



Development of National University Web-Based Digital Library Information System

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ABSTRACT

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Management (SCM) is planning, organizing, coordinating and controlling all supply chain activities. Supply Chain Management prioritizes the flow of goods between companies from upstream to downstream (from company to shop) and involves suppliers to customers. This Supply Chain Management will provide capabilities regarding the importance of managing the supply chain in creating an efficient and effective manufacturing system, as well as systematic procedures for managing various activities in order to obtain a transformation so that it becomes a product in process, then becomes a finished product and is forwarded by delivery to consumers through the system distribution. This supply chain management aims to provide sufficient knowledge about SCM and its components, and has the ability to analyze SCM components related to the use of information technology implementation. Supply Chain is the management of various activities in order to obtain raw materials, followed by transformation activities so that they become products in the process, then become finished products and continue with delivery to consumers through the distribution system.

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1. Introduction

Management (SCM) is planning, organizing, coordinating and controlling all supply chain activities. Supply Chain Management prioritizes the flow of goods between companies from upstream to downstream (from company to shop) and involves suppliers to customers [1].

This is what motivates the author how this helmet sale can be done online so that the delivery of information is easy to do and the market reach is wider and it is hoped that it can increase the selling power in the wider market.

This information system will process an analysis of the system that has been made according to the objectives, and also the implementation of the results of the analysis and design. With this application, the seller can manage activities in sales administration and also offer their products online which are easier and more practical while consumers can order and buy helmet products according to their tastes and get information on the specs of these items online via online. can be done anytime and anywhere [1].

Based on the above problems, then: NineOfTen needs this too in order to facilitate buying and selling transactions as well as stock goods, always. also. note the availability of stock items. So far, the seller to process the inventory data still uses the manual method. warehouse admin for item data collection. if the reports that have been written by the warehouse admin will be copied back by. office section to. computer. So that the problem sometimes becomes an error in the process of calculating goods, difficulties. when recording and making reports for incoming and outgoing goods from the receipt [2].

2. Literature review

2.1 Definition of SCM

Radhi and Hariningsih (2019) argue: Supply Chain Management is a series of approaches aimed at integrating suppliers, manufacturers, warehouses and shops. in a manner. effective so that the inventory of goods can be produced and can be directly distributed in quantities, locations at the right time. So that the cost of the entire system can also be minimized for the purpose of satisfying needs and services [3].



2.2 Definition of the Internet

The definition itself of the Internet: a connection between various series of computers that are also connected to each other [4].

2.3 Definition of Online

Online (English: Online) has a specific meaning in the form of telecommunications which means: network connected [5].

2.4 Definition of Website

Website is: a collection of pages that can be connected universally as well as sites that contain a collection of information provided: individuals, groups and organizations [6].

2.5 Definition of SI (Information System)

A system that is useful in some way, in order to bring up the needs in processing the necessary reports [7].

3. Research methodology

3.1 Software Development Methods

This library also uses a system creation method, namely: System Development Life Cycle (SDLC) with a model: Waterfall as shown in Figure:

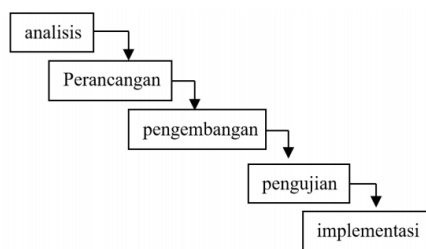


Fig 1. SDLC Model Waterfall

This method: the approach used in the software industry to start project development. from small, medium scale projects to projects. large scale. [8].

This development also has. the stages in it include: analysis of needs (analysis), design (design), development (development), and also the stage of testing (testing), as well as implementation in the real environment (implementation). [8].

a. Analysis Software

This process is carried out intensively to obtain the specifications of the software so that the needs of the store and the customer can be easily understood so that online transactions are made easy, fast, secure, and efficient.

b. System planning

This process is carried out in a multi-step process that focuses on design, program creation and architecture, software, interface system designer, and coding processes. This stage is for software requirements rather than the needs analysis stage by the seller so that the finished design can be easily understood and accessed by buyers via online media.

c. Program Code Creation

The design that is made can be entered into: in the software program. The results at this stage are: the website matches the design that was created in the design stage.

d. Testing

This test focuses from: a functional point of view & ensures that all parts have been tested in order to minimize errors when this program is used by the seller and also the buyer to achieve the desired results.

