

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,

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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

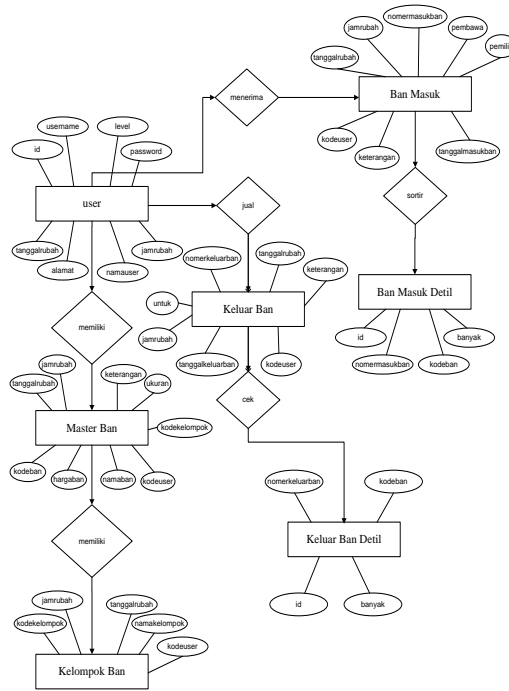


Figure 1
Entity Relationship Diagram

- 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	Qty	Prince	Amount	Total
1	BKB06	05-11-2016	RENDI	CORSA S33	B006	TUBBLESCORSA S	CORSA S33	2	237.000	474.000	474.000
2	BKB07	07-11-2016	DANI	CORSA S123	B006	TUBBLESCORSA 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	Qty	Prince	Amount	Total
1	BMB07	05-11-2016	HERU	YOPI	CORSA S33	B006	TUBBLESCORSA S	CORSA S33	11	237.000	474.000	474.000
2	BMB08	06-11-2016	HERU	YOPI	CORSA S123	B006	TUBBLESCORSA S	CORSA S123	18	465.000	465.000	1.395.000

b. Normal Form 2NF

Tire Out

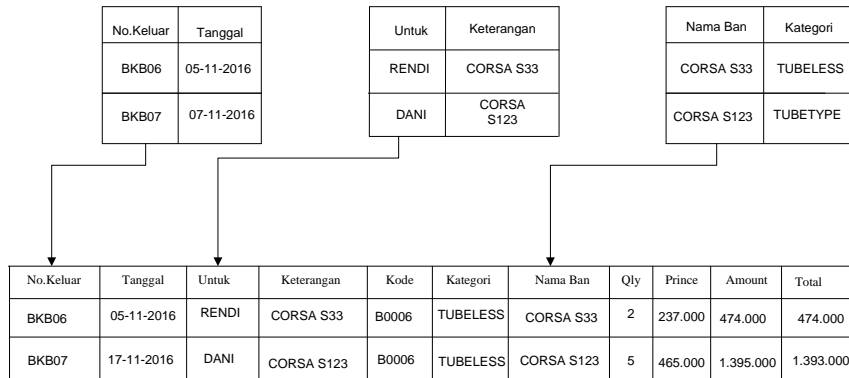


Figure 2
Exit Tires (2NF)

Incoming Tires

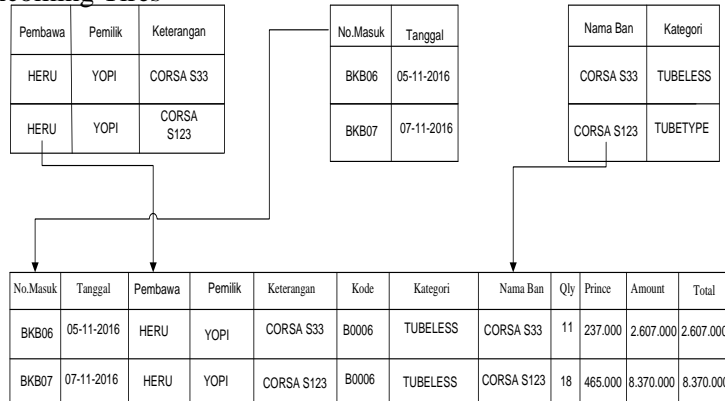


Figure 3
Incoming Tires (2NF)

