Implementation of Online Sales Information System for Sandals Craftsmen In Berbek Village

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Abstract—Berbek Village has 55 families with livelihoods as sandals craftsmen about 40%. The problem of the last five years is the sales of sandals craftsmen has decreased by 50% that bring the economy level decreased. Therefore, the craftsmen want to expand their market share and hope it will increase the sales of sandals. The solution offered is Online Sales Information System. The research methodology using Waterfall Model was started with survey and interview, system analysis, database design, coding using PHP programming language and MySQL database, system testing, training for sandals craftsmen, and system evaluation by filling and processing of questionnaire. Training results show that sandals craftsmen can sell their products through an online sales information system that has been created. System evaluation results have also shown that online sales information system can be well received by sandals craftsmen.

Keywords—online sales; sandals craftsmen; sales information system

I. INTRODUCTION

Berbek Village has 55 families with livelihoods as sandals craftsmen about 40%. Sandals that is produced in the form of rubber-based sandals with various models. The sandals are usually sold at traditional markets in Sidoarjo and Surabaya.

The problem of the last five years is the sales of sandals craftsmen has decreased by 50% that bring the economy level decreased. Therefore, the craftsmen want to expand their market share and hope it will increase the sales of sandals.

Based on the existing problems, the solution offered is Online Sales Information System, so that sandals craftsmen can sell the products widely through the internet. Therefore, the objective of this research is creating Online Sales Information Systems. Online sales information systems can expand market share [1]. Online sales can also contribute to the growth of the regional economy without substantial investment [2].

Online sales information system has been created using PHP programming language and MySQL database. PHP is chosen because PHP can be used on all operating systems [3].

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In addition, another advantage of PHP is PHP has good connectivity with many DBMS [4]. MySQL is chosen because it is widely used to build web applications that use databases as their source and data management [5]. MySQL is an open source software that means free to use on various operating systems [6]. The model that used for developing the information system is Waterfall Model proposed by Jogiyanto [7]. Waterfall Model is widely used to develop almost all application both desktop and online.

II. RESEARCH METHODS

To create an online sales information system, this research used System Development Life Cycle Method with Waterfall Model as shown in Fig. 1. The stage of making an online sales information system in Berbek Village, Sidoarjo are:

- 1. System engineering is done through data collection by survey and interview with sandals craftsmen.
- 2. System analysis, especially functional requirements analysis.
- 3. System design, especially database design.
- 4. Coding or making an online sales information system.
- 5. Trial and train an online sales information system to sandals craftsmen.
- 6. System evaluation by filling and processing the questionnaire.

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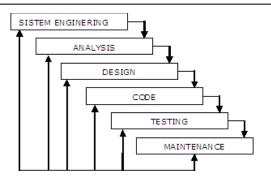


Fig. 1. Waterfall Model

III. RESULTS

A. The Result of Data Collection

The data collection was done by survey and interview. The main thing that was gained during the survey and interviews is the sandals selling process and the sandals craftsmen problems that occur. In addition, there are also some data collected in this stage, namely:

- 1. Data about the type of sandals
- 2. Data about sandals
- 3. Data about SMEs, including: SME name, owner name, bank name, and contact person.

B. The Result of System Analysis

Based on the analysis conducted, there are two groups of users who use the application, which is the owner of SME as sellers and general users as buyers. The functional requirements for each user are as follows:

- 1. Owner of SME (Seller)
 - a. Maintenance of sandals category
 - b. Maintenance of items or sandals
 - c. Order handling
- 2. General Users (Buyer)
 - a. Online order with transfer payment method
 - b. Confirmation payment of online order
 - c. Monitoring of shipments

C. The Result of Design

The design result in this research is database design. There are 17 tables used in the online sales information system. The database design can be seen in Fig. 2.

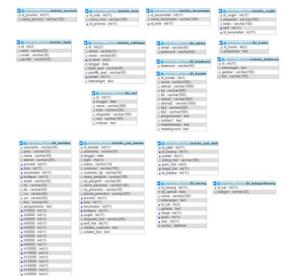


Fig.2. Design of Database

D. The Result of Development Information System

D.1. Seller's pages (sme owners)

To enter as a seller or owner of a SME, users can visit the website address: http://olshop.wiputra.com/administrasi. This seller's page is used to set categories, product items, delivery charges, member, shopping instructions, payment account numbers, seller contacts, and galleries. In addition, the seller's page used to serve incoming customers orders and invoice for delivery of goods.

On the add category page, the seller can add, edit, and delete product category. The view of add category page can be seen in Fig. 3.

