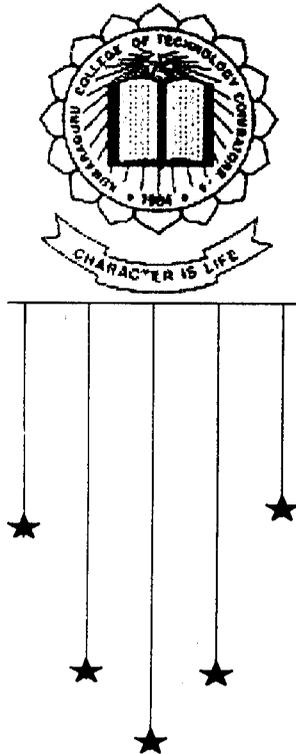


# MAINTENANCE, MANAGEMENT AND FINANCIAL ACCOUNTING OF A DEPARTMENTAL STORES



**PROJECT REPORT**

P-535

*Submitted By*

**MEYYAPPAN .S**

**SATHISH ARUN .S.P**

**REKHA .M**



*Under the Guidance of*

**Mr.M. SARAVANA MUTHU, M.C.A.,**

In partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF SCIENCE IN APPLIED  
SCIENCES - COMPUTER TECHNOLOGY**

of the Bharathiar University, Coimbatore.

**Department of Computer Science and Engineering**

**Kumaraguru College Of Technology**

Coimbatore- 641 006.

# Kumaraguru College Of Technology

COIMBATORE – 641006.

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY



## Certificate

This is to certify that the project entitled

### **MAINTENANCE, MANAGEMENT AND FINANCIAL ACCOUNTING OF A DEPARTMENTAL STORES**

has been submitted by

Mr/Ms. MEYYAPPAN.S, Ms REKHA.M, SATHISHARUN.S

in partial fulfillment of the requirements for the award of Degree of

### **BACHELOR OF SCIENCE IN APPLIED SCIENCE – COMPUTER TECHNOLOGY**

Branch of the Bharathiar University, Coimbatore,

During the academic year 2000-2001.

  
14/3/2001  
Guide

  
Head of the Department

Certified that the candidate with register number 700134, 982790155, 982790160 was examined in the project work and viva-voce Examination held on 16-03-2001

  
16/03  
Internal Examiner

  
16/3/2001  
External Examiner

# IRA DEPARTMENTAL STORES

*Sale and Retail Traders*

544, Trichy Road,  
Singanallur,  
Coimbatore – 641 005.  
Phone: 572880, 592936.

---

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.Meyyappan.S, Mr.Sathish Arun S.P., Ms.Rekha .M,** have developed a **“MAINTENANCE, MANAGEMENT AND FINANCIAL ACCOUNTING”** package for our company. This deals with the whole computerisation of the departmental stores. They developed this package as trainees and we agreed to implement the package done by them in our departmental stores.

We are very much happy with the software, and the interest they showed on the project.

We wish them all success in their career.

With regards,

*S. Srinivasan*

**(S. SRINIVASAN)**  
Proprietor.

## **DECLARATION**

I hereby declare that this project entitled "MAINTENANCE, MANAGEMENT AND FINANCIAL ACCOUNTING OF A DEPARTMENTAL STORES" submitted is a record of original work done by me under the supervision of Mr.,M.Saravana Muthu, Lecturer, Department of Computer Technology and Application, Kumaraguru College of Technology and that this project work as not formed the basis for the award of any degree / diploma / associateship / fellowship with similar title with any other University.

Place: Coimbatore.

Date :

**ENDORSED BY:**

Place: Coimbatore

Date :

Mr.M.Saravana Muthu

# CONTENTS

## 1. INTRODUCTION

- 1.1. PURPOSE
- 1.2. SCOPE
- 1.3. ACRONYMS
- 1.4. REFERENCES
- 1.5. OVERVIEW

## 2. EXISTING SYSTEM

- 2.1. NEED FOR COMPUTERIZATION
- 2.2. PROPOSED SYSTEM
- 2.3. HARDWARE SPECIFICATION
- 2.4. SOFTWARE SPECIFICATION

## 3. SYSTEM DESIGN

- 3.1. INPUT DESIGN
- 3.2. TRANSACTION DESIGN
- 3.3. DATABASE DESIGN
- 3.4. OUTPUT DESIGN

## 4. SYSTEM FLOW DIAGRAM

## 5. TESTING AND IMPLEMENTATION

- 5.1. UNIT TESTING
- 5.2. SYSTEM TESTING
- 5.3. ACCEPTANCE TESTING

## 6. CONCLUSION

## 7. BIBLIOGRAPHY

## 8. ANNEXURES

## **ACKNOWLEDGEMENT**

**We wish to express our regards and sincere thanks to the management of Kumaraguru College of Technology and to our Principal K.K.Padmanabhan for providing necessary facilities to carry out this project work.**

**We feel highly elated in manifesting our deep sense of thankfulness to our Head of the Department Prof.S.thangasamy and our Guide Mr.M. Saravana Muthu for their keen interest, valuable guidance, useful suggestions and constant help during the course of this project work. We can say with utmost confidence that they were the backbone of this project. We are thankful to our staffs, parents and our friends for the completion of the project.**

**Though the words are not enough, it is all that we have got to express deepest gratitude to Mr.S.Srinivasan the Proprietor of Indra Departmental Stores, Coimbatore for readily providing all the facilities, patiently answering all our queries and helping us to carry out this project meticulously.**

# 1. INTRODUCTION

## 1.1. PURPOSE

The main aim of this project is to computerize the manual operations in a Departmental Stores. This we have undertaken for the computerization of the manual transactions in the stores.

Due to the concept of employing computers, lots of tensions and the physical stresses are reduced a lot. There is no need to pay more attention to all the work in the stores. The great difficulty in working will be decreased a lot as we have employed the computers .

## 1.2. SCOPE

The scope of this project is that it helps in reducing the daily tension undergone by the people in the stores. It makes the people get out of the fatigue. The computerised system is implemented in easy way than the manual system.

The scope of the project is that it helps the people from the physical and the mental stresses due to the heavy and difficult job.

### 1.3. ACRONYMNS

<b>DLL</b>	-	<b>Dynamic Linking Library</b>
<b>BMP</b>	-	<b>Bit Map Image</b>
<b>VBP</b>	-	<b>Visual Basic Project</b>
<b>MDB</b>	-	<b>Microsoft Data Base</b>
<b>JPEG</b>	-	<b>Joint Picture Editing Group</b>
<b>FRM</b>	-	<b>Form</b>

### 1.4. REFERENCES:

#### *Books:*

- Software Engineering - Roger S.Pressman**
- VB 6.0 - Peter Wrights**
- Beginning VB 6.0 - Gary Cornell**
- Microsoft Access 7**
- An integrated approach to**
- Software engineering - Pankaj Jalote**

#### *People:*

**The people in the stores who have helped us a lot being with us.**

**Mr.S.Srinivasan - Managing Director**

**Mr.S.Kumars Assistant Manager**

## 1.5. OVERVIEW

The project is based on the making of the manual Departmental Stores into the computerized one. The quality of the work done by the machine is usually uniform, neat and reliable than when it is done manually. The operating cost is very high while running this manually. The operating cost is lowered by employing computers in this field. The efficiency and accuracy.

Is high in employing computers. The need for the computerization is for the quick job completion and the updation and the deletions can be performed easily.

Our project aims to computerize the manually operating Departmental stores. Previously, the stores was running manually which was a quite difficult job undertaken. Used more workmen in order to satisfy the customer's needs.

Nowadays, the number of people has been increased to a lot and hence their needs have to be fulfilled in one way or other. We are in a position to satisfy these persons and also get ourselves satisfied all our needs. Limited number of persons are not enough out everywhere. Hence all the persons are to be posted a job for everyone's well being.

Employing computers will make the business run in a smooth way. Even this computerization reduces the mental and physical stresses of the people. This concept of employing computers will bring the great relief of the people from the mental torture and fatigueness. This concept doesn't require more people on hand and easy to adopt. All the details such as the sales, stock, purchase, customer and license details are clearly shown in the screen. Even the Income tax dues are also shown exactly period wise.

