PENERAPAN E-COMMERCE DALAM MENUNJANG PENJUALAN PRODUK

JAJAT SUDRAJAT

Universitas Komputer Indonesia (UNIKOM)
Jl. Dipati UkurNo. 112 – 116 Bandung 40132
Comix.morise@gmail.com

ABSTRACT

sale of goods is a way to get a very convincing benefit.

CV. Lugina Karya Bandung is a company that sells a product such as paving blocks, steel concrete, pavement, etc..

sales of these products is still comparatively slow due to lack of promotion of public goods. results sales report have not detailed very well.to overcome these constraints, the system was made of e-commerce application in

CV. Lugina Karya by knowing and understanding the system that existed previously.

so that expected this software will further enhance sales.that can support the smooth sale of goods in CV. Lugina Karya Bandung

1. Introduction

1.1 Identification of Problems

Based on the analysis and interviews to the company then issues contained in the CV Lugina Karya Bandung work is how to build an application "Application of E-commerce sales in the Product Support".

1.1.2 Overview of Library

1.1.2.1 Place and position of the company

This BANDUNG CV.LUGINA KARYA located in Jl. Manglid No.24. South Margahayu Kelurahan, South Margahayu district, Bandung regency, West Java Province.

1.2 Research Objectives

The purpose of the writing of this Final Project is to build the application "Application of E-commerce sales in the Product Support".

The purpose of the writing of this Final Project is as follows:

1.1. To help sellers promote and introduce products online to all people (customers).
1.2. Provide information reports on all existing data within the system as a collection of goods, categories of goods, provincial, customers and transactions.
1.3. To assist the sale of products that are not restricted by one place or time, but also the process of trading can be done at any time. Because Internet access 24 hours of use.

2. Models, Analysis, Design and implementation of

2.1 Model Research

The methodology used in the completion of this Final Project is:

1. Data collection phase

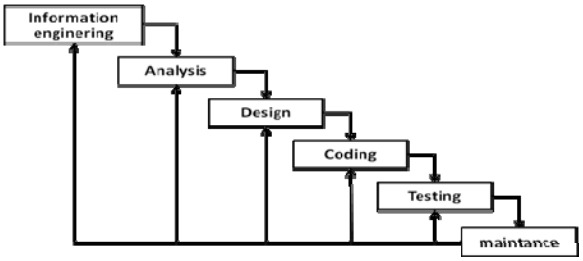
a. A Literature Review, which collects data from the literature, journals, books that are related to the research title
b. Interview (interview)
That is a question and answer with people associated with the object or issue being handled by the author.
c. Observation (observation)
That is, doing research and direct observation of activities so that authors obtain accurate data.

2. Software development is done by using the Waterfall method, among others:

a. Requirement
The first step taken in the method of requirements is to interview the parties involved to continue with the retrieval of data in the form of catalog and price list.
b. Analysis
Stage is to analyze the things needed in the implementation of a project of work on the software.
c. Design
Translation stage of the analyzed data into a form that is easily understood by the user.
d. Coding
Translation stage data or solving problems that have been designed keadalam particular programming language.
e. Implementation
It is a testing phase of software that was built.

f. Maintenance

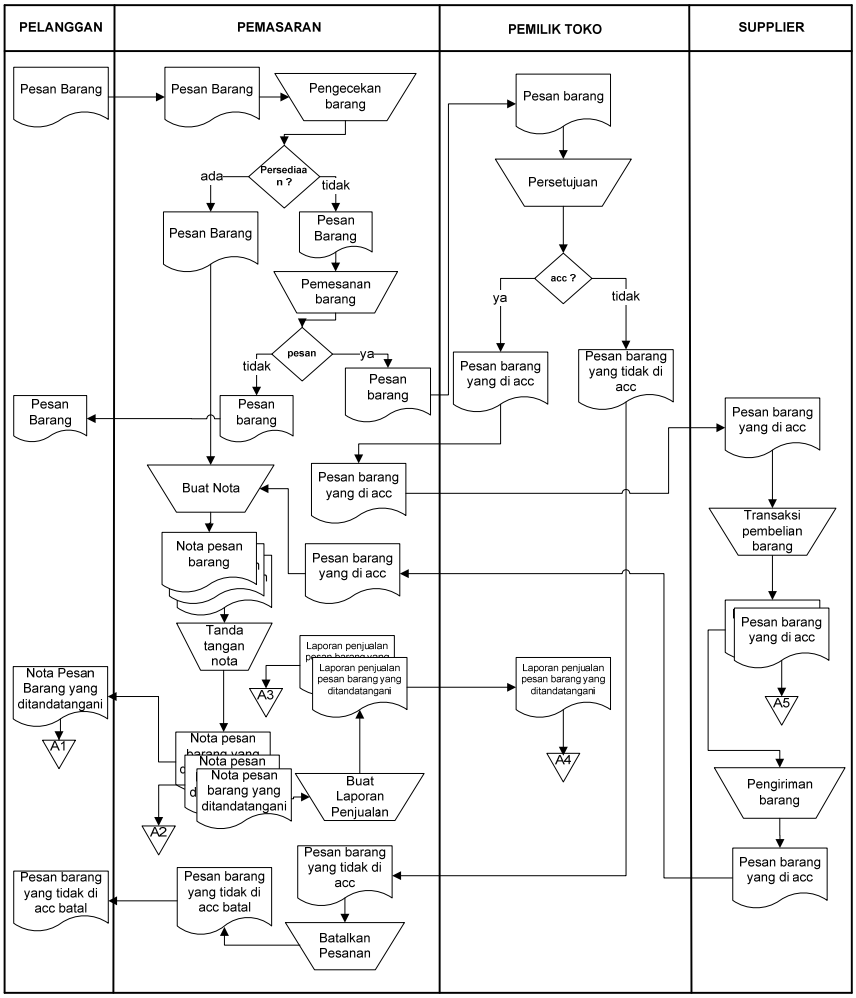
The final stage in which a software may have already completed the changes or additions as requested by the user.



