

## **Information System Design Website-Based Packaging Box Ordering**

**Handini Widyastuti**

[handini.hwy@bsi.ac.id](mailto:handini.hwy@bsi.ac.id)

**Universitas Bina Sarana Informatika**

**Riswandi Ishak**

[riswandi.rik@bsi.ac.id](mailto:riswandi.rik@bsi.ac.id)

**Universitas Bina Sarana Informatika**

**Husni Mubarok**

[husni.hub@bsi.ac.id](mailto:husni.hub@bsi.ac.id)

**Universitas Bina Sarana Informatika**

**Fattya Ariani**

[fattya.fty@nusamandiri.ac.id](mailto:fattya.fty@nusamandiri.ac.id)

**Universitas Nusa Mandiri**

**Ade Christian**

[ade.adc@nusamandiri.ac.id](mailto:ade.adc@nusamandiri.ac.id)

**Universitas Nusa Mandiri**

### **ABSTRACT**

Currently many people are interested in entrepreneurship in various fields by using the sophistication of information technology. This has become a phenomenon and a huge business opportunity, one of which is Box Packaging. The need for packaging a product every day is increasing. The main function of a packaging is to protect the product so it is not easily damaged. The waterfall model provides a sequential or sequential software lifeflow approach starting from analysis, design, coding, testing and support stages to make it easier for management to report the results every month, provides information and understanding in designing ordering systems. As a result to search for a problem on the web. Can find out how the manufacturing process and materials to make a box. With this web- based packaging box ordering information system, it can make it easier for admins and customers to process packaging box orders. Because the application is equipped with online ordering so that the admin can easily manage customer data. It is hoped that it will make it easier for the admin so that purchase and payment transactions are stored more securely so as to minimize loss of customer data and customers can also consult packaging boxes first so that they are according to their wishes.

**Key words:** Information System Design; Goods Ordering System

## **INTRODUCTION**

At this time many people are interested in entrepreneurship in various fields using the sophistication of information technology. This is a phenomenon and a very large business opportunity, one of which is Box Packaging. This packaging box makes several kinds of boxes such as Cake Boxes and Acrylic Boxes according to design requests from consumers or their own designs.

The need for packaging a product every day is increasing. The main function of a package is to protect the product from being easily damaged. According to Kotler, "packaging is the activity of designing and producing containers or wrappers as a product" (Narimawati & Pararatya, 2022). Packaging is part of a formal product, which includes packaging, features, brand name, styling and quality, which means that a product is associated with its packaging form, completeness or features, brand, model, and quality of materials.

In some companies, this ordering system has not been computerized because the procedures contained in it are still not computerized so that in carrying out transactions there are still errors such as recording data on goods that are not well documented, recording purchase transactions, invoice payments that are often missed because they are not well documented. With the implementation of the current system, there is a risk of data manipulation because manual transaction recording is still vulnerable, so that the results obtained are less fast and accurate.

## **LITERATURE REVIEW**

### **System**

The system is a unit consisting of components or elements that are connected together to facilitate the flow of information, energy or material in achieving goals. So in conclusion, the system is a unit of interrelated parts that are in the area and have driving items.

Chr. Jimmy L stated that "the characteristics of the system are A system is a relationship between one unit and other units that are interrelated with one another and cannot be separated and go towards a unity in a series of predetermined goals." (Nurlaela et al., 2020)

### **Information**

Definition of information according to (Martin Halomoan Lumbangaol, 2020) information is the result of data processing that is relevant and has benefits for its users. The definition of information according to (Rasid Ridho, 2021) information is data that is managed into something that is more valuable to the recipient in order to help make a decision.

## **Information System**

Information System According to Muh. Rasyid Ridha "Information Systems are technically defined as a set of interconnected components, collecting, processing, storing, and distributing information to support decision making and supervision in an organization. Information systems imply an organized collection of data along with procedures for its use that go further than just presentation ".  
(Annisa Putri & Haris, 2021)

## **Website**

Website can be interpreted as a collection of pages that display various kinds of data text information, still and moving images, animated data, sound, video or a combination of all, both static and dynamic, which form a series of interrelated buildings where each is connected by a network of pages or hyperlinks. In general, a website is a collection of various web pages summarized in a domain or sub domain, which is on the WWW (World Wide Web) and of course on the internet. Web pages are usually documents written in HTML (Hyper Text Markup Language) format. (Siti et al., 2021).

## **METHOD**

The method used in this software development uses a model, namely the waterfall model. According to A.S Rosa and M. Shalahudin (2018: 29), "The waterfall model provides a sequential or sequential software lifeflow approach starting from analysis, coding design, testing and support stages".

## **RESULT AND DISUSSION**

### **Stages of System Design**

In the ordering application, there are two users who can interact with each other in the system environment, namely the admin and the customer. These users have different characteristics of interaction with the system and have different information needs as follows:

1. Admin Scenario
  - a. Admin can login as administrator.
  - b. Admin can manage item data.
  - c. Admin can input order data and payment confirmation.
  - d. Admin can manage and access order reports.
  