We have coded three modules like Maintenance, Management and Financial Accounting of the stores. In the first module Maintenance, the stock of the products in the stores are maintained and are checked for the full amount of it. If the reorder level is maintained in a serial way then the stock is full, otherwise the amount of the stock has been reduced. The particular stock has to be purchased.

In the second module Management, the details of License ,Income Tax are maintained. The customer details are stored in the system and whenever any need , the customer can be intimated directly. Through this a good relationship is maintained between the people and the customers. The purchase details are also stored in this which makes the cash bill to be generated.

Finally, the third module Financial Accounting prepares the bills for the purchases made and the balance sheet is generated for that. Ultimately, the reports are generated for the bills.

This is to compute the yearly turn-over of the stores.

## **2. SYSTEM ANALYSIS**

### **2.1 NEED FOR COMPUTERIZATION**

Computerization has become an important part of the modern administrative process.

The quality of the work performed by a machine is usually uniform, neat and more reliable than when it is done manually. The operating cost of running all these works is high. The operating cost is lowered by employing computers in this field. The efficiency and accuracy is also increased in employing computers.

The benefit of computerization is quick job completion. The updation and deletion can also be performed quickly and accurately.

### **2.2 PROPOSED SYSTEM**

Our project is a work-station based project. These are stand-alone systems. Hence these are not needed to connect to the server or to the network. Any person can access the system at any place.

This facility is provided as we use the platforms Visual Basic 6.0. and Microsoft Access.

Using Visual Basic we can satisfy any great needs of the users at the earliest possible time. It is quite easy to implement these functions in the project without any difficulty.

This language is easy to read and understand and hence quite interesting to work with. This is similar to the Basic language by which a single command invokes most of all functions easily.

Microsoft Access is similar to the Oracle language which serves the best in the storage of data. Creating tables is an easy task and hence the first.

Our project has three modules like

- a). Maintenance
- b). Management
- c). Financial Accounting

### 2.3 HARDWARE SPECIFICATION

Processor	:	Pentium
RAM	:	64 mb
Hard disk capacity	:	4.2 GB

**Serial Mouse** : MS compatible Mouse  
**Printer** : HP Laser-Jet  
**Ports** : 2 serial ports , 1 parallel port.

#### **2.4 SOFTWARE SPECIFICATION:**

**Platforms used** : Windows NT server 4.0 /  
Windows 95  
Windows 98  
**Front End Tool** : Visual Basic 6.0  
**Back End Tool** : Microsoft Access  
**Reporting Tool** : Data Report  
**Components Used** : ActiveX Data Objects

### **3. SYSTEM DESIGN**

#### **3.1. INPUT DESIGN:**

The Input Design describes the total number of input screens available. The designing is made of these input screens .Generally, the design process plays an important role in the project management process. The purpose of the design phase is to plan a solution of the problem specified by the requirements document. In other words, starting with *what* is needed , design takes us towards *how* to satisfy the needs.

The system design is sometimes called the Top-Level design, aims to identify the modules that should be in the system and how they interact with each other to produce the desired results.

We have designed five input screens totally, called as the Master Entries. Now let us see the five Master screens,

**Master Entries:**

- 1. Supplier Entry**
- 2. License Entry**
- 3. Customer Entry**
- 4. Employee Entry**
- 5. Item Entry.**

### **Customer Entry:**

In the customer entry the full details of the customers in the shop are stored in the screen format. The customer's name, age, sex, phone number, fax number, address, occupation are all stored in the screen. These details of the customers are available to the stores owners. For the purpose of door-delivery of products.

Also whenever any customer forgets to purchase any regular items or products, the owner of the stores could remind the regular customers using either phone numbers or their addresses.

If suppose the customers forget to pay the amount for the purchases they made the people in the stores can very well remind the customers. For these purposes the details of the customers are stored.

### **Employee Entry:**

In the employee entry the details regarding the workmen or the employees in the stores are maintained.

Simply, the salary, wages has to be given to the employees for their sincere work performed. During the festivals, bonus will be provided specially for the workmen. These will be stored in the employee entry.

### **Item Entry:**

The items in the stores are maintained as by three levels like maximum level, minimum level, reorder level. The item code, name, cost price, selling price, quantity and the quality are stocked.

### **Scheduling:**

The scheduling has two parts such as

- a). Bill Delivery
- b). Function Delivery.

These explain the delivering of the bills in which the advance amount and the total amount has to be recorded.

### **Financial Accounting:**

This module has three divisions such as

- a). Balance Sheet
- b). Data Entry Details
- c). Text Editor

### **Balance sheet:**

The salary , wages, bonus, sundry creditors, loans are filled in the input column of the balance sheet.

These are related to the employees and are given as inputs to the balance Sheet. The balance sheet is calculated by these information .

#### Data Entry Details:

The details are about the Electricity Board , LIC premium, House repair ,general expenses, vehicle maintenance , municipal tax charges.

#### Text Editor

Text Editor serves as the notepad functions .

### 3.2. TRANSACTION DESIGN

Here the details of the balance sheet generated are posted to financial accounting . The user assigns a code for the product as the *pcode*. The code of the product, *pcode* is assigned as the *primary key*.

The primary key is assigned for the purpose of the code to be the unique code. The code should not be repeated and the item name should also be repeated , only should be unique.

### 3.3 DATABASE DESIGN

The fields in the database design are based on the tables defined in the database. We have some 7 types of the database tables and only through this the data are entered.

#### Employee

Serial No.	Field Name	Field Type
1.	Name	text
2.	Age	integer
3.	Sex	boolean
4.	Addresss	text
5.	Contact number	integer
6.	Date of Joining	date
7.	Salary	integer
8.	Bonus	integer
9.	Department	text
10.	TotalPay	double

## Customer

Serial No.	Field Name	Field Type
1.	Customer code	integer
2.	customer name	text
3.	street	text
4.	address	text
5.	city	text
6.	state	text
7.	zip	integer
8.	phone number	integer
9.	last transaction	date

## Item

Serial No.	Field name	Field Type
1.	code	text
2.	name	text
3.	cost price	double
4.	selling price	double
5.	category	text
6.	unit	integer
7.	maximum quantity	integer
8.	minimum quantity	double
9.	reorder level	integer

## License Details

Serial No.	Field Name	Field type
1.	name	text
2.	validation period	integer
3.	amount to be paid	integer
4.	date last paid	date
5.	date of updation	date

## Cash Bill Generation

### 1. Input:

Serial No.	Field Name	Field Type
1.	name	text
2.	unit price	integer
3.	pd no.	integer

### 2. Report

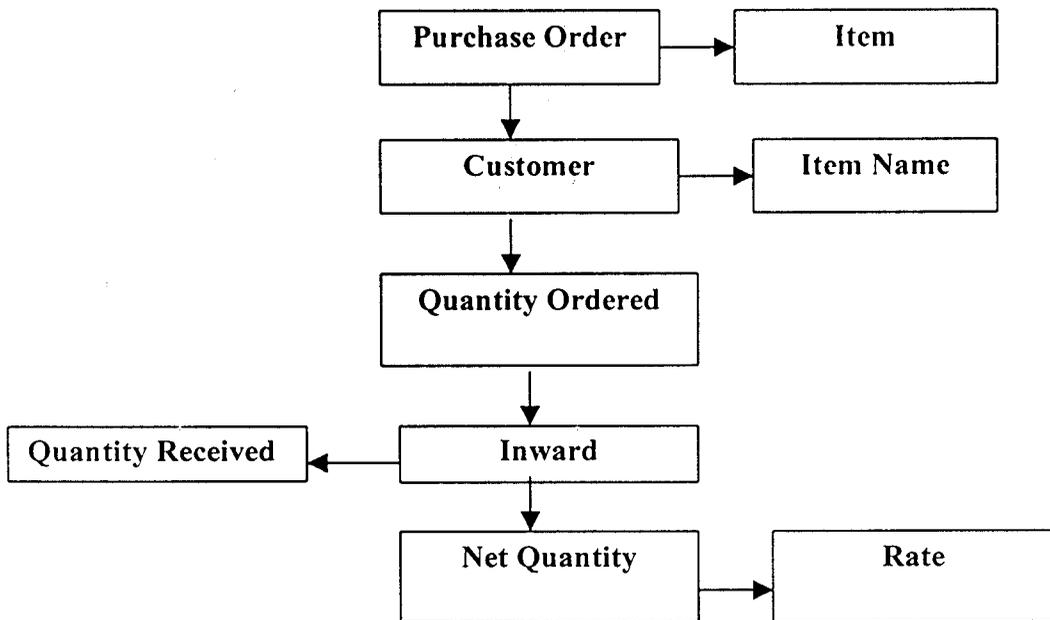
Serial no.	Field name	field type
1.	pd no.	integer
2.	name	text
3.	qty	double
4.	unit price	double
5.	total	double

## **SCHEDULE**

### **1. Bill**

<b>Serial no.</b>	<b>field name</b>	<b>field type</b>
1.	<b>name</b>	<b>text</b>
2.	<b>add</b>	<b>text</b>
3.	<b>date for delivery</b>	<b>date</b>
4.	<b>total amount</b>	<b>double</b>
5.	<b>place for delivery</b>	<b>text</b>

#### 4. SYSTEM FLOW DIAGRAM MAINTENANCE



## 5. TESTING

Testing is the major quality control measure employed during software development. Its basic function is to detect errors in the software. During textual and non-executable. The goal of this testing is to uncover requirement, design or coding errors in the programs. Testing is a method that involves executing the code and is used. The different modules are tested separately.