Picture 2.1 Waterfall Method

2.2 System Analysis

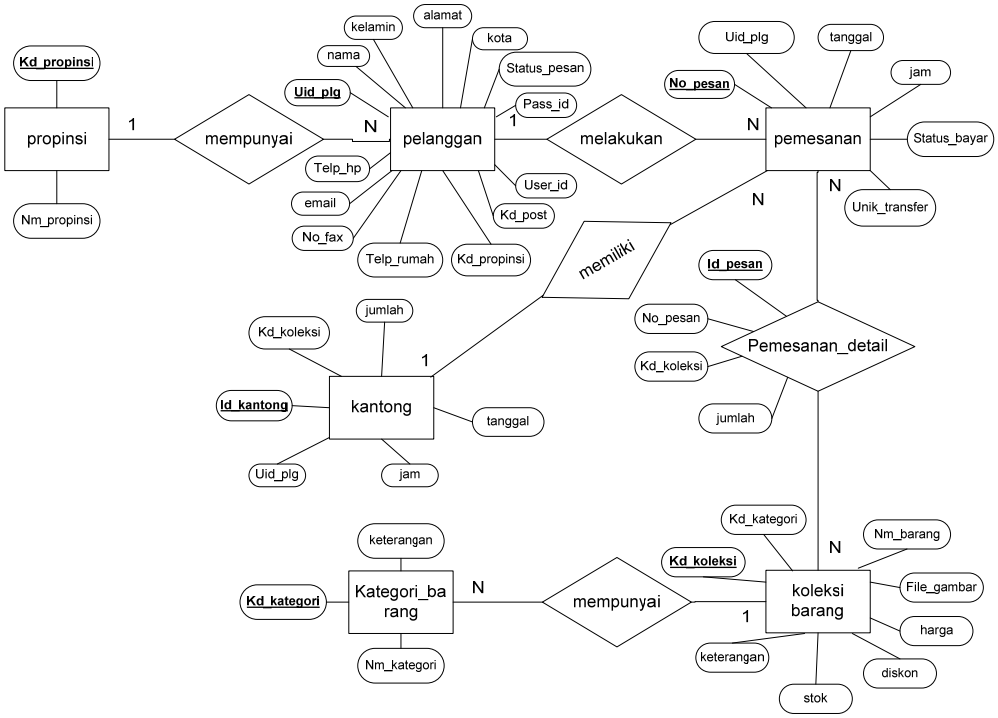
Analysis of this system is about analysis of the current system. Aims as the basis for design or repair the old system. From the results of the analysis can be designed or improved to a system that is more effective and efficient.



Gambar 2.2. Flow map pemesanan barang.

1. Functional Requirements

Process analysis of functional requirements for the system to be built to produce a database design is described through the tool Entity Relationship Diagram (ERD) or collectively, the ER. ER diagram of the components forming the entity (entities) and Relation (relationship). Entities contained in the ER diagram of the system orders in the CV. Lugina Karya Bandung



Picture 2.3 Entity Relationship Diagram of Goods Booking System

1. Non Functional Requirements

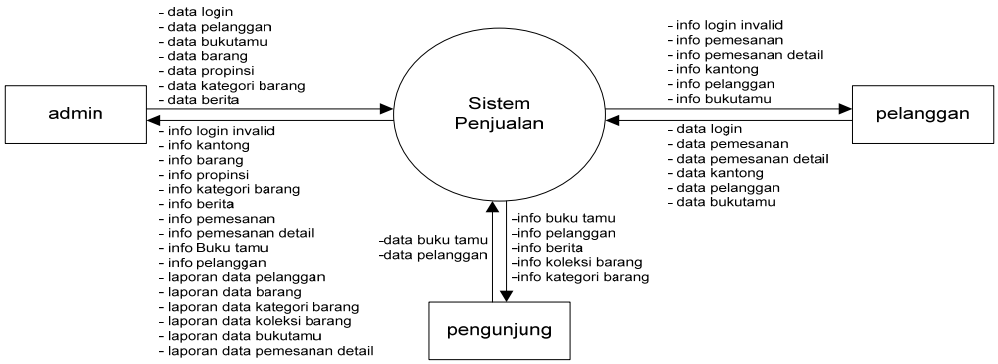
Analysis of non-functional requirements analysis is needed to determine the system requirements specification. This specification also includes the elements and components of what is needed for the system to be built, until the system is implemented. This needs analysis to determine the required input spsesifikasi by the system, output will be generated by the systems and processes needed to process inputs to produce a desired output. non-functional requirements are divided into several analysis, namely:

1. Analysis of hardware (Hardware)
2. Analysis software (Software)
3. Analysis of users (User)

1.1 Design

Context Diagram

Context diagram is a tool for structural analysis. This structural approach to describe an outline of the system or as a whole. In the context diagram that will be made to produce the necessary information sources and the objectives to be produced. Entities that are used in the context diagram order system works diCV.Lugina goods Bandung is Admin. Context diagram of the system to be built can be seen in the picture below:

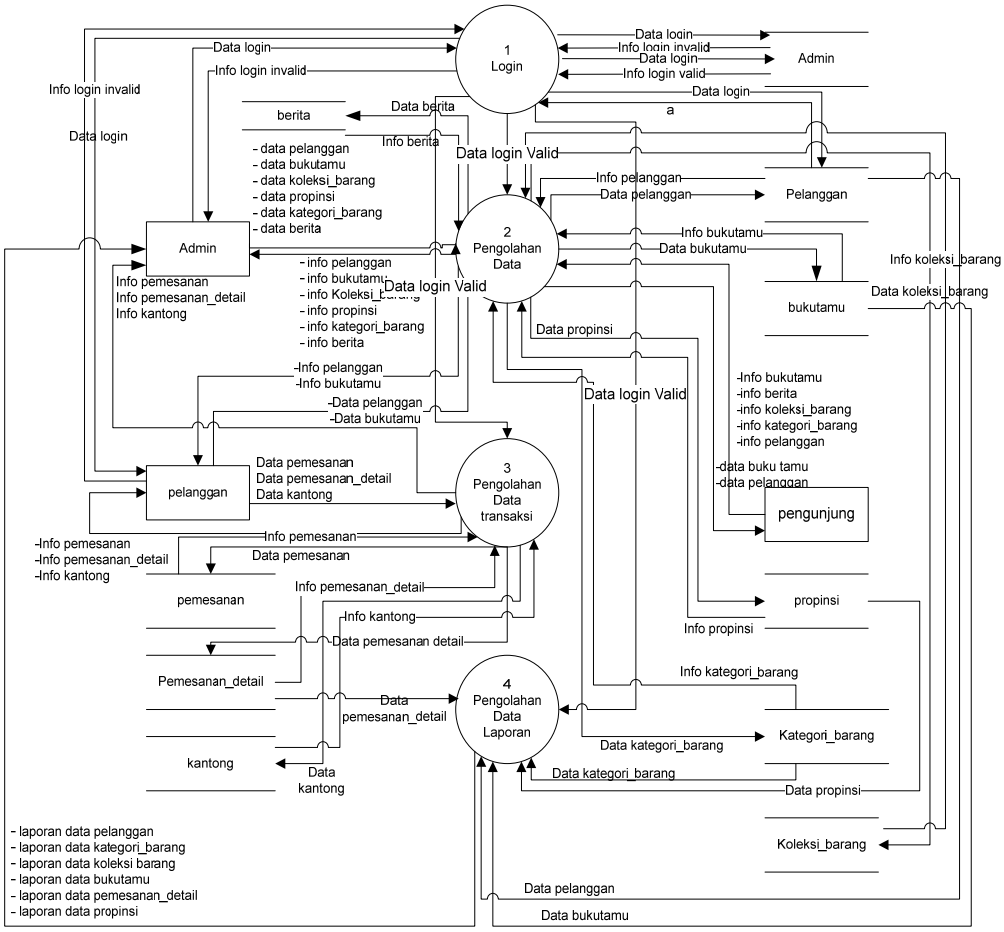


Picture CV.Lugina Karya Context Diagram

Data Flow Diagram (DFD)

Data Flow Diagram (DFD) is used to describe the system as a network of processes functionally linked to each other by the flow of data. In the Data Flow Diagram (DFD) consists of external entities, data flows, processes, and data storage.