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2	pria	Edit	Sundul	Hapus		
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4	Sandal wanita	Edit	Sundul	Hapus		
5	sepatu pria	Edit	Sundul	Hapus		
6	sepatu wanita	Edit	Sundul	Hapus		
7	Wanita	Edit	Sundul	Hapus		
Menamp	ilkan 1 s/d 7 dari 7 data		Previous	1 Next		
			Сору	right © 2017	Dishop Stikom	

Fig. 3. Add category page

On the add product page, the seller can add product by uploading the image and filling in the product name, category, price, weight (gram), stock, variant, and description. The display of the add product pages can be seen in Fig. 4.

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Varian		contoh : biru,merah,hita Tambah	am> akan menghasilkan 3 judul produk.

Fig. 4. Add product page

On the delivery charges page, sellers can manually add, edit, and delete delivery data one by one. For more details, this page can be seen in Fig. 5.

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3	Dali	Kabupaten Karangasem	Abeng	INE(REG)	19.000	1	
3	Bali Sulawasi Tenggara	Kabupaten Karangasem Kota Kendari	Abang Abali	INE(REG)	19.000	2	

Fig. 5. Delivery charges page

This confirmation page is used to view the list of customers who have already confirmed the payment. Additionally, this page used to remove the payment that deemed invalid by the seller. More details, the confirmation page can be seen in Fig. 6.

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Fig. 6. Confirmation page

A new invoice page is used by the seller to see a list of recent invoice and the seller can also change the status of the

invoice to be paid if the payment is considered valid after the seller sees a reference from the paid confirmation page. For more details, the new invoice page can be seen in Fig. 7.

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Fig. 7. New invoice page

The payment list page is used to view the list of invoice that has been paid. In addition, the seller may also modify the status of the invoice to be unpaid if the seller makes a mistake on the approval of the payment. The seller may also change the sales status to 'delivered' on this page. For more details, this payment list page can be seen in Fig. 8.

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The delivered order page is used to view a list of order that have been sent. In addition, the seller may also re-alter the sales status to be undeliverable if the seller makes a mistake. For more details, this page can be seen in Fig. 9.

lshop wiputr	a.com/administr	asi/nota_terki	imphp						
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	ER 00 EVEN	6			Contraction of Contraction	08113666690			
2	12-03-2016	1		bobby@stikom.		08113666690		0	
2		1							

Fig. 9. Delivered order page

The delivery receipt page can be used by the seller to provide delivery receipt number to the customer whose order has just been processed to the freight forwarding service. For more details, the delivery receipt page can be seen in Fig. 10.

				RI	ESI					
Data and	eran di atas unt	uk diprint Bobby		RESI						
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Tanggal (I	COMMITTY)	: 28112017	* conto?	h : 31122016 = 31 Dese						
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Fig. 10. Delivery receipt page

D.2. Buyer's Pages (Customers)

In general, a website for customers allows customers to view a list of products, order products of interest, confirm payment, and check the delivery process by entering the delivery receipt number.

In this system, new customers can order on the website after registration and logged in. If not logged in, then the customers can only see the list of products and add to the shopping cart. If the customers logged in, then the customers can proceed to the next stage. The page for add the product to the shopping cart can be seen in Fig. 11.

	OU Home How To Resi Galeri Konta	ik Konfirmasi Member 🗮 Belanj
	Login as <u>julianto</u> Profil Ganti Pa	ssword History Belanja Logout
	SELAHAT DAYANG DI ONLINE SHOP KAHI	
CARL PRODUK	Keranjang Belanja	
Katik Nama Produk Carl	STEP 1 - Mengisi Keranjang Belanja	Langkah Pemesanan
KATEGORI PRODUK anak (19)	No Produk Qty Berat Harga Sub Total Terenh Sanda wanta(kod) 1 + 250 gl 350.000 350.000 Total measure on plas Son and atep 2. Sanda Sanda S	STEP 1 Memilih produk dan mengisi keranjang belanja.
sepatu pria (2)	** Untuk menembah, mengurang), dan menghapus produk. Nbah angka di kolom Qty lala klik tombol "Diputer Keranjang Belangu". UPDATE KERANJANG BELANJA LANJUT KE STEP 2	STEP 2 Dattar dan Login Hember. Hengai data pengriman.
Wanita (25)		
Manita (25)	A	STEP 3 Henampikan nota pemesanan dan total pembayara

Fig. 11. The page for add the product to the shopping cart

After the selected product is entered into the shopping cart, the second stage is to fill the delivery form. On this page, customers can fill the shipping address completely and correctly. Then the customers can choose the type of expedition and give additional information if needed. For more details, this delivery data submission page can be seen in Fig. 12.