### 5.1. UNIT TESTING

The starting point of the testing is the Unit testing. In this a module is tested separately and is often performed by the coder himself simultaneously with the coding of the module.

The purpose is to exercise the different parts of the module code to detect coding errors. After this the modules are gradually integrated into subsystems, which are often then integrated themselves to eventually form the entire system.

### 5.2. SYSTEM TESTING

In the system testing the system is tested against the system requirements to see if all the requirements are met and the system performs as specified by the requirements.

### 5.3. ACCEPTANCE TESTING

The Acceptance testing is performed to demonstrate to the client, on the real life data of the client, the operation of the system. For the testing to be successful , the proper selection of testcases are to be chosen. It is extremely critical and time consuming activity. It requires proper planning of the overall testing process.

This starts with a test plan. Then for different test units, a testcase specification document is produced, which lists all test cases, together with the expected outputs, that will be used for the testing.

## 6. CONCLUSION

All the three modules in our project works perfectly and is all set for the implementation of the various operations in the daily transactions of the departmental stores. This project have been very useful, informative and at the most educative. It has helped in understanding the practical problems in real life situation. The study conducted has been very useful to the stores as well as to us. It has given the completeness to the education received by us during the past three years of our degree course.

The system has been developed for the conditions existing at the present. The system being flexible , can be further enhanced as per the wishes of the user's requirements.

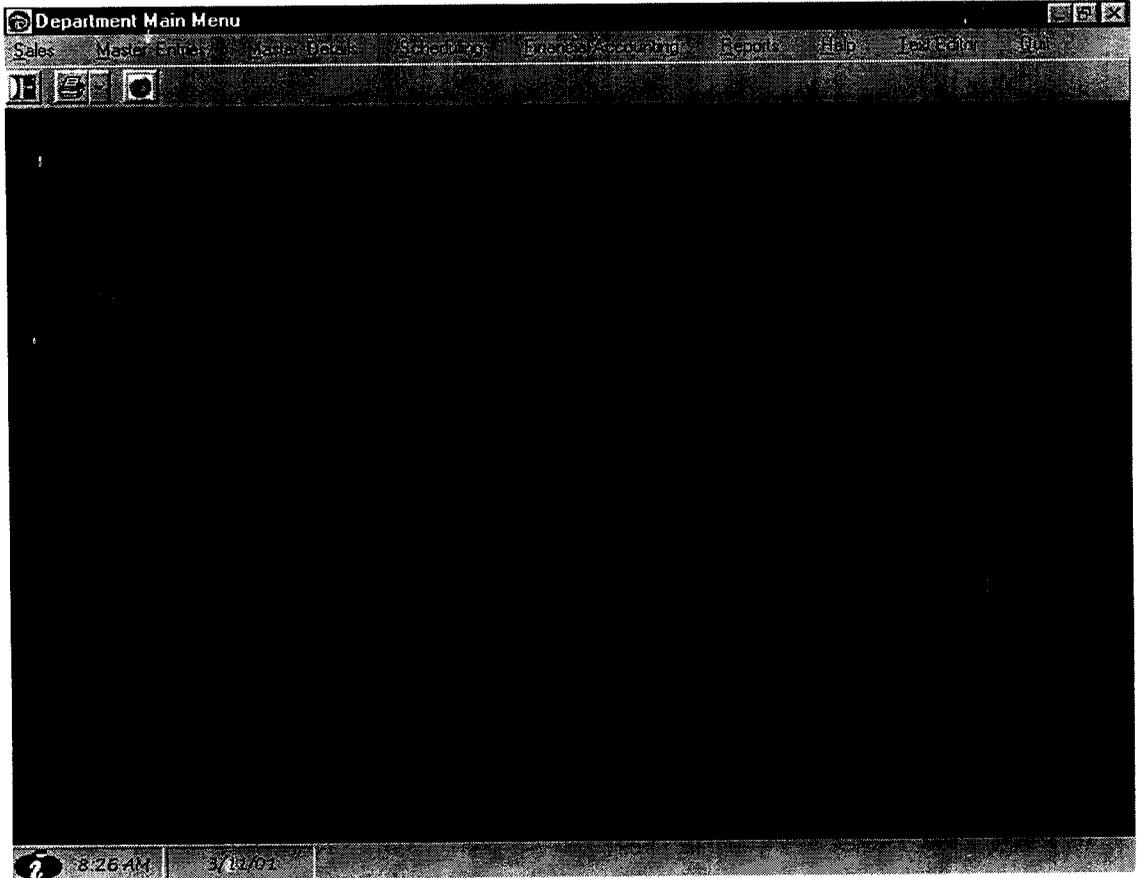
## **7. BIBLIOGRAPHY**

- |  |                          |
|--|--------------------------|
| <b>1. BEGINNING VISUAL BASIC</b>                             | <b>PETER WRIGHTS</b>     |
| <b>2. VISUAL BASIC 6.0</b>                                   | <b>GARY CORNELL</b>      |
| <b>3. MICROSOFT ACCESS</b>                                   | <b>LEE AND LEE</b>       |
| <b>4. SOFTWARE ENGINEERING</b>                               | <b>ROGER S. PRESSMAN</b> |
| <b>5. AN INTEGRATED APPROACH TO<br/>SOFTWARE ENGINEERING</b> | <b>PANKAJ JALOTE</b>     |

**SCREENS**

---

# MAIN SCREEN



ITEM INPUT SCREEN



Close

Product code

1

Product Name

SUGAR

Unit Price

16

Add

Save

Report

Exit

SALES BILL INPUT SCREEN



Close

Product code

Product Name

Unit Price

Quantity

Total amount

Add

Save

Exit

End

**Supplier Detail Input**

Supplier Code	2		
Short Name	s@co		
Full Name	sasi and company		
Address	544,kamarejar road		
City	coimbatore	Pincode	641005
Contact Person	sasi		
Department Name	operaing		
Email Address	sasi @pusi.com		
Phone No	123456	Fax No	987654

License Details Input

Name	CORPORATION LICENCE
Validator period	1 YEAR
Amount to be paid	225
Date entered	6/6/00
Date of issue	6/6/01

<< >>

Customer Input Data



Close



Customer code: 2

Phone number: 425236

Name: karthikeyan p

Customer type: Credit customers

Street Address: 3rd st ramji NAGAR

Last transaction Date: 05-12-2000

City: Coimbatore

Account type

Account status

State/province: Tamil nadu

Zip code: 454546

SUPPLIER DETAILS		Close
Supplier code	2	
Short name	s@co	
Full name	sasi and company	
Address	544,kamarejar road	
City	coimbatore	
Pincode	641005	
Contact person	sasi	
Dept name	operaing	
E-mail address	sasi @pusi.com	
Phone number	123456	
Fax number	987654	

First Last Delete Next Close

Record: 1

LICENCE DETAILS				
Name	Validation Period	Amount to be	Date last paid	Date of updation
CORPORATION	1 YEAR	225	6/6/00	6/6/01
MARKETING	1 YEAR	125	4/2/00	4/2/01
RECIPIENT SALE	2 YEARS	1250	3/4/00	3/4/02
SUGAR SALES	1 YEAR	175	1/4/00	1/4/01
INDST	1 YEAR	150	7/2/00	7/2/01
WEIGHING DEVICES	2 YEARS	125	9/5/00	9/5/02