The following is a Data Flow Diagram (DFD) which describes how the system is running as admin and customer access applications Merchandising Sales CV.Lugina Work Online.



Picture DFD level 0 Lugina Karya Sales System

1.1 Implementation

Implementation phase is to translate the design stage based on the analysis results in a language that can be understood by machines and the application software on the actual situation.

2.4.1 Hardware Preparation

Hardware (Hardware) is used to develop application systems for e-commerce sales system is as follows:

1. Personal Computer with Pentium 4 processor Equivalents.
2. 512 Mb RAM
3. 80 Gb Harddisk

Hardware preparation can be done one day assuming all the hardware has been provided the previous.

4.1.2 Preparation Software

Software (Software) is installed on a computer system used to develop application systems for e-commerce sales system is as follows:

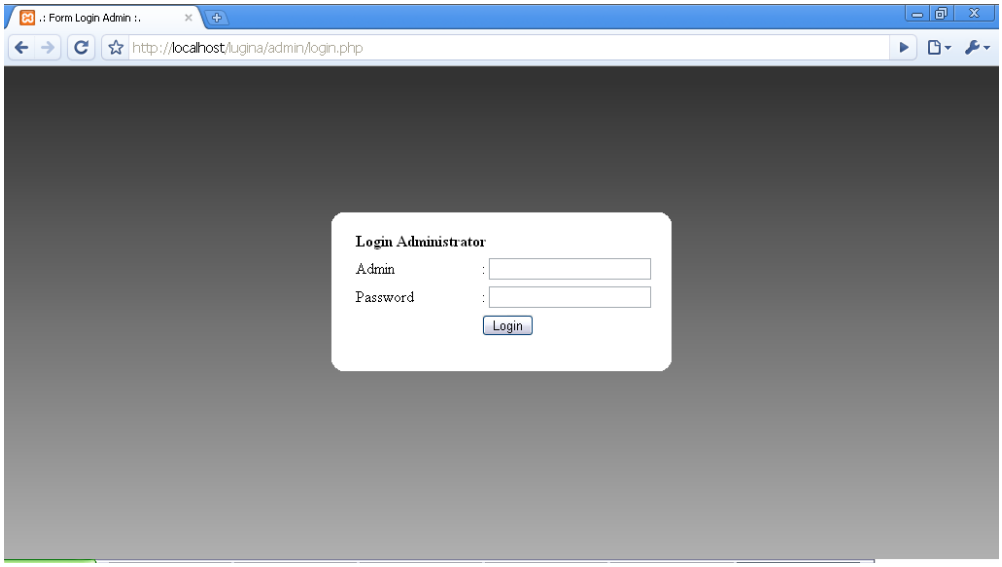
1. Operating System Windows XP / Vista.
2. MySQL for database storage.
3. PhpMyAdmin for database interface.
4. Macromedia Dreamweaver 8 for writing code and designing the program display.

4.1.3 Interface Implementation

Implementation of interface design to make the results of an application program that can be operated in order to achieve results in accordance with the design. After doing the analysis and design stages, then the next step is the application of software products that will be tested.

Form Admin login

Login form can be seen in the image of this view is the beginning of the process to be able to access the following admin pages.



Picture. Admin Login Form

Home Form Admin

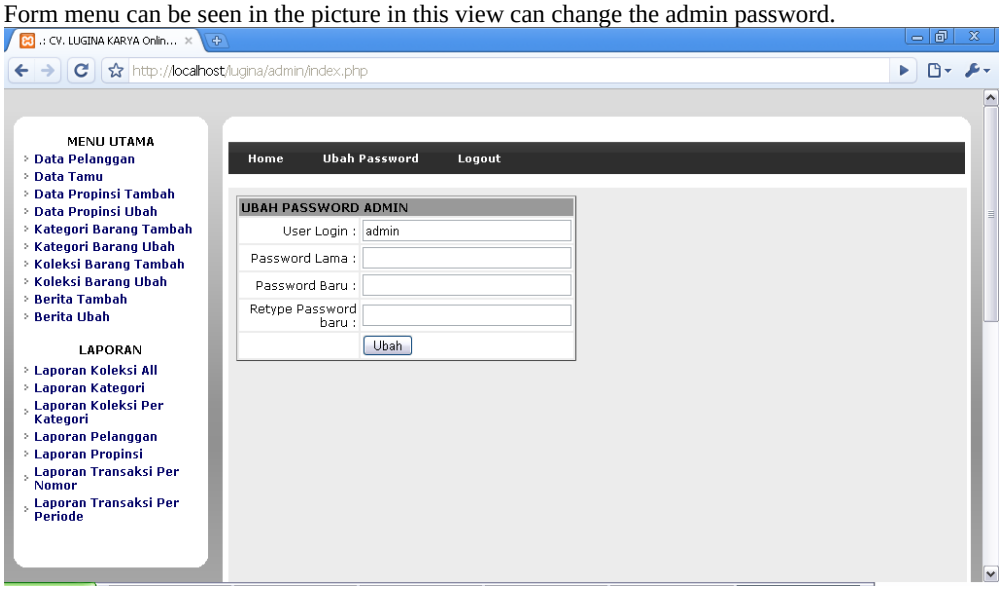
Main menu admin form can be seen in the picture in this view there are some links where each link has its own
function.



