SOUVENIR SALES APPLICATION AND ORDER ONLINE AT ELINA CERAMIC GALLERY BANDUNG

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ABSTRACT

Gallery Elina Ceramics is a company engaged in the business with raw materials ceramic craft stoneware clay which was founded by Dra. Elina Farida in 1996, Aside from being a seller Gallery Elina Ceramics also serves as a manufacturer of ceramic producer. Elina Ceramics Gallery itself has a lot of customers both inside and outside the city but the city will still apply Ceramics Gallery Elina shopping procedures manual so that customers should come directly to the place also process and report transactions that are still using the registry in the book report. Less optimal result in company publications to the public has not known by the public. To solve these problems, then Gallery Elina Ceramics plans to build by implementing e-commerce facilities.

To build an e-commerce application, a tool used to describe the system model is a data flow diagram (FlowMap), context diagrams, and Data Flow Diagrams (DFD), as well as in database design using a data dictionary, and Entity Relationship Diagram (ERD), by using programming language PHP and uses MySQL database. The process - a process that occurs in this website is the process of registration, ordering, shipping, payment and reporting process. Data collection methods used were interviews, observation and literature study. The research method used is descriptive analysis method is a method of research that is intended to gather data that may provide a clearer picture of an object of research and then conducted an analysis of the research object.

Based on testing alpha and beta, the development of e-commerce website is expected to provide alternative solutions to the promotional process Gallery Elina Ceramics and provide information on ordering, payment and delivery. Also with this website is expected to ease in making reports.

1. INTRODUCTION

1.1 Probem Indentification

Based on the background can be identified several problems that occur in the gallery Elina Ceramic Bandung is as follows:

1. Gallery Elina Ceramics have difficulties in marketing campaigns to reach a wider because of the campaign carried out by the gallery Elina Ceramic still use local newspapers media, exhibitions and information facilities customer to customer.
2. Gallery Elina Ceramics have difficulty in managing the transaction process because the transaction process must be done in the gallery Elina ceramic forcing the customer to come to the gallery Elina Ceramics.
3. Gallery Elina Ceramics have difficulty in managing product data, customer data, transaction data and financial statements that have been previously archived

1.2 Mean And Purpose

1.2.1 Mean

Based on these identified problems Gallery Elina Ceramics plans to build an application online souvenir sales and reservations to facilitate the promotion, transaction processing, product data management, customer data and reports

1.2.2 Purpose

The purpose of this application are:

1. Building a good marketing tool that can save time and marketing costs also make it easier Elina ceramics galleries provide information quickly, precisely and accurately to

customers online to make purchases or reservations at the gallery Elina souvenir Ceramics.
2. Building a better transaction system as well as implementing tools that are global transactions.
3. Simplify and expedite the management of product data, customer data, transaction data and simplify the process of making the report.

1.3 Benefits

The benefits in making this application include:
1. With this website the customer to easily get information about products and details without having to come to the store.
2. With the flexibility this website will be achieved because each customer can conduct transactions wherever he is ..
3. With this website the customer that are outside the city can still do tansaksi without having to come to Bandung.
4. With this website Gallery Elina Ceramics to expand its market share.

2. MODEL, ANALYSIS, DESIGN, AND IMPLEMENTATION

2.1 Model

1. Stage of data collection
   a. Studies Library.
   b. Observation.
   c. Interview.
2. Model of software development.
   a. *System engineering*
   b. *Requirement analysis*
   c. *Design*
   d. *Coding (Implementation)*
   e. *Testing*
   f. *Maintenance*

2.2 Problem Analysis

Based on analysis and interviews on what is needed in building e-commerce applications it can be evaluated following things:
1. Process transactions in place requires customers to come to a destination to get the product
2. File still a bookkeeping transaction that may be lost and worn

2.2 E-Commerce

Electronic Commerce (e-commerce) is a new concept which is described as a process used to purchase goods or services on the World Wide Web Internet or buying and selling process or exchange of products, services and information through information networks including the Internet. E-Commerce is a business activity carried out electronically via an Internet network or trading activities of goods or services through a digital communication channels.