()6203		STEP 2 - Mengisi Data Pengiriman	Langkah Pemesanan
KATEGORI PRODUK	Anda sudah lo	pin sebegei	STEP 1
		KONTAK ANDA YANG BISA DIHUBUNGI	Nemil/h produk dan mengai keranjang belanja.
anak (19)	Errail	istanto tágiyaneo com *	2.2
sepatu pria (2)		Kami akan mengirim nota pemesanan ke email ini.	- STEP 2
Wanita (25)	Notion HP	: 087854910649	Daftar dan Login Hember.
wanter (25)	* Apabile kerr kerni akan me di atas bisa s	/ membutuhkan data labih lanjut tentang pemasanan nghubungi Anda mela\u kontak di atas. Pastikan ko Bhu bungi .	ntak
ACC BANK			STEP 3
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a/n Bobby	Nomer HP	085109685588	
BRI - 12345678 a/n Bobby H	* Apabile pers Ande sebagai		
an baay n	Apabile pesan Stikem anbegi	en ivi dikinim ke dhi Anda sendiri, biarkari data Otsho; V penghimi	P STEP 4 Transfer Pembayaran. Pembayaran melalui transfer bank sasuai jumlah total.
		DATA PENERIMA PAKET	
KONTAK KAMI	Nama	Johanti Lemantara	STEP 5
Olshop Stikom	Norser HP	067036703678	Kachimaal Pembayanan.
olariop aukom	Alamat	- Detout	Setelah transfer, lakukan konfirmasi pembayaran. Nanu konfirmasi pembayaran bisa diakses setelah logi
Surabaya	Endance	60197	Manu kontrimasi pembayaran bisa diakses setelah logi
085109985588	Provinsi	Jacob Terrar	STEP 6
085109985588	Ente	Kota Surabaya	Pengirman Barang.
PIN BB : AABBOCDD	Keramotan	Pakal	Setelah pembayaran kami yamikasi, produk akan sege dilonen, Nomor resi pengerinten akan kami informasikai
	Excedsi	JNE REG - 12000/kg + *	melalui menu resi di sirri.
	Keterangari Tambahan	i hazi bubbre wrap ya	Selesa.
	* Pestikan sel Kesalahan p	sukkan data penerima pakat dangan lengkap. Na data ditis dengan benar dan lengkap. Ingkaan data yang mengakibatkan kerugiaw Nar tenganan terwak kami.	

Fig. 12. Delivery data submission page

The third stage of the ordering process is the system showing order data, delivery data, total payments, and how to make payments. More details, the order invoice page can be seen in Fig. 13.

The fourth stage is to transfer payments to bank accounts that have been displayed on the order invoice page and the fifth stage is to confirm payment. To confirm the payment, the consumer can select the confirmation menu and fill the form as shown in Fig. 14.

	SELAHAT DATANG DE ONLENE SHOP	KAME
CARL PRODUK	Keranjang Belanja	
Kellik Nama Produk Carl	STEP 3 - Henamailkan Nota Pemesanan	Lavakah Pemesanan
KATEGORI PRODUK	Nomor Pesanan : 13 Email : julianto180yahoo.com	STEP 1 Memilih produk dan mengisi kananjang belanja.
sepatu pria (2) Wanita (25)	No Produk Qty Sterat Harga Stab T 1 [merzh] Sandai wanta(kodi) 1 250 pt 350000 350; ONGKER 1 kg.v.12.000 12.4 40.000 12.4	STEP 2 Differ der Login Hember
ACC BANK	Slahkan langatan ka atap 4 (transfar pembayaran) ka ndoening benk BCA - 1840363879 a/n Boldwy RMI - 122145078 a/n Boldwy H Setelah (transfer, slahkan langul ka step 5 (konfirmas pembayan melalu http://bloos.seteta.com/ manu Konfirmas Pembayaran	and STEP 3
BCA - 1840363879 a/n Bobby	KONTAK ANDA YANG BISA DIHUBUNGI tmai : yilanto100yahoo.com	-•
BRI - 12345678	Nomor MP = 007254910649 DATA PENGIRIM	Langkah Lanjutan
a/n Bobby H	Nama i Olsha Silom Nama i Olsha Silom Nama HP i OSI19945588 DATA PENELISA PACET Nama i Sulanti Lemandara Nama i Sulanti Lemandara	STEP 4 Tarafar Peribayanan. Peribayanan melalui transfer bank sesuai jumlah totel.
KONTAK KAMI	Alamat i Benowo Kudanos i A0197	STEP 5
Oishop Stikom Surabava	Provinsi : Jawa Timur Kota i Kota Sunbaya Kecematan i Palal	Konfernasi Pembayaran. Setelah transfer, lakukan konfernasi pembayaran. Menu konfernasi pembayaran bisa dakses setelah log
085109985588	Ekspedisi i INE REG (12005/kg) Ketorangan i kasi bubbie wrap ya Tembahan	STEP 6
PIN BB : AABBCCDD		Pengviman Barang. Setelah pembayaran kami verifikasi, produk akar seg dikirim, Nomor resi pengniman akan kami informasiko

