PAPER • OPEN ACCESS

A WEB-BASED ONLINE STORE APPLICATION FOR FABRIC MATERIAL SALES

View the article online for updates and enhancements.

A WEB-BASED ONLINE STORE APPLICATION FOR FABRIC MATERIAL SALES

Alfonso[*], Dali Santun Naga, Zyad Rusdi
Information Systems Department, Faculty of Information Technology
Universitas Tarumanagara

*alfonso.825160005@stu.untar.ac.id

Abstract. Internet can make business run easier to have information about products and service available to their potential customers. The use of information system such as online store is needed to facilitate customers in getting fabric material product information, convenience, and efficiency in making purchase. This study aimed at solving customers problem that must manually come to an offline store to make a purchase. Data was collected by interviewing a company that focus on fabric material sales. The result of this study is the website application for online store, made using Yii PHP Framework and MySQL database is uses to store information.

Keywords: *fabric*, *PHP, Website*.

1. Introduction

The main purpose of this website application is to facilitate customers in getting fabric materials product information, convenience and efficiency in making purchases. Because without the website application, customers will have difficulty in obtaining information about the type of fabric materials, availability of goods, and price information. Also without a website application, customer must manually come to an offline store to make a purchase. This problem will lead an impact on the reduced intention of the customer to make a transaction [1]. As we know that one of the most important activities in the company is a sales activity, the main purpose of the company is a large profit and return on investment [2]. To solve this problem, the solution given is to create a web-based online store application. Through online shopping, customers can get the product easily by just typing the product keywords or select from the product menu rather than physically finding the product in the market, also online shopping has facilitated the customers according to their needs and demands by just entering the detail about the products [3]. In order to keep the important activities, this website application is hoped to solve the problem.

2. Method and materials

2.1 Data Collecting Method

Interviewing as a data collection method is use to collect all the data needed. This method contains preparing for interviews and implementing interviews that includes accessing the sample, conducting the interview, transcribing and analyzing interview data [4]. Interview was held on a company that focus on fabric material sales and production.

2.2 System development method

To develop this website application, System Development Live Cycle (SDLC) models waterfall method is used as information systems development method (ISDM). SDLC model waterfall is selected because this model works well for projects which is the quality control is a major concern.

This method is neater and structured, so that each of the process completed carefully step by step not overlapping stages and keeps the quality of application. SDLC is focus on analysis, design, coding, testing, and maintenance [5].

2.3 Materials
The data materials that being used are primarily and secondarily collected. Those data that primarily collected are the fabric material products data such as type of products, size, price, delivery information, and data that secondarily collected from internet are the photos of fabric material products and color.

3. Literature Review
Internet can make business run easier to have information about their products and service available to their potential customers [6]. Information system provides online customers with information product and service, led customers to demand more control, greater efficiency, and less effort during make a purchase [7].

4. Result & Discussion
The input and output process in the system are designed based on Context Diagram (Figure 1) here is the explanation, customer provide inputs to the system such as customer data, order data, proof of payment to the system, system will provide output data such as quotation, invoice, shipping receipt to customer, and return confirmation, incase of faulty goods for replacement. The fabric factory will provide inputs master data to the system. Warehouse will receive ordered product data as an output from system. System will provide an output delivery data to expedition, then expedition provide shipping receipt and it will be input to the system. The head company will get all the sales report from the system.
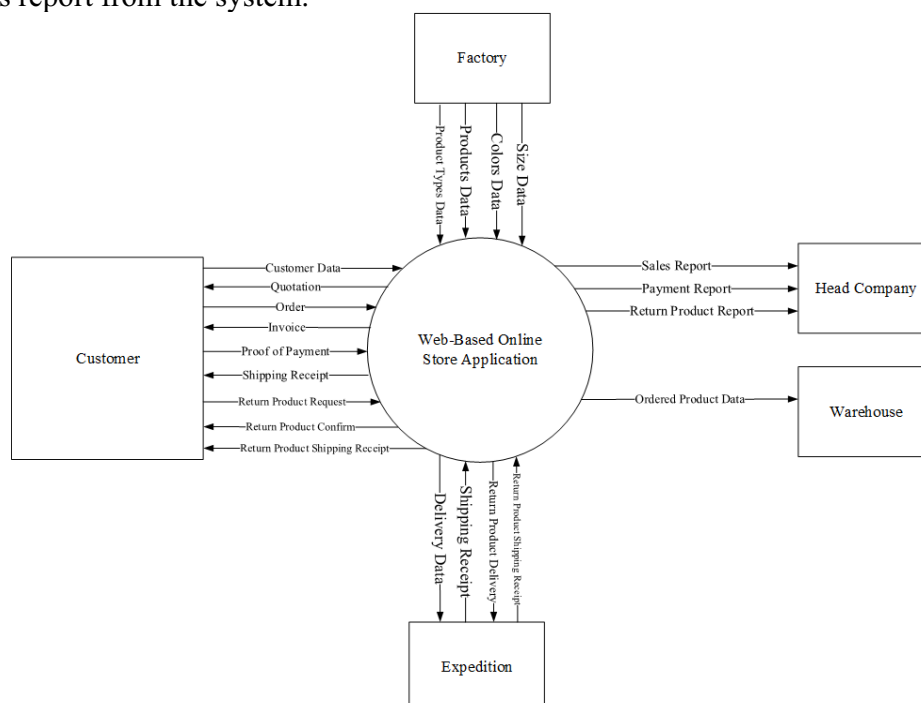

