

# Development Clothing Information System base Android Applications of Boutique Modiste Shofi Samarinda

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**Abstract**— WEB-Based Development of Apparel Information Systems at Shofi Boutique Samarinda. using Laravel Framework. The Modiste Shofi Boutique is a boutique that sells various types of men's and women's clothing. The clothes sold at the Modiste Shofi Boutique include mukena, batik clothes, batik cloth, and so on. The promotions carried out by the Modiste Shofi Boutique are still inadequate so that there are still many people who do not know the existence of the Modiste Shofi Boutique. In addition, sales at the Modiste Shofi Boutique are only done manually such as promoting goods on Facebook and Whatsapp only, and also conventionally where consumers have to come directly to the Modiste Shofi Boutique to buy clothes, therefore this research the author did to create this application that can facilitate the promotion of clothing and can do promotions widely so that consumers are easier to transact and do not need to come to the boutique. This application also aims to make it easier for Modiste Shofi Boutique owners to record goods and be able to view detailed sales and purchase reports at Modiste Shofi Boutique Samarinda.

**Keywords**— Information System, Sales, Laravel Framework, WEB, Promotional Media

## I. INTRODUCTION

This research was conducted to facilitate data collection of goods which are usually manual so that a website was made that can be used as a medium for data entry of goods from the Modiste Shofi Samarinda boutique. This research can also make it easier to view data on goods, customers, suppliers, purchases, sales reports, and purchase reports at the Modiste Shofi Samarinda Boutique. The existence of this website is expected to provide benefits for boutique owners to facilitate the dissemination of clothing information in Samarinda which can have an impact on increasing production scale.

This Modiste Shofi boutique is also one of the boutiques that started its business development in Samarinda City, where there are still many people who are looking for boutiques that sell various kinds such as

mukena, batik clothes, batik cloth, and so on. The location of the boutique is on Jl. Rapak Indah Permai Gg. Puri Kencana Blok L No.17 RT.39 Sungai Kunjang District, Samarinda, East Kalimantan.

According to Tjendrowasono (2013), with the construction of an online sales system, business people or businesses, both lower-middle companies, and upper-middle companies, can take advantage of them and their products so that they can be known more broadly and are expected to make it easier for consumers to buy products. -products offered by business actors without having to come directly to the place.

as for this application, namely to create an application that can collect data on the Modiste Shofi Boutique, so that the development of this application can generate detailed sales reports and make it easier for boutique owners to sell products in the Modiste Shofi Boutique, so that boutique owners can check customers as well as suppliers at the Modiste Shofi Boutique, so that boutique owners can purchase goods from suppliers.

As for the benefits of this research, namely to provide convenience for boutique owners to process clothing sales reports and make it easier to carry out buying and selling clothing transactions at the boutique and provide convenience so that the boutique owner knows the sales report of goods in his boutique in detail and can be known more widely and is expected can make it easier for consumers who will buy products offered by business owners without having to come to the place directly.

Based on the above problems, the authors are also interested in helping to overcome the problems of marketing and selling products through a website that can be accessed easily, with the title "Development of a Fashion Information System at a Web-Based Shofi Clothing Store".

## II. LITERATURE REVIEW

### A. Study of Literature

Several studies are used as guidelines and references in making this application, among others

Research Conducted By (Sahputra, 2018) With the Title "Development of Offline Web Applications in the Sales Application of the Mirah Jaya Clothing Store". The purpose of the research is to develop an application for selling the Mirah Jaya store. The development of this sales application was carried out to solve the problem of convenience in transaction activities, business bookkeeping, and analysis of the availability of goods as a form of advancing business at the Mirah Jaya foam shop by using the waterfall development method. The research method used in this research is by collecting data as report material. The data collection technique used in Interviews, Observation (Observation), Literature Study.

According to Research Conducted by (Ajis, 2019), with the title "Development of E-Commerce Applications as Promotional Media and Convection Sales" The purpose of this study was to identify problems in the CV sales system. Luciffer Inc. and produce a system that can make it easy for customers to make purchases/orders of products and purchase transactions for products sold by CV. Luciffer Inc. This application development is carried out for promotional and sales media that can make it easier for consumers to get information about the desired product and can make transactions from anywhere online and can accelerate the performance of the store in managing goods data and make it easier to make recapitulation reports. With this application, it is hoped that there will be no more doubts for consumers to shop at CV. Luciffer Inc. because the price is listed on each product offered and the features developed by applying the RajaOnkir API to calculate shipping costs to various regions in Indonesia, of course, this greatly facilitates consumers by determining the shipping expedition of the product purchased. The research method used in this study is using observation, interviews, and literature study.