c. Normal Shape 3NF

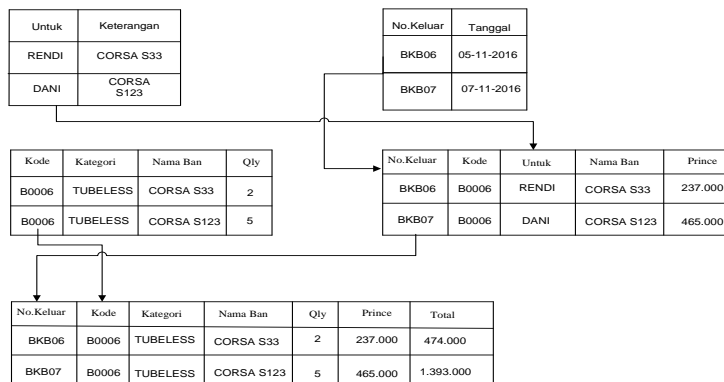


Figure 4
Exit Tires (3NF)

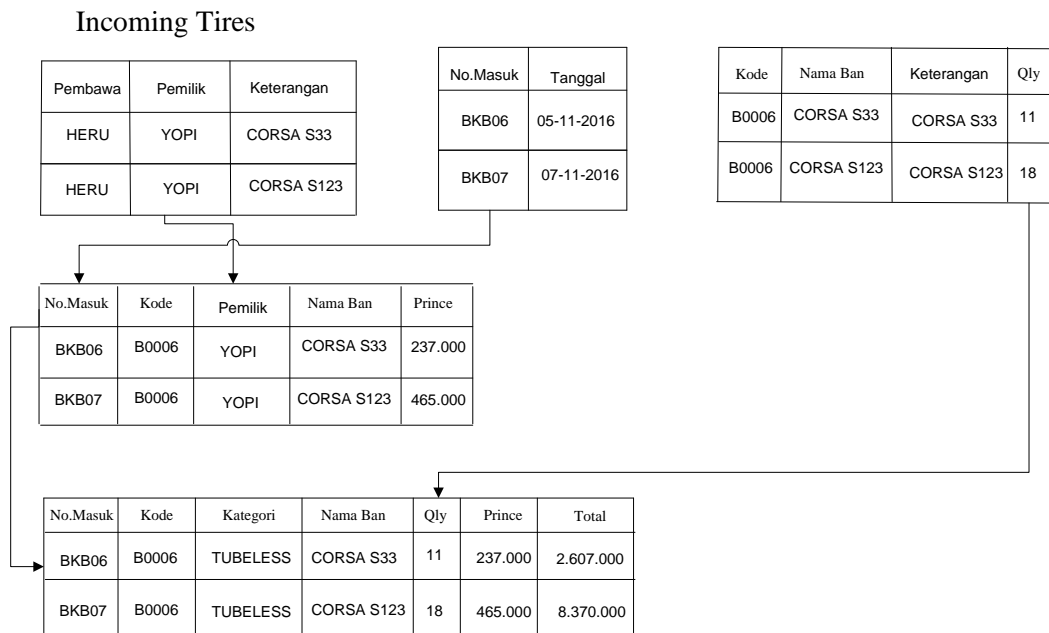
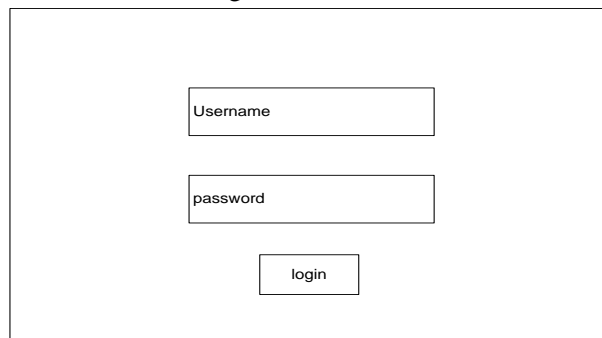


Figure 5
Incoming Tires (3NF)

