TRANSPORT MANAGEMENT SYSTEM

Estd-1984

P-1037

ISO 9001:2000 Certified

PROJECT REPORT

Submitted by

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Under the guidance of

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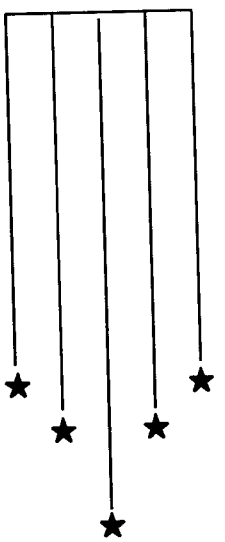

In partial fulfillment of the requirements for the award of degree of Bachelor of Science Applied Science Computer Technology of Bharathiyar University, Coimbatore:641 046.

DEPARTMENT OF COMPUTER TECHNOLOGY

KUMARAGURU COLLEGE OF TECHNOLOGY

COIMBATORE-:641 006.

KUMARAGURU COLLEGE OF TECHNOLOGY

Estd-1984

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ISO 9001:2000 Certified

Department of Computer Technology

Certificate

This is to certify that this project entitled

TRANSPORT MANAGEMENT SYSTEM

has been submitted by

Ms. K. G. VIDHYA, P. GEETHA

In partial fulfillment of the requirements for the award of degree of Bachelor of Science Applied Science Computer Technology of Bharathiyar University, Coimbatore:641 046 during the academic year 2002-2003.

(Guide) **(Head of Department)**

Certified that the Candidate was Examined by us in the Project Work Viva-Voce Examination held on _____

University Register Number 0028Q0166, 0028Q0125

(Internal Examiner) **(External Examiner)**

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19.03.2003

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **MISS.K.G.VIDHYA & MISS.P.GEETHA** doing their final year **B.Sc. - C.T.** in **Kumaraguru College of Technology, Coimbatore,** had successfully finished their project in our Organization. They were involved in the Project of **Transport Management System** during the period from **December 2002** to **February 2003.** This project was installed in our place and running successfully.

During their project period their character were found good.

FOR SANGEETH TEXTILES LIMITED,

(E.P.RAJENDRAN)
MANAGER.

ACKNOWLEDGEMENT:

An endeavor over a long period, can be successful only the advice and support of many well wishers. We take this opportunity, to express our gratitude and appreciation to all of them.

We are extremely grateful to our honorable principal **Dr.K.K.Padmanabhan,B.Sc(Engg),M.Tech,Ph.D.,**Kumaraguru College of Technology,Coimbatore-641 006 for giving us a golden opportunity to serve the purpose of our education.

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We are indebted to our beloved coordinator **Mrs.V.Geetha,M.C.A** Department of Computer Technology,Kumaraguru College of Technology,Coimbatore-641 006 for her helpful guidance and valuable support.

We wish to express our graditude to our project guide **Ms.S.Venkatalakshmi, B.E.**Department of omputer Technology,Kumaraguru College of Technology,Coimbatore-641 006 ,for being supportive throughout the tenure of our project.

We express our gratitude to all the people in **SANGEETH TEXTILES PRIVATE LTd** for giving us the opportunity to do this project and their valuable help during the project work.

SYNOPSIS

The system entitled "**TRANSPORT MANAGEMENT SYSTEM**" has been developed to computerize the functioning transportation which deals with vehicle management and maintenance.

Transport Management is based on the collection of input data that are partly derived from the external sources such as purchase of vehicle, regular maintains, preparation of bill, debiting and crediting the fright charges. As the company transports various material, the amount of material brought in and moved out through vehicles is noted. The above mentioned details are analyzed, processed and finally reports are generated on term basis.

The scope of our project aims at minimizing the time spent in maintaining all the transportation records. The particulars of the Bill are recorded separately each and everyday and the computations are done manually, now it is done by computers which reduces time consumption and the manual work.

The system has two modules

- Maintenances
- Management

The software used as front end is Visual Basic 6.0 and back end is Oracle. The software configuration is chosen in such a way that both front and backend are compatible with each other.

CONTENTS

1.1 PURPOSE

The system entitled **"TRANSPORT MANAGEMENT SYSTEM"** is developed for **SANGEETH TEXTILE (P) LIMITED**. This system computerizes almost all the activities related to transport.

The scope of our project aims at minimizing the time spent in maintaining all the transportation records. The particulars of the Bill are recorded separately each and everyday and the computations are done manually, now it is done by computers which reduces time consumption and the manual work.

The process begins with the maintenance details of each and every vehicle, movement of goods within the company and stock details using the data available in the database connected through the ODBC connectivity using Oracle.

The application system has been developed using Visual Basic 6.0 as Front end and Oracle 8.0 as backend.

The system is menu driven and is more user friendly, it has been tested with varied set of inputs and found to be working perfectly.

1.2 ORGANIZATION PROFILE

M/S.Sangeeth Textiles LTD are the manufacturers of various counts of high quality cotton yarn . It is a concern consisting of more than five units situated in various parts of south & west Tamil Nadu.

Their products are manufactured out of sophisticated machinery such as Blowroom , Carding , Drawing , Chromber,Autoconer,etc of supreme efficiency .They export their products all over the world.

They are having fifty vehicles of different makes for transportation of goods , passengers, and the like . The maintenance of the above said vehicles are accounted manually .

1.3 PROJECT OVERVIEW

The system entitled "**TRANSPORT MANAGEMENT SYSTEM**" has been developed to computerize the functioning transportation which deals with vehicle management and maintenance.

The scope of our project aims at minimizing the time spent in maintaining all the transportation records. The particulars of the Bill are recorded separately each and everyday and the computations are done manually, now it is done by computers which reduces time consumption and the manual work.

The application system has been developed using Visual Basic 6.0 as Front end and Oracle 8.0 as backend.

1.4 PROJECT DESCRIPTION

Our company SANGEETH TEXTILES is mainly concerned with producing yarn from cotton for various needs. They need transport at various stages,

- **Incoming Of Raw Materials**
- **Dispatch Of Finished Goods**

As the company is one of the leading manufacturers of yarn it Requires the continuous use of various types of cargo vehicles. At present the transportation is done manually. The system deals with the following

- **Vehicle Maintenance Details**
  - Vehicle Service Entries
  - Vehicle Tyre Change Entries
  - Tyre Stock
- **Vehicle Management Details**
  - Incoming Vehicles
  - Outgoing Vehicles
  - Pay Slip Preparation
- **Report On Various Transaction And Maintainance**

Vehicle Service Entry

The vehicles are serviced at regular intervals of time. The details of service, replacement made and other particulars of service are entered here.

Vehicle Tyre change

The tyre change details of a vehicle are entered in this table. The details include vehicle number, name of the tyre company, side of fitting, date of fitting and last date of tyre change made to the vehicle.

Tyre Stock

The company maintains a stock of new tyres and rebuilt tyres. Tyre stock is updated and whenever when a new tyre is entered the old stock is updated.

Incoming Vehicles

The company purchases various raw materials from other concerns. The material purchased, time of purchase, Quantity of material, are all entered. This table includes the bill no, date of transaction, material

brought in, company name from which the vehicle is being sent and finally the transportation charge.

Outgoing Vehicles

The finished product is sent to various other concerns for further use. The details regarding the product and concerns are entered here. This outgoing table include the bill no, date of transaction, the driver name or code material sent out, company name to which the vehicle is being sent and finally the transportation charge.

Pay slip

The pay slips of the drivers involved in the transportation are entered and the monthly pay slip is prepared and displayed in the report. The trip amount is taken from outgoing vehicles table for the corresponding month. The trip amount is entered in separate table Trip Amount. From all the above mentioned tables the data's are fetched and pay slip is prepared.

Report On Various Transactions

The payment report is based on incoming vehicles which the company has to pay to other tie up companies. The payment date, amount and balance are stored in the payment table for the current month; the balance is added when the payment is calculated for the next month. The receipts report is based on outgoing vehicles and prepared in the same way

as payments. In service report and tyre change reports the input is got from the user whether the report is to be on all vehicles or on the individual vehicles and the date is to be selected for which month the data is to be displayed.

2.1 FUNCTIONAL REQUIREMENTS

2.1.1 EXISTING SYSTEM

The existing system is maintained partially manual it finds more difficulty in maintaining the information. The reports are not so accurate and are not aligned. All the details corresponding to are manually maintained in files. At the end of the day or a week or monthly reports such as employee salary details, purchase details etc., are required. It also lacks in various kind of report need for management purpose. There is no security for data and most of management reports are typed. There is no specific format for most of the report because many user may type it. This system requires manual records such maintenance and management of each vehicle.

2.1.2 PROPOSED SYSTEM

The Proposed system is aimed to simplify the complex and redundant process with proper controls. The proposed system has being developed as a replacement for the existing system with the graphical user interface with good interactions with the database .It is primarily application oriented which could be enabled in the future.

Hence the proposed system is "TRANSPORT MANAGEMENT SYSTEM". The proposed system has been developed under Visual Basic 6.0

as the front end and Oracle 8.0 as the back end. The proposed system attempts to solve all the drawbacks of the existing system.

The system has been divided into two modules

- Maintenance
- Management

Master Files

A master file contains data's that are pre-defined which is required to perform operations in the transaction files.

Transaction Files

Transaction files are nothing but the daily entry files in which all the computations are performed for which the details are retrieved from the master file.

2.1.3 STUDY PHASE REPORT

In the end of the study and analysis report ''Software Requirement Specification '' was prepared. In this report, the problem has been described. Thus the nature of the problem, the performance to be done, the feasible solution and effectiveness were clearly known. This report was submitted to the client and after approval from them, the design phase activities were started.

2.2. PERFORMANCE REQUIREMENTS 10

2.2.1 SECURITY

Security plays a vital role in any software development. Our system is not a multi user environment. It is a single user environment. so only one user ID and password is provided. This is to ensure that if any problem occurs in future, that the user will be held responsible.

2.2.2 RESPONSE TIME

Response time is defined as the fraction of a second in which the required output received depending on the query given.