According to Research Conducted by (Suripno & Widodo, 2019) with the title "Development of a Website-Based Goods Sales Application for Marketing Department Practice Media" The purpose of the research is to develop a website-based goods sales application. This application for selling goods is made using the CSS Framework Bootstrap and the Codeigniter Framework, as well as the PHP programming language and the MYSQL database. The development of this application is carried out to develop a system that can make the learning process more interesting so that students have more skills by developing a website-based sales application. The research method used in this study is to use a waterfall modeling structure with several stages of structured and directed activities where at each stage maximum results will be achieved in order to produce good applications. The stages carried out include analysis and definition of system requirements, system design, and system implementation.

According to research conducted by (Rizaly, 2020) with the title "Development of Web-Based Agricultural Sales Applications" The purpose of the research is to

create an online store that can help convey information to consumers, to display complete product information to consumers, to display clear information and how to make online transactions through the Toko Tani Maju website. This application development is done to make it easier for consumers in terms of the product sales system used so far. The research method used in this research is observation, interviews and literature study.

According to Research Conducted by (Arifin, 2020) with the title "Development of a Website-Based Electronic Sales System at PT Electronic City Indonesia" The purpose of the research is to find out the electronic goods sales system that is currently running at PT Electronic City Indonesia and developed the design of an electronic goods sales system to overcome the weaknesses in the previous system. The development of this application is carried out to facilitate the Electronic Goods Sales System at PT Electronic City Indonesia. The research method used is Observation, which is a method for obtaining data by making direct observations, recording, and collecting data on the work process of the system running at PT Electronic City Indonesia. Interviews, namely collecting data by conducting questions and answers and reviews of employees on duty at PT Electronic City Indonesia regarding matters related to this research. Literature Study is a method of collecting data by studying several books, library facilities related to this research.

This research was conducted under the title Development of a Fashion Information System at a Web-Based Shofi Clothing Store. This study aims to view data on goods, customers, suppliers, purchases, sales reports, and purchase reports, and the existence of this website is also expected to provide benefits for boutique owners to facilitate the dissemination of clothing information in Samarinda which can have an impact on increasing production scale at the Modiste Shofi Boutique Samarinda. This type of research is Observation or data collection by direct observation and interviews conducted directly to the boutique owner and documentation Archiving data obtained from the boutique owner, especially the items needed in the development of this application which will be made Web-based in the form of data in the form of files or print outs.

## *B. Theoretical Foundations*

### *1. Development*

Based on the understanding of the Big Indonesian Dictionary (<http://kbbi.web.id/kembang>), development is a noun (noun) of the process, method, act of developing. According to the Law of the Republic of Indonesia number 18 of 2002, development is a scientific and technological activity that aims to utilize proven scientific principles and theories to improve the functions, benefits, and applications of existing science and technology or to produce new technology. in the journal (Sahputra, 2018).

## 2. Application

According to (Dhanta dikutip dari Sanjaya, 2015) is software created by a computer company to do certain tasks, for example, Microsoft Word, Microsoft Excel.

According to Jogiyanto HM (Siregar & Melani, 2019) the application is an application, stores things, data, problems, work into a means or media that can be used to be applied into a new form.

So the application is a transformation from a problem or work in the form of things that are difficult to reach to become simpler, easier and understandable by users. So with the application, a problem will be helped more quickly and precisely

## 3. Application Development

Application development or also commonly called software development is the development of a software product. The term application development can be used for any computer programming activity, i.e. the process of writing and managing source code, but in a broad sense the term includes everything involved between creating the desired software through the final embodiment of the software, ideally in a planned process and structured.

## 4. System

According to Aldy (Indah, 2013) the system is a logical and rational procedure for designing a series of components that relate to one another to function as a unit to achieve a predetermined goal.

