



Website Based Sales Information System With The Concept Of Mvc (Model View Controller)

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ABSTRACT

Website is a form of mass media that is published through the internet that can be accessed anywhere and anytime. At present many trading companies are selling a product using a website, such as PT. Indofood Medan is expected to make it easier for both the sales and reporting sides. The quality of a Website is very necessary for the attractors and attractors of users to carry out the buying and selling process on the website, by using the Model View Controller (MVC) the appearance and usefulness of a website will look more attractive.

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1. Introduction

In the era of digitalization such as the current information, the system is needed to be an accurate and precise target so that it becomes more effective and efficient, in every system of information has a large data to be processed into information but the processing can not be done by the manual way so that technology takes a big part in processing data into an information. The world of trading desperately needs data processing into a piece of information in a large and fast form, so the fact that a digital system is often called E-commerce, in the E-Commerce system can provide some information such as about the items to be offered to consumers, the stock of goods available, the price of capital per item even the profit of each sale. The electronic trading system, the company can increase revenues and profits and can cut other operational budgets.

To facilitate the creation of a website-based information system then authors build a system with the concept of MVC (Model View Controller) so that communication between users and systems is easier and user friendly.

2. Literature

A. E-Commerce

"E-Commerce is a trading activity conducted by electronic means or using Internet network and digital media facilities, where all trading activities can be carried out in various ways without having restrictions. With such a more effective trading activity and efficiency will be made possible anywhere and anytime, in addition to the company and consumers mutually beneficial in time and place. The beginning of a computer network is found, many business companies that have large scales around the world, already using a computer network for electronic trading activities (electronic commerce) to control between businesses." [1].

B. Model View Controller (MVC)

"MVC has 3 models that separate the functions of a system, namely: model, view, and controller. The Model is a module in the business logic of the system and core of a system. View is a user interface model from a controller yang to make the initial appearance of a system to merespond to a usercommand. While the controller is a module in the implementation of a system flow that later as Kontrol between the view module and the model module." [2].



C. Framework CodeIgniter

"Framework CodeIgniter is a framework Web programming framework using the PHP language. The Framework was written using the PHP language version 4 and version 5 BY Rick Ellis Lab who became the CEO of Ellislab, Inc. and WAS published under license under Apache/BSD Open Source. So Codeigniter is an Open Source based PHP framework." [3].

3. Research methods

A. Research Design

Broadly speaking, the stages of the entire study are as follows:

- 1) Describing the issue
Design Describe the problem to give a clear idea in assisting the development of system and database creation because, without the stage description of the problem, the solution obtained will not be optimal. So this step is the most important first step in this study.
- 2) Problem analysis
This stage is a stage to facilitate the designer in understanding the problems that have been defined scope or limitation. By analyzing the problems that have been determined, the problem is expected to be well understood.
- 3) Determining objectives
Based on the understanding of the problem, it is determined that the objectives will be achieved in this study. At this goal specified targets to be achieved, especially those that can overcome the problems that exist.
- 4) Studying literature related to titles
In order to achieve the objectives, then learned some of the literature that will be used. Then the literature learned is selected to be determined which literature will be used in this study.
- 5) Data Collection
The data needed is the data that is in PT. Indofood CBT Medan where the data is retrieved is manual data.
- 6) System Analysis
System analysis is very important, because here the author is required to know the weaknesses of the system, obstacles, obstacles and opportunities that are not able to be achieved by the current system to be found alternative problem solving.
- 7) System Design
Users will monitor sales data, such as the inclusion of goods from suppliers, sales data, and month-end sales reports.
- 8) Program structure
The Program structure design is a design that illustrates the relationship between a program module and other programs.
- 9) Program Results
This implementation will be explained regarding the design of the sales system flowchart with the Model View Controller (MVC) concept.

B. Data Collection Techniques and Data Analysis

- 1) Study Litelatur, which is collecting and studying the previous research and journals relating to the website using the Model View controller.
- 2) Observation, which is observing the system that isRjalan, observe the variables and development. Furthermore, the data has been obtained analyzed and then concluded the level of accuracy to determine the final outcome of the application.

C. Draft Usecase System Diagram

As for the plot of the research, the draft can be described in the form flowchart of the sales website with the concept of Model View controller by using THE programming language PHP 5, Framework CodeIgniter 3 and visual code Can be seen in Figure 1.