Picture Form Main Menu Admin

Admin Password Change Form

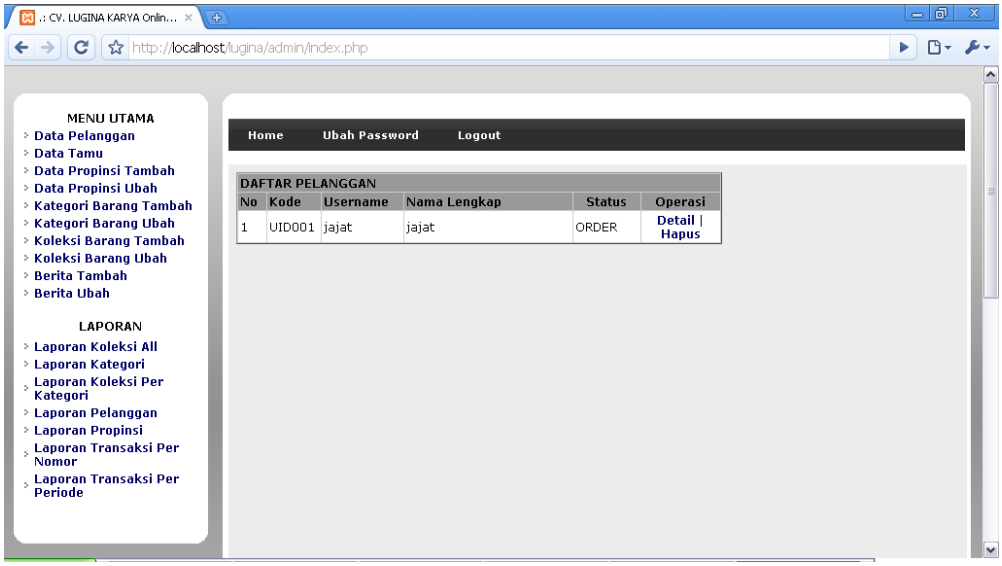
Form menu can be seen in the picture in this view can change the admin password.



Picture Form Admin Change Password

Customer Data Form

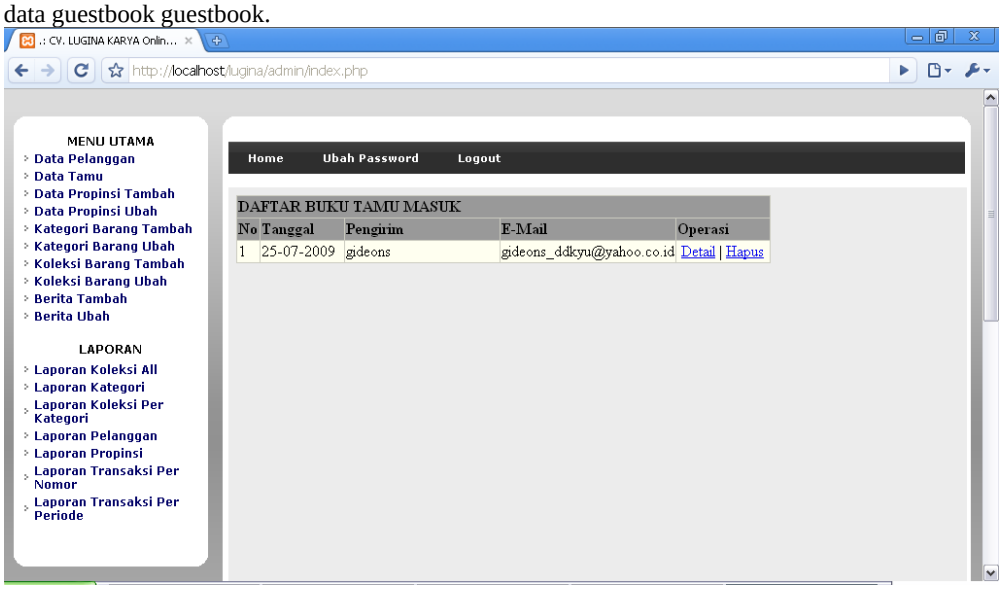
This customer data form can be seen in picture in this view admin can view details of customer data and delete customer data.



Picture. Customer Data Form

Guestbook Form

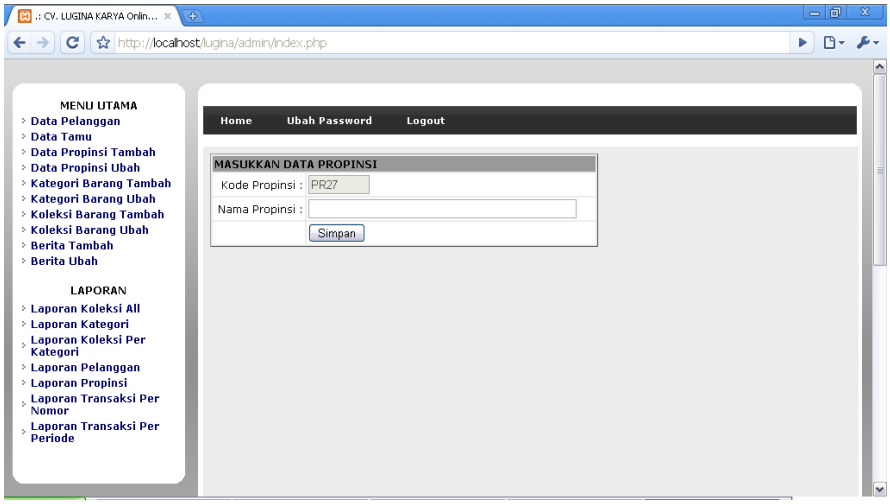
This guestbook form data can be seen in the picture in this view admin can see the data and delete data guestbook guestbook.



Picture. Guestbook Form

Province Add Data Form

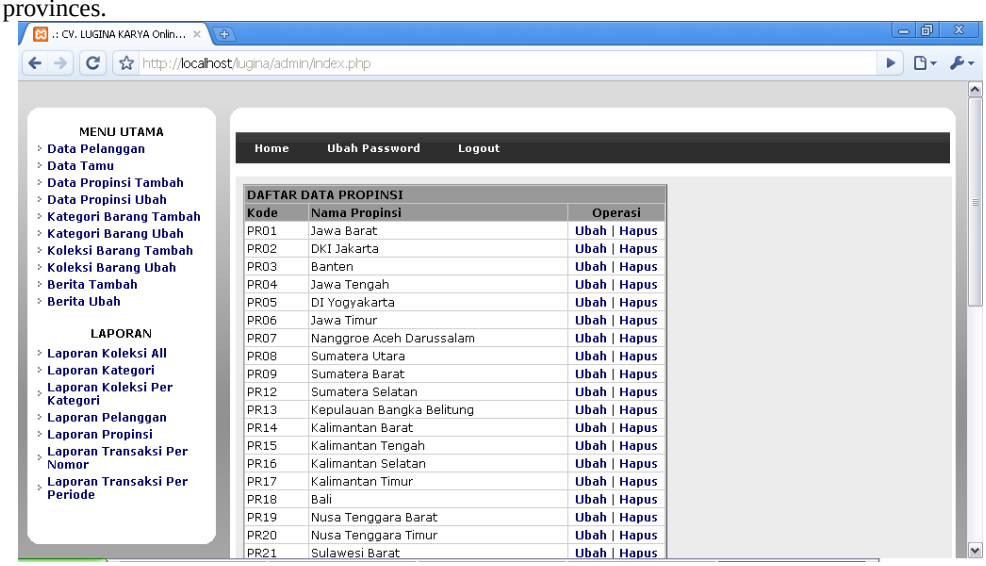
Form these added province data can be seen in the picture in this view admin can add the provincial data.