Close

INDRA CUSTOMER DETAILS

custcode:	2	Close
name:	karthikeyan	
stadd:	3rd st ramji NAGAR	
city:	Coimbatore	
state:	Tamil nadu	
zip:	454546	
pho:	425236	
lasttran:	12/5/00	

custcode	name	stadd	city	state	zip
▶ 2	karthikeyan p	3rd st ramji NAGAR	Coimbatore	Tamil nadu	454546

Record: 1

Buttons: Add, Update, Delete, Refresh, Close



**BILL DELIVERY DETAILS**



**Bill Delivery Details**

Close

Bill Delivery Details						
Name of the person	Address	Date to be delivered	Total Amount to be paid	Place to deliver the item	Advance payme	
kumar	544, trichy road	1-2-01	8000	singanallur	5000	
siva	141, kotharinagar  singai	3-6-01	5000	singanallur	2000	

Name of the person

Total amount to be paid

Address

Advance payment

Add New

Date to be delivered

Balance to be paid

Close

Place to be delivered

BALANCE SHEET DETAILS

Loans (secured and unsecured) details

Sundry credits

Salaries, wages and bonus

Close

Sno	Name	Type	Date	Amount
1	JEEVAN POLICY	SECURED	4/2/01	4000
2	LIFE DHARA	SECURED	1/4/00	9000
3	HIGH PROTECT	UNSECURED	6/7/80	15000

Add New

Delete

Close

BALANCE SHEET DETAILS			
Sl No	Date	Name	Amount
1	1/1/01	SSKUMARS & CO	5001
2	4/6/00	JANNI & CO	60000
3	6/8/90	MALIKA & CO	20000
4	5/6/00	JANCY & CO	10000

**BALANCE SHEET DETAILS** [Close]

Loan secured against real estate      Salary creditors      Salaries, wages and bonus

Sno.	Date	Amount
1	1/2/01	900
2	5/7/89	899
3	6/7/90	9000

[Add] [Edit] [Delete]

**DATA ENTRY DETAILS** Close

Premium receipts details

Sno	Date	Name	Amount
1	1/2/80	LIFE INSURE	1500
2	1/4/90	JEEVAN	5000
3	3/5/89	BALVITHYA	3500

**TOTAL INCOME**

Close

INCOME FROM BUSINESS:

Income from India Departmental Stores, profit and loss account for the year

25310

ADD: INCOME TAXES (As per Income Tax)

516

25826

INCOME FROM HOUSE PROPERTY:

Rental Income from the house property at  
5A, Dhanapati layout, 3rd street,  
Uppalpalayam (p. Othandurai-13)

24000

LESS: MUNICIPAL TAXES PAID

(As per municipal details)

1678

LESS: REPAIR CHARGES

(As per municipal details)

4464

17858

43684

Tax due on the above income

552

LESS: DEDUCTIONS OF

LIC premium paid (as per receipts as per Form 16)  
Deduction @ 10% of the amount

1425

TAX PAYABLE

--nil--

Income

Taxes

Income

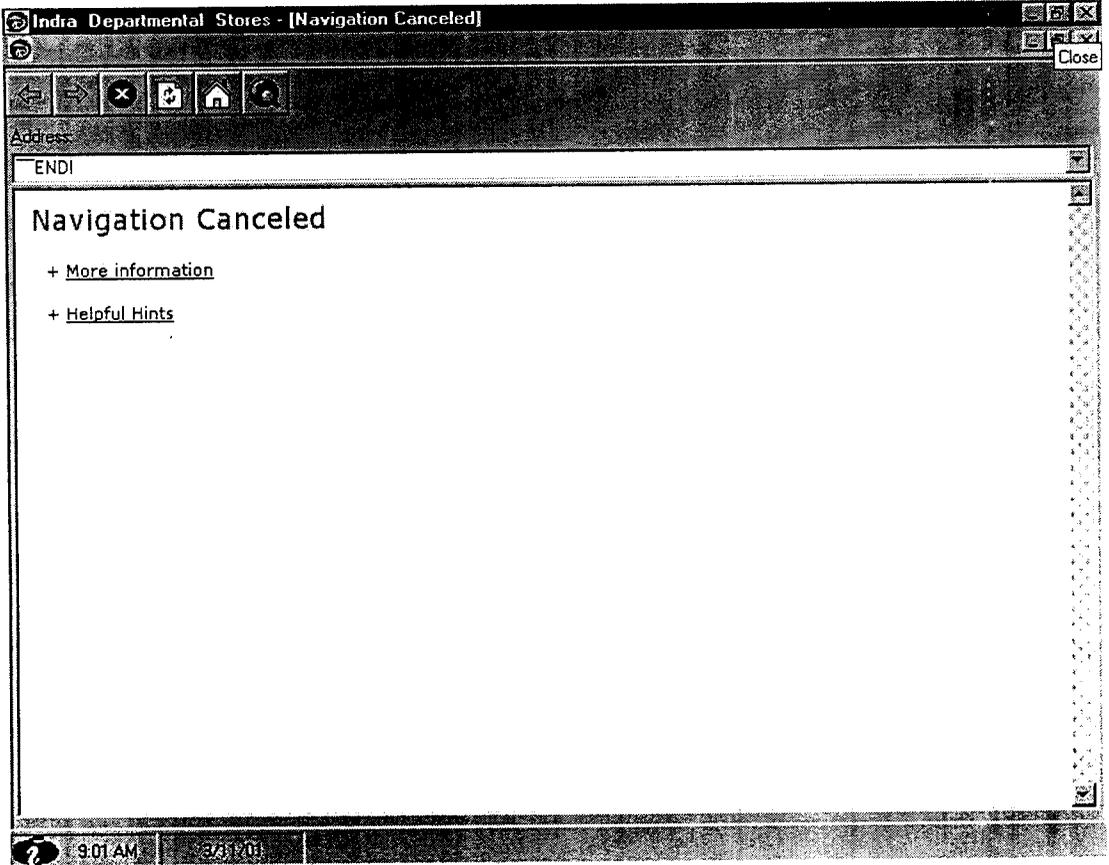
Taxes

Income

Taxes

**BALANCE SHEET** Close

LIABILITIES		ASSETS	
Gods account	149.25	Bank balance	4278.97
Proprietors capital account	45000	Current assets	180800
Proprietors current account		Fixed assets	5500
Balance	112578.67	Partners and other share	25205.50
ADD: Net profit for the year	25309.55	Balance	
	137888.22	LESS: Depreciation	2521
SECURED AND UNSECURED LOANS	164650		22684.5
(As per the loan details)		particulars balance	33620
CURRENT LIABILITIES	29675	LESS: Depreciation	3362
(As per liabilities details)			30258
		ending balance	140885
		LESS: Depreciation	7044
			133841
TOTAL	377362.47	TOTAL	377362.47



## REPORTS

---

# COMPUTATION OF TOTAL INCOME

INDRA DEPARTMENTAL STORES	
COMPUTATION OF TOTAL INCOME FOR THE YEAR	
<b>INCOME FROM BUSINESS :-</b>	Rs.
Income from Indra departmental stores as profit and loss for the year	25310
ADD : Inadmissibles :- Income Tax	516
	-----
<b>TOTAL :</b>	25826
	-----
<b>INCOME FROM THE HOUSE PROPERTY</b>	
<u>Rental Income from house property at</u>	
5A,Dhanapal lay out, singanailur	24000
LESS : Municipal Taxes	1678
LESS : Repair Charges	4464
	17858
Tax due on the above income	43684
LESS : Deduction	552
LIC premium paid as per receipts as list enclosed deduction @ 20%	1425
Tax Payable	--nil--
DATE :	Sunday, March 11,
TIME :	10:17:21 AM

