TIRE SALES APPLICATION PROGRAM AT LAM JAYA WEB-BASED STORE

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Abstract

Along with the development of technology and information at this time, especially the world of computers is growing very rapidly, coupled with the presence of information technology that increasingly plays a role in the world of work. By using the right information technology tools, all human activities in the work can be done easily, efficiency and save time and cost, monitored and represented in accordance with the calculations and rules of the game that have been set. One of the information tools is the Internet, an unlimited global on-line network that provides millions of types of information. Internet is a connection facility of a website that wants to make itself as a social system that can be accepted by users and can be used as a positive thing Is a technique of collecting data, news, facts and information in the field that the process can be done by asking directly to the parties who can provide information about the problem that is being researched or indirectly such as making a phone call, emails and letters (written interviews)..

Introduction

Along with the development of technology and information at this time, especially the world of computers is growing very rapidly, coupled with the presence of information technology that increasingly plays a role in the world of work (Rosa, 2014). By using the right information technology tools, all human activities in the work can be done easily, efficiency and save time and cost, monitored and represented in accordance with the calculations and rules of the game that have been set (Enterprise, 2016). One of the information tools is the Internet, an unlimited global on-line network that provides millions of types of information. Internet is a connection facility of a website that wants to make itself as a social system that is acceptable to users and can be used as a positive thing (Indrajani, 2011). The Era of Information and Communication Technology (ICT) and digital innovation lead to dynamic changes in the business environment, where business transactions continue to shift from cash-based transactions to electronic-based transactions (Rastogi et al., 2018).

As is known also the development of computer-based information technology is more likely to be able to meet the needs of information more quickly and accurately, through cyberspace better known as internet media (Nurkarsa, 2021). In internet media, the term Electronic Commerce or e-commerce is now a broad picture of the scope of technology,

processes and practices that can conduct business transactions without using paper as a means of transaction mechanisms. This can be done in various ways, such as using Email, Electronic Data Interchange, or World Wide Web (WWW) involving domestic and international communities (Niranjanamurthy, Kavyashree, Jagannath, & Chahar, 2013).

Lam Jaya shop is one of the distributors of motorcycle tires with the brand Corsa. Lam Jaya shop is located in Lemah Abang-Cikarang precisely in Cikarang Regency (Fatonah, Yulandari, & Wibowo, 2018). This store sells various types of tires with the Corsa brand, but in the sales transactions are still using manual or uncomputerized means, namely by recording the results of sales transactions into books and storing sales receipts (Nugroho, 2015). This is an obstacle dikarnakan often loss of sales receipt data so as to hinder the process of presenting reports of sales transaction results. In addition, the search for goods data at the time of making a sales transaction takes a long time, because in the process of searching only by using the list of goods notebook (Pratama & Putu, 2014).

Based on the description above, the author designed a program for the sale of motorcycle tires at Toko Lam jaya which is expected to be able to help in running its business better and is expected to improve results and better quality, especially in terms of processing data on motorcycle tire sales transactions (Muchlis, 2020).

Based on the problems and description above, the author raised the julul "Tire Sales Application Program At Lam Jaya Web-Based Store".

Method

Data collection techniques are carried out to obtain all information and data related to the need for completion of the final task. As for the things that are done as follows:

1. Field Studies

    It is a research design that combines literature searches and surveys based on experience or case studies where researchers attempt to identify important variables and balance between them in a particular sproblem. Field studies can include observations and interviews of the objects studied. a.Observation

    The method is carried out to systematically identify data done either by paying attention directly or indirectly to the objects studied and taking visual data according to research needs so that no data is missed in the development of sales information system in Toko Lam Jaya using PHP and MySql.

    b. Interview

    Is a technique of collecting data, news, facts and information in the field that the process can be done by asking directly to the parties who can provide information about the problem that is being researched or indirectly such as making telephone, email and letter (written interview).