2. Customer Scenario
  - a. Customers can login.
  - b. Customers can see product packaging.

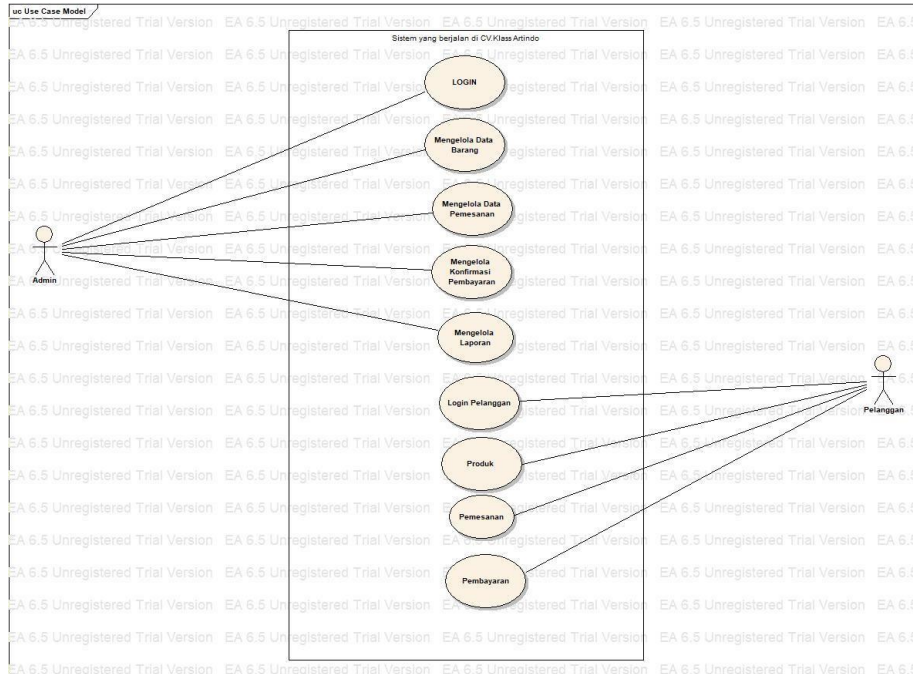


Figure 1  
Use Case Diagram

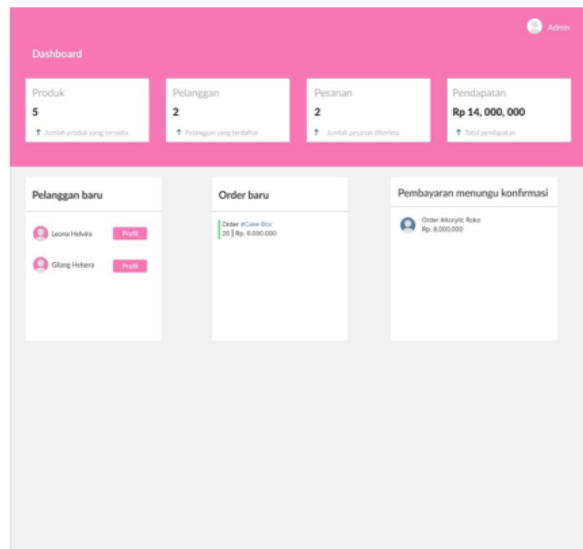


Figure 2  
Admin Dashboard Display Design

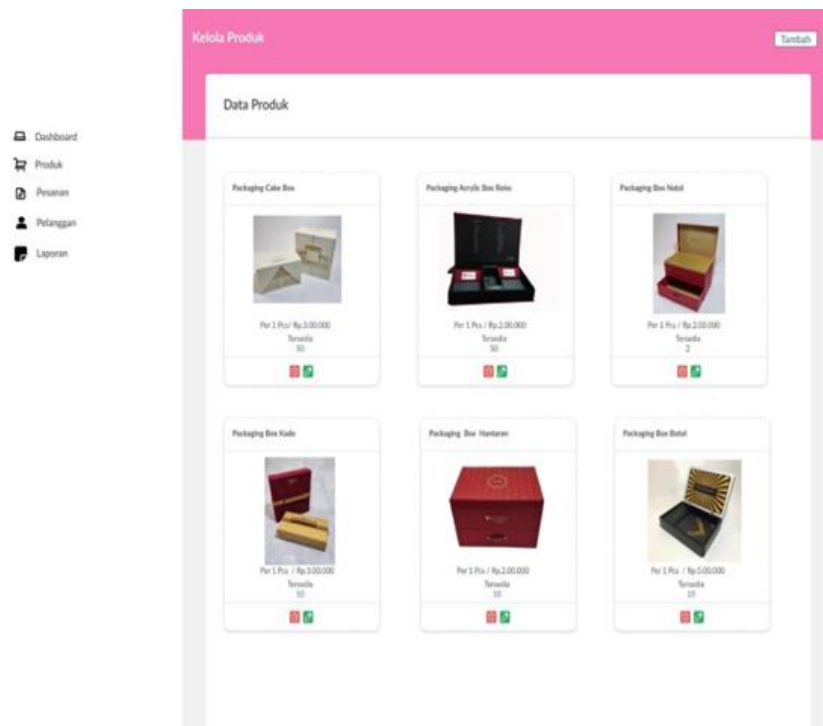


Figure 3  
Customers Display Design

## CONCLUSION

The design of this packaging box information system is a development of the existing system, but it's just that the existing system has not been computerized and the information obtained by customers is still very limited. So from the results of the previous discussion, it can be concluded that:

1. With this web-based packaging box ordering information system, it can make it easier for admins and customers to process packaging box orders. Because the application is equipped with online ordering so that the admin easily manages customer data
2. With this web-based packaging box ordering system, it is hoped that it will make it easier for the admin so that purchase transactions and payments are stored more securely so as to minimize loss of customer data.

With this web-based packaging box ordering system, customers can also consult packaging boxes in advance to suit their wishes

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