3.1 HARDWARE CONFIGURATION:

SERVER MACHINE:

Machine	:IBM Compatible
Processor	:PENTIUM -4
Processor speed	: 730MHz
Primary memory(RAM)	:128MB
Secondary memory(HDD)	:40GB
Monitor	: 17" SAMTRON 55V
FDD	:1.44"
Keyboard	:105 keys

CLIENT MACHINE:

Machine	:IBM Compatible
Processor	:PENTIUM -4
Processor speed	: 366MHz
Primary memory(RAM)	:32MB
Secondary memory(HDD)	:10GB
Monitor	: 17" SAMTRON 55V
FDD	:1.44"
Keyboard	:105 keys

3.2 SOFTWARE CONFIGURATION:

SERVER OS	: WINDOWS NT
CLIENT OS	: WINDOWS 98
FRONT END TOOL	: VISUAL BASIC 6.0
BACK END TOOL	: ORACLE 8.0
CONNECTIVITY	: ORACLE ODBC DRIVER

3.3 DESCRIPTION OF SOFTWARE PACKAGES USED

VISUAL BASIC 6.0-An Integrated Development Environment

Visual Basic 6.0 all the documentation for the product as well as a lot of other essential programming information. The Visual Basic 6.0 has related to all access as new in control, data access, Internet feature, Component creation, Language features and Wizards.

The "Visual" part refers to the method used to create the Graphical User Interface (GUI). Rather than writing numerous lines of code to describe the appearance and location of interface elements, you simply add pre-built objects into place on screen. If you've ever used a drawing program such as paint, you already have most of the skills necessary to create an effective user interface.

Features Provided By Visual Basic:

Native Code

Compiles a visual project to native code for faster execution. Profiles native code using new native code compiler options.

Multiple Projects

It is possible to open multiple projects in the same instance of the Visual Basic.

Forms

Forms have .FRM file-name extension. They contain graphical descriptions of the form and its controls, including their property settings. They also contain form-level declarations of type integers, constants, variables and external procedures.

Modules

Code modules have a .BAS file-name extensions. They can contain global and module level declarations of type constants, variables, external procedures and global procedures.

Data Access

Advanced Data Object (ADO) is used to access the database. ADO collection is the Microsoft ActiveX Database Engine's object

oriented interfaces. To access the backend, VB provides visual database manager. This makes it easier to design, code and deploy both web based and LAN based applications.

Data Reports

This control comes along with the Visual Basic Software. It is used for reporting from various database and tables.

Menu Editor

This is a powerful editor used to construct a menu based program rapidly. It is quite easy to develop and manipulate this editor.

Code Editor Enhancements

Block and unblock comments adds and removes the comment character for each line of a selected block of text. The properties available for the Auto Quick Information Displays the syntax for statements and functions. Drag and drop from the code window to the Watch window. Instant Watch in Debug mode allows us to get current values as tool tips.

Global Objects

To simplify the creation of the reusable code libraries VB will mark object in a code component as global, so that their methods can be invoked explicitly creating an instance of a global object.

Advantages of Visual Basic

- Visual Basic is Event-driven. Event-driven means the user is in control of the application.

- Visual Basic supports the principles of object-oriented design.

- Microsoft has designed visual basic to be a complete windows application development system.

- Visual Basic is infinitely extensible through the use of Active control, Dynamic Link Library and so on.

Visual Programming enables visual development of graphical user interfaces.

1. Ready to use components:

In VB, the programmer need not write code to display the required component. The visual-programming environment displays a list of available

components. The programmer can pick up the required components from the list. In this, there is no restriction in the number of controls that can be placed.

2. Built In Code.

The interface components provided by the VB environment have some built in-code.

3. Event Driven Programming.

A major part of the interactions between people in everyday life is in the form of events and responses to events. The interface components have the ability to recognize user events. The programmer determines the response of the components and the events.

ORACLE 8.0:

Oracle 8.0 is oracle's first version of the database to incorporate object oriented technology. It is the corporation's first object-relational database. An object-relational database is a term used to describe a database that has evolved from the relational model into a hybrid database that contains both relational technology and object technology.

Oracle 8.0 is a object oriented database that can store data. The relational technology and object technology. Oracle 8.0 as a relational

database can store data, the relationship between the data and the behavior of the data (i.e., the way it interacts with other data)

Advantages :

The Database window in Oracle provides a variety of options for viewing and manipulating Database Objects :

1. Organize Database Objects into Groups

2. View Related Data in a Sub Datasheet

Use a Sub Datasheet to view and edit related or joined data in a table, query, or form datasheet, or in a Sub Form all from the same view.

3. Support for Unicode and Dual Font

You are able to use the characters of any language that 'Unicode' supports in your data. You can use Unicode compression to offset the effect of Unicode's increased storage space requirements. You can also take advantage of the dual-font support by specifying a substitute font that you can use in addition to your default font to properly display all of the characters in your data.

4. Automatic Error Rectification

AutoCorrect automatically corrects common side effects that occur when you rename forms, reports, tables, queries, fields, text boxes or other controls.

5. Portable

Oracle Database Reports can be distributed even to users who don't have Oracle Versions.

6. Interactive

Oracle is a highly interactive database management system compared to other database management systems.

7. Security

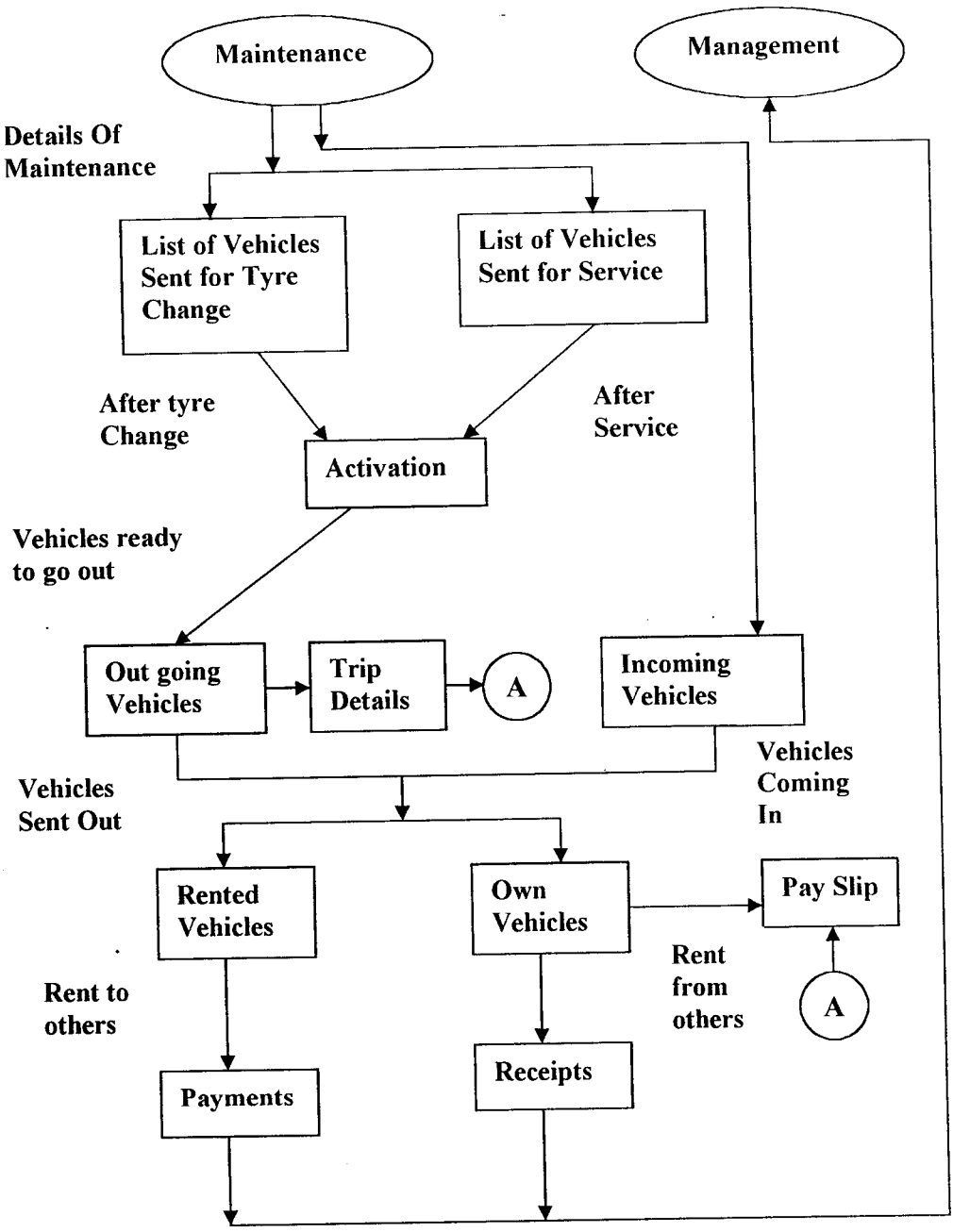
The User-level Security Wizard is now much easier to use and is the preferred method for defining user-level security on your database for most common security schemes.