2. Literature Studies

    Efforts made by the author to gather information relevant to topics and issues that will or are being researched. The information can be obtained from scientific books, research reports, scientific papers, thesis and dissertations, regulations, statutes, yearbooks, encyclopedias and written sources both printed and electronic and internet.

Results and Discussion
  A. **System Design**

  1. Entity Relationship Diagram/ERD

Figure 1
Entity Relationship Diagram

  2. Normalization
      a.1NF Normal Shape
        1) Tire Out

Table 1
Normal Form 1NF(outlet)

No	No.Keluar	Tanggal	Untuk	Ket.	Kode	Kategori	Nama Ban	Qly	Prince	Amount	Total
1	BKB06	2016	RENDI	B006	CORSA S33	TUBBLESS	CORSA 05-11- S33	2	237.000	474.000	474.000
2	BKB07	07-11-2016	DANI		CORSA S123	B006 TUBBLESS S	CORSA S123	3	465.000	1.395.000	1.395.000

  2) Incoming Tires

Table 2
Normal Form 1NF(Inlet)

No	No.Masuk	Tanggal	Pembawa	Pemilik	Ket.	Kode	Kategori	Nama Ban	Qly	Prince	Amount	Total
1	BMB07	05-11-2016	HERU	YOPI	CORSA S33	B006	TUBBLE SS	CORSA S33	11	237.000 474.000		474.000

				CORS		TUBBLE CORS		1.395.00
2	BMB0806-11-2016 HERU	YOPI		B006			18465.000 465.000
				A S123	SS	A S123		0

anuary

b. Normal Form 2NF

Tire Out
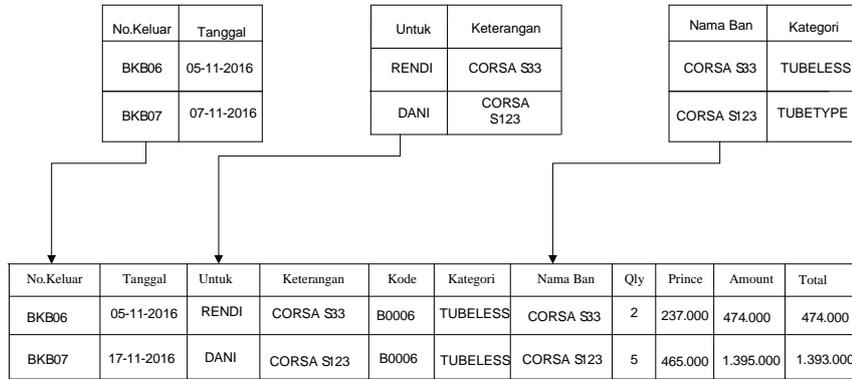
Figure 2
Exit Tires (2NF)

Incoming Tires
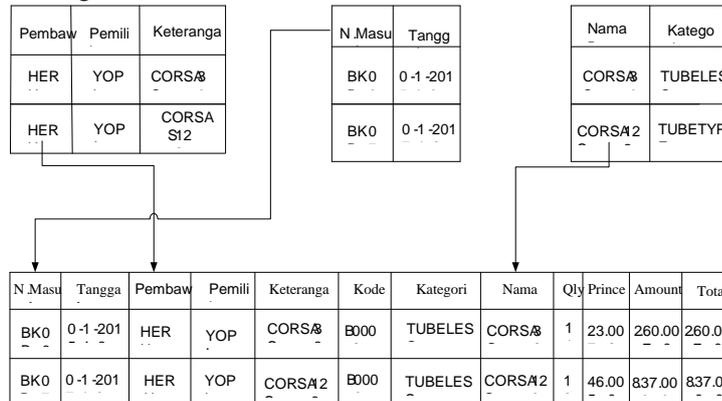
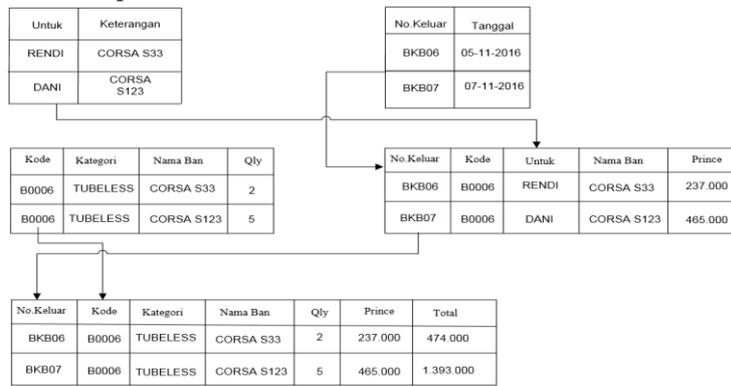**Figure 3**
Incoming Tires (2NF)