Picture Province Add Data Form

Province Data Change Form

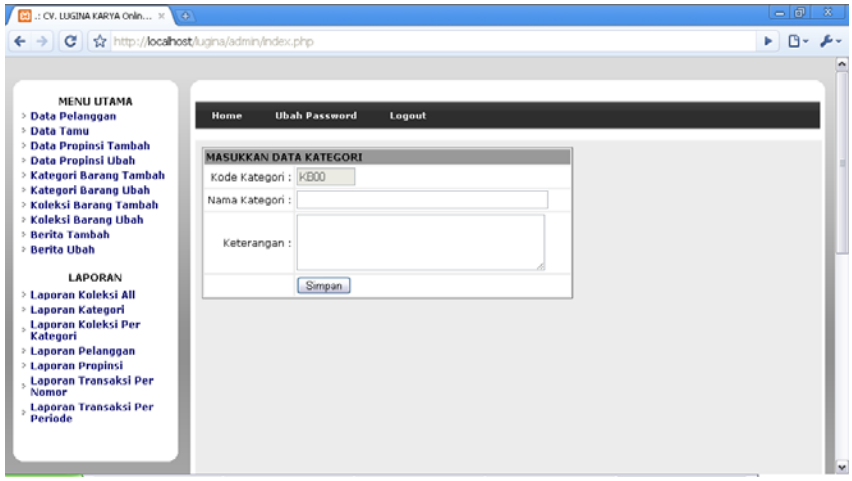
Provincial data form change can be seen in gambah in this view admin can change and delete data provinces.



Picture Form Data Change Province

Form Category Products Add

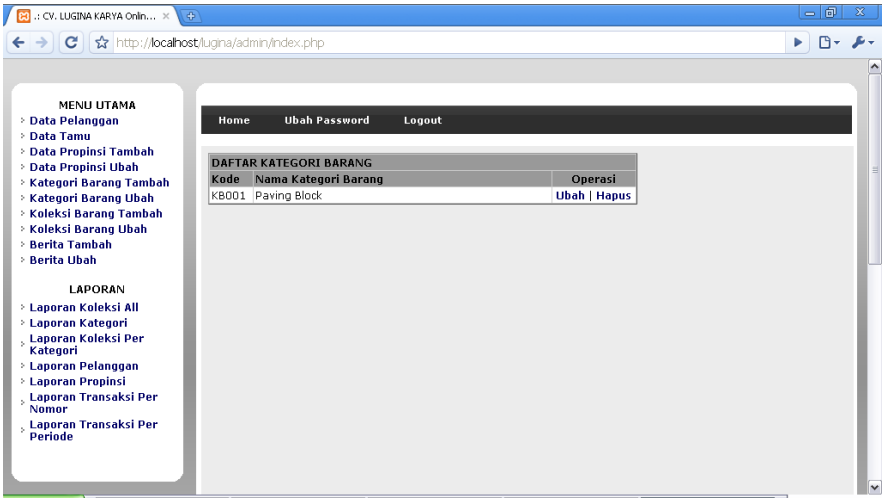
Form-added goods category can be seen in the picture in this view admin can add data categories of goods.



Picture Form Category Products Add

Goods Category Change Form

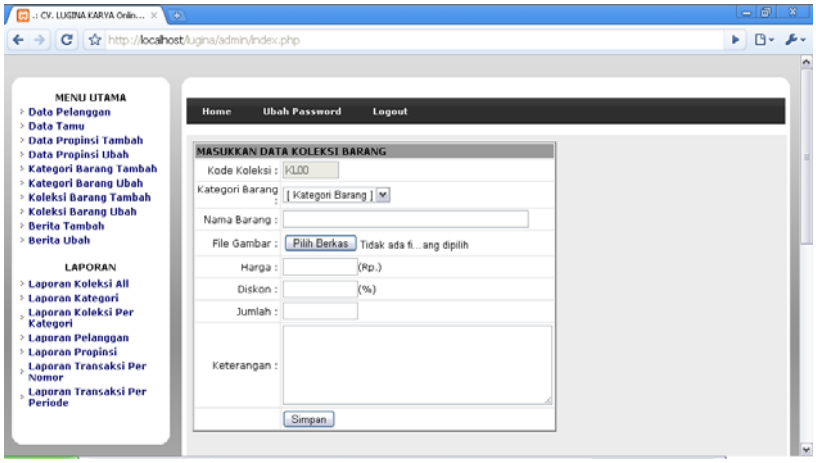
Form categories of goods change can be seen in the picture in this view admin can change and delete data categories of goods



Picture Form Change Category Goods

Form Collection Products Add

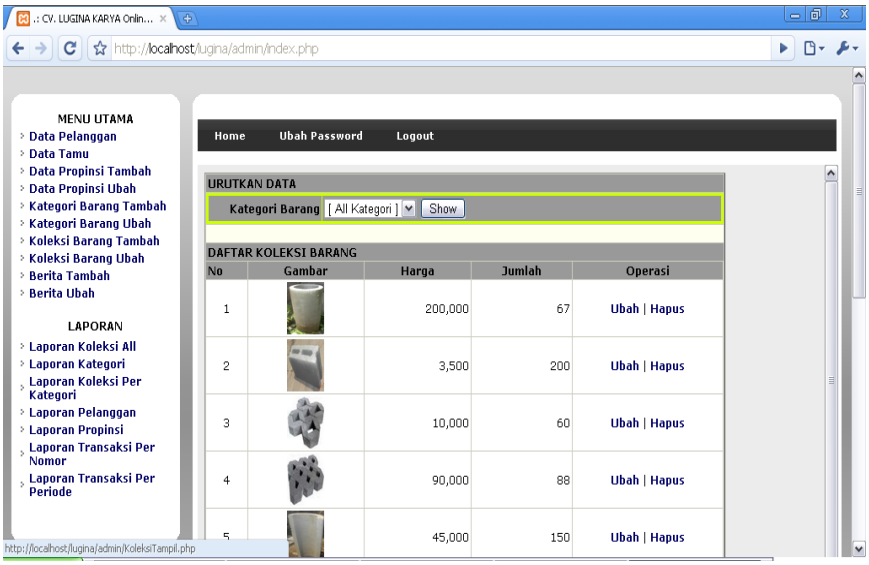
Form plus a collection of goods can be seen in the picture on this view can be menmbahkan admin data collection.



