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Back Office E-Commerce Application for X Store

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Abstract: X store is a company which their focus on sales computer accessories. In doing their business process, all sales recorded manually. Their sales using whatsapp, BBM and email for online services. The sales department had hard time to maintain their customer one by one manually. Based on this background, application designed to overcome the problems. Application was build base on website that can be accessed by sales department to maintain their sales. This will help to maintain order, when customer take an order, system will automatically check the item available or not. After that, sales department will change the status of order and customer will received and email for confirmation. Also, this application generates sales report, delivery report and stock report for manager. The website was build using PHP as the programming and MySQL databases.

Keywords: E-Commerce, Sales Report, Delivery Report, Stock Report

I. Introduction

X Store is a company that works on sales accessories computer. This company open a shop at Salatiga. Beside open a shop, they can be contacted using BBM, Whatsapp and email. After customer ordering items, sales department will checked their order and payment. After that, they will packaging and send the item. Time by time, their online sales increase rapidly, and sales department got hard time to deal with. So, X store try to use website to maintain sales. The website can help customer to got email confirmation step by step on their order. Also help manager to generate sales report, delivery report and stock report. E-commerce is one function of internet and website can be used to business. Transaction is based on digital between company and customer.[1]

Data Flow Diagram (DFD) gives information about graphic data flow from a company. DFD divided on some level. The highest level is context diagram. This diagram explain overall company system.[3]

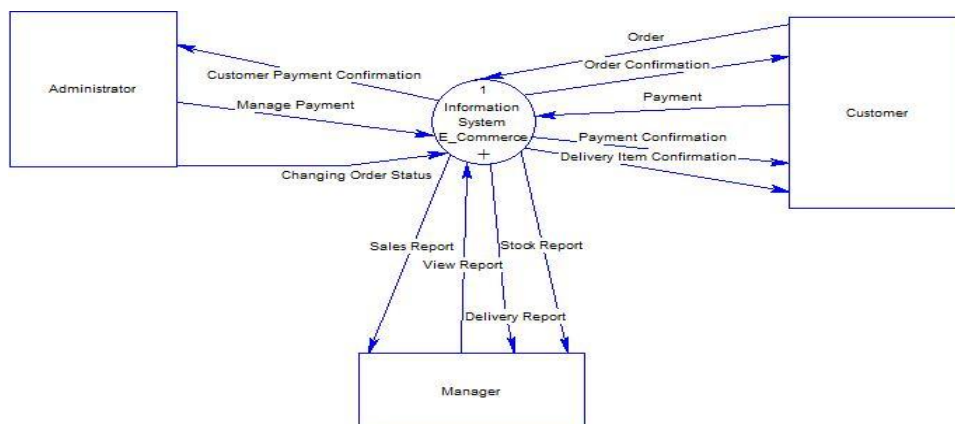
PHP is programming language that used to create a website. PHP is one of flexible programming language. With PHP, web developer created intregated website with markup HTML. PHP give unlimited control on web server.[2]

MySQL is a open source database management system. MySQL can handle more than thousand table and a billion database. SQL referred to Structured Query Language based on English language and used to other database like Oracle and Microsoft SQL.[2]