2.3 Design

1. ERD (*Entity Relationship Diagram*)

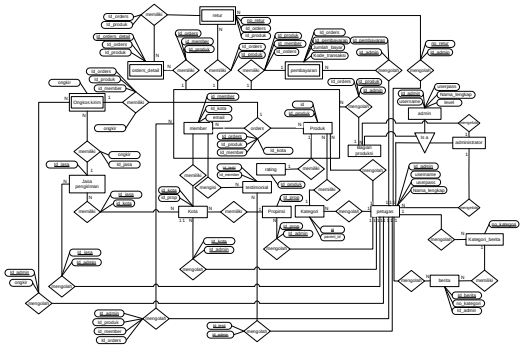


Figure 1. ERD (*Entity Relationship Diagram*)

2. Relational Schema

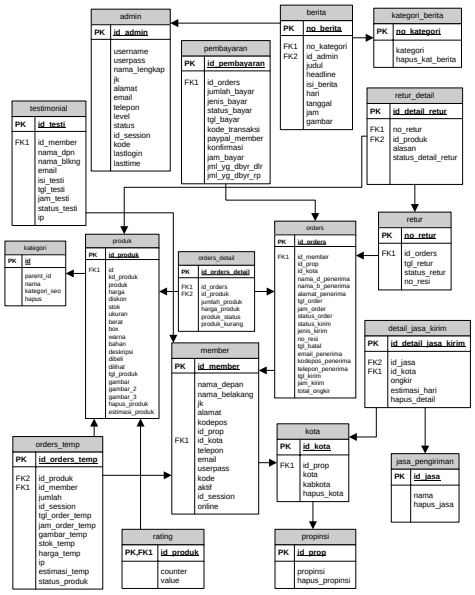


Figure 2. Relational Schema

3. Context Diagram

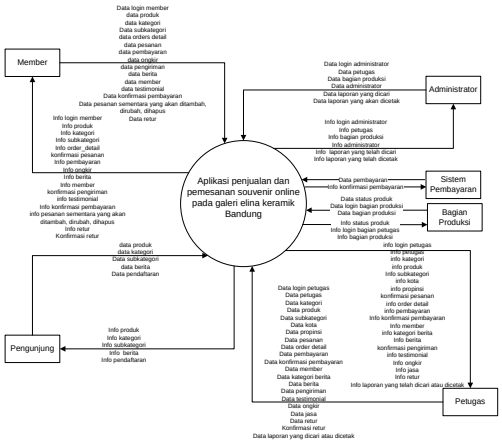


Figure 3. Context Diagram

4. DFD Level 1

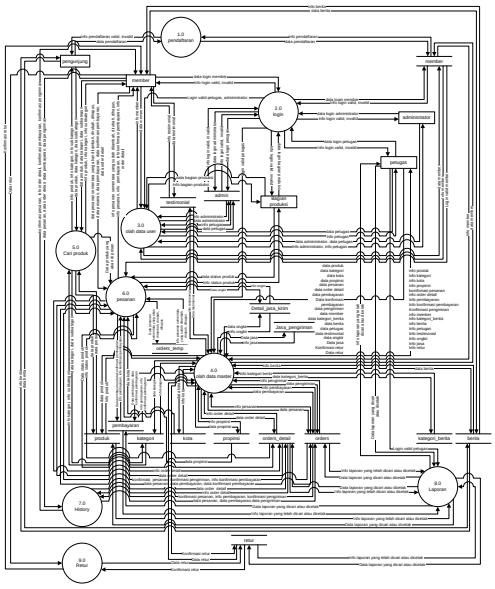


Figure 4. DFD Level 1

2.4 Implementation

The software used on computer systems in building applications Souvenir Sales and Order Online At Elina Ceramics Gallery Bandung are:

1. Operating System *Windows XP SP 2*.
2. PHP Programming Language
3. *DBMS* MySQL 5.0.51a
4. Web browser Mozilla firefox 3.6
5. *Code editor* Macromedia Dreamweaver 8
6. DFD modeler Microsoft Visio 2007