3. Program View Design

a. Login Menu View Design



Login Menu View Design

b. Main Menu Screen Design

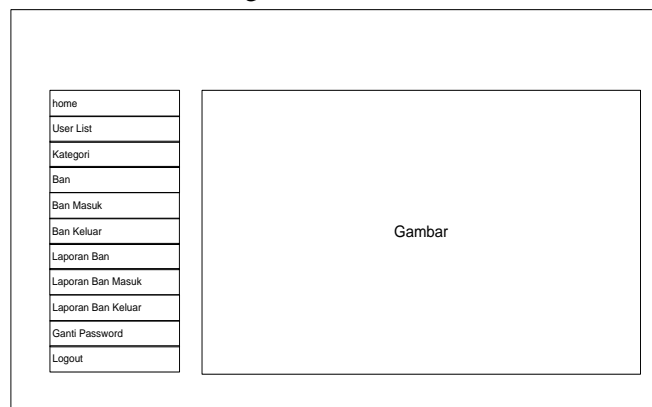


Figure 6
Main Menu Form Design

c. Incoming Tire Design

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Home</td></tr> <tr><td>User List</td></tr> <tr><td>Kategori</td></tr> <tr><td>Ban</td></tr> <tr><td>Ban Masuk</td></tr> <tr><td>Ban Keluar</td></tr> <tr><td>Laporan Ban</td></tr> <tr><td>Laporan Ban Masuk</td></tr> <tr><td>Laporan Ban Keluar</td></tr> <tr><td>Ganti Password</td></tr> <tr><td>Logout</td></tr> </table>	Home	User List	Kategori	Ban	Ban Masuk	Ban Keluar	Laporan Ban	Laporan Ban Masuk	Laporan Ban Keluar	Ganti Password	Logout	<p>DATA BAN MASUK</p> <p><input type="button" value="Add Data"/></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No</th> <th>Kode</th> <th>Tanggal</th> <th>Pembawa</th> <th>Pemilik</th> <th>Keterangan</th> <th>Tools</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td>Edit Delete Detail</td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td>Edit Delete Detail</td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td>Edit Delete Detail</td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td>Edit Delete Detail</td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td>Edit Delete Detail</td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td>Edit Delete Detail</td></tr> </tbody> </table>	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
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Figure 7
Design Of Incoming Tire Form

d. Exit Tire Design

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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

LAPORAN BAN KELUAR / PERIODE

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Figure 10
Draft Report Form Tire Out

f. Tire Design

DATA BAN

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Figure 11
Tire Form Design

B. Implementation

1. Relationships Between Tables



Figure 12
Relationships Between Tables

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	11	Primery Key
2	Username	Varchar	150	
3	Password	Varchar	12	
4	Level	Varchar	8	
5	Namauser	Varchar	150	
6	Alamat	Text		
7	Tanggalrubah	Varchar	10	
8	Jamrubah	Time		

a. 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	Varcha r	5	Primery key
2	Namaban	Varcha r	75	

3	Ukuran	Varcha r	10
4	Harga	Int	12
5	Keterangan	Text	
6	Kodekelompok	Varcha r	3
7	Kodeuser	Varcha r	10
8	Tanggalrubah	Varcha r	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	Varcha r	3	<i>Primery Key</i>
2	Namakelompok	Varcha r	50	
3	Kodeuser	Varcha r	10	
4	Tanggalrubah	Varcha r	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	Varcha r	5	<i>Primery Key</i>
2	Tanggal masuk ban	Varcha r	10	
3	Pembawa	Varcha r	50	
4	Pemilik	Varcha	50	

		r	
5	Keterangan	Text	
6	Kodeuser	Varcha r	10
7	Tanggalrubah	Varcha r	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	<i>Primery Key</i>
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	<i>Primery Key</i>
2	Nomormasukba n	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

No	Tanggal	Nama Ban	UJL (Rupa)	Harga	Entenggen	Berat	Tolu
1	15/01/2018	CORSA PLATFORM	800/14	27500	CORSA PLATFORM	11	800 Denda
2	15/01/2018	CORSA SET	750/14	20000	CORSA SET	2	800 Denda
3	15/01/2018	CORSA S11	750/14	40000	CORSA S11	28	800 Denda
4	15/01/2018	CORSA S18	700/17	18000	CORSA S11	28	800 Denda
5	15/01/2018	CORSA S22	800/14	15000	CORSA S22	20	800 Denda
6	15/01/2018	CORSA S22	800/18	18000	CORSA S22	7	800 Denda
7	15/01/2018	CORSA S33	800/14	22000	CORSA S33	18	800 Denda