Picture Form Collection Products Add

Change Form Collection Products

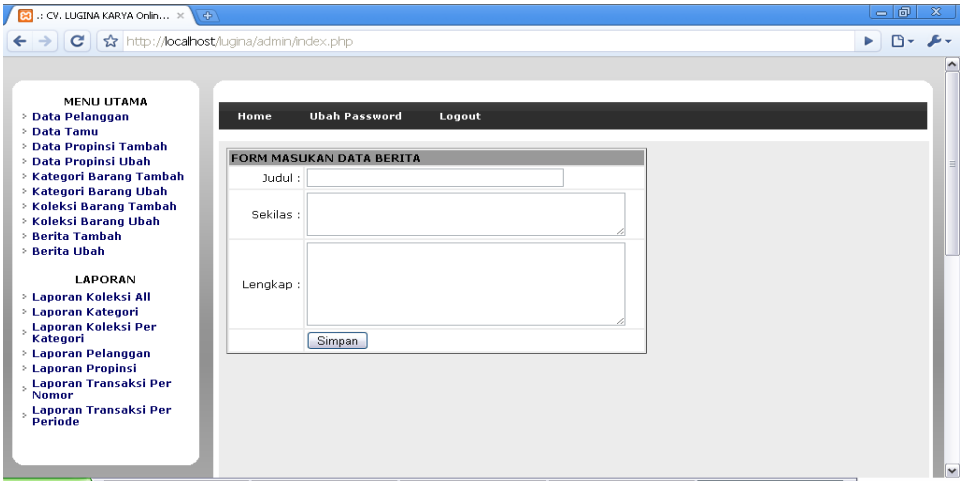
Form collection of change can be seen in the picture on this view admin can change and delete data collection.



Picture Change Form Collection Products

Add News Form

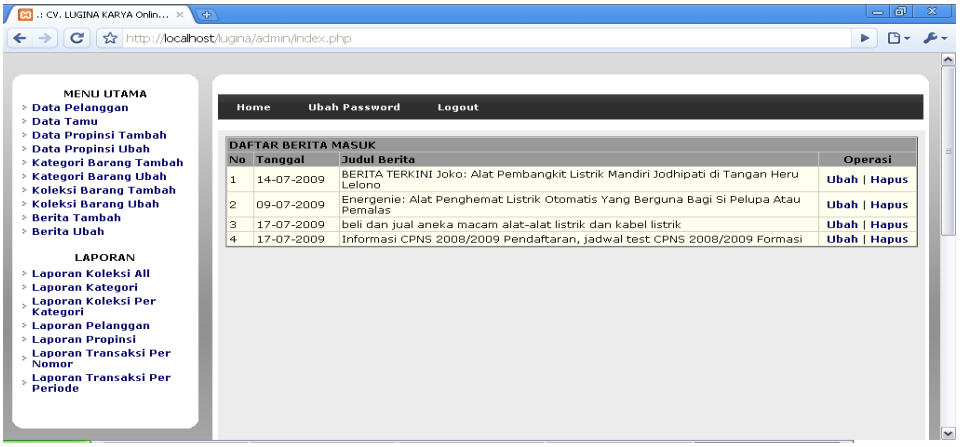
Form added news picture can be viewed at on this view admin can add news data.



Picture Form News Add

Change Form News

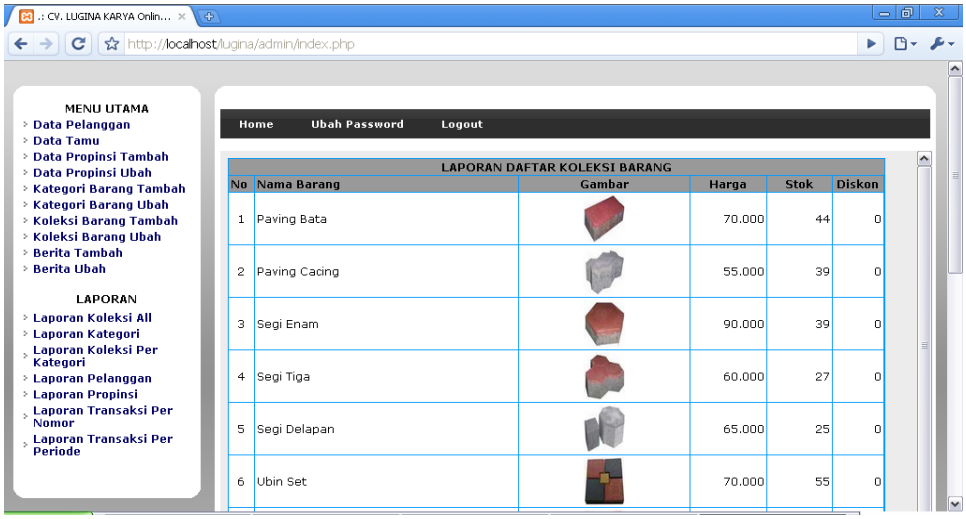
News form change can be seen in the picture on this view admin can change and delete data news.



Picture Form Change News

Report Form Collection Products

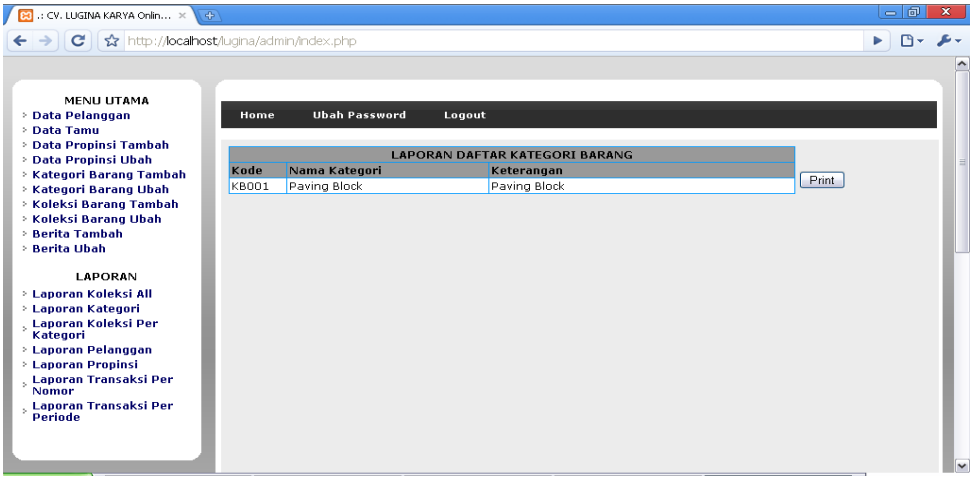
Form collection report can be seen in the picture at. This view admin can see the collection of reports