## TRADING, PROFIT AND LOSS ACCOUNT

TRADING AND PROFIT AND LOSS ACCOUNT FOR THE YEAR			
PURCHASE AND EXPENDIURE	Rs .P	SALES AND INCOME	Rs .P
To opening stock	172500	By sales rice	648346
To purchase rice	128327	By sales others	2150
To purchase groceries	415481.45	By closing stock	180800
To freight and cartage	5100		
To salaries , wages and bonus	2945		
To gross ptofit c/d	20,800		
	-----		-----
<b>TOTAL</b>	<b>86142.55</b>	<b>TOTAL</b>	<b>831296</b>
	-----		-----
To licence and taxes	810516	By gross profit c/d	86142.55
To shop expences	200	Difference in T.B	5
To telephone charges	4245		
To audit fees	3600		
To accountancy fee	1000		
To vehicle maintenance	2400		
To interest charges	7150		
To income tax	28800		
To depreciation	516		
To net profit to	12927		
proprietors current a/c	25309.55		
	-----		-----
<b>TOTAL</b>	<b>86147.55</b>	<b>TOTAL</b>	<b>86147.55</b>
	-----		-----

# GENERATION OF SALES BILL

DataReport4

Zoom: 100% Close

**INDRA DEPARTMENTAL STORES**

PNO:	PNAME	UPRICE	QTY:	TOT:
1	SUGAR	16	2	32
3	chilly	56	10	560
2	RICE	34	3	102
4	soap	14	5	70

DATE Sunday, March 11,

TIME 11:20:33 AM

THANK YOU VISIT AGAIN

Pages: 1

SOURCE CODE

---

```
Private Sub employee1_Click()  
frmemployee.Show  
End Sub
```

```
Private Sub item_Click()  
Form5.Show  
End Sub
```

```
Private Sub item1_Click()  
frmitem.Show  
End Sub
```

```
Private Sub licence_Click()  
Form4.Show  
End Sub
```

```
Private Sub licence1_Click()  
frmlicense.Show  
End Sub
```

```
Private Sub Quit1_Click()  
End  
End Sub
```

```
Private Sub sched_Click()  
Form14.Show  
End Sub
```

```
Private Sub supplier_Click()  
Form7.Show  
End Sub
```

```
Private Sub supplier1_Click()  
frmsupplier.Show  
End Sub
```

```
Private Sub texted_Click()  
Dim tmp As String  
tmp = Shell("C:\My Documents\kumars\notepad.exe", vbMaximizedFocus)  
End Sub
```

```
Private Sub Toolbar1_ButtonClick(ByVal Button As MSComCtlLib.Button)  
On Error Resume Next  
Select Case Button.Key  
'Case "Find"
```

**Public tm As String**

**Private Sub abcb\_Click()  
Form15.Show  
End Sub**

**Private Sub agdre\_Click()  
Form16.Show  
End Sub**

**Private Sub balance1\_Click()  
DataReport3.Show  
End Sub**

**Private Sub balsheet\_Click()  
Form9.Show  
End Sub**

**Private Sub bill\_Click()  
Form13.Show  
End Sub**

**Private Sub calculator\_Click()  
Dim tmp As String  
tmp = Shell("C:\WINDOWS\CALC.EXE", vbMaximizedFocus)  
End Sub**

**Private Sub customer\_Click()  
form2.Show  
End Sub**

**Private Sub customer1\_Click()  
frmindracust.Show  
End Sub**

**Private Sub dentry\_Click()  
Form8.Show  
End Sub**

**Private Sub eadsf\_Click()  
DataReport4.Show  
End Sub**

**Private Sub employee\_Click()  
Form6.Show  
End Sub**

```
Case "fort"  
    Form10.Show  
'Case "Print"  
  
Case "dscvy"  
    frmBrowser.Show
```

```
End Select  
End Sub
```

```
'Private Sub cascade_Click()  
'Dim tmp As String  
'tmp = Shell("C:\WINDOWS\CALC.EXE", vbMaximizedFocus)  
'End Sub
```

```
Private Sub contents_Click()  
form2.Show  
End Sub
```

```
Private Sub new_Click()  
Form4.Show  
End Sub
```

```
Private Sub open_Click()  
Form6.Show  
End Sub
```

```
Private Sub search_Click()  
frmindracust.Show  
End Sub
```

```
Private Sub about_Click()  
Form3.Show  
End Sub
```

```
Private Sub exit_Click()  
End  
End Sub
```

```
Private Sub Form_MouseMove(Button As Integer, shift As Integer, X As Single, Y  
As Single)  
    Label14.FontSize = 14  
End Sub
```

```
Private Sub Timer1_Timer()  
Label15.Left = Label15.Left - 50  
If Label15.Left < 0 Then  
Label15.Left = 9000  
Label15.Left = Label15.Left - 50  
End If  
End Sub
```

```
Private Sub tip_Click()  
frmTip.Show  
End Sub
```

```
Private Sub mnuHelpSearchForHelpOn_Click()  
Dim nRet As Integer  
'if there is no helpfile for this project display a message to the user  
'you can set the HelpFile for your application in the  
'Project Properties dialog  
If Len(App.HelpFile) = 0 Then  
MsgBox "Unable to display Help Contents. There is no Help associated with  
this project.", vbInformation, Me.Caption  
Else  
On Error Resume Next  
nRet = OSWinHelp(Me.hWnd, App.HelpFile, 261, 0)  
If Err Then  
MsgBox Err.Description  
End If  
End If  
End Sub
```

```
Private Sub mnuFileExit_Click()  
'unload the form  
Unload Me  
End Sub
```

```
Private Sub mnuFilePrint_Click()  
On Error Resume Next  
If ActiveForm Is Nothing Then Exit Sub  
With dlgCommonDialog  
.DialogTitle = "Print"  
.CancelError = True  
.Flags = cdIPDReturnDC + cdIPDNoPageNums  
If ActiveForm.rtfText.SelLength = 0 Then  
.Flags = .Flags + cdIPDAllPages  
Else  
.Flags = .Flags + cdIPDSelection  
End If  
.ShowPrinter
```

```
    If Err <> MSComDlg.cdlCancel Then
        ActiveForm.rtfText.SelPrint .hDC
    End If
End With
```

```
End Sub
```

```
Private Sub mnuFilePageSetup_Click()
    On Error Resume Next
    With dlgCommonDialog
        .DialogTitle = "Page Setup"
        .CancelError = True
        .ShowPrinter
    End With
```

```
End Sub
```

```
Private Sub mnuFileSaveAs_Click()
    Dim sFile As String
    If ActiveForm Is Nothing Then Exit Sub
    With dlgCommonDialog
        .DialogTitle = "Save As"
        .CancelError = False
        'ToDo: set the flags and attributes of the common dialog control
        .Filter = "All Files (*.*)|*.*"
        .ShowSave
        If Len(.FileName) = 0 Then
            Exit Sub
        End If
        sFile = .FileName
    End With
    ActiveForm.Caption = sFile
    ActiveForm.rtfText.SaveFile sFile
```

```
End Sub
```

```
Private Sub mnuFileSave_Click()
    Dim sFile As String
    If Left$(ActiveForm.Caption, 8) = "Document" Then
        With dlgCommonDialog
            .DialogTitle = "Save"
            .CancelError = False
            'ToDo: set the flags and attributes of the common dialog control
```

```
.Filter = "All Files (*.*)|*.*"  
.ShowSave  
If Len(.FileName) = 0 Then  
    Exit Sub  
End If  
sFile = .FileName  
End With  
ActiveForm.rtfText.SaveFile sFile  
Else  
sFile = ActiveForm.Caption  
ActiveForm.rtfText.SaveFile sFile  
End If
```

End Sub

```
Private Sub mnuFileClose_Click()  
    'ToDo: Add 'mnuFileClose_Click' code.  
    MsgBox "Add 'mnuFileClose_Click' code."  
End Sub
```

```
Private Sub mnuFileOpen_Click()  
    'Dim sFile As String  
    'If ActiveForm Is Nothing Then LoadNewDoc  
    ' With dlgCommonDialog  
    ' .DialogTitle = "Open"  
    ' .CancelError = False  
    'ToDo: set the flags and attributes of the common dialog control  
    ' .Filter = "All Files (*.*)|*.*"  
    ' .ShowOpen  
    ' If Len(.FileName) = 0 Then  
    '     Exit Sub  
    ' End If  
    ' sFile = .FileName  
    'End With  
    'ActiveForm.rtfText.LoadFile sFile  
    'ActiveForm.Caption = sFile
```