## 5. Information

According to (Rosidah;., 2018) Information is data that is processed into a form that is useful for making decisions. Information is useful for making decisions because information reduces uncertainty (or increases knowledge) information becomes important because based on that information managers can know the objective conditions of the company. According to Nataniel Dengen, Heliza Rahmania Hatta, information is the result of data processing that goes through a set of processes in a system, which is processed in such a way that it is feasible to be presented to the general public. According to Afri Aurina Haryono, Information is the result of analysis and synthesis of data. In other words, information can be said as data that has been organized into a form that suits one's needs in information. According to Tata Sutabri information is data that has been classified or processed, or interpreted for use in the decision-making process.

So in this study, the authors conclude that the information from the results of the above definition is data that has been processed through various stages of processing and can be used by people in need.

## 6. Information Systems

According to (Hasbiyalloh & Jakaria, 2018) "The information system is a system within an organization that brings together the daily transaction processing needs, supports operations, is managerial and strategic activities of an organization and provides certain outside parties with the necessary reports" (Jogiyanto HM, 2005).

## 7. Laravel Framework

According to (Solichin & Luhur, 2014) Laravel is a PHP framework with open code (open source) with an MVC (Model-View-Controller) design that is used to build website applications.

## 8. Web Server

Solichin argues that a web server is software that is automatically installed on a server or client's computer to receive requests in the form of web pages via HTTP or HTTPS and then send them back in the form of HTML documents.

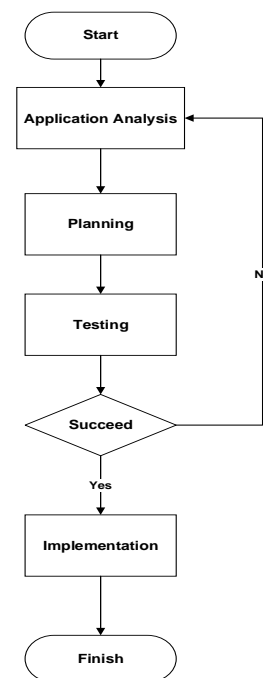
## 9. UML (Unified Modeling Language)

According to (A.S and Sahaluddin 2018), UML (Unified Modeling Language) is one of the language standards that is widely used in the industrial world to define requirements, make analysis and design, and describe architecture in object-oriented programming.

## III. RESEARCH METHODS

### A. Research procedure

Analysis of the procedure or application design process provides an overview of the system that is running. This system analysis aims to find out more clearly how the system works. System analysis is used to analyze a new system or improve an existing system. Make a decision if the system is problematic or not functioning properly and the results of the analysis will be used as a basis for improving the system. Be seen in picture 1.



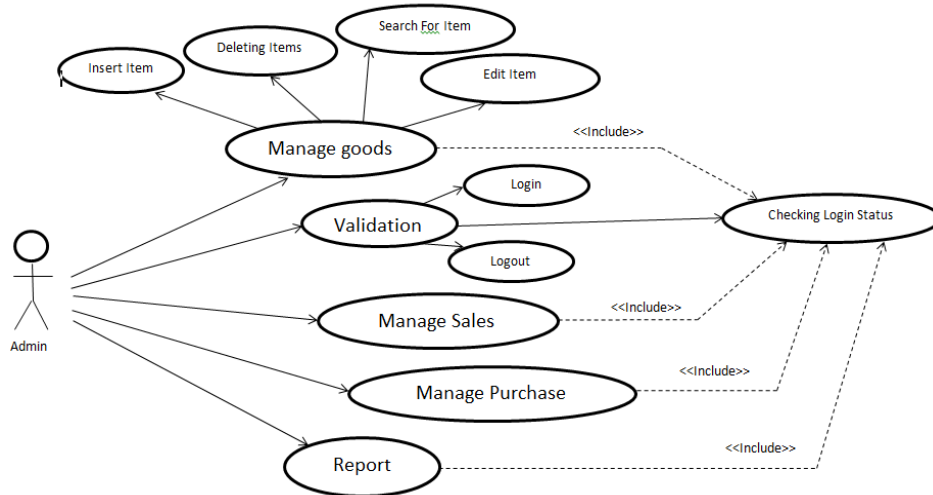
Picture 1. System Analysis

### B. Application design

#### 1. Use Case Diagram Design

In the Use Case Diagram image under Admin to manage data entry of goods, sales data manager, purchase management, and reports. The admin also

