# Web-Based Information System for Furniture Sale

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***Abstract:*** Tikno Jaya is a shop engaged in furniture sale and marketing, the sale process carried out is still through catalog media and displaying furniture in store so it needs a system that can provide and share information to the public quickly through the website. The process of making a new system is done by analyzing the existing system in the store, then making DFD and ERD and it proceed with web designing with structured programming techniques using the PHP programming language and MySQL database. The result of the implementation of the new system is expected to overcome the problems that exist in the information system for furniture sale in the tiknojaya store.

***Keywords:*** *sales information system, e-commerce.*

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## 1. INTRODUCTION

**1.1** Background

The development of information technology is currently expanding widely so as to facilitate the access needed by the community. Moreover, information is now spread very quickly throughout the world, where almost the entire world uses technology facilities as a medium to spread existing information. With this reality we are required to be able to solve existing problems by utilizing the sophistication of technology that can help solving our problems everyday. Sales activities carried out by Tikno Jaya stores so far have only relied on strategic location, close acquaintances and are still using the old way where sales are carried out by displaying furniture in the store, thus selling is less effective. Therefore, Tikno Jaya wanted to increase furniture sale by utilizing the internet as a promotional tool, seeing the condition and existing idea encouraging writer to write a journal with the title "Web-based information system for furniture sale in Tikno Jaya store"

**1.2 Research Problem**

Based on the background above, the author concludes the problem is how to build a web-based information system for furniture sale in Tikno Jaya store.

**1.3 Research Limitation**

So, in order the discussion of this journal did not deviate from the problem, the writer limited the problem only to product information and online furniture sale.

## 2. LITERATURE REVIEW

### 2.1. E-Commerce

E-Commerce is a new system or paradigm in the business world, which shifts the traditional trade paradigm into electronic commerce by utilizing ICT (Information and Communication Technology) technology, or in other word is internet technology. Definition of e-commerce in general: "The process of buying, selling, whether in form of goods, services or information, which is done through the internet media". According to Stefan Probst (Opticom), the definition of e-commerce is "Business conducted electronically that involves business activities in form of business to business or business to consumers through internet technology." E-business is a transaction that uses electronic media that is used to sell or the purchasing process or the buying process of one or more products by using ICT technology. In general, interactions and transactions between business people who will use e-commerce technology can be categorized in the types of B2B (business to business), B2C (business to consumer), C2B (consumer to business), and C2C (consumer to consumer). ( ayuSofianty and C. Triwibisono, 2011.)

### 2.2. Definition of Information System

According to Gordon B. Davis (2002: 27), an information system is a system within an organization that brings together data processing needs to support the operation, managerial and strategic activities of a particular organization with the report that is needed. (MakaraDewangga, 2011.)

### 2.3. Information Concept

"According to Jogiyanto (2005, p.8), information is data that is processed into a form that is more useful and more meaningful for those who receive it.

Information is a very important presence in an organization. Information must be precise and accurate so it can guarantee the survival of a company. A system without information will not run smoothly and will eventually end. "(VonnyYuliarita and TrisnaWijaya, 2011.)

## 2.4. MySQ

MySQL is a fast and powerful database, it is very suitable when it combined with PHP. With a database, we can store, search and classify data more accurately and professionally. MySQL uses SQL (Structure Query Language) means that MySQL uses queries or programming languages that are already standardize in database field (FathurRohman, 2010).

MySQL includes the type of RDBMS (Relational Database Management System). So terms like table, row and column are still used in MySQL. In MySQL, a database contains several tables, the table consists of a number of rows and columns. (ParuhumSalehNasution, 2011).

## 3. METHODOLOGY

Data collection methods was conducted by using data collection techniques including:

3.1 Observation

Direct research in the location of the research is done to get the data needed for research so the authors directly observe the object under study in order to get accurate primary data or secondary data.

3.2. Interview

It done with question and answer verbally to the shop owner who has the authority to provide the required information directly to the author.

3.3. Document Study

The study to obtain information that is available by taking notes in literature or scientific books relating to the problem discussed.

