

Back Office E-Commerce Application for X Store

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Submission date: 07-Mar-2023 03:29AM (UTC+0700)

Submission ID: 2030557419

File name: IOSR_JCE_Full_Paper_removed.pdf (331.08K)

Word count: 1123

Character count: 6059

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]

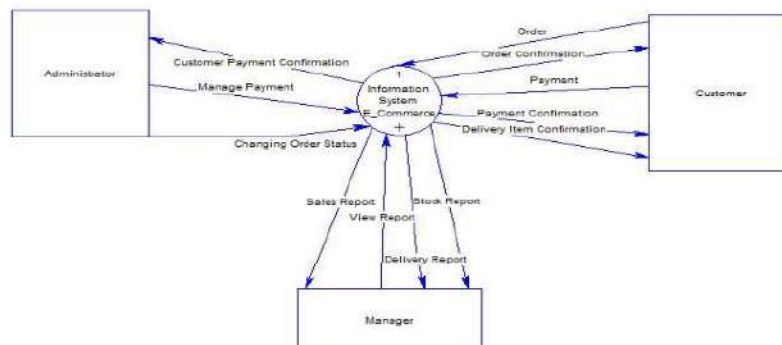
PHP is programming language that used to create a website. PHP is one of flexible programming language. With PHP, web developer created integrated website with markup HTML. PHP give unlimited control on web server.[2]

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

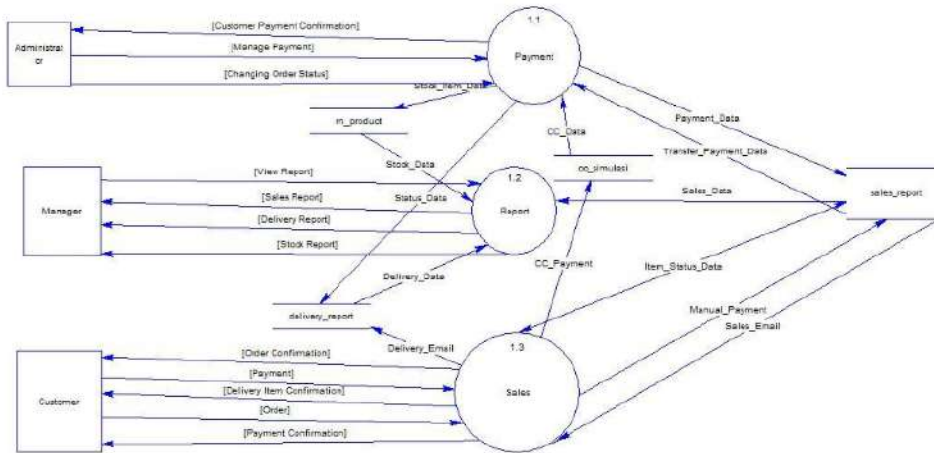
Context diagram describe overall company system. In Information System E-Commerce, there is 3 entity, manager, administrator and customer. Manager is the one who received report, administrator as sales department, and customer as buyer. Context diagram can be seen at Picture 1.



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 M102	100000	5
Playstation 3GB	900000	5
Windows 10 Home 32GB	1000000	10
Windows 10 Pro 64 GB	2500000	10
Windows 7 Professional 64bit	2000000	5

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

Management Category & SubCategory

Assessing komputer
Software
Kabel
Add New

Mouse, Keyboard, Webcam, USB Modem, USB Flash Disk

Category Name
Assessing Komputer

Category Description
Mouse, Keyboard, Webcam, USB Modem, USB Flash Disk

Update Data
Delete

Sub-Category

Nama Subkategori
Deskripsi
Kategori

+

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

show 10 entries

Search

Product Name	Product Description	Weight (gram)	Price	Stock	
Card Reader (trial)	Pembacaan Card Reader	200	25000	54	<div><div></div><div></div></div>
HP X1000 Mouse	Eksangin dengan standar ya	100	50000	540	<div><div></div><div></div></div>
HP X3000 Wireless Mouse	HP X3000 adalah perangkat	300	140000	244	<div><div></div><div></div></div>
Kabel LAN 3m	Kabel LAN 10m	100	15000	30	<div><div></div><div></div></div>
LOGITECH Wireless Mouse	Ini Ania dapat membuat k	300	110000	0	<div><div></div><div></div></div>
MMC SanDisk 1GB	MMC SanDisk 1GB - lifetime	100	150000	59	<div><div></div><div></div></div>
MMC SanDisk 32GB	MMC SanDisk 32GB - lifetime	100	200000	49	<div><div></div><div></div></div>
MMC SanDisk 8GB	MMC SanDisk 8GB - lifetime	100	100000	40	<div><div></div><div></div></div>
Photoshop CS6	Adobe Photoshop CS6 Origin	500	3000000	4	<div><div></div><div></div></div>
Windows 10 Home 32-bit	Sudah diperbarikan pada 34	500	1500000	10	<div><div></div><div></div></div>

Showing 1 to 10 of 10 entries

Previous

1

2

Next

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

Pending Orders			
No.	Product Name	Pending	
1	LOGITECH Wireless Mouse M105	1	
2	LOGITECH Wireless Mouse M105	1	

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

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

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.

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

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 Intel	0.20	25.000	94
HP X1000 Mouse	0.30	50.000	240
HP X3000 Wireless Mouse	0.30	140.000	244
Cable LAN 5m	0.10	15.000	30
LOGITECH Wireless Mouse M100	0.30	110.000	2
MMC SanDisk 16GB	0.10	150.000	199
MMC SanDisk 32GB	0.10	250.000	49
MMC SanDisk 64GB	0.10	500.000	499
Photoshop CS6	0.50	3.000.000	4
Windows 10 Home 32-bit	0.50	1.990.000	10

Showing 1 to 10 of 10 entries

Print Report

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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