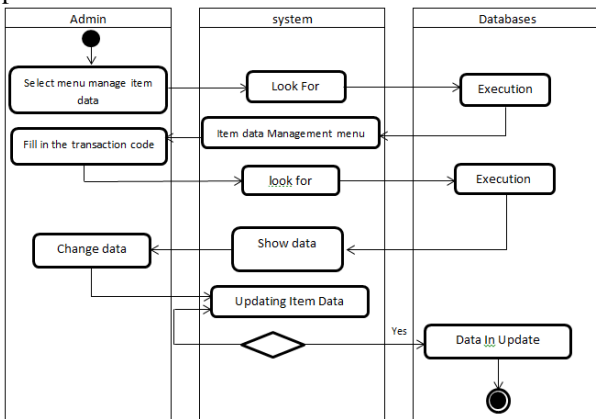
supervises the Modiste Shofi Samarinda Boutique. Be seen in picture 2.



Picture 2. System Analysis

2. Activity chart

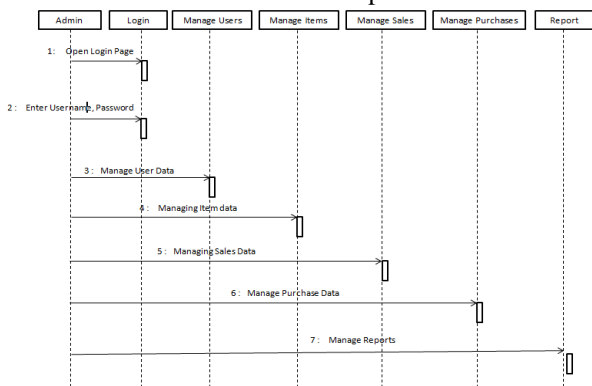
Activity diagrams describe the activities that occur in a system. This activity diagram shows the steps in the work system process that has been created. Be seen in picture 3.



Picture 3. Activity chart

3. Sequence diagrams

Explains how the admin logs in so that he can enter in the next screen. It can be seen in picture 3.



Picture 4. Sequence Diagrams

IV. RESULT AND DISCUSSION

A. App Initial View

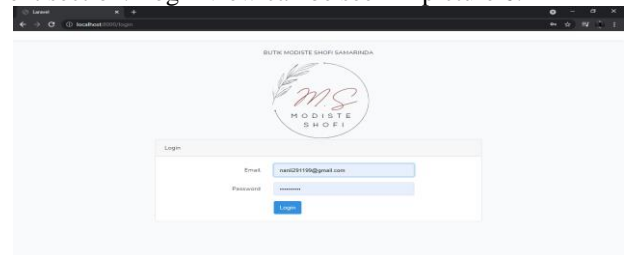
This display is the initial view when opening the website, so what will appear is the logo and writing according to the name of the Shofi Samarinda boutique. You can also press the login button at the top right. The initial view can be seen in picture 5.



Picture 5. Application Homepage

B. Login

This view displays the login menu where the login section can display your email and password to be able to access the next screen. Before we go to the next screen we should fill in the email and password. Next, we can press at the bottom of the email and password with the words login which means we can enter in the next section. Login view can be seen in picture 6.

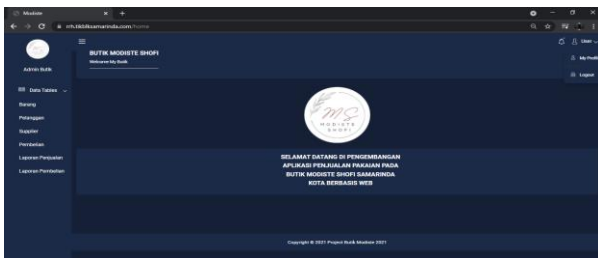


Picture 6. Login

C. Home

This view displays the home menu after filling in the login menu. Where the contents of the home menu include several data tables, namely the goods table,