Picture Form Collection Products Report

Report Form Categories

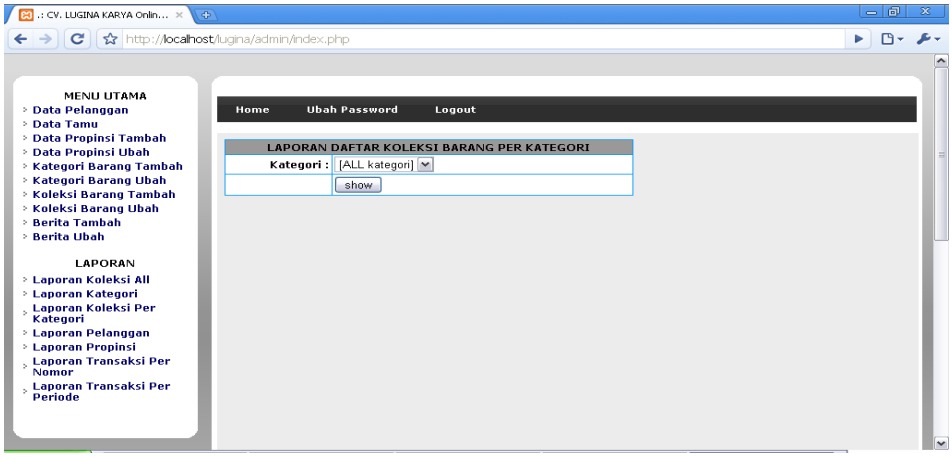
Report form categories can be seen in the picture on this view admin can view the report categories of goods.



Picture Form Report Categories

Report Form Collection Products Per Category

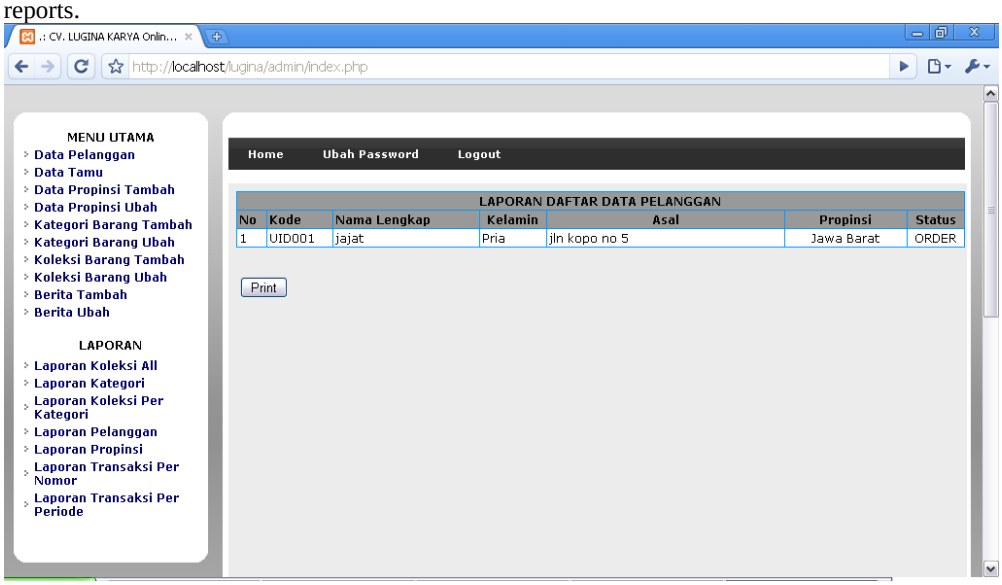
Form collection lapaoran per category can be seen in the picture on this view admin can see the collection of reports per category.



Picture Collection Report Form Products Per Category

Customer Report Form

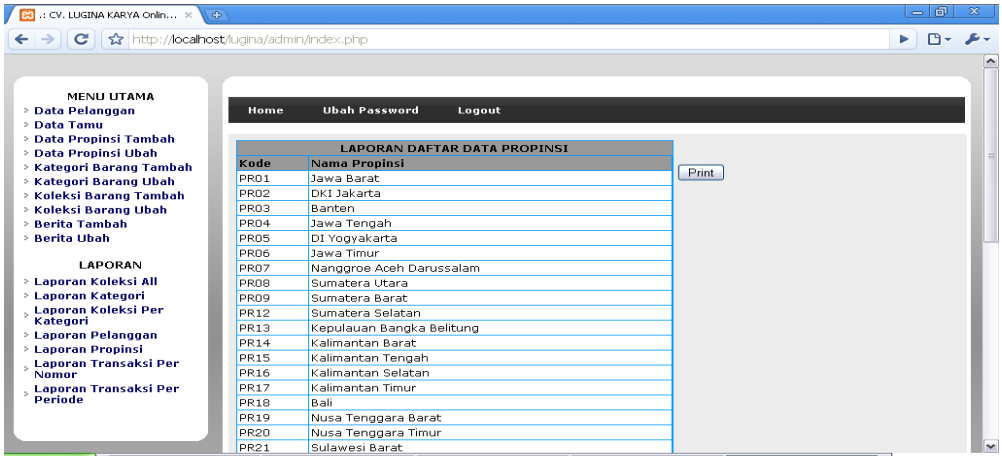
Customer report form can be seen in the picture on this view admin can view customer data reports.



Picture Customer Report Form

Province Report Form

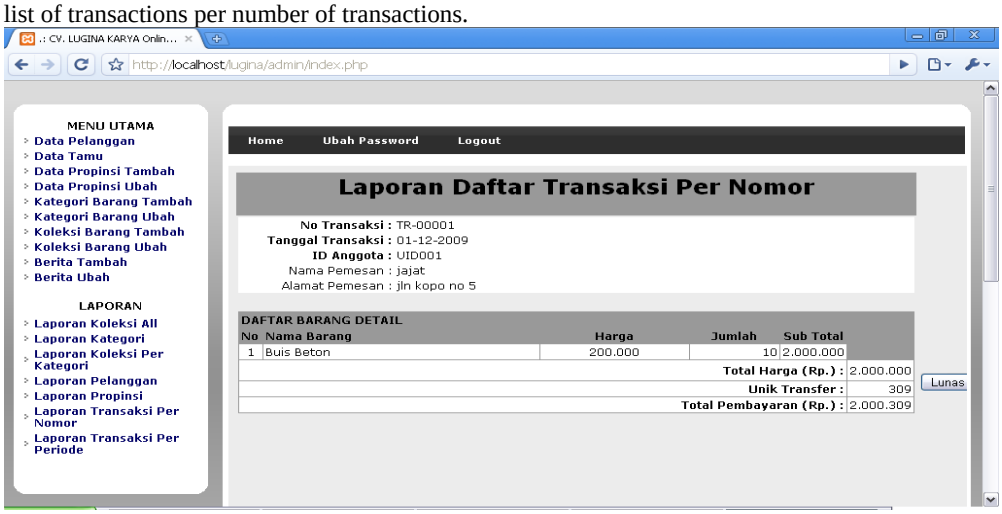
Provincial report form can be seen in the picture on this view admin can see the provincial report.