II. Materials and Methods

• Context Diagram

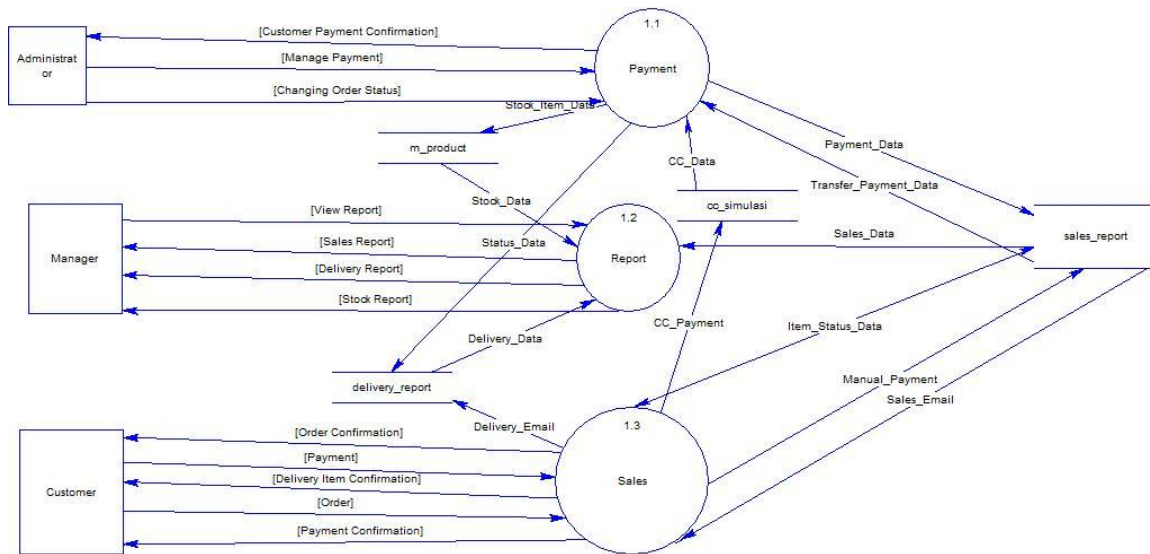
Context diagram describe overall company system. In Information System E-Commerce, there is 3 entity, manager, administrator and customer. Manager is the one who received report, administrator as sales department, and customer as buyer. Context diagram can be seen at Picture 1.



Picture1. Context Diagram

• **DFD Level 0**

DFD Level 0 describe detail each process in company. There is 3 process in Information System E-Commerce, sales, report, and payment. DFD Level 0 can be seen at Picture 2.



Picture2. DFD Level 0

• **Login**

In this website, there is login system you can choose between administrator and manager. Form login can be seen at Picture 3.

Picture 3. Form Login

• **Dashboard**

Dashboard administrator can be use to see how many stock less than 20. So admin can restock which item that need to. Dashboard administrator can be seen at Picture 4.

Product Name	Price	Stock
LOGITECH Wireless Mouse M155	110000	2
Photoshop C56	8000000	4
Windows 10 Home 32-bit	1869999	10
Windows 10 Pro 64 bit	2746900	11
Windows 7 Professional SP1, 64bit	2690000	4

Picture 4. Dashboard Administrator

• **Category and Sub Category**

Manage category and subcategory is used for add type and description of product of the website. Pages management category and subcategory can be seen at Picture 5.

Management Category & SubCategory

Picture 5. Management Category and Subcategory

- **List Product**

This page is used for add product. Administrator can input product name, product description, weight, price and stock the company have. Management product can be seen at Picture 6.

Management Product

Product Name	Product Description	Weight (gram)	Price	Stock	
Card Reader trial	Percobaan Card Reader	200	25000	94	[Edit] [Delete]
HP X1000 Mouse	Dibangun dengan standar ya	300	60000	248	[Edit] [Delete]
HP X3000 Wireless Mouse	HP X3000 adalah perangkat	300	140000	244	[Edit] [Delete]
Kabel LAN 8m	Kabel LAN <10m	100	15000	30	[Edit] [Delete]
LOGITECH Wireless Mouse	Kini Anda dapat merasakan	300	110000	2	[Edit] [Delete]
MMC Sandisk 16G	MMC Sandisk 16G - lifetime	100	150000	199	[Edit] [Delete]
MMC Sandisk 32GB	MMC Sandisk 32GB - lifetim	100	350000	49	[Edit] [Delete]
MMC Sandisk 8GB	MMC Sandisk 8GB - lifetime	100	100000	499	[Edit] [Delete]
Photoshop CS6	Adobe Photoshop CS6 Origin	500	3000000	4	[Edit] [Delete]
Windows 10 Home 32-bit	Sejak diperkenalkan pada Se	500	18999999	10	[Edit] [Delete]

Picture 6. Management Product

- **Pending Order**

Pending order is used when customer buy items more than stock they have, so example when company website have 3 RAM 4GB and customer want to buy 5 RAM 4GB, so they have 2 item at pending order. Administrator have to restock first and choose pending order. Pending order page can be seen at Picture 7.