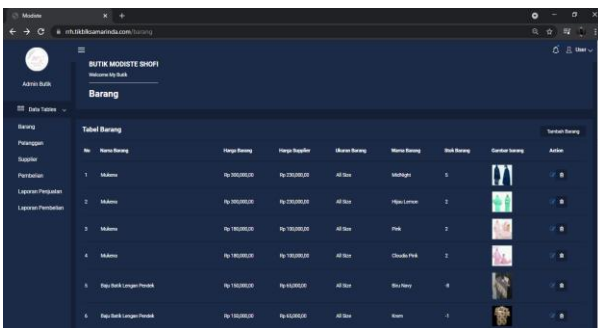
customer table, supplier table, purchase table, sales report table, and purchase report table. It is also content from the home menu, namely on the left and in the middle there is a logo from the fashionable Shofi boutique, in the middle, there is an inscription "Welcome to the development of the clothing sales application in our web-based fashion boutique Shofi Samarinda, at the top, there is an inscription of the fashionable Shofi boutique and the boutique welcome and at the top right there are 2 features, namely notification bells (notifications) and users where on the user section there is a logout text that instructs you to exit the application after this application is not used. The home display can be seen in picture 7.



Picture 7. App Initial View

#### D. Item Table View

This view displays goods data where the contents of this table are number, item name, item price, supplier price, item size, item color, stock item, item picture, and action. Where in the action section there are two features, namely edit which is useful for editing data if an error occurs when entering item data, and delete which is useful for deleting item data if the item is no longer sold at the Shofi fashion boutique. At the top of the action, there is an additional data written where the purpose of adding this data is to add item data if the item is not in the item list. Item data display can be seen in picture 8.

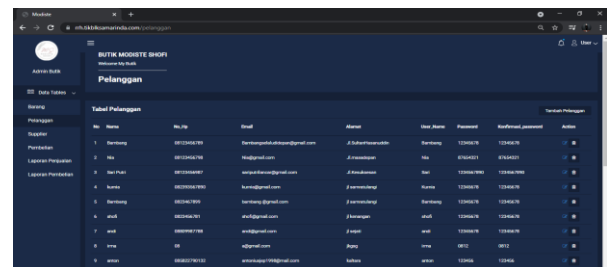


Picture 8. Add Item View

#### E. Customer Table View

This view displays the contents of the customer table where the contents of the customer table are no, name, no hand phone, email, address, user name, Confirm password password and action. Where in this customer table there are several names inputted from users of the android studio application, this name will appear when a customer wants to buy goods at this boutique before the customer buys then the customer

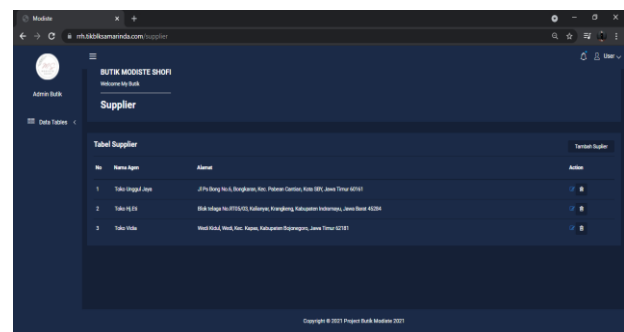
will be required to fill in the customer table. So when the customer has filled in the correct personal data, the customer's name will appear in this application in the customer table section. In the customer table section, there is also an action written where there are two features, namely edit which is useful for editing data if an error occurs when entering data, and delete which is used to delete data if the data is not in use. At the top of the action, there is an additional data written where the purpose of adding this data is to add data if the data is not in the customer list. The display can be seen in picture 9.



Picture 9. Customer Table View

#### F. Supplier Data Display

This view displays the contents of the supplier table where the contents of the supplier table are no, agent name, address, and action. Where in this supplier table, it displays the name of the store where the admin or boutique owner will pick up the goods. In the customer table section, there is also an action writing where there are two features, namely, edit which is useful for editing data if an error occurs when entering data, and delete which is used to delete data if the data is not in use. At the top of the action, there is an additional data written where the purpose of adding this data is to add data if the data is not in the supplier list. The display can be seen in picture 10.

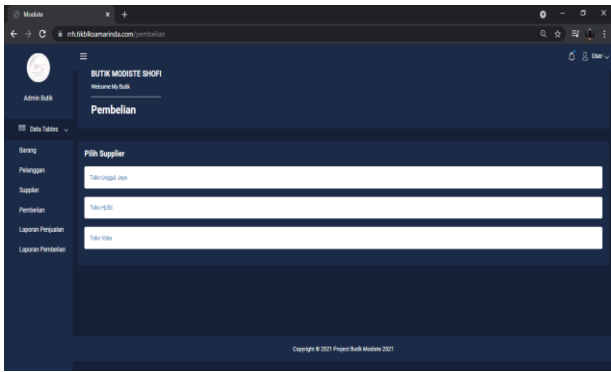


Picture 10. Supplier Data Display

#### G. Purchase Data Display

This Purchase data display is a display of purchase data from several suppliers or data that will be inputted in the goods table section. A view that displays purchase data that provides the name feature of several suppliers. The display can be seen in picture 11.