c. Normal Shape 3NF

Untuk	Keterangan
RENDI	CORSA S33
DANI	CORSA S123

No.Keluar	Tanggal
BKB06	05-11-2016
BKB07	07-11-2016

Kode	Kategori	Nama Ban	Qly
B0006	TUBELESS	CORSA S33	2
B0006	TUBELESS	CORSA S123	5

No.Keluar	Kode	Untuk	Nama Ban	Prince
BKB06	B0006	RENDI	CORSA S33	237.000
BKB07	B0006	DANI	CORSA S123	465.000

No.Keluar	Kode	Kategori	Nama Ban	Qly	Prince	Total
BKB06	B0006	TUBELESS	CORSA S33	2	237.000	474.000
BKB07	B0006	TUBELESS	CORSA S123	5	465.000	1.393.000

Figure 4
Exit Tires (3NF)

Incoming Tires

Pembawa	Pemilik	Keterangan
HERU	YOPI	CORSA S33
HERU	YOPI	CORSA S123

No.Masuk	Tanggal
BKB06	05-11-2016
BKB07	07-11-2016

Kode	Nama Ban	Keterangan	Qly
B0006	CORSA S33	CORSA S33	11
B0006	CORSA S123	CORSA S123	18

No.Masuk	Kode	Pemilik	Nama Ban	Prince
BKB06	B0006	YOPI	CORSA S33	237.000
BKB07	B0006	YOPI	CORSA S123	465.000

No.Masuk	Kode	Kategori	Nama Ban	Qly	Prince	Total
BKB06	B0006	TUBELESS	CORSA S33	11	237.000	2.607.000
BKB07	B0006	TUBELESS	CORSA S123	18	465.000	8.370.000

Figure 5
Incoming Tires (3NF)

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3. Program View Design
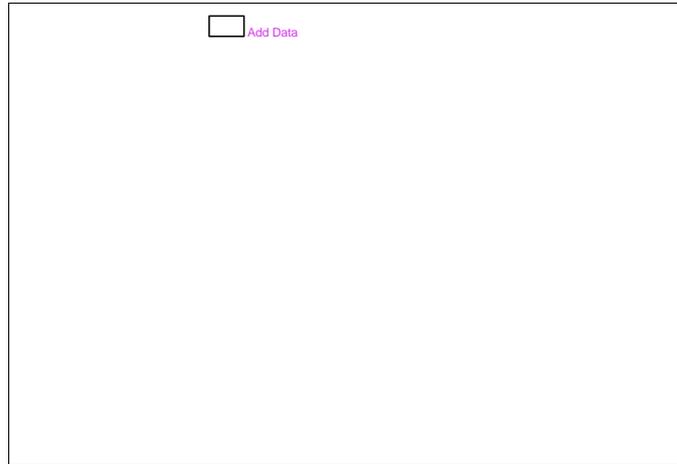   a. Login Menu View Design

| Username |
| password |
| login |

Login Menu View Design

   b. Main Menu Screen Design

home
User List
Kategori
Ban
Ban Masuk
Ban Keluar
Laporan Ban
Laporan Ban Masuk
Laporan Ban Keluar
Ganti Password
Logout