Fig. 13. The order invoice page

utra.com/konfirmasi.pembaya	ran.php C Q. Search 🕹 🏠 🏠 💼 🐨 🐮 🔹
CARL PRODUK	Konfirmasi Pembayaran
Katik Nama Produk	lai form di bavah ini untuk mengkonfirmasi pembayaran Anda. Kolom bertanda * wajib dilai,
KATEGORI PRODUK	Nomar Pesanan Anda *
anak (19) sepata pris (2)	* Neeror pecanan = Noreor osta Anda. BUKAN kode karang. Brinen renesek singa tempe penanan yang di isi, kesalakan nemor pesanan akan mengakibatkan pesanan anla terkires ke restorme Denggian cartonne).
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ACC BANK	Bank Tupan * BCA s/n Bobby 💌
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BR2 - 12345678 a/n Bobby H	Jumlah Transfer *
	Trunsfer dari Bank."
KONTAK KAMI	Dari rekening atas nama *
Olshop Stikom Surabaya	Ketterangen tanliahen
085109985588	3 * 43 * 7
PIN 68 : AA68CCDD	Subrit

Fig. 14. The confirm payment form

After confirmation, the seller can see the confirmation list as shown in Fig. 6 and the seller can confirm the consumer payment on the new invoice page as shown in Fig. 7. Furthermore, the seller can provide the order delivery receipt number as described earlier in Fig. 10. On the final stage, consumers can see the progress of the order delivery process as in Fig. 15. So, that's the sequence of online sales process on the website that has been made.

OLSHOP BEST PRICE FOR			Home How To Resi Galeri Kontak Konfirmasi Hember 🧮 Belanja					
		SELAMAT DATANG DI ONLENE SHOP KA	P61					
CARL PRODUK Resi Pengiriman								
Katik Nama Produk Call Unbuk mencari nomor repi, ketik neme Ande : Call Repi								
KATEGORI PRODUK		10 Nomor Resi Terbaru						
anak (19)	No	Nema	Real					
sepatu pria (2)	1	Julianto	5784632	5				
Wanita (25)	2	Julianto	1234aa					
wanta (23)	3	Jono Yashikax	1234567890	6				
	-4	Salomo	898647576878					
ACC BANK	5	Rendi	9893923423748					
BCA - 1840363879	6	Lia	123454321					
a/n Bobby	7	Tagi	89787872323					
BRI - 12345678 a/n Bobby H	8	Thedi	16482918292638	0				

Fig. 15. The progress of the order delivery process

E. The Results of Testing and Training

Training was followed by six sandals craftsmen. The result of this stage is the sandals craftsmen can test and operate functions of an online sales information system smoothly.

F. The Results of System Evaluation

Overall, an online sales information system is considered good by sandals craftsmen. The evaluation results of an information system that has been trained to sandals craftsmen can be seen in Table 1.

TABLE 1. THE RESULTS OF SYSTEM EVALUATION

Responden	X1	X2	Х3	X4	X5	Keseluruhan
1	3	4	3	3	4	3.4
2	3	3	3	4	4	3.4
3	2	3	3	4	4	3.2
4	2	3	3	4	4	3.2
5	4	4	4	4	4	4
6	4	4	4	3	3	3.6
Rata2	3	3.5	3.333333333	3.666666667	3.833333333	3.466666667
Keterangan	Baik	Cenderung sangat baik	Baik	Cenderung sangat baik	Cenderung sangat baik	Baik

IV. CONCLUSION

Based on previous explanations, the conclusions of this research are:

- 1. Sandals Craftsmen can sell the products through an online sales information system that has been created.
- 2. Based on the system evaluation using the questionnaire distribution and processing, an online sales information system can be well received by the sandals craftsmen in Berbek Village, Sidoarjo.

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