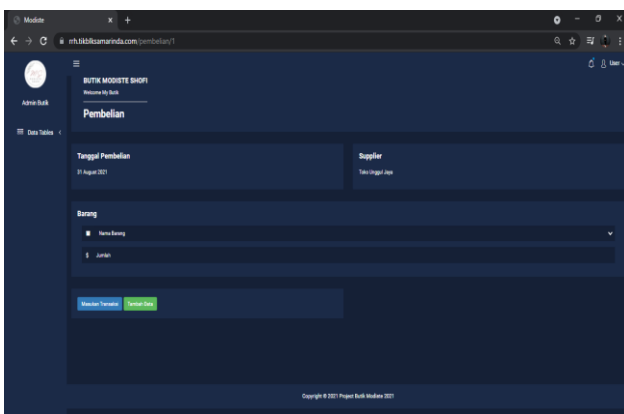




Picture 11. Purchase Data Display

**H. Item purchase display**

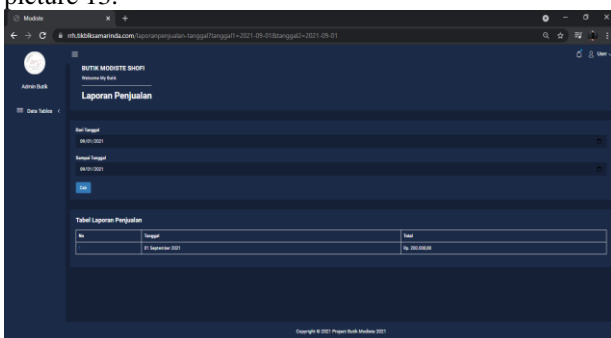
This view explains how to buy or input data from several suppliers. Where the contents of this display are the name of the item and the amount, on the bag, there is the date of purchase and the name of the supplier. This view also displays some purchase data that provides features for entering transactions and adding data. The display can be seen in picture 12.



Picture 12. Item Purchase View

**I. Sales Report Data Display**

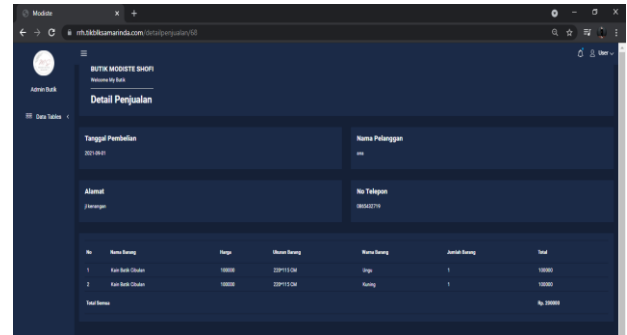
This view explains that when we have made a sale, the sales report will appear in the sales report data table section if we have made a transaction on the date we are looking for. This display contains the Check and Print buttons where the Check command is to check sales data from date to date. The display can be seen in picture 13.



Picture 13. Purchase Report Data Display

**J. Sales Details View**

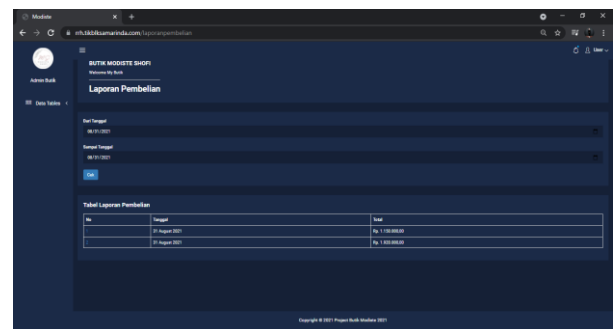
We will enter a table like this, where we will be able to see detailed sales data on that date. Where the contents of this display are the date of purchase, address, customer name, and phone number on the menu there are several names, namely no, item name, price, item size, item color, number of items, total, and a total of all. The display can be seen in picture 14.