Gambar

Figure 6
Main Menu Form Design

   c. Incoming Tire Design

Home
User List
Kategori
Ban
Ban Masuk
Ban Keluar
Laporan Ban
Laporan Ban Masuk
Laporan Ban Keluar
Ganti Password
Logout

DATA BAN MASUK

No	Kode	Tanggal	Pembawa	Pemilik	Keterangan	Tools
1						Edit Delete Detail
2						Edit Delete Detail
3						Edit Delete Detail
4						Edit Delete Detail
5						Edit Delete Detail
6						Edit Delete Detail

Figure 7
Design Of Incoming Tire Form

d. Exit Tire Design

Figure 8
Out Tire Form Design

a. Draft Incoming Tire Report

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Figure 9
Draft Report Form Of Incoming Tires

e. Draft Exit Tire Report

Figure 10

Draft Report Form Tire Out

f. Tire Design

Home	DATA BAN
User List	Add Data
Kategori	
Ban	
Ban Masuk	
Ban Keluar	
Laporan Ban	
Laporan Ban Masuk	
Laporan Ban Keluar	
Ganti Password	
Logout	

No	Kategori	Nama ban	Ukuran	Harga	Keterangan	Stok	Tools
1							Delete Edit
2							Delete Edit
3							Delete Edit
4							Delete Edit
5							Delete Edit
6							Delete Edit

Figure 11
Tire Form Design

B. Implementation

1. Relationships Between Tables

Figure 12
Relationships Between Tables

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2. Database Structure
   a. User Table
      Table Name   : User
      Media   : Harddisk
      Key field   : id
      Organisasi file : Xampp

Table 3
User Table Structure

No	Nama Field	Type	Size	Keterangan
1	Id	Int		
2	Username	Varchar	11	
3	Password	Varchar	12	
			150	*Primery Key*
4	Level			
5	Namauser	Varchar		
6	Alamat	Text		
7	Tanggalrubah	Varchar	10	
8	Jamrubah	Time		

Masterban table
Table Name   : Master ban
Media   : Harddisk
Key field   : kodeban
Organisasi file : Xampp

Table 4
Masterban Table Structure

No	Nama Field	Type	Size	Keterangan
1	Kodeban	Varchar	5	*Primery key*
2	Namaban	Varchar	75	
		Varchar	8 150	

a.

No		Type	Size	
3	Ukuran	Varchar	10	
4	Harga	Int	12	
5	Keterangan	Text		
6	Kodekelompok	Varchar	3	
7	Kodeuser	Varchar	10	
8	Tanggalrubah	Varchar	10	
9	Jamrubah	Time		

a. Group Table

Table Name : Kelompok ban
Media   : Harddisk
Key field   : Kode kelompok
Organisasi file : Xampp

Table 5
Group Structure

No	Nama Field	Type	Size	Keterangan
1	Kodekelompok	Varchar	3	*Primery Key*
2	Namakelompok	Varchar	50	
3	Kodeuser	Varchar	10	
4	Tanggalrubah	Varchar	10	
5	Jamrubah	Time		

b.Table Masukban

NameTable : Masukban
Media   : Harddisk
Key field : Nomor masuk ban
Organisasi file : Xampp

Table 6
Table Structure Masukban

No	Nama Field	Type	Size	Keterangan
1	Nomor masuk ban	Varchar	5	*Primery Key*

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2	Tanggal masuk ban	Varchar	10
3	Pembawa	Varchar	50
4	Pemilik	Varchar	50
5	Keterangan	Text	
6	Kodeuser	Varchar	10
7	Tanggalrubah	Varchar	10
8	Jamrubah	Time	

c. Exit Table

Name Table   : Keluar ban
Media   : Harddisk
Key field   : Nomor keluar ban
Organisasi file : Xampp