4. DESIGN COSTRAINTS

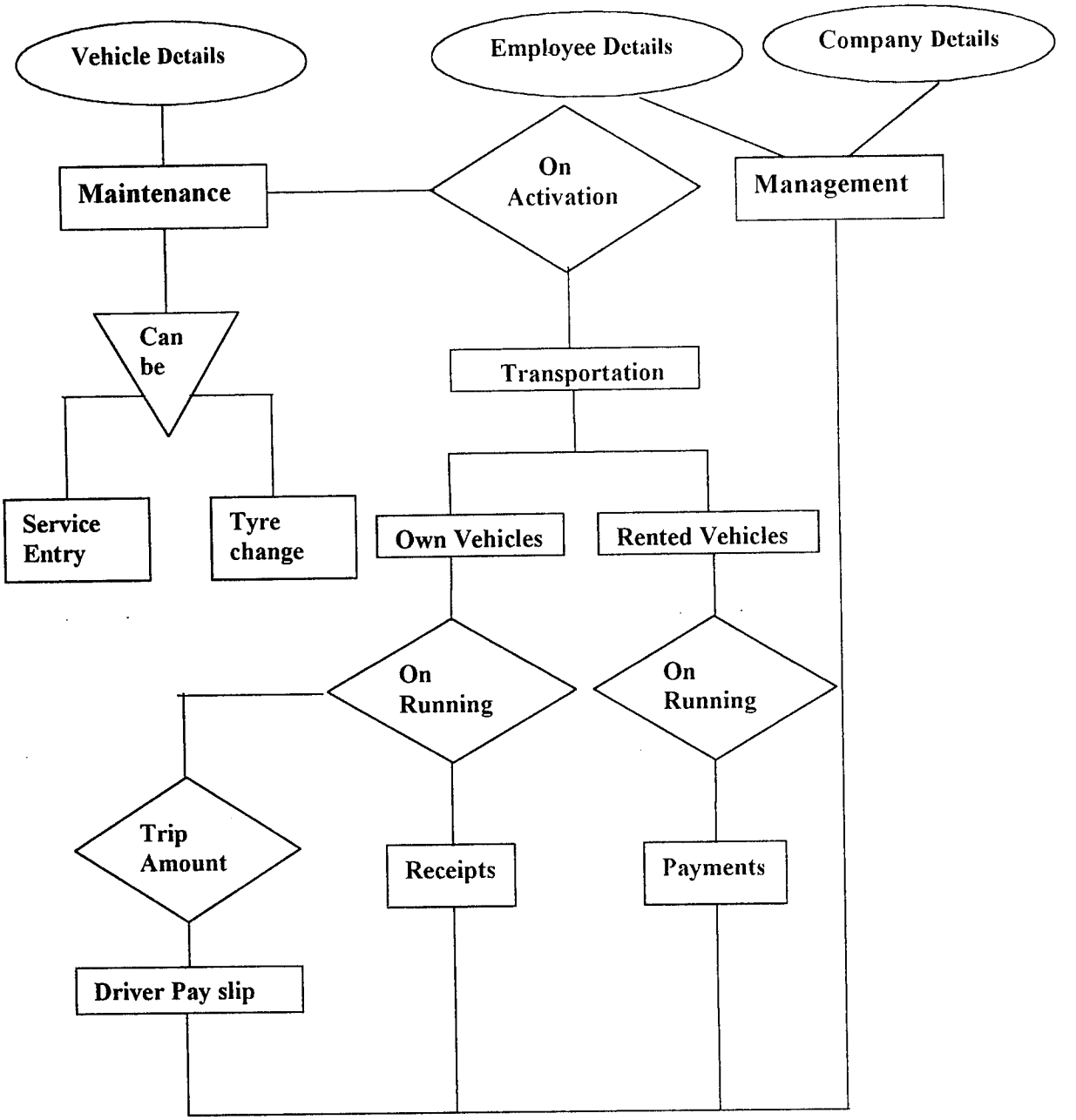
The most creative and challenging phase of the system life cycle is system design. The transaction from a user-oriented system design goes through two phase of development and they are logical and physical prepare logical system design, they specify the user need at a level of detail that virtually determines information flow into out of the system and required data sources.

Physical design produces the working system by defining the design specifications that tell the programmer what the system must do. First step in the design phase is to determine how the output is to be produced and in what format. Secondly, input data and the master labels have to be designed to meet the requirement of the proposed output. Finally, at the design system design created will be ready which is used as the base for coding.

4.1 DATAFLOW-DIAGRAM



4.2 ER- DIAGRAM



4.3 INPUT DESIGN

Input to a system can be defined as the information that is to be provided to the system that we use for future processing by system, obtaining meaningful information's which helps in helps in decision making. Input design concept of developing specifications and procedures necessary for processing the data are entered. The objectives followed while doing input design prevent the entry of invalid data entered. Some sample screen layouts are given in the appendix. The input screens used in this system are,

1. **Master Screen**
2. **Transaction screen**

MASTER SCREEN

The input design of the master screen includes the initial data entry for various masters and updations made at later stage. The master data are identified and kept as master tables. The data are entered through out the master screen. The master screens are provided with the accessibility options by which the authorized person can handle these screens.

TRANSACTION SCREEN

The screen design for transaction screen deals with designing input screens for the various transaction that are captured using the transactional screens and are stored in the intermediary transactional processing and will be periodically updated to the relevant masters.

STANDARD PROCEDURES ADAPTED FOR SCREENS

Operations

1. Add
2. Save
3. Edit
4. Delete
5. Find
6. Cancel
7. Exit

1. Add

If the Add button is clicked, the system will clear all the fields in the input screen and the cursor will be placed at the first field then the user can enter data in all fields. The save and cancel button frame will alone be visible the user can either choose save or cancel to cancel the operation.

2. Save

If the save button is clicked, then the system will insert all the input fields in to the corresponding database tables.

3. Edit

If the Edit button is clicked then the system will fetch the corresponding details of the record and display it in the screen. Now the user can save the modifications by clicking the update button.

4. Delete

If the Delete button is clicked the system will display the records and ask confirmation to the user whether to delete the displayed records from the database table or not.

5. Find

If any field value is entered and the Find button is clicked, the system will search for the corresponding records and display it on the screen. This is to view the details of the record.

6. Cancel

If the Cancel button is clicked the current operation is cancelled and the input fields will be cleared.

7. Exit

If the Exit button is clicked in the system,it will quit the current application and the control will come to the menu

4.4 OUTPUT DESIGN

There is a database structure maintained in the server at the client place where the development took places. The database structure and table design are confidential within the organization and cannot be disclosed anywhere.

The outputs from a system is required primarily to communicate the result of processing to the user and to provide permanent copy of their results, while designing the output, the byte of the report, content format have been taken in to consideration.

The reports of the system are generated so as to meet the requirements of Top, Middle and Down line management. The reports are designed as per the requirements of the client.

4.5 DESIGN PHASE REPORT

After all the design phase activities where completed they were explained to the people in the client organization on the form of the document "System Design Document". All the information about the input and file design were also shown to this report. Then after the approval of them, the project has been processed with the development phase.

SYSTEM DEVELOPMENT, TESTING AND IMPLEMENTATION

5.1 DEVELOPMENT

The system is being developed using the prototyping model. The development phase off the system is classified into three prototypes, i.e., the system is developed in stages as three prototype development. It is shown to the client. The client will in turn give their feedback on them.

PROTOTYPE-I

The first prototype will have only the navigation in screens. The user will work with prototype-I and give their feedback. The feedback may be like change in the navigation. Type of entry like Enterable, Selection from the list or display only etc. The order in the users feel convenient.

PROTOTYPE-II

The second prototype will have to incorporate all the suggestions of the users given as feedback. In addition to that, operations are included in the prototype-II. The operations like add, modify, delete, view etc are included. The user will work with that and will give feedback based on that. Some screens there is a need for some other operations to be performed. Some times the operation is same screen may not be required. Such changes are to be made. Also in prototype-II all validations will also be included. If any special validations are to be included, based on feedback from the user, they are to be incorporated.

PROTOTYPE-III

Prototype-III is the final prototype and it is a full-fledged system which will incorporate all suggestions by the user. The prototype-III is then subjected to testing.

5.2 TESTING TECHNIQUES

The system is tested in three phases. These testing techniques are,

- Unit Testing
- System Testing
- Acceptance Testing

UNIT TESTING

In Unit testing, each program unit is tested individually. Sample data is given for unit testing. The unit test results are recorded for future reference. During unit testing the functionality of the program test until validation and limitation are tested.

SYSTEM TESTING

In System testing, the whole system is tested for the interface between the modules and program units. The interaction between the program units are tested and recorded. The system testing is done with the sample data and live data. The security, communication between the interfaces is tested.

ACCEPTANCE TESTING

This testing is the final stage of testing phase. This is done by the user. The system is given to the user and they will test the system during the data. The various possibilities of the data are entered and response from the system is tested. Once the acceptance testing is signed off by the client, then we can successfully implement the system.

5.3 IMPLEMENTATION

Implementation is the stage where the theoretical design is converted into a working system. In this system, all modules are tested and successfully implemented to the users satisfaction.

6. CONCLUSION

The Transport module has met its objectives. The system has been thoroughly tested with varied test data and was found to be fit for implementation. The system reliability is high and enough securities have been provided.

The use of computerization has very little chance of committing any data entry error since it has enough validation check. The system is flexible and changes can be made without any difficulties. The system is tested with possible sample data before any valid data is inputted.

The system is quite useful for the new entrants to the computer and also experienced users. The system is user friendly and menu driven.

