing the report button.

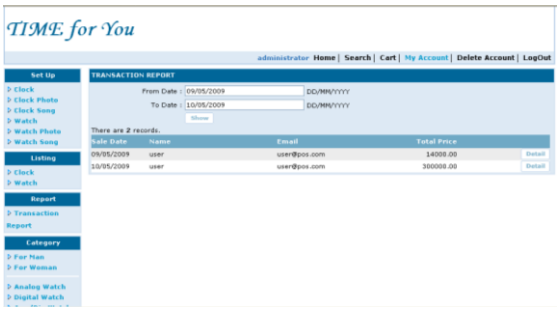

Figure 10 Transaction report page

5. Conclusion

A Web-Based Commercial Transaction system for Watch Store has been developed using buy-side procurement system. This system can support customers with quick and accurate information. Hence, users can inquire the information about watch store. When specific information for a watch clock is needed, the appropriate data items are manipulated as necessary, and the user receive the resulting information. This system can be applied not only for watch store but also for any web_based system in the future.

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[26] ^ Shopping Comparison Engines market worth £ 120m-£140m in 2005, says E-consultancy

[27] ^ "Price comparison portals listed and categorized". eCommerceOptimization. http://www.ecommerceoptimization.com/comparison-shopping- listing-guide/.

[28] ^ A transaction is a group of operations that are atomic, consistent, isolated, and durable (ACID)