## 4. Analysis and Design

### 4.1 System planning

DFD is one of the components in a series of designing a computerized system. DFD describes the flow of data from the source of the data provider (input) to the recipient of the data (output). The data flow needs to be known so the system maker knows exactly when a data must be stored, when to respond (process), and when to be distributed to other parts. There are 3 levels in Data flow diagram (DFD), namely context diagram, level 0 diagram, level 1 diagram.
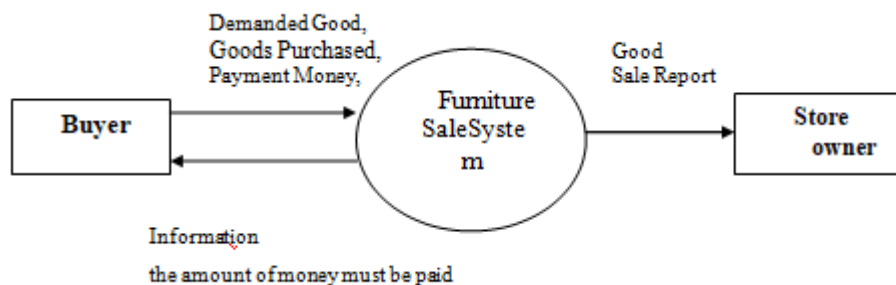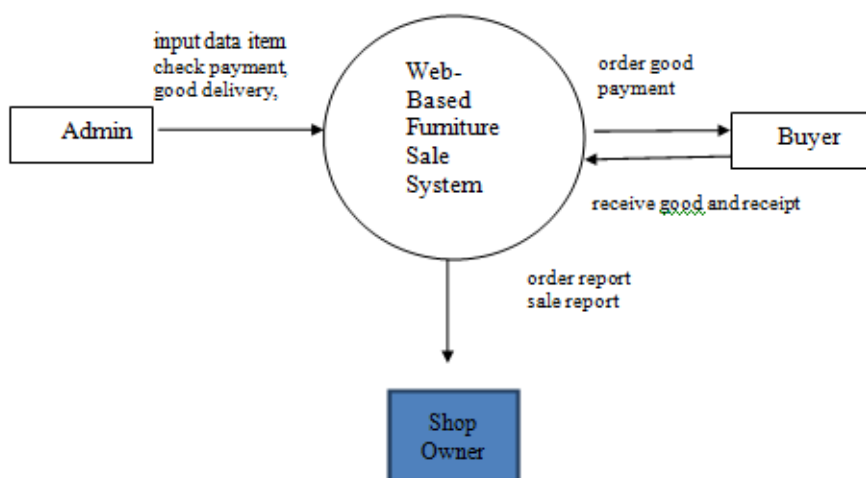
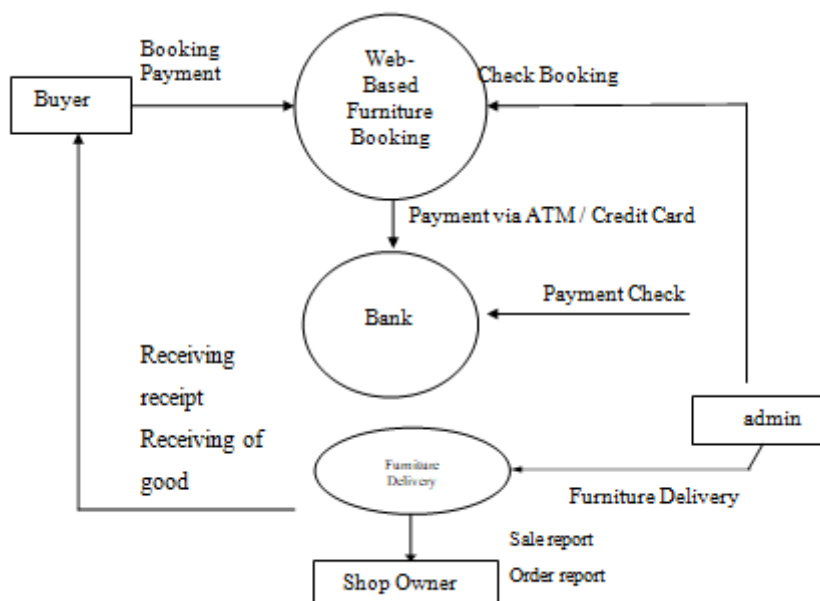**Figure 1.**Context diagram



**Figure 2.**Level 0 diagram



**Figure 3.**level 1Diagram

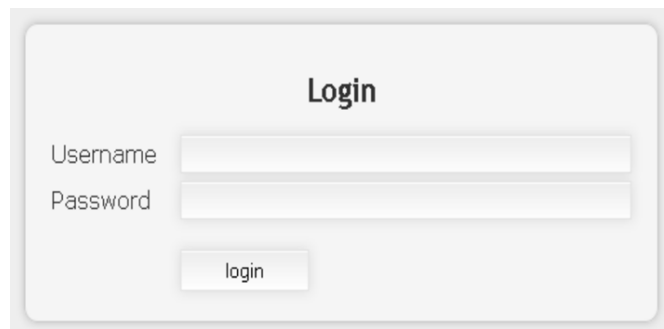**4.2 Research Flow Chart**

1. **Login page**

   The user login home page to enter the main menu by entering a username and password that matches the database.

2. **Home page**

   The page for visitor to see the product page, registration page, profile page and how to order. Visitors are not accustomed to making reservation before registering.

3. **Registration page**

   The page for customers who want to place an order, by logging in and entering a username and password, if it matches the customer enter the main menu for ordering products.



Figure 4. Login page



Figure 5. Homepage

Figure 6. Registration page

## 5. **Conclusion**

Based on the result of research and discussion that has been done, the following conclusion can be drawn:

1. Created an e-commerce website to facilitate buyers in accessing data about product and price offered by Tikno Jaya store.

2. This website sale information system works well in developing product promotion by informing widely.

3. The system can be used in ordering goods needed by consumers who come from outside the area for 24 hours straight.

4. The system can be used to manage sale data, order, delivery payment for furniture

**REFERENCES**

[1]. Prasetya Eka, and Adhy Sugara, 2011. in Sistem informasi pencarian dan penjualan barang berbasis web: STMIK Palcom Tech. Palembang

[2]. Sofianty Ayu, dkk, 2011. Perancangan dan Implementasi Aplikasi e-commerce Penjualan Mesin Pada PT Gapura Jaya Graphindo , Politeknik Telkom. Bandung.

[3]. Yuliarita, Vonny dan, Trisna Wijaya, 2011. Sistem Informasi Penjualan Furniture Berbasis web pada PT Sinar Musi Cemerlang, STMIK GI MDP. Palembang.

[4]. Dewangga, Makara. 2011. Sistem informasi berbasis web distro otakiri Yogyakarta, Stmik Amiko. Yogyakarta.

[5]. Handita, Ditya Banu, dkk. 2011. In sistem informasi penjualan berbasis web pada unsantex.

Universitas Muhammadiyah. Surakarta.

[6]. Nasution, Paruhum Saleh. dkk. 2011. Sistem Informasi Penjualan Produk Berbasis Web di Distro Black Hell Bandung, Politeknik Telkom. Bandung.