End Sub

```
Private Sub mnuFileNew_Click()  
    ' LoadNewDoc  
End Sub
```

```
Private Sub toolbar_Click()  
Form5.Show  
End Sub
```

```
        .Filter = "All Files (*.*)|*.*"  
        .ShowSave  
        If Len(.FileName) = 0 Then  
            Exit Sub  
        End If  
        sFile = .FileName  
    End With  
    ActiveForm.rtfText.SaveFile sFile  
Else  
    sFile = ActiveForm.Caption  
    ActiveForm.rtfText.SaveFile sFile  
End If
```

End Sub

```
Private Sub mnuFileClose_Click()  
    'ToDo: Add 'mnuFileClose_Click' code.  
    MsgBox "Add 'mnuFileClose_Click' code."  
End Sub
```

```
Private Sub mnuFileOpen_Click()  
    'Dim sFile As String  
    'If ActiveForm Is Nothing Then LoadNewDoc  
    ' With dlgCommonDialog  
    ' .DialogTitle = "Open"  
    ' .CancelError = False  
    'ToDo: set the flags and attributes of the common dialog control  
    ' .Filter = "All Files (*.*)|*.*"  
    ' .ShowOpen  
    ' If Len(.FileName) = 0 Then  
    '     Exit Sub  
    ' End If  
    ' sFile = .FileName  
    'End With  
    ActiveForm.rtfText.LoadFile sFile  
    ActiveForm.Caption = sFile
```

End Sub

```
Private Sub mnuFileNew_Click()  
    ' LoadNewDoc  
End Sub
```

```
Private Sub toolbar_Click()  
    Form5.Show  
End Sub
```

```
Private Sub undo_Click()  
Form7.Show  
End Sub
```

```
Private Sub webbrowser_Click()  
frmBrowser.Show  
End Sub
```

```
Private Sub totincome_Click()  
DataReport1.Show  
End Sub
```

```
Private Sub trading_Click()  
DataReport2.Show  
End Sub
```

```
Public tm As String
```

```
Private Sub abcb_Click()  
Form15.Show  
End Sub
```

```
Private Sub agdre_Click()  
Form16.Show  
End Sub
```

```
Private Sub balance1_Click()  
DataReport3.Show  
End Sub
```

```
Private Sub balsheet_Click()  
Form9.Show  
End Sub
```

```
Private Sub bill_Click()  
Form13.Show  
End Sub
```

```
Private Sub calculator_Click()  
Dim tmp As String  
tmp = Shell("C:\WINDOWS\CALC.EXE", vbMaximizedFocus)  
End Sub
```

**Private Sub customer\_Click()  
form2.Show  
End Sub**

**Private Sub customer1\_Click()  
frmindracust.Show  
End Sub**

**Private Sub dentry\_Click()  
Form8.Show  
End Sub**

**Private Sub eadsf\_Click()  
DataReport4.Show  
End Sub**

**Private Sub employee\_Click()  
Form6.Show  
End Sub**

**Private Sub employee1\_Click()  
frmemployee.Show  
End Sub**

**Private Sub item\_Click()  
Form5.Show  
End Sub**

**Private Sub item1\_Click()  
frmitem.Show  
End Sub**

**Private Sub licence\_Click()  
Form4.Show  
End Sub**

**Private Sub licence1\_Click()  
frmlicense.Show  
End Sub**

**Private Sub Quit1\_Click()  
End  
End Sub**

```
Private Sub sched_Click()  
Form14.Show  
End Sub
```

```
Private Sub supplier_Click()  
Form7.Show  
End Sub
```

```
Private Sub supplier1_Click()  
frmsupplier.Show  
End Sub
```

```
Private Sub texted_Click()  
Dim tmp As String  
tmp = Shell("C:\My Documents\kumars\notepad.exe", vbMaximizedFocus)  
End Sub
```

```
Private Sub Toolbar1_ButtonClick(ByVal Button As MSComCtlLib.Button)  
    On Error Resume Next  
    Select Case Button.Key  
        'Case "Find"  
  
        Case "fort"  
            Form10.Show  
        'Case "Print"  
  
        Case "dscvy"  
            frmBrowser.Show  
  
    End Select  
End Sub
```

```
'Private Sub cascade_Click()  
'Dim tmp As String  
'tmp = Shell("C:\WINDOWS\CALC.EXE", vbMaximizedFocus)  
'End Sub
```

```
Private Sub contents_Click()  
form2.Show  
End Sub
```

```
Private Sub new_Click()  
Form4.Show  
End Sub
```

```
Private Sub open_Click()  
Form6.Show  
End Sub
```

```
Private Sub search_Click()  
frmindracust.Show  
End Sub
```

```
Private Sub about_Click()  
Form3.Show  
End Sub
```

```
Private Sub exit_Click()  
End  
End Sub
```

```
Private Sub Form_MouseMove(Button As Integer, shift As Integer, X As Single, Y  
As Single)  
Label14.FontSize = 14  
End Sub
```

```
Private Sub Label10_MouseMove(Button As Integer, shift As Integer, X As Single,  
Y As Single)  
'Label10.ForeColor = RGB(255, 0, 0)  
End Sub
```

```
Private Sub Label11_Click()  
'form2.Show  
End Sub
```

```
Private Sub Label11_MouseMove(Button As Integer, shift As Integer, X As Single,  
Y As Single)  
'Label11.ForeColor = RGB(255, 0, 0)  
End Sub
```

```
Private Sub Label12_MouseMove(Button As Integer, shift As Integer, X As Single,  
Y As Single)  
'Label12.ForeColor = RGB(255, 0, 0)  
End Sub
```

```
Private Sub Label13_MouseMove(Button As Integer, shift As Integer, X As Single,  
Y As Single)  
'Label13.ForeColor = RGB(255, 0, 0)  
End Sub
```

```
Private Sub Label14_Click()  
End  
End Sub
```

```
Private Sub Label14_MouseMove(Button As Integer, shift As Integer, X As Single,  
Y As Single)  
Label14.FontSize = 18  
End Sub
```

```
Private Sub Label16_MouseMove(Button As Integer, shift As Integer, X As Single, Y As Single)
'Label16.ForeColor = RGB(255, 0, 0)
End Sub
Private Sub Label9_MouseMove(Button As Integer, shift As Integer, X As Single, Y As Single)
'Label9.ForeColor = RGB(255, 0, 0)
End Sub
Private Sub shedule_Click()
'Form4.Show
End Sub
```

```
Private Sub tilehori_Click()
'Dim tm As String
tm = Shell("C:\Program Files\WINAMP\winamp.exe", vbMaximizedFocus)
End Sub
```

```
'Private Sub tilevert_Click()
'Dim tmp As String
'tmp = Shell("C:\My Documents\kumars\notepad.exe", vbMaximizedFocus)
'End Sub
```

```
Private Sub Timer1_Timer()
'Label15.Left = Label15.Left - 50
'If Label15.Left < 0 Then
'Label15.Left = 9000
'Label15.Left = Label15.Left - 50
'End If
End Sub
```

```
Private Sub tip_Click()
frmTip.Show
End Sub
```

```
Private Sub mnuHelpSearchForHelpOn_Click()
' Dim nRet As Integer
```

```
    'if there is no helpfile for this project display a message to the user
    'you can set the HelpFile for your application in the
    'Project Properties dialog
    'If Len(App.HelpFile) = 0 Then
        ' MsgBox "Unable to display Help Contents. There is no Help associated with
this project.", vbInformation, Me.Caption
    ' Else
```

```
'On Error Resume Next
'nRet = OSWinHelp(Me.hWnd, App.HelpFile, 261, 0)
' If Err Then
'   MsgBox Err.Description
'End If
' End If
```

End Sub

```
Private Sub mnuFileExit_Click()
'unload the form
Unload Me
```

End Sub

```
Private Sub mnuFilePrint_Click()
On Error Resume Next
If ActiveForm Is Nothing Then Exit Sub
```

```
With dlgCommonDialog
.DialogTitle = "Print"
.CancelError = True
.Flags = cdIPDReturnDC + cdIPDNoPageNums
If ActiveForm.rtfText.SelLength = 0 Then
.Flags = .Flags + cdIPDAllPages
Else
.Flags = .Flags + cdIPDSelection
End If
.ShowPrinter
If Err <> MScmDlg.cdICancel Then
ActiveForm.rtfText.SelPrint .hDC
End If
End With
```

