

Utilization of The “BUKAOLSHOP” Application as a Sales Media MOCHICECREAM

Novi Sukma Drastiawati^{1,*} Lutfiyah Nur Rasyidah² Setya Candra Wibawa³

¹ Mechanical Engineering Department, Universitas Negeri Surabaya, Indonesia

² Management Study Program, Faculty of Economics and Business, Universitas Negeri Surabaya, Indonesia

³ Informatics Department, Universitas Negeri Surabaya, Indonesia

*Corresponding author. Email: novidrastiawati@unesa.ac.id

ABSTRACT

At this time the role of technology is very important as a supporter of activities in various fields, one of which is in the industrial sector, especially in buying and selling activities. MochIcecream is a home-based business that requires advanced technology at this time. Therefore, MochIcecream utilizes the BukaOlshop application to assist in selling its products. The purpose of this study is to identify features in the BukaOlshop application that can support buying and selling activities for MochIcecream products. The method used in this study is the waterfall method, including needs analysis, system design, system implementation, system testing, and system maintenance. This research produces features in the BukaOlshop application that can be used to support buying and selling activities for MochIcecream products. So it can be concluded that the BukaOlshop application can help in selling products from MochIcecream.

Keywords: applications, BukaOlshop, waterfall method.

1. INTRODUCTION

Development economic moment is very fast. This can be proven by the number of moments new business fields have emerged, especially in the culinary business. In this century, the activity world trading through over life but growth drastic changes in technological sophistication has changed the paradigm [1]. Of the many culinary business fields, every seller will make various efforts so that the business continues to exist, develop, and be able to compete with other businesses. Therefore, it is necessary to have a sales media that can provide convenience, speed, accuracy for sellers, and easy for buyers to find and get a product. Seeing the movement of technology increases, as well as fierce business competition, sellers can take advantage of technology smartphone support activities application for the product buying and selling by making in the field of sales can market via the application. The system name is e-commerce. E-commerce one of the developments is benefits both parties, namely consumers and producers. BukaOlshop is a platform application that can be used for making application e-commerce easy. Application results e-commerce from BukaOlshop can be used as a medium for selling goods or services and or as a medium for delivering information and media for transactions for these goods or services. Transactions on the application

BukaOlshop can be done directly on the application using the transfer via bank account or use banking services. Application BukaOlshop can be used for buying and selling goods or products in a relatively short time even though the distance is far apart. Prospective buyers or consumers can use the application and order online. MochIcecream is a home-based business in the culinary field that sells desserts and still doing the buying and selling process manually. The buyer should come to the place to buy the product. The manual buying and selling process is deemed less effective and efficient. Therefore, one way to make the buying and selling process more effective and efficient is to create an application that makes it easy for you to buy and sell buyers. Technology and the internet, which is an internet service that is used for buying and selling online. Ecommerce is the spread, buying, selling, marketing of goods and services through electronic systems such as the internet or television, websites, or other computer networks [2].

Khairul Rizal reported about Drug Sales Information System Design Desktop Based with Waterfall Model. This research found the analysis sales in Zam-Zam pharmacy data processing then it can be retrieved conclusions from the results of this study slow transaction processing such as processing prescription checking, and late submission of reports due to lots of

work done manually. There is an information system computerized drug sales will make all activities easier sales and mistakes occur by using a system that still manual can be minimized, the system which has been computerized capable of product information or output that more precise and accurate, and for models waterfall model system development [3].

The study Software Development Projects Characteristics (SDLC) decide that it would be suitable for developers and testers to understand for their project. The waterfall method is the sequential type and it is called traditional SDLC. This sequential method, the start of the next phase after completion of the first phase[4].

E-commerce can involve electronic funds transfer, electronic data exchange, automated inventory management systems, and automated data collection systems. With e-commerce has changed a lot in the buying and selling process. If in a sale and purchase the seller and buyer meet, but if e-commerce they do not need to meet, they interact via the internet or by communication by telephone or chat. In this process trust main capital. However, due to problems, it has not been developed to complete [5].

These limitations include low internet distribution, low habitual internet distribution, security issues, and the problem of intellectual copyrights [6]. A Waterfall system is used to improve service to consumers through an information system, using the waterfall model. Which aims to assist the ordering process to promotions. Where is the target for service improvement to consumers can be fulfilled, namely consumers can see directly the results of the project that has been implemented by the production garage, and then consumers can directly choose the package you are interested in through the front end service, then the web admin can immediately respond customer orders through back end services[7]?