Table 7
Exit Table Structure

No	Nama Field	Type	Size	Keterangan
1	Nomor keluar ban	Varchar	5	*Primery Key*
2	Tanggal keluar ban	Varchar	10	
3	Untuk	Varchar	50	
4	Keterangan	Text		
5	Kodeuser	Varchar	10	
6	Tanggalrubah	Varchar	10	
	Jamrubah	Time		

d.Table Masukbandetail

Name Table   : Masukbandetail
Media   : Harddisk
Key field   : id
Organisasi file : Xampp

Table 8
Table Structure Masukbandetail

No	Nama Field	Type	Size	Keterangan
1	Id	Int	5	*Primery Key*
2	Nomormasukban	Varchar	5	
3	Kodeban	Varchar	15	
4	Banyak	Int	12	

e. Table Out Tires detail

Name Table : Keluar ban detail
Media   : Harddisk
Key field   : id
Organisasi file   : Xampp

Tabel 9
Struktur Tabel Keluarbandetail

No	Nama Field	Type	Size	Keterangan
1	Id	Int	5	*Primery Key*
2	Nomorkeluarban	Varchar	5	
3	Kodeban	Varchar	15	
4	Banyak	Int	12	

3. Main Menu View, Program Input and Output

    a. View Login
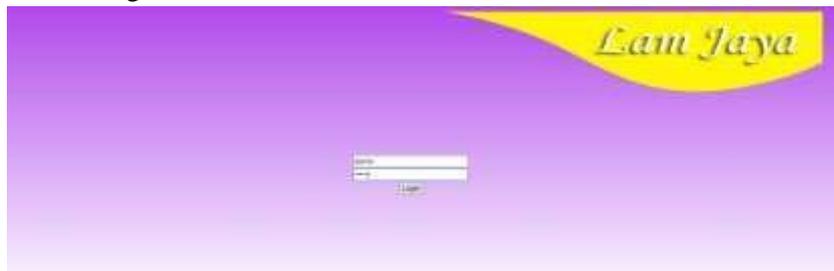
Figure 13
Menu Login

    b. View Main Menu

Figure 14
Main Menu

c. Category Menu View

Figure 15
Menu Categories

d. Tire Menu Display

Figure 16
Menu Ban

e. Entrance Ban Menu View

Figure 17
Incoming Tire Menu

f. Tire Out Menu View

Figure 18
Exit Tire Menu

g. Tire Report Menu View

Figure 19
Tire Report Menu

h. Incoming Ban Report Menu View

Figure 20
Incoming Tire Report Menu

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    i. Exit Ban Report Menu View

Figure 21
Exit Tire Report Menu

    j. Gant Password Menu View

Figure 22
Menu Change Password

4. Program Compile / Program End Result
 a. Database steps used
     1) Start with the star menu on the taskbar, select the all program menu
     2) Type : localhost
 b. Select phpmyadmin
     1) Select a database
     2) Type the db_dbms in the create database field
     3) Type create
 c. Create a table
     1) Select create table
     2) Type the table name in the table name column
     3) Type the name of the field in the name field
     4) Choose the data type
     5) Fill in the length of the characters in the column leght / values
     6) Specify primery key in index column
         7. Select save
 d. Steps to run the corsa sales application program

       1)   Select the star menu in the taskbar column select all programs
       2)   Choose google chrome
       3)   Type localhost/corsa
       4)   Enter username and password
  e. Main Menu
       1)   Home
       2)   User List 3) Category
       4)   Tires
       5)   In-House Ban
       6)   Tire Out
       7)   Ban Report
       8)   Incoming Tire Report
       9)   Exit Tire Report
       10) Change Password
       11) Sign out

Conclusion

Based on the discussion about the sales application program in Toko Lam Jaya, the author can conclude as follows: 1) The process of recording sales and reports that are still manual resulting in data errors and also scattered so that data appears in the store often the occurrence of data loss. 2) With the sales system in Toko Lam Jaya, the business process carried out can be well organized.

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