Figure 1. Context Diagram

The making of this website application uses Yii PHP Framework to develop the website pages to visualizing the information from the database. MySQL database is uses to store information about the fabric material products data that collected.   The database is design based on Entity Relationship Diagram (Figure 2).
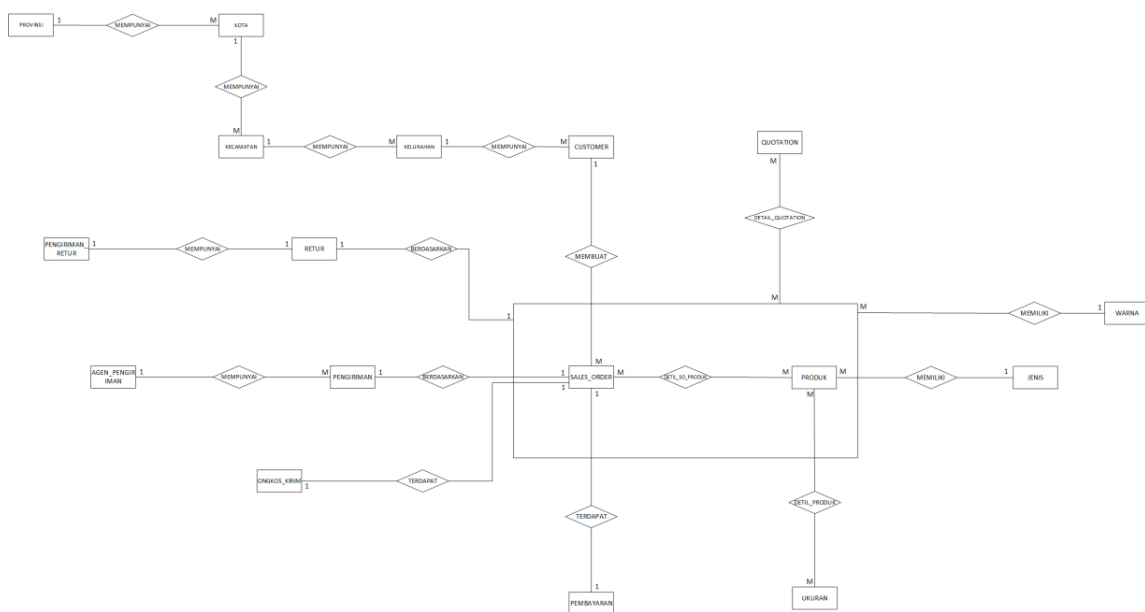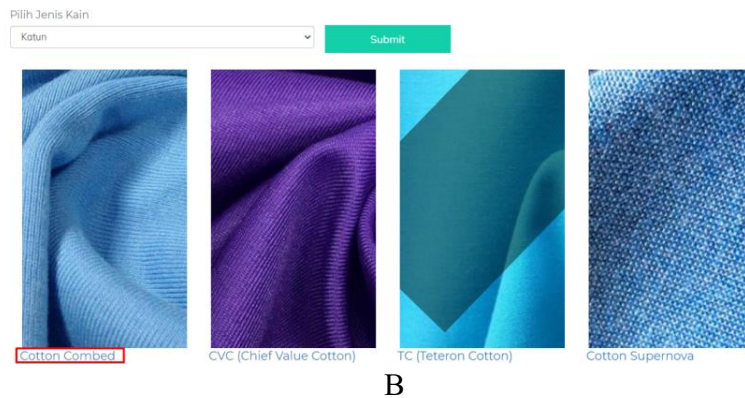