Pending Orders

No.	Product Name	Pending	
1	LOGITECH Wireless Mouse M165	1	[Edit]
2	LOGITECH Wireless Mouse M165	2	[Edit]

Picture 7. Pending Orders

- **Manage Order**

Manage order is use when there is customer's orders, administrator have to check their activities start from order, payment, packaging, delivery until transaction done. Administrator can change the status of order, after that customer will received an email from system so customer can check about their order. Manage Order can be seen at Picture 8.

Order Management

The screenshot shows a search bar with two date input fields labeled 'Sales Date' and 's.d.', both with the placeholder 'yyyy-mm-dd'. A search button with a magnifying glass icon is to the right. Below the search bar is a table with the following columns: No., Date, Product Name, Qty, Price, Delivery, and Status.

Picture 8. Manage Order

- Manage Stock**

In this page, administrator use to increase their item stock. Administrator can see product name, price and stock each item they have. When administrator want to restock, they can press button “+” beside the item stock. Manage stock can be seen at Picture 9.

Manage Stock

The screenshot shows a 'Manage Stock' interface. At the top, there is a search bar and a 'Show 10 entries' dropdown. The main part is a table with columns: Product Name, Price, and Stock. Each row has a '+' button to the right of the Stock column. The table lists various products like 'Card Reader trial', 'HP X1000 Mouse', 'HP X3000 Wireless Mouse', etc. At the bottom, there is a pagination control showing 'Showing 1 to 10 of 12 entries' and buttons for 'Previous', '1', '2', and 'Next'.

Picture 9. Manage Stock

- Sales Report**

Manager can access page sales report. In this page, manager can search sales each customer and there is date search for sales report that manager wants to check. Page sales report can be seen at Picture 10. Manager also can print the report with press button “Print Report” at below.

The screenshot shows a 'Sales Report' interface. On the left is a sidebar menu with 'Dashboard', 'Report', 'Sales', 'Delivery', and 'Stock'. The main area has a search bar with two date input fields labeled 'Sales Date' and 's.d.', both with the placeholder '2016-05-30'. A search button is to the right. Below the search bar is a table with columns: No., Date, Username, Product Name, Qty, Price, and Status. A 'Print Report' button is located below the table.

Picture 10. Sales Report

- Delivery Report**

In this page, manager can check how is delivery going. Manager can monitoring sales date, delivery date, service and cost each delivery. Delivery report pages can be seen at picture 11.

Delivery Date

The screenshot shows a 'Delivery Date' interface. At the top, there is a search bar with two date input fields labeled 'Sales Date' and 's.d.', both with the placeholder 'yyyy-mm-dd'. A search button with a magnifying glass icon is to the right. Below the search bar is a table with the following columns: No., Sales Date, Delivery Date, Destination, Service, and Cost. A 'Print Report' button is located below the table.

Picture 11. Delivery Report

- **Stock Report**

In this page, manager can check stock each item that company have. Manager also can print their stock report with press button “Print Report” below. Stock report pages can be seen at Picture 12.

Stock Report

Product Name	Weight (kg)	Price	Stock
Card Reader trial	0.20	25,000	94
HP X1000 Mouse	0.30	59,000	248
HP X3000 Wireless Mouse	0.30	149,000	244
Kabel LAN 5m	0.10	15,000	30
LOGITECH Wireless Mouse M105	0.30	110,000	2
MMC Sandisk 16G	0.10	150,000	199
MMC Sandisk 32GB	0.10	350,000	49
MMC Sandisk 6GB	0.10	100,000	499
Photoshop CS6	0.50	3,000,000	4
Windows 10 Home 32-bit	0.50	1,899,999	10

Picture 12. Stock Report.

III. Conclusion

- This application in accordance with company business process
- Each transaction can be monitoring by administrator, customer and manager
- Application gives sales report, delivery report and stock report accordance with reality
- This application sent email confirmation for sales when status change by administrator.

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