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8.1 TABLES

TABLE 1: VEH_TYPE

FIELD NAME	DATA TYPE	DESCRYPTION
VCODE	VARCHAR2(5)	VEHICLE CODE
VTYPE	VARCHAR2(15)	VEHICLE TYPE

TABLE 2: VEH_MASTER

FIELD NAME	DATA TYPE	DESCRYPTION
VNO	VARCHAR2(15)	VEHICLE NO.
VTYPE	VARCHAR2(15)	VEHICLE TYPE
MODEL	VARCHAR2(5)	MODEL
CNO	VARCHAR2(10)	CHASSIS NO.
ENO	VARCHAR2(10)	ENGINE NO.
DTDOR	DATE	DATE OF REGISTRATION
DTFC	DATE	FC DUE DATE
REG	VARCHAR2(20)	REGISTERED WITH
ACC	VARCHAR2(20)	ACCOUNTED WITH

TABLE 3: TYRE_MASTER

FIELD NAME	DATA TYPE	DESCRYPTION
TCODE	VARCHAR2(5)	TYRE CODE
TCOMPANY	VARCHAR2(20)	TYRE COMPANY
TTYPE	VARCHAR2(15)	TYRE TYPE

TABLE 4: COM_PROFILE

FIELD NAME	DATA TYPE	DESCRYPTION
CNAME	VARCHAR2(20)	COMPANY NAME
ADD1	VARCHAR2(20)	ADDRESS ONE
ADD2	VARCHAR2(20)	ADDRESS TWO
ADD3	VARCHAR2(20)	ADDRESS THREE
PHNO	NUMBER(15)	PHONE NO.
FAX	NUMBER(15)	FAX
EMAIL	VARCHAR2(30)	EMAIL-ID

TABLE 5: COM_MASTER

FIELD NAME	DATA TYPE	DESCRYPTION
CCODE	NUMBER(5)	COMPANY CODE
CNAME	VARCHAR2(20)	COMPANY NAME
ADD1	VARCHAR2(20)	ADDRESS ONE
ADD2	VARCHAR2(20)	ADDRESS TWO
ADD3	VARCHAR2(20)	ADDRESS THREE
PHNO1	NUMBER(15)	PHONE NO.1
PHNO2	NUMBER(15)	PHONE NO.2
FAX	NUMBER(20)	FAX
EMAIL	VARCHAR2(30)	EMAIL-ID
LKM	NUMBER(8)	LOCATION IN KM

TABLE 6:EMP_MASTER

FIELD NAME	DATA TYPE	DESCRYPTION
ECODE	VARCHAR2(5)	EMPLOYEE CODE
ENAME	VARCHAR2(20)	EMPLOYEE NAME
ADD1	VARCHAR2(20)	ADDRESS ONE
ADD2	VARCHAR2(20)	ADDRESS TWO
ADD3	VARCHAR2(20)	ADDRESS THREE
PNO	NUMBER(15)	PHONE NO.
DESIG	VARCHAR2(20)	DESIGNATION
SALARY	NUMBER(7)	SALARY
DOJ	DATE	DATE OF JOINING
LNO	VARCHAR2(20)	LICENSE NO.
LED	DATE	LICENSE EXPIERY DATE

TABLE 7: TYRE_CHANGE

FIELD NAME	DATA TYPE	DESCRYPTION
TDATE	DATE	TYRE CHANGE DATE
TVNO	VARCHAR2(15)	TYRE CHANGING VNO

TABLE 8: TYRE_ACT

FIELD NAME	DATA TYPE	DESCRYPTION
VNO	VARCHAR2(15)	VEHICLE NO.
FITDATE	DATE	TYRE FITTING DATE
TCOMP	VARCHAR2(20)	TYRE COMPANY
TSELECT	VARCHAR2(10)	TYRE SELECTION
SIDE	VARCHAR2(5)	FITTING SIDE
FITKM	NUMBER(8)	TYRE FITTING KM
LFITDT	DATE	LAST FIT DATE
LFITKM	NUMBER(8)	LAST FIT KM
TYREKM	NUMBER(8)	TYRE RUN KM

TABLE 9: SERVICE_ACT

FIELD NAME	DATA TYPE	DESCRYPTION
VNO	VARCHAR2(15)	VEHICLE NO.
DT	DATE	SERVICING DATE
BILLNO	VARCHAR2(10)	BILL NO.
SCN	VARCHAR2(30)	SERVICE CENTER NAME
SKM	NUMBER(8)	SERVICING KM
RTOT	NUMBER(10,2)	TOTAL AMOUNT OF REPLACED ITEM
STOT	NUMBER(10,2)	TOTAL AMOUNT OF SERVICED ITEM
TOTAMT	NUMBER(10,2)	TOTAL SERVICING AMOUNT

TABLE 10: TYRE_STOCK

FIELD NAME	DATA TYPE	DESCRIPTION
TCODE	VARCHAR2(5)	TYRE CODE
TCNAME	VARCHAR2(20)	TYRE COMPANY
NQTY	NUMBER(10)	NEW TYRE QUANTITY
RQTY	NUMBER(10)	REBUILT TYRE QUANTITY

TABLE 11: INCOMING_VEH

FIELD NAME	DATA TYPE	DESCRIPTION
BNO	NUMBER(10)	BILL NO.
BDATE	DATE	INCOMING DATE
VNO	VARCHAR2(15)	VEHICLE NO.
VTYPE	VARCHAR2(20)	VEHICLE TYPE
INAME	VARCHAR2(10)	ITEM NAME
QTY	VARCHAR2(10)	QUQNTITY
DCODE	VARCHAR2(5)	DRIVER CODE
CNAME	VARCHAR2(20)	COMPANY NAME
AMT	NUMBER(10,2)	AMOUNT

TABLE 12: OUTGOING_VEH

FIELD NAME	DATA TYPE	DESCRIPTION
BNO	NUMBER(10)	BILL NO.
DDATE	DATE	OUTGOING DATE
VNO	VARCHAR2(15)	VEHICLE NO.
VTYPE	VARCHAR2(20)	VEHICLE TYPE
INAME	VARCHAR2(10)	ITEM NAME
QTY	VARCHAR2(10)	QUANTITY
DCODE	VARCHAR2(5)	DRIVER CODE
CNAME	VARCHAR2(20)	COMPANY NAME
AMT	NUMBER(10,2)	AMOUNT
FBNO	NUMBER(10)	FUEL BILL NO
LIT	NUMBER(10,2)	FUEL IN LITRE
SKM	NUMBER(8)	STARTING KM
EKM	NUMBER(8)	ENDING KM
FAMT	NUMBER(10,2)	AMOUNT

TABLE 13: PAYMENT

FIELD NAME	DATA TYPE	DESCRYPTION
PDATE	DATE	DATE
CCODE	NUMBER(5)	COMPANY CODE
TAMT	NUMBER(8,2)	TRIP AMOUNT
BAL	NUMBER(8,2)	BALANCE

TABLE 14: RECEIPTS

FIELD NAME	DATA TYPE	DESCRYPTION
RDATE	DATE	DATE
CCODE	NUMBER(5)	COMPANY CODE
PAID	NUMBER(10,4)	AMOUNT PAID
BAL	NUMBER(10,4)	BALANCE

TABLE 15: PAYSLIP

FIELD NAME	DATA TYPE	DESCRYPTION
DCODE	VARCHAR2(5)	DRIVER CODE
NSAL	NUMBER(8,2)	NET SALARY
PDATE	DATE	DATE

TABLE 16: TRIP_AMOUNT

FIELD NAME	DATA TYPE	DESCRYPTION
CCODE	NUMBER(5)	COMPANY CODE
CNAME	VARCHAR2(20)	COMPANY NAME
AMT	NUMBER(10,2)	AMOUNT

8.2 SAMPLE CODING

OUTGOING VEHICLES

```
Option Explicit
Dim conn As New ADODB.Connection
Dim rs As New ADODB.Recordset
Dim rstemp As New ADODB.Recordset
Dim flag As Boolean
Dim rs1 As New ADODB.Recordset

Private Sub cmddisplay_Click()
Dim Tot As Double
Dim btot As Double
 If rstemp.State = adStateOpen Then rstemp.Close
 rstemp.Open "select * from incoming_veh where cname = '" &
Txtcname.Text & "'", conn, adOpenKeyset, adLockBatchOptimistic
   While rstemp.EOF = False
      If Month(rstemp!bdate) = DTPpdate.Month And Year(rstemp!bdate) =
DTPpdate.Year Then
         MSF1.Rows = MSF1.Rows + 1
         MSF1.TextMatrix(MSF1.Rows - 1, 0) = MSF1.Rows - 1
        MSF1.TextMatrix(MSF1.Rows - 1, 1) = (rstemp!bdate)
```

```
MSF1.TextMatrix(MSF1.Rows - 1, 2) = (rstemp!iname)
MSF1.TextMatrix(MSF1.Rows - 1, 3) = (rstemp!qty)
MSF1.TextMatrix(MSF1.Rows - 1, 4) = (rstemp!amt)
 Tot = Val(Tot) + Val(MSF1.TextMatrix(MSF1.Rows - 1, 4))
End If
rstemp.MoveNext
Wend
Txttot.Text = Tot

 Txttb.Text = Val(Txttot.Text) + Val(Txtbtot.Text)

If rstemp.State = adStateOpen Then rstemp.Close
rstemp.Open "select * from payment where ccode ='" & (comccode.Text) &
"'", conn, adOpenKeyset, adLockBatchOptimistic
  While rstemp.EOF = False
      MSF2.Rows = MSF2.Rows + 1

      MSF2.TextMatrix(MSF2.Rows - 1, 0) = MSF2.Rows - 1
      MSF2.TextMatrix(MSF2.Rows - 1, 1) = Trim(rstemp!pdate)
      MSF2.TextMatrix(MSF2.Rows - 1, 2) = Trim(rstemp!bal)
      btot = Val(btot + MSF2.TextMatrix(MSF2.Rows - 1, 2))

      rstemp.MoveNext
```

```
        Wend
        Txtbtot.Text = Val(btot)
End Sub

Private Sub cmdexit_Click()
Unload Me
End Sub

Private Sub cmdsave_Click()
conn.Execute "insert into payment values('" & DTPpdate & "','" &
(comccode) & "','" & (Txtcamt) & "','" & (Txtcb) & "')"
MsgBox " Successfully Saved"
End Sub

Private Sub comccode_Change()
 If rs.State = adStateOpen Then rs.Close
 rs.Open "select * from com_master where ccode=" & comccode.Text & " "
  Txtcname.Text = rs("cname")
End Sub

Private Sub comccode_Click()
If rs1.State = adStateOpen Then rs1.Close
```

```
rs1.Open "select * from com_master where ccode=" & comccode.Text & "
", conn, adOpenKeyset, adLockBatchOptimistic
 Txtcname.Text = rs1("cname")
End Sub

Private Sub Form_Load()
Set conn = New ADODB.Connection
conn.Open "Tran", "scott", "tiger"
Set rs = New ADODB.Recordset
If rs.State = adStateOpen Then rs.Close
rs.Open "select * from com_master", conn, adOpenKeyset,
adLockOptimistic
While rs.EOF = False
   comccode.AddItem rs!ccode
   rs.MoveNext
Wend

MSF1.TextMatrix(0, 0) = "S.NO"
MSF1.TextMatrix(0, 1) = "DATE"
MSF1.TextMatrix(0, 2) = "ITEM NAME"
MSF1.TextMatrix(0, 3) = "QUANTITY"
MSF1.TextMatrix(0, 4) = "AMOUNT"
MSF1.ColWidth(0) = 750
```

```
MSF1.ColWidth(1) = 3000
MSF1.ColWidth(2) = 1500
MSF1.ColWidth(3) = 1000
MSF1.ColWidth(4) = 1500

If rs1.State = adStateOpen Then rs1.Close
rs1.Open "select * from com_master", conn, adOpenKeyset,
adLockBatchOptimistic

MSF2.TextMatrix(0, 0) = "S.NO"
MSF2.TextMatrix(0, 1) = "DATE"
MSF2.TextMatrix(0, 2) = "AMOUNT"
MSF2.ColWidth(0) = 750
MSF2.ColWidth(1) = 3000
MSF2.ColWidth(2) = 1500

End Sub

Private Sub Txtcamt_Change()
Txtcb.Text = Val(Txttb.Text) - Val(Txtcamt.Text)
End Sub

Private Sub Txtcamt_LostFocus()
```

```
Txtcb.Text = Val(Txttb.Text) - Val(Txtcamt.Text)
End Sub
```