Figure 2. Entity Relationship Diagram

4.1 Display a product

This website application could display the product data by clicking the product menu, and select one of the products by clicking it, it will display the information about the product selected (Figure 3).

Home   About   Produk   Quotation   Cart   Order   Retur   Contact   FAQ

A

B

C

Figure 3. Products Menu
A. Option to select product menu **B.** Option to select one of the products
C. Display information about the product

4.2 Display The Details of Product
This website also display the detail of product selected (Figure 4)

Figure 4. Product Detail

4.3 Locating Delivery

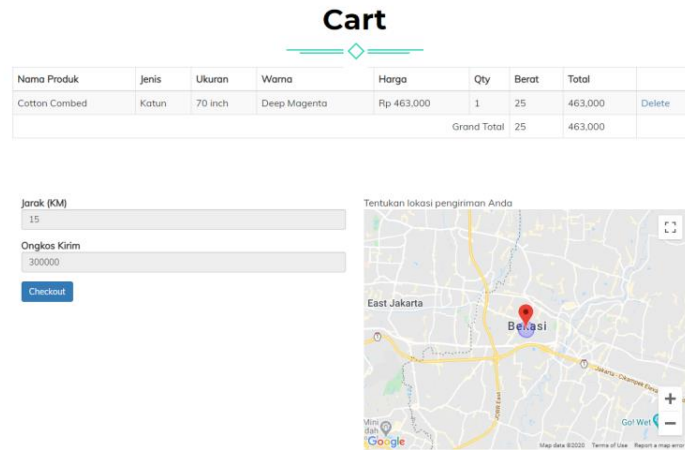This website application is also provided with locating delivery area and shows estimated delivery fees (Figure 5).

Figure 5. Display Locating Delivery Area

5. Conclusion

Since this website application provides the detail information such as the type of fabric materials, availability of goods, provided picture, delivery and price information. also This website application is hoped to become a solution for more convenience and efficient towards customer when making a purchase. Also, by using this website application, company could reach more customers to expand their markets.

References

[1]   Hardianto, M. A., Witanti, W., & Komarudin, A. (2017). Sistem Informasi Penjualan Produk Benang Pada PT. Central Georgette Nusantara Cimahi. Prosiding SNATIF, 381-389.

[2]   Irmansyah, I. (2016). SISTEM INFORMASI PENJUALAN BENANG TEKSTIL ACRYLIC BERBASIS WEB (Studi Kasus PT. Acryl Textile Mills Tangerang). Jurnal Sistem Informasi, 5(1), 76-81.Santos, D. P. D. (2017). The influence of online social media platforms on the choice of restaurants (Doctoral dissertation).

[3]   Nazir, S., Tayyab, A., Sajid, A., ur Rashid, H., & Javed, I. (2012). How online shopping is affecting consumers buying behavior in Pakistan?. *International Journal of Computer Science Issues (IJCSI)*, *9*(3), 486.

[4]   Byrne, M. (2001). Interviewing as a data collection method. AORN journal, 74(2), 233-233.

[5]   Alshamrani, A., & Bahattab, A. (2015). A comparison between three SDLC models waterfall model, spiral model, and Incremental/Iterative model. International Journal of Computer Science Issues (IJCSI), 12(1), 106.

[6]   Vesterby, T. C. M.(2001) E-marketing.

[7]   Jarvenpaa, S. L., & Todd, P. A. (1997). Is there a future for retailing on the Internet. *Electronic marketing and the consumer*, *1*(12), 139-154.