1. Database Implementation

```
CREATE TABLE IF NOT EXISTS `admin` (
	`id_admin` int(11) NOT NULL AUTO_INCREMENT,
	`username` varchar(20) NOT NULL,
	`userpass` varchar(41) NOT NULL,
	`nama_lengkap` varchar(50) NOT NULL,
	`jk` enum('Pria','Wanita') NOT NULL,
	`alamat` text NOT NULL,
	`email` varchar(100) NOT NULL,
	`telepon` varchar(30) NOT NULL,
	`level` enum('Administrator','Petugas') NOT NULL,
	`status` enum('Aktif','Tidak Aktif') NOT NULL DEFAULT
'Tidak Aktif',
	`id_session` varchar(100) NOT NULL,
	`kode` varchar(50) NOT NULL, PRIMARY KEY
(`id_admin`),  UNIQUE KEY `username` (`username`)
) ENGINE=InnoDB  DEFAULT CHARSET=latin1
AUTO_INCREMENT=1;


CREATE TABLE IF NOT EXISTS `produk` (
	`id_produk` int(11) NOT NULL AUTO_INCREMENT,
	`id` int(11) NOT NULL,
	`kd_produk` varchar(20) NOT NULL,
	`produk` varchar(100) NOT NULL,
	`harga` decimal(10,0) NOT NULL,
	`diskon` float NOT NULL,
	`stok` int(11) NOT NULL DEFAULT '0',
	`ukuran` varchar(50) NOT NULL,
	`berat` int(11) NOT NULL DEFAULT '0',
	`box` varchar(50) NOT NULL,
	`warna` varchar(20) NOT NULL,
	`bahan` varchar(50) NOT NULL,
	`deskripsi` text NOT NULL,
	`dibeli` int(5) NOT NULL DEFAULT '0',
	`dilihat` int(11) NOT NULL DEFAULT '0',
	`tgl_produk` date NOT NULL,
	`gambar` varchar(100) DEFAULT NULL,
	`gambar_2` varchar(100) NOT NULL,
	`gambar_3` varchar(100) NOT NULL,
	`hapus_produk` enum('Ya','Tidak') NOT NULL DEFAULT
'Tidak',
	`estimasi_produk` tinyint(4) NOT NULL,
PRIMARY KEY (`id_produk`),
UNIQUE KEY `kd_produk` (`kd_produk`),
KEY `id` (`id`))
) ENGINE=InnoDB  DEFAULT
CHARSET=latin1AUTO_INCREMENT =1;


CREATE TABLE IF NOT EXISTS `orders` (
	`id_orders` int(11) NOT NULL AUTO_INCREMENT,
	`id_member` int(11) NOT NULL,
	`id_prop` int(11) NOT NULL,
	`id_kota` int(11) NOT NULL,
	`nama_d_penerima` varchar(20) NOT NULL,
	`nama_b_penerima` varchar(20) NOT NULL,
	`alamat_penerima` text NOT NULL,
	`tgl_order` date NOT NULL,
	`jam_order` time NOT NULL,
	`status_order` enum('Di setujui','Di batalkan') NOT NULL
DEFAULT 'Di setujui',
	`status_kirim` enum('Sedang di proses','Sedang
dikirim','Sedang dikirim sebagian','Sudah diterima','Sudah diterima
sebagian','Produk kurang sedang dikirim','--') NOT NULL
DEFAULT '--',
	`jenis_kirim` enum('JNE Express','JNE Regular','Tiki','Kurir')
NOT NULL,
	`no_resi` varchar(15) DEFAULT NULL,
	`tgl_batal` date DEFAULT NULL,
	`email_penerima` varchar(100) NOT NULL,
	`kodepos_penerima` varchar(6) NOT NULL,
	`telepon_penerima` varchar(20) NOT NULL,
	`tgl_kirim` date DEFAULT NULL,
	`jam_kirim` time DEFAULT NULL,
	`total_ongkir` decimal(10,0) NOT NULL,
PRIMARY KEY (`id_orders`),
KEY `id_member` (`id_member`)
) ENGINE=InnoDB  DEFAULT
CHARSET=latin1AUTO_INCREMENT =1;
```

```
CREATE TABLE IF NOT EXISTS `orders_temp` (
        `id_orders_temp` int(11) NOT NULL AUTO_INCREMENT,
        `id_produk` int(11) NOT NULL,
        `id_member` int(11) NOT NULL,
        `jumlah` int(4) NOT NULL,
        `id_session` varchar(100) NOT NULL,
        `tgl_order_temp` date NOT NULL,
        `jam_order_temp` time NOT NULL,
        `gambar_temp` varchar(100) NOT NULL,
        `stok_temp` int(5) NOT NULL,
        `harga_temp` decimal(10,0) NOT NULL DEFAULT '0',
        `ip` varchar(15) NOT NULL,
        `estimasi_temp` tinyint(4) NOT NULL,
        `status_produk` enum('1','2','3','4') NOT NULL DEFAULT
        '4',
PRIMARY KEY (`id_orders_temp`)) ENGINE=InnoDB
DEFAULT CHARSET=latin1AUTO_INCREMENT =1;

CREATE TABLE IF NOT EXISTS `pembayaran` (
        `id_pembayaran` int(11) NOT NULL AUTO_INCREMENT,
        `id_orders` int(11) NOT NULL,
        `jumlah_bayar` decimal(10,0) NOT NULL,
        `jenis_bayar` varchar(20) NOT NULL,
        `status_bayar` enum('Lunas','Belum Lunas','Belum
        dikonfirmasi','Di
         konfirmasi') NOT NULL DEFAULT 'Belum Lunas',
        `tgl_bayar` date NOT NULL,
        `paypal_member` varchar(100) DEFAULT NULL,
        `konfirmasi` text NOT NULL,
        `kode_transaksi` varchar(30) NOT NULL,
        `jam_bayar` time DEFAULT NULL,
        `jml_yg_dbyr_dlr` float DEFAULT NULL,
        `jml_yg_dbyr_rp` decimal(10,0) DEFAULT NULL,
PRIMARY KEY (`id_pembayaran`),
KEY `id_orders` (`id_orders`)
) ENGINE=InnoDB  DEFAULT
CHARSET=latin1AUTO_INCREMENT =1;
```