TYRE ACTIVATION

```
Option Explicit
Dim conn As New ADODB.Connection
Dim rs As New ADODB.Recordset
Dim rs1 As New ADODB.Recordset
Dim RsVehTyp As New ADODB.Recordset

Private Sub cmdadd_Click()
cmdsave.Visible = True
cmdadd.Visible = False
End Sub

Private Sub cmddelete_Click()
Dim ch As Integer
    If Trim(comvno.Text) = "" Then
     MsgBox "Enter the  vehicle number"

     End If
     If Trim(comvno.Text) <> 0 Then
      If rs.State = adStateOpen Then rs.Close
```

```
rs.Open "select * from tyre_act where vno  = '" & Trim(comvno.Text) & "'",
conn, adOpenDynamic, adLockOptimistic
        If rs.BOF = False And rs.EOF = True Then
        MsgBox "updation not possible"

        Exit Sub
         End If
        Call filltext
        rs.Close
   End If

ch = MsgBox("Do you want to delete ?", vbYesNo + vbCritical)
   If ch = vbYes Then
       conn.Execute "delete from tyre_act where vno ='" & Trim(comvno) &
"' "
        MsgBox "Successfully Deleted"
        Call clear
End If

 If rs.State = adStateOpen Then rs.Close
 Set rs = New ADODB.Recordset
 rs.Open "select * from tyre_act", conn, adOpenDynamic, adLockOptimistic
 Set MSH.DataSource = rs
```

```
End Sub
Private Sub cmdedit_Click()
cmdedit.Visible = False
cmdupdate.Visible = True
Dim ch As Integer
    If Trim(comvno.Text) = "" Then
     MsgBox "Enter the  vehicle number"
     cmdedit.Visible = True
     cmdupdate.Visible = False
     End If
     If Trim(comvno.Text) <> 0 Then
      If rs.State = adStateOpen Then rs.Close
      rs.Open "select * from tyre_act where vno  = '" & Trim(comvno.Text)
& "'", conn, adOpenDynamic, adLockOptimistic
         If rs.BOF = False And rs.EOF = True Then
         MsgBox "updation not possible"
        cmdedit.Visible = True
        cmdupdate.Visible = False
         Exit Sub
          End If
         Call filltext
         rs.Close
   End If
```

```
End Sub

Private Sub cmdexit_Click()
Unload Me
End Sub

Private Sub cmdsave_Click()
 conn.Execute "insert into tyre_act values('" & Trim(comvno.Text) & "','" &
(DTPfit) & "','" & Trim(comtname) & "','" & Trim(comtselect) & "','" &
Trim(comside) & "','" & Val(txtfitkm) & "','" & (DTPlfit) & "','" &
Val(txtlfitkm) & "','" & Val(txttyrekm) & "')"
conn.Execute "delete from tyre_change where vno='" & (comvno.Text) &
"'"
MsgBox "Successfully Saved"
Set rs = New ADODB.Recordset
rs.Open "select * from tyre_act", conn, adOpenDynamic, adLockOptimistic

Set MSH.DataSource = rs
MSH.ColWidth(0) = 1000
MSH.ColWidth(1) = 1500
MSH.ColWidth(2) = 1500
MSH.ColWidth(3) = 1500
```

```
MSH.ColWidth(4) = 1500
MSH.ColWidth(5) = 1500
MSH.ColWidth(6) = 1500
cmdsave.Visible = False
cmdadd.Visible = True

If rs.State = adStateOpen Then rs.Close
Set rs = New ADODB.Recordset
If Trim(comtselect) = "NEW" Then
rs.Open "update    tyre_stock set nqty = nqty -1 where tcompany ='" &
(comtname.Text) & "'", conn, adOpenKeyset, adLockBatchOptimistic
End If
If Trim(comtselect) = "REBUILT" Then
rs.Open "update    tyre_stock set nqty = nqty -1 where tcompany ='" &
(comtname.Text) & "'", conn, adOpenKeyset, adLockBatchOptimistic
End If
End Sub

Private Sub cmdupdate_Click()
Dim ch As Integer
ch = MsgBox("Do you want to update ?", vbYesNo + vbCritical)
   If ch = vbYes Then
      conn.Execute "delete from tyre_act where vno ='" & (comvno) & "'"
```

```
conn.Execute "insert into tyre_act values('" & (comvno) & "','" & (DTPfit)
& "','" & Trim(comcname) & "','" & Trim(comtselect) & "','" &
Trim(comside) & "'," & Val(txtfitkm) & ",'" & (DTPlfit) & "'," &
Val(txtlfitkm) & "," & Val(txttyrekm) & ")"
            MsgBox "succefully updated"
       Call clear
    End If

If rs.State = adStateOpen Then rs.Close
Set rs = New ADODB.Recordset
rs.Open "select * from tyre_act", conn, adOpenDynamic, adLockOptimistic

Set MSH.DataSource = rs
MSH.ColWidth(0) = 1000
MSH.ColWidth(1) = 1500
MSH.ColWidth(2) = 1500
MSH.ColWidth(3) = 1500
MSH.ColWidth(4) = 1500
MSH.ColWidth(5) = 1500
MSH.ColWidth(6) = 1500
MSH.ColWidth(7) = 1500
MSH.ColWidth(8) = 1500
```

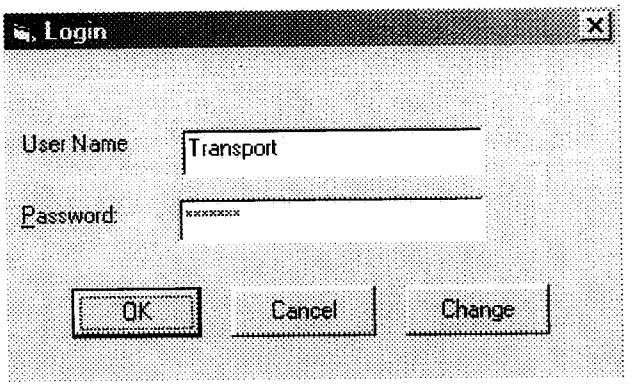
```
cmdedit.Visible = True
cmdupdate.Visible = False
End Sub

Private Sub comside_LostFocus()
If rs.State = adStateOpen Then rs.Close
rs.Open "select fitdate,fitkm from tyre_act where vno='" & (comvno) & "'
and side ='" & (comside) & "'", conn, adOpenKeyset,
adLockBatchOptimistic

While rs.EOF = False
 DTPlfit.Value = rs("fitdate")
txtlfitkm.Text = rs("fitkm")
rs.MoveNext
Wend
End Sub

Private Sub comvno_Click()
rs.Open "select * from tyre_act where vno ='" & (comvno.Text) & "'", conn,
adOpenDynamic, adLockOptimistic

Set MSH.DataSource = rs
MSH.ColWidth(0) = 1000
```

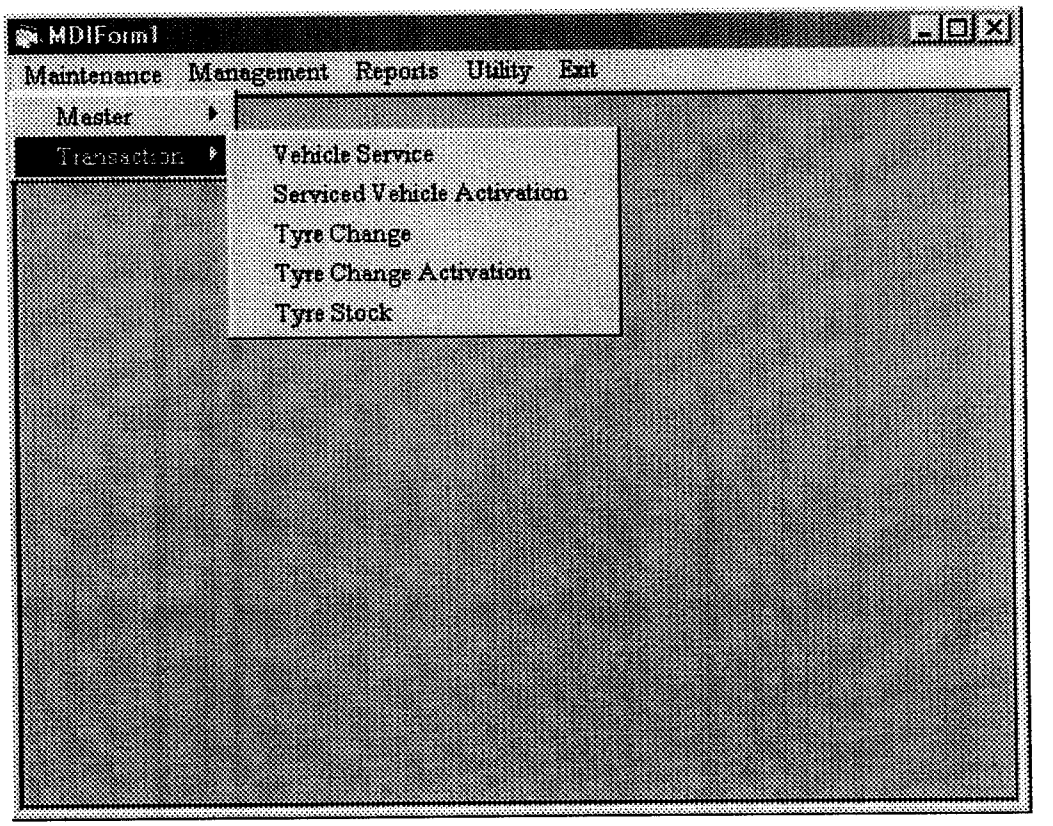
```
MSH.ColWidth(1) = 1500
MSH.ColWidth(2) = 1500
MSH.ColWidth(3) = 1500
MSH.ColWidth(4) = 1500
MSH.ColWidth(5) = 1500
MSH.ColWidth(6) = 1500

End Sub

Private Sub Form_Load()
Set conn = New ADODB.Connection
conn.Open "Tran", "scott", "tiger"
If rs.State = adStateOpen Then rs.Close
Set rs = New ADODB.Recordset

If RsVehTyp.State = adStateOpen Then RsVehTyp.Close
RsVehTyp.Open "select * from tyre_change", conn, adOpenKeyset,
adLockBatchOptimistic
While RsVehTyp.EOF = False
   comvno.AddItem RsVehTyp!vno
   RsVehTyp.MoveNext
Wend
```