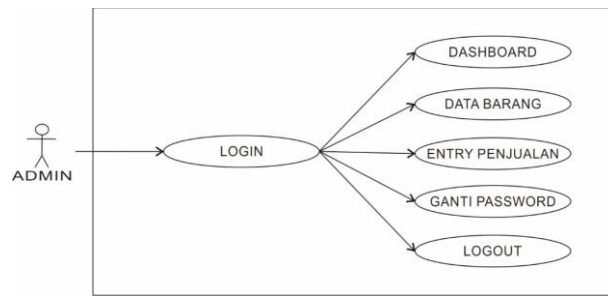


Fig 1. Usecase system design Diagram

Description of the above UseCase diagram is:

- 1) Admin.
- 2) The initial view is login for admins.
- 3) After the admin Login, it will appear Menu Dashboard, item Data, sales entries, change Password, and Logout.
- 4) For Dashboard view displays a brief history, vision, and mission of the company.
- 5) In the Item Data menu, it displays a data table of items and has the action Add Item, edit, delete, print, and search function to search for items. And there are messages as the notification of stock items to be exhausted and need to add new stock items.
- 6) If any item is sold it will go to the Sales entry menu in which it has the action Add Sales Item, edit, delete, print, and search function to search for sales of goods by date of sale. So that it can display capital and profit as well as the remaining goods.
- 7) There is a change Password menu when the admin will change the password.
- 8) Logout.

4. Results and Discussion

The result of the test is software designed using the Visual Code application with the PHP 5 programming language, the CodeIgniter Framework, and the Model View Controller concept. Here Is the display Of the application results and discussion of the website based sales information system with THE concept of MVC.

A. Login View

The main menu display is the start page that will appear when the program is run. On this page is the user Gate to enter the system. The Login View can be seen in the following Figure 2.

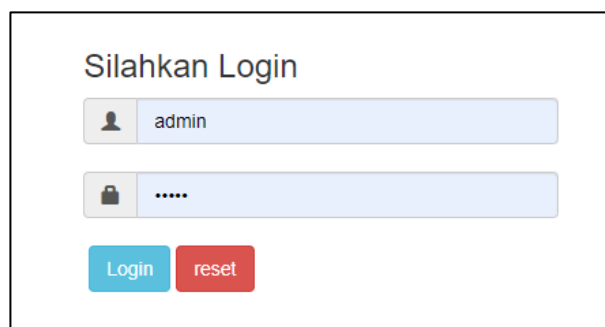


Fig 2. Login page

B. Dashboard View

In this view there is information about the history, vision and Mission OF PT. Indofood CBT Medan. Dashboard View can be seen in Figure 3.



Fig. 3. Dashboard View

C. Displays Data of Display

In this view there is information about the data of display from Suppleir, add data item, Edit item data, delete display data, search and print the report ON PT. Indofood CBT Medan. The item Data display can be seen in Figure 4.

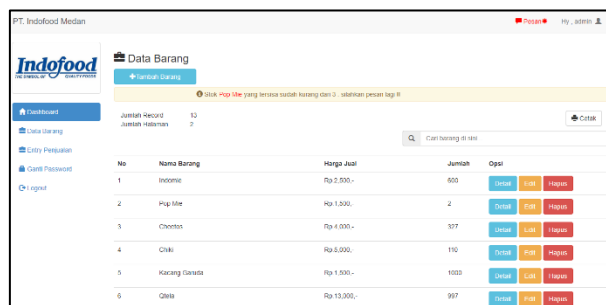


Fig 4. Item Datadisplay

D. Sales Entries view

In this view there is information about The data of goods sold, add data sold goods, Edit data sold goods, delete the sold goods data, search and print sales report on PT. Indofood CBT Medan. The sales Entries View can be seen in Figure 5.

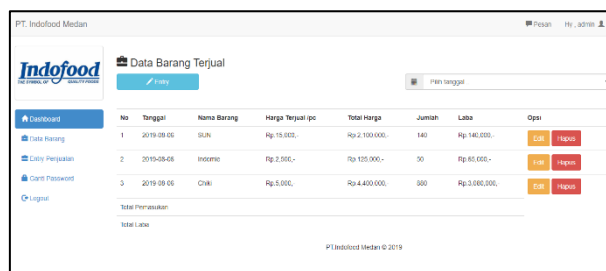


Fig 5. Sales Entries view

E. Display Change Password

In this view there is a form to change the password in the admin. The change Password display can be seen in Figure 6.

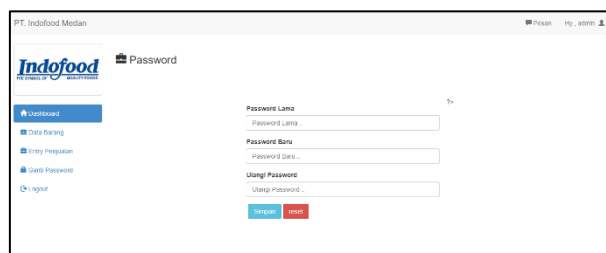


Fig 6. Display change Password

5. Conclusion

In this study the conclusions that can be taken are :

- a. Implementation of the Model View Controller (MVC) concept on the website based sales information system at PT. Indofood CBT Medan has 5 menus and sub-menu which contains information about the sales Data of goods at PT. Indofood CBT Medan.
- b. Implementation of information system based sales of PT. Indofood CBT Medan with Web-based Prototyping method produced can be one of the recapitulation Information System of a company sales information.
- c. Information System of sales based website on PT. Indofood CBT Medan In addition to developed with Model View Controller (MVC) also use OOP (Object-oriented programming) so that young H to reuse the coding.

6. References

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