2. Interface Implementation

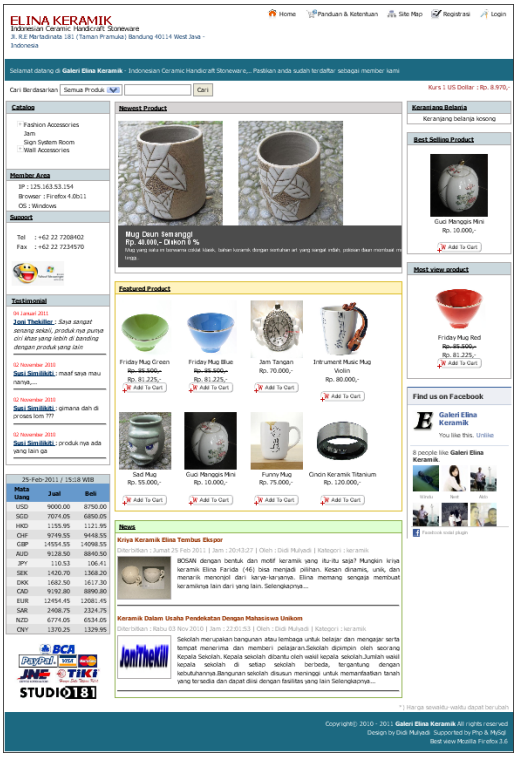


Figure 5. Main Display

3. RESULTS AND DISCUSSION

E-commerce application that was built has the following capabilities:

1. Presenting information about which products are offered by the company
2. Make it easier for customers to conduct transactions
3. Extending the company's market share

4. CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

1. This system can serve as a good promotional tool that can be accessed by many people, the media campaign that is global, so the public can access directly into the store.
2. This system can serve orders and sales and online transactions.
3. This system can provide the report as expected by the company.

4.2 Suggestion

For software development, there are a few suggestions that can be put forward, namely:

1. It is necessary to develop the website for more complete and interesting again, either the design or in terms of its system.
2. It is necessary to increase the development of cooperation with a number of expeditions or delivery other than Tiki JNE, possibly for overseas shipping such as FedEx.
3. The use of multiple languages is highly recommended in addition to Indonesian, because promotion is done through the internet network that is international, at least use the international language in this case English.
4. Methods for payment can be made online as well as for Internet banking or other payment to avoid stacking order number.

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