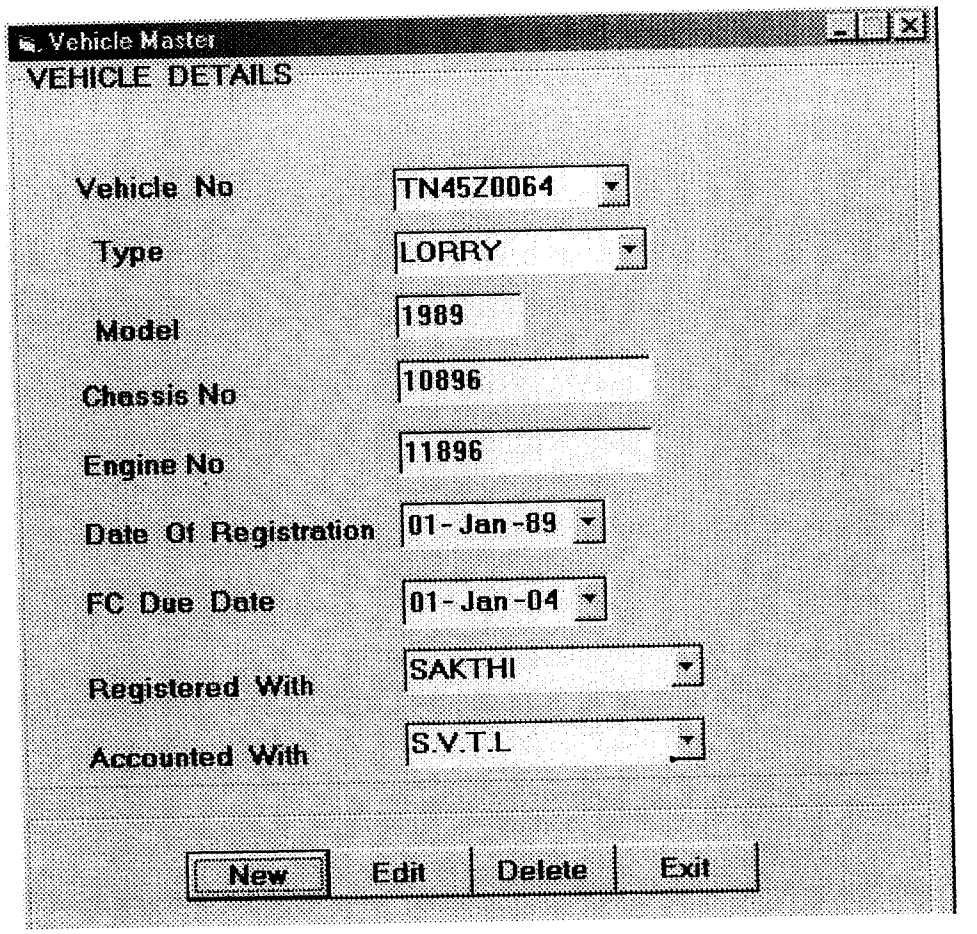
```
Dim rsstock As New ADODB.Recordset
If rsstock.State = adStateOpen Then rsstock.Close
rsstock.Open "select * from tyre_stock", conn, adOpenKeyset,
adLockBatchOptimistic
While rsstock.EOF = False
   comtname.AddItem rsstock!tcompany
   rsstock.MoveNext
Wend
End Sub

Private Sub MSH_Click()
If rs.State = adStateOpen Then rs.Close
rs.Open "select * from tyre_act where vno= '" &
Trim(MSH.TextMatrix(MSH.RowSel, 0)) & "'", conn, adOpenDynamic,
adLockOptimistic
Call filltext
End Sub

Public Sub filltext()
 DTPfit.Value = rs("fitdate")
comcname.Text = rs("tcomp")
comtselect.Text = rs("tselect")
```

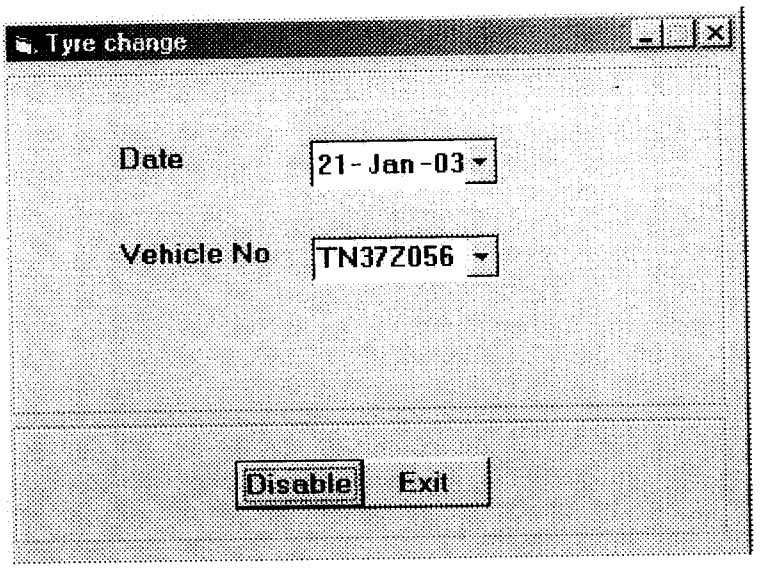
```
comside.Text = rs("side")
txtfitkm.Text = rs("fitkm")
DTPlfit.Value = rs("lfitdt")
txtlfitkm.Text = rs("lfitkm")
txttyrekm.Text = rs("tyrekm")
End Sub
Public Sub clear()
comvno.Text = ""
If Not IsNull(rs!fitdate) Then DTPfit.Value = rs("fitdate")
comcname.Text = ""
comtselect.Text = ""
comside.Text = ""
txtfitkm.Text = ""
If Not IsNull(rs!lfitdt) Then DTPlfit.Value = rs("lfitdt")
txtlfitkm.Text = ""
txttyrekm.Text = ""
End Sub
Private Sub txtfitkm_LostFocus()
Dim km As Integer
km = Val(txtfitkm.Text) - Val(txtlfitkm.Text)
txttyrekm.Text = km
End Sub
```