End Sub

```
Private Sub mnuFilePageSetup_Click()
On Error Resume Next
With dlgCommonDialog
```

```
.DialogTitle = "Page Setup"  
.CancelError = True  
.ShowPrinter  
End With
```

```
End Sub
```

```
Private Sub mnuFileSaveAs_Click()  
    Dim sFile As String  
    If ActiveForm Is Nothing Then Exit Sub  
    With dlgCommonDialog  
        .DialogTitle = "Save As"  
        .CancelError = False  
        'ToDo: set the flags and attributes of the common dialog control  
        .Filter = "All Files (*.*)|*.*"  
        .ShowSave  
        If Len(.FileName) = 0 Then  
            Exit Sub  
        End If  
        sFile = .FileName  
    End With  
    ActiveForm.Caption = sFile  
    ActiveForm.rtfText.SaveFile sFile
```

```
End Sub
```

```
Private Sub mnuFileSave_Click()  
    Dim sFile As String  
    If Left$(ActiveForm.Caption, 8) = "Document" Then  
        With dlgCommonDialog  
            .DialogTitle = "Save"  
            .CancelError = False  
            'ToDo: set the flags and attributes of the common dialog control  
            .Filter = "All Files (*.*)|*.*"  
            .ShowSave  
            If Len(.FileName) = 0 Then  
                Exit Sub  
            End If  
            sFile = .FileName  
        End With  
        ActiveForm.rtfText.SaveFile sFile  
    Else  
        sFile = ActiveForm.Caption  
        ActiveForm.rtfText.SaveFile sFile
```

**End If**

**End Sub**

**Private Sub mnuFileClose\_Click()**

    'ToDo: Add 'mnuFileClose\_Click' code.

    MsgBox "Add 'mnuFileClose\_Click' code."

**End Sub**

**Private Sub mnuFileOpen\_Click()**

    'Dim sFile As String

    'If ActiveForm Is Nothing Then LoadNewDoc

        ' With dlgCommonDialog

        ' .DialogTitle = "Open"

        ' .CancelError = False

        'ToDo: set the flags and attributes of the common dialog control

        ' .Filter = "All Files (\*.\*)|\*.\*"

        ' .ShowOpen

        ' If Len(.FileName) = 0 Then

            ' Exit Sub

        ' End If

        ' sFile = .FileName

    'End With

    'ActiveForm.rtfText.LoadFile sFile

    'ActiveForm.Caption = sFile

**End Sub**

**Private Sub mnuFileNew\_Click()**

    ' LoadNewDoc

**End Sub**

**Private Sub toolbar\_Click()**

Form5.Show

**End Sub**

**Private Sub undo\_Click()**

Form7.Show

**End Sub**

**Private Sub webbrowser\_Click()**

frmBrowser.Show

**End Sub**

**Private Sub totincome\_Click()**

DataReport1.Show

**End Sub**

**Private Sub Text8\_GotFocus()**

**Dim d, e, f, g**

**d = Val(Text1.Text) + Val(Text2.Text)**

**e = Val(Text3.Text) + Val(Text4.Text)**

**f = Val(Text5.Text) + Val(Text6.Text)**

**g = d + e + f**

**Text8.Text = g + Val(Text7.Text)**

**End Sub**

**Dim cn As New ADODB.Connection**

**Dim rs As New ADODB.Recordset**

**Private Sub Command1\_Click()**

**Text1.SetFocus**

**End Sub**

**Private Sub Command2\_Click()**

**rs.Fields(0) = Text1.Text**

**rs.Fields(1) = Text2.Text**

**rs.Fields(2) = Text3.Text**

**m = MsgBox("DO YOU WANT TO ADD THIS RECORD?", vbYesNo, "SAVE")**

**If m = vbYes Then**

**rs.Update**

**rs.AddNew**

**MsgBox " YOUR RECORD IS ADDED"**

**Call clr**

**Else**

**rs.CancelUpdate**

**MsgBox " YOUR RECORD IS NOT ADDED"**

**Call clr**

**End If**

**End Sub**

**Private Sub Command3\_Click()**

**End**

**End Sub**

**Private Sub Command4\_Click()**

**rs.Close**

**Text1.Enabled = False**

**a = InputBox("Enter the Product Code", "EDIT")**

**rs.Open "select \* from salmast where pno='" & a & "'", cn, adOpenDynamic,  
adLockOptimistic, adCmdText**

```

rs1.Fields(1) = Text2.Text
rs1.Fields(2) = Text3.Text
rs1.Fields(3) = Text4.Text
rs1.Fields(4) = Text5.Text
m = MsgBox("DO YOU WANT TO ADD THIS RECORD?", vbYesNo, "SAVE")
If m = vbYes Then
rs1.Update
rs1.AddNew
MsgBox " YOUR RECORD IS ADDED"
Call clr
Else
rs1.CancelUpdate
MsgBox " YOUR RECORD IS NOT ADDED"
Call clr
End If
End Sub

```

```

Private Sub Command3_Click()
End
End Sub

```

```

Private Sub Command4_Click()
DataReport4.Show
End Sub

```

```

Private Sub Form_Load()
With cn
.CursorLocation = adUseClient
.ConnectionTimeout = 30
.Provider = "MSDAORA"
.Open "", "scott", "tiger"
End With
rs.Open "select * from salmast", cn, adOpenKeyset, adLockOptimistic, adCmdText
With cn1
.CursorLocation = adUseClient
.ConnectionTimeout = 30
.Provider = "MSDAORA"
.Open "", "scott", "tiger"
End With
rs1.Open "select * from sale", cn1, adOpenKeyset, adLockOptimistic, adCmdText
End Sub

```

```

Private Sub Text5_GotFocus()
Text5.Text = Val(Text3.Text) * Val(Text4.Text)
End Sub