An example of an online market is Online Shop for ST. John's Collection has been completed examined and evolved. The completed system application, which is web-based, is expected to be developed for full operation and integrated testing was implemented. The results of the examination were substantial, the system was found to be efficient, reliable, and robust enough for shopping and online trading [8].

Other research reported that a project type that is hard to be handled in an Agile methodology is a difficult project with multiple teams working synchronously on different parts of the application. This type of project is nearly a Waterfall project. For projects difficult to categorize as being either Waterfall or Agile other SDMs (Software Development Models) need to be explored [9].

Platforms that become an application. BukaOlshop is an application to create an online store android based. In code structure, web and android based applications have differences. Luckily, there is now an android based

online store maker application. So, there is no need to bother making the code structure of the android application. open-shop generates APK files that can be uploaded to the play store or installed yourself. The application file generated by BukaOlshop is a privately owned online store and the seller can manage the store. Sellers can create their online shop according to their wishes for free, easy, fast, cheap, and without any coding. What are the advantages of BukaOlshop? [10]

1. Upload your Products. Sell your products in your shop.
2. Support Dropship Did someone else send your product? BukaOlshop supports multiple addresses delivery for each product.
3. Push Notifications. Send notifications directly to each of your member's phones. Send notifications directly to each of your member's phones.
4. Customize Your Page. Make your online store more professional with your page.
5. Chat with your Members & your members can interact with the Chat feature in the application open your shop and online shop.
6. BukaOlshop automatically creates the application file that you can upload to the play store.

2. METHOD

The method used in this study is the waterfall method. The waterfall model is a model online through the BukaOlshop application. The waterfall model is systematic and sequential in building software. The manufacturing process follows the flow from analysis, design, code, testing, and maintenance [11], [12]. The method used in this information system is the waterfall according to five stages of the waterfall model, namely (1) defining and analyzing need; (2) software and system design; (3) implementation and unit testing; (4) system integration and testing; (5) operation and maintenance. This method is often used by system analysts in general. The essence of the waterfall method is that the work of one system is carried out sequentially or linearly. So each stage must be completed first in full before proceeding to the next stage to avoid repetition of stages [11]. From the figure 1 the stage of waterfall method are

1. Requirement Definition

System requirements are carried out to help describe user requirements into a system design which will then be made into an application program.

2. System Design

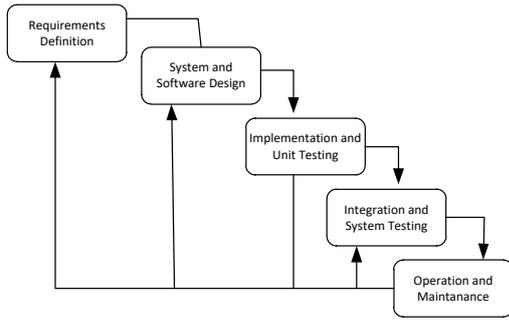


Figure.1. The waterfall development model [11].

Design of application features that will be displayed on the application display. In this case, the admin has access rights to enter the admin page by logging in first and processing data. all the data on the admin page. Meanwhile, the user is not entitled to enter the admin page. User (user) only has access such as viewing the products being sold and making sales transactions when becoming a member to buy a product.

3. System Implementation

At this stage, the design of the application features that have been designed will be implemented by an application.

4. System Test

System testing is carried out to find out whether the application that has been made is as expected or not.

5. System Maintenance

The final stage is where an application that has been completed will be monitored and maintained so that it can continue to be used in the long term.

3. RESULTS AND DISCUSSIONS

Results from a design made could application well executed. The application has advantages are easy operated, ordering and payment processes are easy and more effective and efficient for the buyer. The steps of MochIcecream on waterfall method are :

Requirements Definition

a. Sellers analysis

1. Seller add, edit and delete data seller
2. Seller add, edit and delete data product
3. Seller edit replace the product
4. Seller adds price and removes menu category.