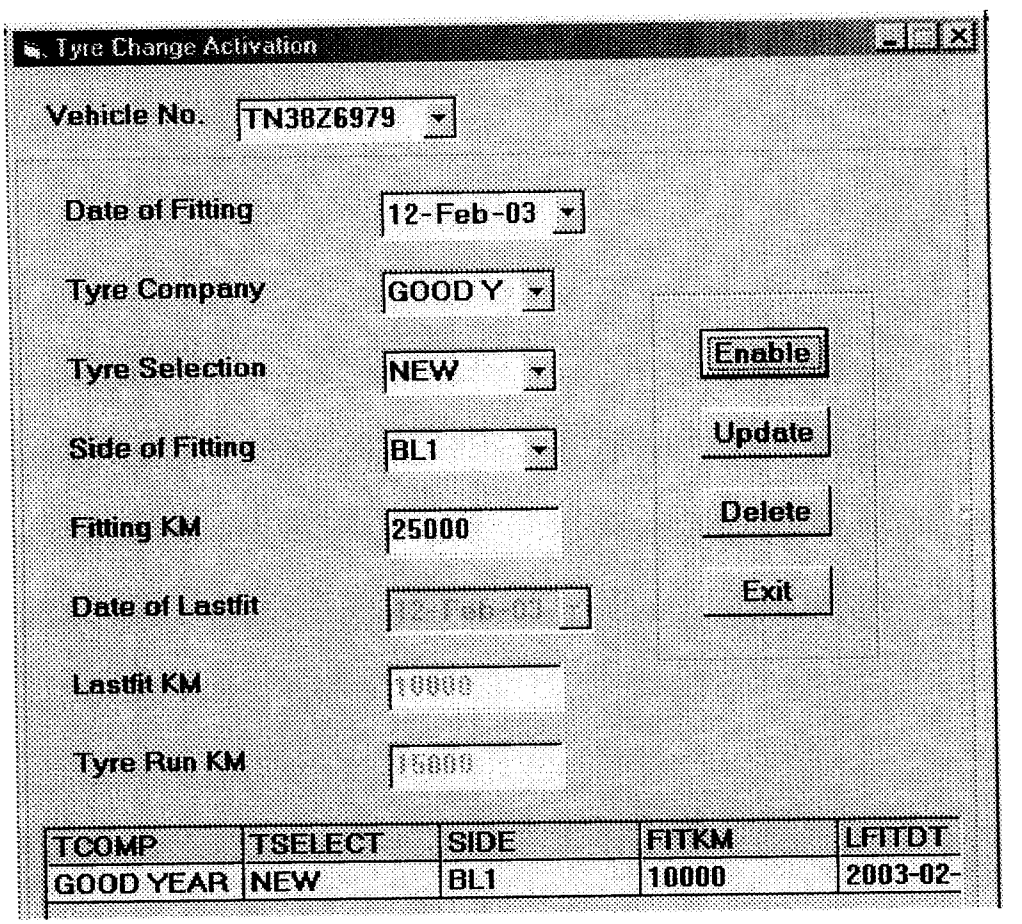
8.3 SAMPLE FORMS

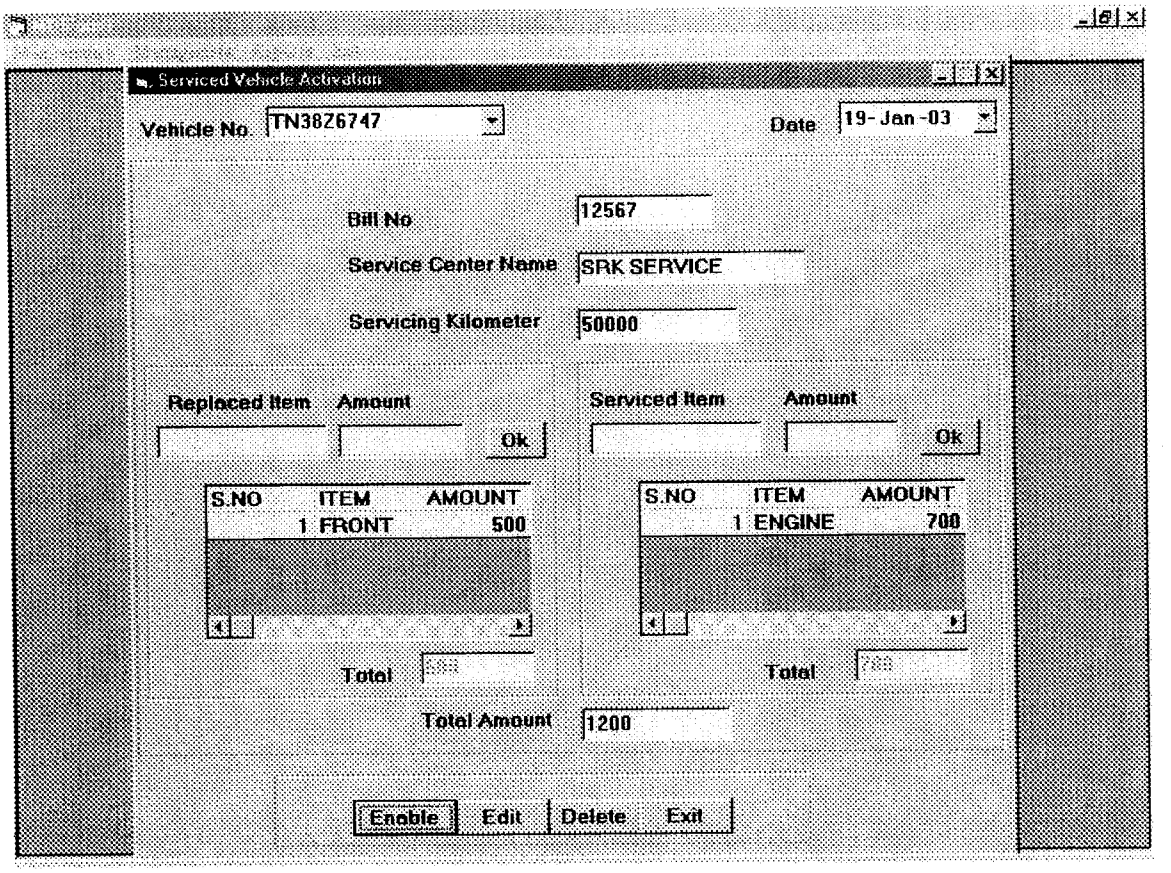


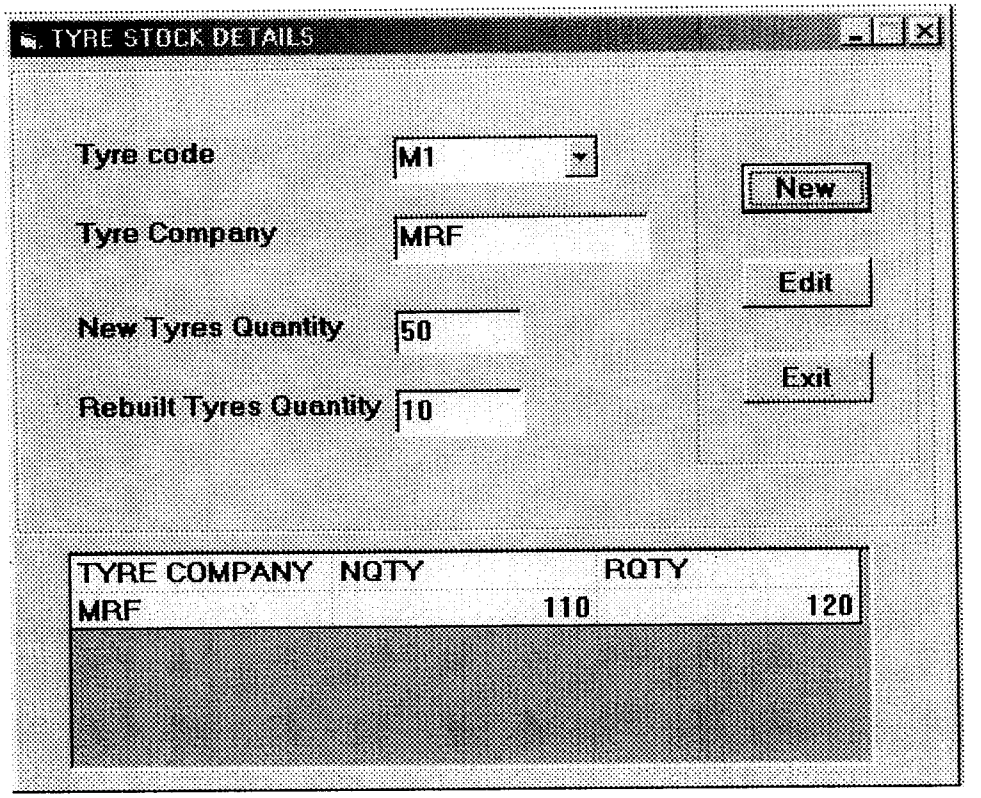


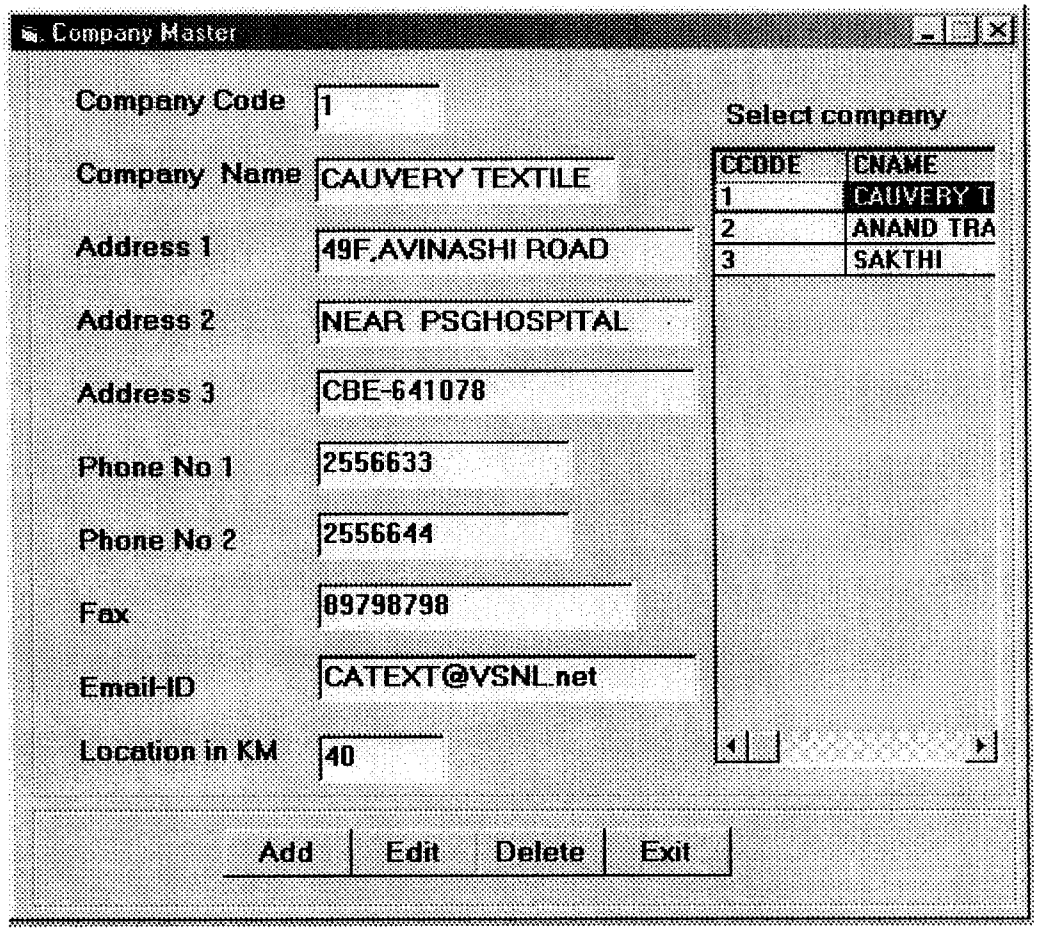

Vehicle Master
VEHICLE DETAILS
Vehicle No
TN45Z0064
Type
LORRY
Model
1989
Chassis No
10896
Engine No
11896
Date Of Registration
01-Jan-89
FC Due Date
01-Jan-04
Registered With
SAKTHI
Accounted With
S.V.T.L
New
Edit
Delete
Exit