Picture Form Reports Province

Per Transaction Report Form Number

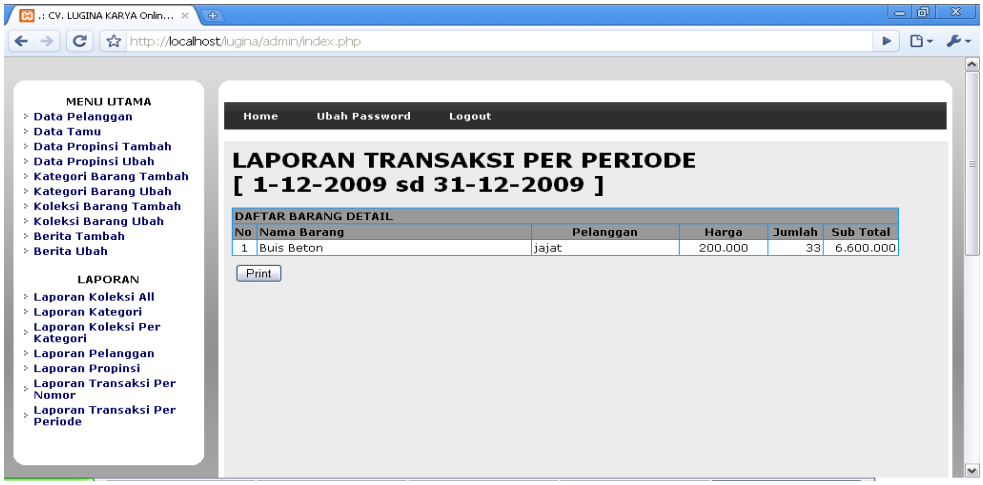
Form reports per number of transactions can be seen in the picture on this view admin can see a list of transactions per number of transactions.



Picture Transaction Report Form Number

Per Transaction Report Form Period

Form report transactions per period can be seen in the picture on this view admin can view transaction reports per period.



Picture Transaction Report Form Period

Home Form Online

Form the main page visitors and customers can be seen in the picture on this view visitors can sign up as a customer, to log in if already registered, see the news, see the profile of the store, see the collection items, see the categories of goods, see our contacts, and fill the guest book .



Picture Form Online Home

New Customer Registration Form

New customer registration form can be seen in the picture on this view can be mendafarkan visitors to become customers who would receive a username and password to login.



Picture. New Customer Registration Form

Home Customer Form

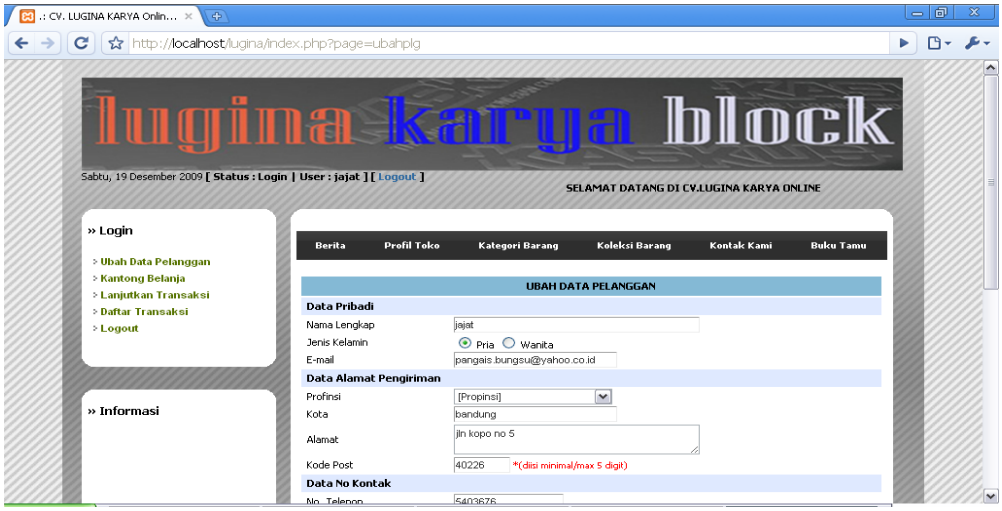
Main page form customers can be seen in the picture on this view customers can link to purchase the goods yard, change the customer data, transaction list, and logout.



Picture. Home Customer Form

Customer Data Change Form

Form change customer data can be seen in the picture on this view the customer can change the customer data, username, and password.



Picture. Customer Data Change Form

Form Cart

Form a shopping bag can be seen in the picture on this view may include items customers want to buy, change the number of items to be purchased, and continue to the next transaction page.



Picture. Form Cart

Form List Transactions

Form a list of transactions can be seen in the picture on this view the customer can view the transaction details.



Picture. Form List Transactions

3 Results and Discussion

3.1 Discussion Issues

From the interviews conducted in the CV obtained Lugina works on several issues, including:

1. Current CV Lugina not done promotional work for all people (customers) globally or also online in product sales.
2. Bookkeeping is performed manually today, so still not detailed sales reports properly.
3. Sales of products is limited by a single place or time.

3.2 Results Discussion

1. To help sellers promote and introduce products online to all people (customers).
2. Reports provide information on all existing data within the system as a collection of goods, categories of goods, provincial, customers and transactions.
3. To help the sale of products that are not restricted by one place or time, but also the process of trading can be done at any time. Because Internet access 24 hours of use.

4. Conclusions and recommendations

4.1 Conclusions

Based on the results obtained in the making of this final task, then the conclusion can be drawn as follows:

1. Application System for E-Commerce Sales System can operate in accordance with its objectives, namely to help in promoting goods sellers online.
2. Reports provide information on all existing data within the system as a collection of goods, categories of goods, provincial, customers and transactions.

3. Assist product sales that are not restricted by one place or time, but also the process of trading can be done at any time. Because Internet access 24 hours of use.

4.2 Suggestions

Of all the achievements now, still has some shortcomings. It is advisable to add features that can complete this website will be the future. Among them are:

1. Providing an attractive design.
2. Security system more attention from the hands of irresponsible.

5. Bibliography

1. Kadir, Abdul. Basic Dynamic Programming Using PHP WEB, ANDI Publisher, Yogyakarta, 2003
2. Nugroho, Bunafit. Creating Sales Information Systems With Web-Based PHP and MySql, Publisher Blessed One Media, Jogjakarta, 2008
3. Onno W. Purbo, Dkk, Know eCommerce, Elex Media Komputindo, Jakarta, 2001