5. Sellers can see customers who have already become a member
 6. Sellers can see orders from customers
- b. Visitors (users)
1. Visitors could see the product offered on application MochIcecream
 2. Customers (members) Customers see the product offered on the application MochIcecream. Customers see and give a testimonial on the application.
 3. Customers make transactions purchase after choosing the product
- c. System Requirements for Customers
1. Provide form registration for coming in the basket then visitors who are interested in becoming members containing: name, date of birth, gender, address phone number, and email
 2. Provide service purchase
 3. Provide product information on MochIcecream.parentheses

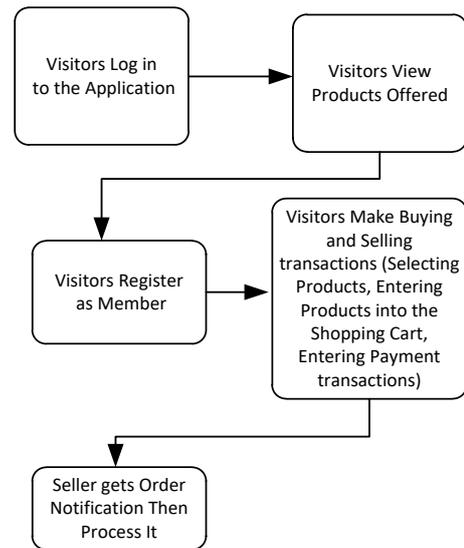


Figure. 2 System design of Mochicecream at BukaOlshop [10].



Figure 3. Display main menu on seller app[13].



Figure. 6 Display of purchase notifications to sellers [13]

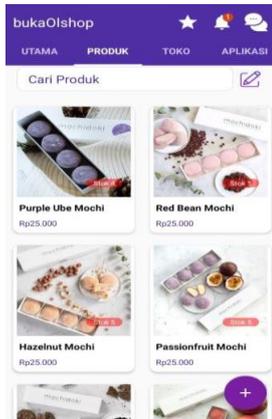


Figure. 4. Display main menu on buyer's app MochIcecream [13].



Figure. 7 Payment transaction display of Mochicecream [13].



Figure. 5 Buyer order view MochIcecream [13].

The implementation system displays, the main menu of the BukaOlshop can be shown in Figure 3. On this side, the seller can upload the product to be sold. Figure 4 shows the buyer menu. Buyers can see the products offered by the seller with detail in this section. Figure 5 shows the display when the buyer will make a transaction by selecting the desired product. Figure 6 shows a message to the seller that there is an order from the buyer. Figure 7 shows that the buyer has made a payment. This shows that a transaction has occurred so the seller has to prepare an order.

Table 1 Test system on MOCHICECREAM application.

Scenario Test	Results that expected	Test Result	Conclusion
Buyer do seller purchase	Got notification on the application	According to expectation	Valid
The seller does not confirm payment from the buyer	Order will not be processed	According to expectation	Valid
Buyers make purchases required	Become a member	According to expectation	Valid

Table 1 shows a test carried out to find out the steps in making a transaction so that a sale and purchase agreement occurs. This section also shows how the buyer becomes a member.

The seller should update his business account to add product variants, and other advantages offered as in the picture.



Figure. 8 Maintenance system for seller [10].

Figure 8 explores a menu to perform maintenance from the BukaOlshop. The menu is done by upgrading the application at a predetermined cost. There are several kinds of benefits that can be taken by the seller after upgrading, such as the number of product uploads.

4. CONCLUSIONS

Based on the results and discussion concluded above the application BukaOlshop is very helpful and makes it easier for sellers in marketing their products. The development of this application is very important, especially to overcome today's business competition, especially in doing business transaction activities starting from the buying and selling process, storing product data, changing product data, and deleting product data to produce useful information fast, precise, accurate and interesting for customers. The application is made with a well-planned design to generate app clarify and simplify the processing of transaction data. By making this application, it is hoped that it can prevent the occurrence of lost or inappropriate sales data that information that is up to date about the new MochIcecream product in this application. For application development. In the future, to make it better and more attractive to customers, the researcher gives suggestions that the seller should update the application on the business account to get better features to support product buying and selling activities. It will be easier to use to reduce the error that might happen. It is necessary to back up data to anticipate if there is an unexpected disturbance so that the data can still be controlled properly. Making this application more quickly recognized by the wider community, then it can be uploaded to the play store or share with others.

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