Tyre change
Date
21-Jan-03
Vehicle No
TN37Z056
Disable
Exit

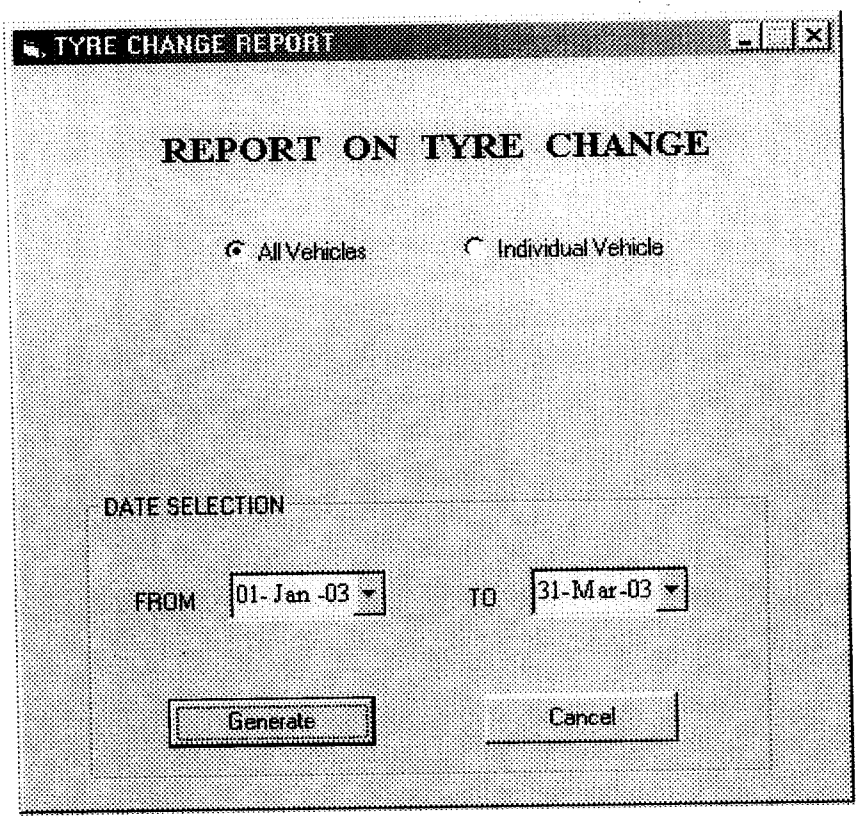

Tyre Change Activation
Vehicle No.
TN38Z6979
Date of Fitting
12-Feb-03
Tyre Company
GOOD Y
Tyre Selection
NEW
Side of Fitting
BL1
Fitting KM
25000
Date of Lastfit
Lastfit KM
Tyre Run KM
Enable
Update
Delete
Exit
TCOMP
TSELECT
SIDE
FITKM
LFITDT
GOOD YEAR
NEW
BL1
10000
2003-02-


Serviced Vehicle Activation
Vehicle No
TN38Z6747
Date
19- Jan -03
Bill No
12567
Service Center Name
SRK SERVICE
Servicing Kilometer
50000
Replaced Item
Amount
Ok
S.NO
ITEM
AMOUNT
1
FRONT
500
Total
Serviced Item
Amount
Ok
S.NO
ITEM
AMOUNT
1
ENGINE
700
Total
Total Amount
1200
Enable
Edit
Delete
Exit


TYRE STOCK DETAILS
Tyre code
M1
Tyre Company
MRF
New Tyres Quantity
50
Rebuilt Tyres Quantity
10
New
Edit
Exit
TYRE COMPANY
NQTY
RQTY
MRF
110
120


Company Master
Company Code
1
Company Name
CAUVERY TEXTILE
Address 1
49F,AVINASHI ROAD
Address 2
NEAR PSGHOSPITAL
Address 3
CBE-641078
Phone No 1
2556633
Phone No 2
2556644
Fax
89798798
Email-ID
CATEXT@VSNL.net
Location in KM
40
Select company
CCODE
CNAME
1
CAUVERY T
2
ANAND TRA
3
SAKTHI
Add
Edit
Delete
Exit

8.4 SAMPLE REPORTS

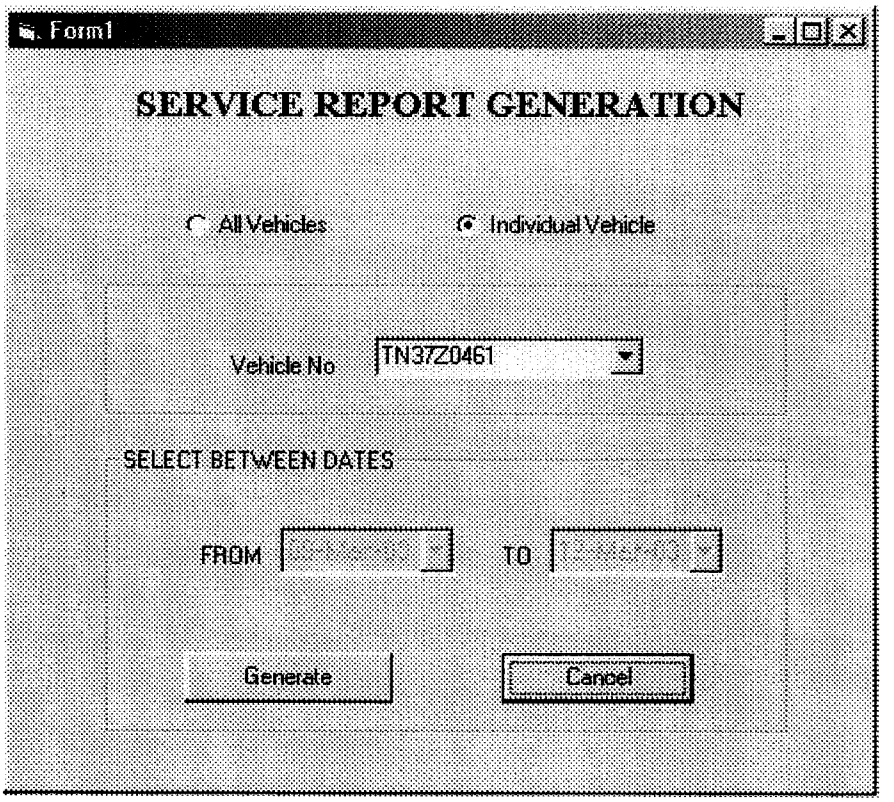


SANGEETH TEXTILES PRIVATE LIMITED

TYRE CHANGE REPORT

FOR THE MONTHS FROM 01-Jan-03 TO 31-Mar-03

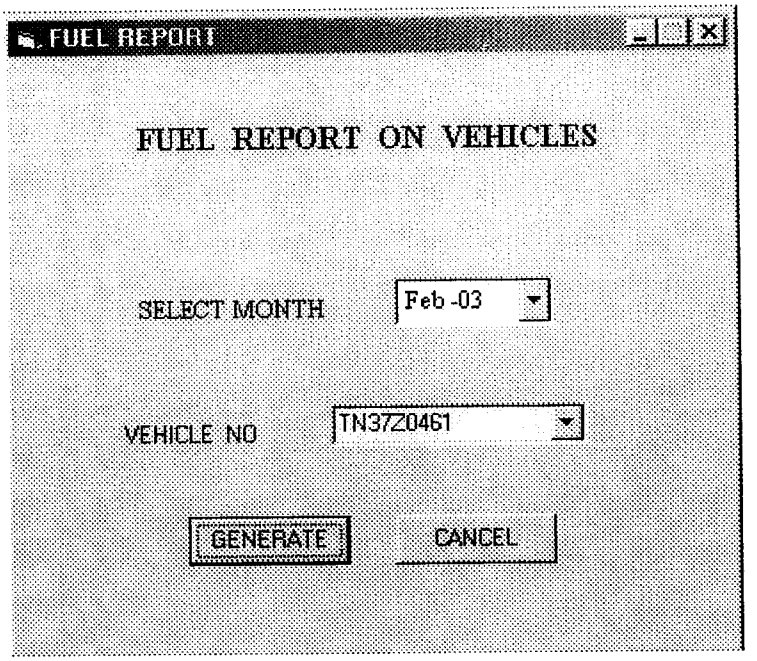
VEHICLE NO	FITTING SIDE	TYRE NAME	TYRE USED KM
TN38Z6979	BL1	GOOD YEAR	10000
TN38Z6979	BL1	GOOD YEAR	15000
TDQ9I93	BL2	GOOD YEAR	20000
TN37Z0461	FR	MRF	30000
TN37Z0461	FR	MRF	15000


Form1
SERVICE REPORT GENERATION
All Vehicles
Individual Vehicle
Vehicle No
TN37Z0461
SELECT BETWEEN DATES
FROM
TO
Generate
Cancel

SANGEETH TEXTILES PRIVATE LIMITED

VEHICLE SERVICE REPORT

VEHICLE NO	SERVICING KM	REPLACED ITEM	SERVICED ITEM	TOTAL AMT
TN37Z0461	10000	BREAK		1250
TN37Z0461	10000	ENGINE SPARES		1250
TN37Z0461	10000	BREAK LIGHT		1250
			TOTAL AMOUNT SPENT	3750



SANGEETH TEXTILES PRIVATE LIMITED

FUEL REPORT

BILL NO	DATE	LITRES	AMOUNT
123	20-Feb-03	150	700
567	18-Feb-03	150	700
34	19-Feb-03	200	1000
543	16-Feb-03	200	750

SANGEETH TEXTILES PRIVATE LIMITED

MONTHLY PAYSLIP REPORT

CODE	NAME	SALARY
E1	RAJ	3300
E2	SHANMUGAM	1100

REPORT ON RECEIPTS

SANGEETH TEXTILES PRIVATE Ltd

COMPANY NAME	BALANCE
SAKTHI	4000
SAKTHI	700
CAUVERY TEXTILES	2500
TOTAL BALANCE AMOUNT TO RECEIVE	**7200**