Figure 16
Menu Ban

e. Entrance Ban Menu View

No	Waktu	Tanggal	Pemasang	Pemis	Entenggen	Tolu
1	08:00	31-12-2018	HERU	VOP	CORSA S22	800 Denda Denda
2	08:00	31-12-2018	HERU	VOP	CORSA S33	800 Denda Denda
3	08:00	31-12-2018	HERU	VOP	CORSA S33	800 Denda Denda
4	08:00	31-12-2018	HERU	VOP	CORSA S11	800 Denda Denda
5	08:00	31-12-2018	HERU	VOP	CORSA S22	800 Denda Denda
6	08:00	31-12-2018	HERU	VOP	CORSA S18	800 Denda Denda

Figure 17
Incoming Tire Menu

f. Tire Out Menu View

No	Waktu	Tanggal	Nama	Entenggen	Tolu
1	08:00	31-12-2018	DARY	CORSA S18	800 Denda Denda
2	08:00	31-12-2018	RENJI	CORSA S22	800 Denda Denda
3	08:00	31-12-2018	DARY	CORSA S33	800 Denda Denda
4	08:00	30-12-2018	PANG	CORSA S22	800 Denda Denda
5	08:00	30-12-2018	PANG	CORSA S18	800 Denda Denda
6	08:00	30-12-2018	DUNJANG	CORSA PLATFORM	800 Denda Denda
7	08:00	30-12-2018	SAGANG	CORSA S33	800 Denda Denda

Figure 18
Exit Tire Menu

g. Tire Report Menu View

LAPORAN BAN / PERIODE

PERIODE: 1 2019-2019 2019-12-31 2019-12-31

No	DATE	Kategori	Nama Ban	Jumlah	Harga	Keterangan	Detail
1	20-10-2018	TIRE TYPE	CORSA PLATINUM	21000		CORSA PLATINUM	11
2	20-10-2018	TIRELESS	CORSA 801	20000		CORSA 801	8
3	20-10-2018	TIRE TYPE	CORSA 8121	40000		CORSA 8121	20
4	20-10-2018	TIRE TYPE	CORSA 818	90000		CORSA 818	45
5	20-10-2018	TIRE TYPE	CORSA 822	11000		CORSA 822	11
6	21-10-2018	TIRE TYPE	CORSA 822	14000		CORSA 822	7
7	21-10-2018	TIRELESS	CORSA 818	22100		CORSA 818	14

Figure 19
Tire Report Menu

h. Incoming Ban Report Menu View

LAPORAN BAN MASUK / PERIODE

PERIODE: 1 2019-2019 2019-12-31 2019-12-31

No	DATE	Kategori	Fasilitas	Penjual	Keterangan	Detail
1	04/01/19	30-10-2018	HERU	100%	CORSA 8121	11
2	04/01/19	30-10-2018	HERU	100%	CORSA PLATINUM	11
3	04/01/19	30-10-2018	HERU	100%	CORSA 818	11
4	04/01/19	30-10-2018	HERU	100%	CORSA 822	11
5	04/01/19	31-10-2018	HERU	100%	CORSA 881	11
6	04/01/19	31-10-2018	HERU	100%	CORSA 822	11
7	04/01/19	05-11-2018	HERU	100%	CORSA 822	11
8	04/01/19	07-11-2018	HERU	100%	CORSA 822	11

Figure 20
Incoming Tire Report Menu

i. Exit Ban Report Menu View

LAPORAN BAN KELUAR / PERIODE

PERIODE: 1 2019-2019 2019-11-01 2019-11-30

No	DATE	Kategori	UNDA	Keterangan	Detail
1	04/01/19	30-10-2018	DAGANG	CORSA 8121	11
2	04/01/19	30-10-2018	DAGANG	CORSA PLATINUM	11
3	04/01/19	30-10-2018	DAGANG	CORSA 818	11
4	04/01/19	30-10-2018	DAGANG	CORSA 822	11
5	04/01/19	31-10-2018	DAGANG	CORSA 801	11
6	04/01/19	25-11-2018	RESEK	CORSA 822	11
7	04/01/19	27-11-2018	DAGANG	CORSA 818	11

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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