Picture 14. Sales Details View

**K. Purchase Report Data Display**

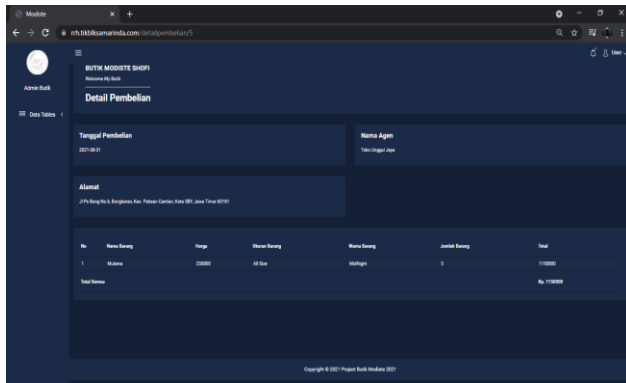
This view explains that when we have made a sale, the sales report will appear in the sales report data table section if we have made a transaction on the date we are looking for. This display contains the Check and Print buttons where the Check command is to check sales data from date to date. The display can be seen in picture 15.



Picture 15. Purchase Report Data Display

**L. Purchase Details View**

We will enter a table like this, where we will be able to see detailed purchase data on that date. Where the contents of this display are the date of purchase, the address, and the name of the agent in the menu section, there are several names, namely the number, the name of the item, the price, the size of the item, the color of the item, the number of items, the total and the total of all. The display can be seen in picture 16.



Picture 16. Purchase Details View

### M. Website Respondent Test Results

Table 1 shows, testing the results of the website respondents' testing of the use of the application can be seen in table Where there are 32 respondents consisting of boutique owners and some students and students and there are 10 questions with choices of strongly agree, agree, neutral, disagree, and strongly disagree. The results from the website respondents are the results of respondents' responses to the test with the highest score of 49% with the answer Agree (A), the value of 30% with the answer Very Agree (VA), the value 16% with the answer Neutral (N), 5% with the answer Strongly Disagree (SD), as well as the lowest value of the respondent's trial for this website page is a value of 0% with the answer Disagree (D). Based on the average results obtained 4.02, which means that the application made can be said to be good by the respondents. Thus the application tested is appropriate and suitable to be used to help the admin or owner of the Modiste Shofi Samarinda Boutique in making details or reports from purchases or sales and can find out the number of goods, supplier names, and customer names and purchase goods from suppliers easily.

Table 1. Website Respondent Test Results

Q	VA		A		N		D		SD		N	MEAN
	F	%	F	%	F	%	F	%	F	%		
1	9	28	17	53	4	13	0	0	2	6	32	3.97
2	12	38	12	38	7	22	0	0	1	3	32	4.06
3	10	31	15	31	6	19	0	0	1	3	32	4.03
4	10	31	17	31	4	13	0	0	1	3	32	4.09
5	12	37	17	38	2	6	0	0	1	3	32	4.22
6	8	25	17	25	6	19	0	0	1	3	32	3.97
7	9	28	16	28	6	19	0	0	1	3	32	4.00
8	7	22	18	22	6	19	0	0	1	3	32	3.94
9	11	34	13	34	6	19	0	0	2	6	32	3.97
10	9	28	16	28	5	17	0	0	2	6	32	3.94
Average												4.02

## V. CONCLUSION

There are several conclusions from the development of clothing sales applications at the fashionable boutique Shofi Samarinda as follows: With this web-based application, it is very helpful to collect data on goods that have been taken from suppliers and which will be sold to the market and make it easier to see the stock of goods in stock. own boutique owner. This application, also makes it easier for admins to view

sales reports and purchase reports in detail without having to calculate naturally. The results from the website respondents are the results of respondents' responses to the trial with the highest score of 49% with the answer Agree (A), the value of 30% with the answer Strongly Agree (SA), the value 16% with the answer Neutral (N), 4% with the answer Strongly Disagree (SD), as well as the lowest value of the respondent's trial for this website page is a value of 0% with the answer Disagree (D). Thus the application tested is appropriate and suitable to be used to assist the admin or owner of the Modiste Shofi Samarinda Boutique in making details or reports from purchases or sales and can find out the number of goods, supplier names, customer names, and purchase goods from suppliers easily.

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