3.2 Data collection technique

The methodology used in this final project is:

a. Observation

Where the authors get an overview and examples of the system to be made through direct observation to conventional clothing stores and also the internet media.

b. Literature Study

Namely: theories obtained through books and journals related to the web and online sales.

4. Results and Discussion

To be able to make the application later, we will design various analyzes, the design is also determined as in the design in general: needs analysis, application performance is running and also the implementation of the application results.

4.1 Needs Analysis

The analysis of needs is obtained: the seller can manage sales administration activities and also offer his products online which is easier and more practical, while consumers can order and buy products.

The solution to the proposed problem is to create an e-commerce website to solve problems and make it easier for customers to shop without having to come to the store:

a. User Requirements

In an e-commerce application there are two users interacting with each other in a system environment: the Customer chart and the admin chart. As follows:

1) Admin

Admin can process admin data starting from: changing admin passwords, editing goods data, editing category data, editing stock data, editing price data on provincial postage, editing customer data, looking at ordering goods and confirming transfers that have entered the account.

2) Customer (Reseller)

Customers can easily see item / price details on each product and also see products that are sought after by other customers on the home page form on the website.

3) Visitors (Buyers)

Each visitor can see details: complete items and prices for each product on the website home form page, but cannot place an order for goods and confirm and see the account number in the store before registering a new store member.

b. System Requirements

System requirements describe what processes the system will perform later. This system requirement also contains any information that must exist and is also generated by the system. The following is an analysis of the existing system requirements on this e-commerce website application, which are as follows:

- a. If the customer has not registered as a member, then the user is required to register first to get the customer's name and password so that the system can easily find out the customer's identity.
- b. The customer must log in first to get a transaction and also confirm payment by entering the user name and password so that the privacy and data of each customer remains safe.
- c. If the user makes a mistake in entering: username and password, the system automatically does not allow entry to the website page link.

4.2 Use-Case in System Proposal

The following are: use-cases that will also be proposed for the manufacture of this system, namely:

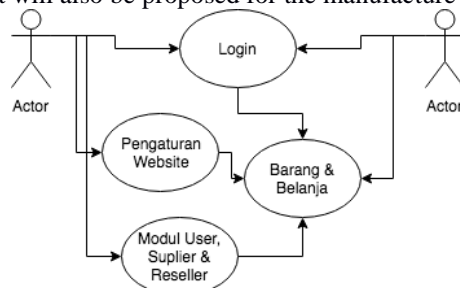


Fig 2. Use-Case Sales System

4.3 Class-Diagram in System Proposal

The following is a class diagram that will also be proposed for making this system, which can be seen in the image below:

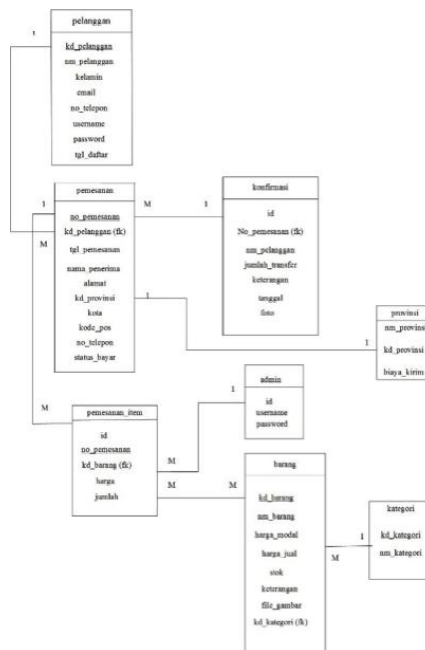


Fig 3. Class-Diagram Libraries

4.4 Implementation on Web Pages

The following is: the implementation results on the web from several depictions of the flows that have been made, the following is the explanation:

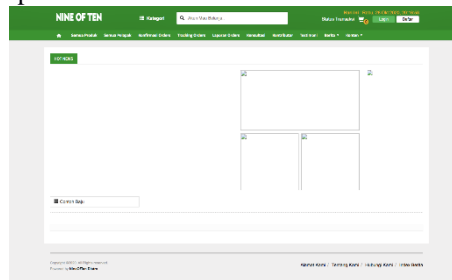


Fig 4. Home page on the website

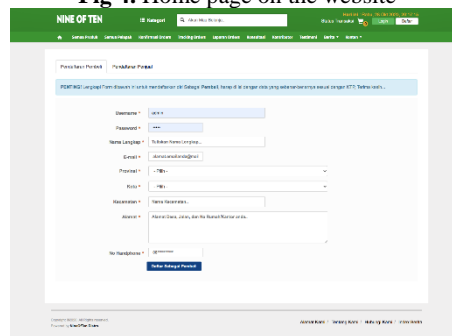


Fig 5. Buyer List Page on Website

In a homepage this functions, namely: Login button to also enter as a member with member features, products also to see available categories and types, register to be able to buy products, service information, and also contact info about the library and the shop name in the footer.

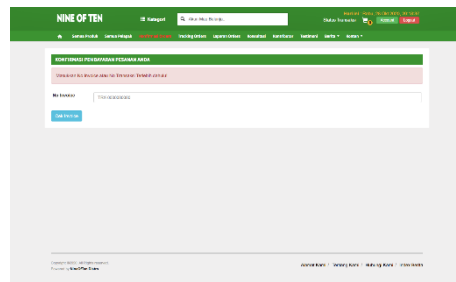


Fig 6. Order Confirmation Page on the Website

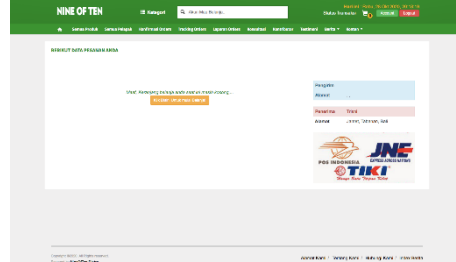


Fig 7. Delivery Confirmation Page on Website

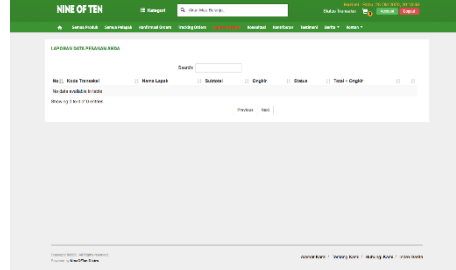


Fig 8. Order Details Page on the Website

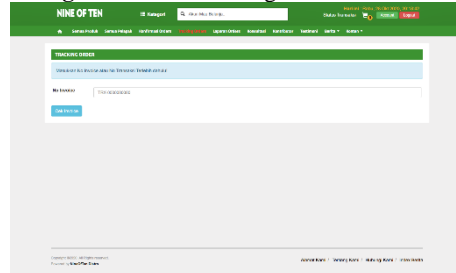


Fig 9. Order Tracking Page on the Website

The following functions are also available, namely: Confirmation button to confirm: order type, there is also a button for a detail of the order displayed, you can also click the tracking button to view the order and the delivery confirmation page to also see the type and cost of shipping.



Fig 10. Admin-Login Page on the Website

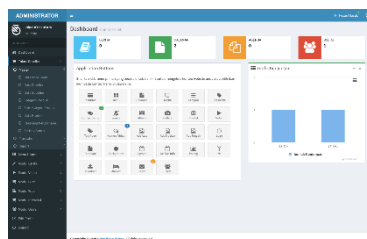


Fig 11. Dashboard page on the website

In a login and admin page, there are also functions, namely: A function for admin to monitor and control things in the panel related to the settings on this sales system in detail.

5. Conclusion

From the discussion with the results above, it can be concluded as follows:

- a. With the web as a promotional medium, it will further increase profits in product sales.
- b. With this website, consumers don't need to be in the store directly to get the product they want, but simply by accessing the website via the internet, they will be able to easily get product catalog information.
- c. With this website too, store owners can easily change store data via the admin login form, starting: changing the catalog of goods, adding stock, and seeing transactions in full: per-day, per-week, and many more.
- d. Even with this website, businesses can run easily and business development can grow quickly.

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