```

```
Public Sub clr()  
Text1.Text = ""  
Text2.Text = ""  
Text3.Text = ""  
Text4.Text = ""  
Text5.Text = ""  
End Sub
```

```
Private Sub Command1_Click()  
Adodc1.Recordset.AddNew  
Text1.SetFocus  
End Sub
```

```
Private Sub Command2_Click()  
p = MsgBox("ARE YOU SURE TO DELETE THE RECORD?", vbOKCancel,  
Delete)  
If p = vbOK Then  
Adodc1.Recordset.Delete  
End If  
End Sub
```

```
Private Sub Command3_Click()  
Me.Hide  
End Sub
```

```
Private Sub Command4_Click()  
If Not Adodc1.Recordset.EOF Then  
Adodc1.Recordset.MoveNext  
End If  
End Sub
```

```
Private Sub Command1_Click()  
Adodc1.Recordset.AddNew  
'text1.SetFocus  
End Sub  
Private Sub clr()  
Text1.Text = ""  
Text2.Text = ""  
Text3.Text = ""  
Text4.Text = ""  
Text5.Text = ""  
Text6.Text = ""  
Text7.Text = ""  
Text8.Text = ""  
End Sub
```

```
Private Sub Command2_Click()  
frmemployee.Show  
End Sub
```

```
Private Sub Command3_Click()  
Me.Hide  
End Sub
```

```
Private Sub Command1_Click()  
Adodc1.Recordset.AddNew  
text1.SetFocus  
End Sub
```

```
Private Sub Command2_Click()  
frmsupplier.Show  
End Sub
```

```
Private Sub Command3_Click()  
Me.Hide  
End Sub
```

```
Private Sub Form_Load()  
'text1.SetFocus  
End Sub
```

```
Private Sub Command1_Click()  
Adodc5.Recordset.AddNew  
End Sub
```

```
Private Sub Command16_Click()  
Adodc3.Recordset.AddNew  
End Sub
```

```
Private Sub Command17_Click()  
p = MsgBox("Are u sure to delete?", vbOKCancel, Indra - stores)  
If p = vbOK Then  
Adodc3.Recordset.Delete  
End If  
End Sub
```

```
Private Sub Command18_Click()  
Me.Hide  
End Sub
```

```
Private Sub Command2_Click()
p = MsgBox("Are u sure to delete?", vbOKCancel, Indra - stores)
If p = vbOK Then
Adodc5.Recordset.Delete
End If
End Sub
```

```
Private Sub Command6_Click()
Me.Hide
End Sub
```

```
Private Sub Command7_Click()
Adodc6.Recordset.AddNew
End Sub
```

```
Private Sub Command8_Click()
p = MsgBox("Are u sure to delete?", vbOKCancel, Indra - stores)
If p = vbOK Then
Adodc6.Recordset.Delete
End If
End Sub
```

```
Private Sub Command9_Click()
Me.Hide
End Sub
Private Sub Command3_Click()
Adodc4.Recordset.AddNew
End Sub
```

```
Private Sub Command4_Click()
p = MsgBox("Are u sure to delete?", vbOKCancel, Indra - stores)
If p = vbOK Then
Adodc4.Recordset.Delete
End If
End Sub
```

```
Private Sub Command5_Click()
Me.Hide
End Sub
Private Sub Command13_Click()
Adodc2.Recordset.AddNew
End Sub
```

```
Private Sub Command14_Click()
p = MsgBox("Are u sure to delete?", vbOKCancel, Indra - stores)
If p = vbOK Then
```

```
Adodc2.Recordset.Delete
End If
End Sub
```

```
Private Sub Command15_Click()
Me.Hide
End Sub
```

```
Private Sub Command10_Click()
Adodc1.Recordset.AddNew
End Sub
```

```
Private Sub Command11_Click()
p = MsgBox("Are u sure to delete?", vbOKCancel, Indra - stores)
If p = vbOK Then
Adodc1.Recordset.Delete
End If
End Sub
```

```
Private Sub Command12_Click()
Me.Hide
End Sub
```

```
Private Sub Command1_Click()
Adodc1.Recordset.AddNew
End Sub
```

```
Private Sub Command2_Click()
p = MsgBox("Are u sure to delete?", vbOKCancel, Indra - stores)
If p = vbOK Then
Adodc1.Recordset.Delete
End If
End Sub
```

```
Private Sub Command6_Click()
Me.Hide
End Sub
```

```
Private Sub Command3_Click()
Adodc2.Recordset.AddNew
End Sub
```

```
Private Sub Command4_Click()
p = MsgBox("Are u sure to delete?", vbOKCancel, Indra - stores)
If p = vbOK Then
```

```
Adodc2.Recordset.Delete
End If
End Sub
```

```
Private Sub Command5_Click()
Me.Hide
End Sub
Private Sub Command7_Click()
Adodc3.Recordset.AddNew
End Sub
```

```
Private Sub Command8_Click()
p = MsgBox("Are u sure to delete?", vbOKCancel, Indra - stores)
If p = vbOK Then
Adodc3.Recordset.Delete
End If
End Sub
```

```
Private Sub Command9_Click()
Me.Hide
End Sub
```

```
Private Sub DataGrid1_Click()

End Sub
```

```
Option Explicit
Public StartingAddress As String
Dim mbDontNavigateNow As Boolean
Private Sub Form_Load()
On Error Resume Next
Me.Show
tbToolBar.Refresh
Form_Resize
cboAddress.Move 50, lblAddress.Top + lblAddress.Height + 15
If Len(StartingAddress) > 0 Then
cboAddress.Text = StartingAddress
cboAddress.AddItem cboAddress.Text
'try to navigate to the starting address
timTimer.Enabled = True
brwWebBrowser.Navigate StartingAddress
End If
End Sub
Private Sub brwWebBrowser_DownloadComplete()
On Error Resume Next
Me.Caption = brwWebBrowser.LocationName
```

```

End Sub
Private Sub brwWebBrowser_NavigateComplete(ByVal URL As String)
    Dim i As Integer
    Dim bFound As Boolean
    Me.Caption = brwWebBrowser.LocationName
    For i = 0 To cboAddress.ListCount - 1
        If cboAddress.List(i) = brwWebBrowser.LocationURL Then
            bFound = True
            Exit For
        End If
    Next i
    mbDontNavigateNow = True
    If bFound Then
        cboAddress.RemoveItem i
    End If
    cboAddress.AddItem brwWebBrowser.LocationURL, 0
    cboAddress.ListIndex = 0
    mbDontNavigateNow = False
End Sub
Private Sub cboAddress_Click()
    If mbDontNavigateNow Then Exit Sub
    timTimer.Enabled = True
    brwWebBrowser.Navigate cboAddress.Text
End Sub
Private Sub cboAddress_KeyPress(KeyAscii As Integer)
    On Error Resume Next
    If KeyAscii = vbKeyReturn Then
        cboAddress_Click
    End If
End Sub
Private Sub Form_Resize()
    cboAddress.Width = Me.ScaleWidth - 100
    brwWebBrowser.Width = Me.ScaleWidth - 100
    brwWebBrowser.Height = Me.ScaleHeight - (picAddress.Top +
picAddress.Height) - 100
End Sub
Private Sub timTimer_Timer()
    If brwWebBrowser.Busy = False Then
        timTimer.Enabled = False
        Me.Caption = brwWebBrowser.LocationName
    Else
        Me.Caption = "Working..."
    End If
End Sub
Private Sub tbToolBar_ButtonClick(ByVal Button As Button)
    On Error Resume Next

```

```

timTimer.Enabled = True

Select Case Button.Key
    Case "Back"
        brwWebBrowser.GoBack
    Case "Forward"
        brwWebBrowser.GoForward
    Case "Refresh"
        brwWebBrowser.Refresh
    Case "Home"
        brwWebBrowser.GoHome
    Case "Search"
        brwWebBrowser.GoSearch
    Case "Stop"
        timTimer.Enabled = False
        brwWebBrowser.Stop
        Me.Caption = brwWebBrowser.LocationName
End Select
End Sub

```

```

Private Sub Form_Resize()
    On Error Resume Next
    'This will resize the grid when the form is resized
    grdDataGrid.Height = Me.ScaleHeight - datPrimaryRS.Height - 30 -
picButtons.Height
End Sub

```

```

Private Sub Form_Unload(Cancel As Integer)
    Screen.MousePointer = vbDefault
End Sub

```

```

Private Sub datPrimaryRS_Error(ByVal ErrorNumber As Long, Description As
String, ByVal Scode As Long, ByVal Source As String, ByVal HelpFile As String,
ByVal HelpContext As Long, fCancelDisplay As Boolean)
    'This is where you would put error handling code
    'If you want to ignore errors, comment out the next line
    'If you want to trap them, add code here to handle them
    MsgBox "Data error event hit err:" & Description
End Sub

```

```

Private Sub datPrimaryRS_MoveComplete(ByVal adReason As
ADODB.EventReasonEnum, ByVal pError As ADODB.Error, adStatus As
ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
    'This will display the current record position for this recordset

```

```
datPrimaryRS.Caption = "Record: " &  
CStr(datPrimaryRS.Recordset.AbsolutePosition)  
End Sub
```

```
Private Sub datPrimaryRS_WillChangeRecord(ByVal adReason As  
ADODB.EventReasonEnum, ByVal cRecords As Long, adStatus As  
ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
```

```
'This is where you put validation code
```

```
'This event gets called when the following actions occur
```

```
Dim bCancel As Boolean
```

```
Select Case adReason
```

```
Case adRsnAddNew
```

```
Case adRsnClose
```

```
Case adRsnDelete
```

```
Case adRsnFirstChange
```

```
Case adRsnMove
```

```
Case adRsnRequery
```

```
Case adRsnResynch
```

```
Case adRsnUndoAddNew
```

```
Case adRsnUndoDelete
```

```
Case adRsnUndoUpdate
```

```
Case adRsnUpdate
```

```
End Select
```

```
If bCancel Then adStatus = adStatusCancel
```

```
End Sub
```

```
Private Sub cmdAdd_Click()
```

```
On Error GoTo AddErr
```

```
datPrimaryRS.Recordset.MoveLast
```

```
grdDataGrid.SetFocus
```

```
SendKeys "{down}"
```

```
Exit Sub
```

```
AddErr:
```

```
MsgBox Err.Description
```

```
End Sub
```

```
Private Sub cmdDelete_Click()
```

```
On Error GoTo DeleteErr
```

```
With datPrimaryRS.Recordset
```

```
.Delete
```

```
.MoveNext
```

```
If .EOF Then .MoveLast
```

```
End With
```

```
Exit Sub
DeleteErr:
MsgBox Err.Description
End Sub
```

```
Private Sub cmdRefresh_Click()
'This is only needed for multi user apps
On Error GoTo RefreshErr
datPrimaryRS.Refresh
Exit Sub
RefreshErr:
MsgBox Err.Description
End Sub
```

```
Private Sub cmdUpdate_Click()
On Error GoTo UpdateErr

datPrimaryRS.Recordset.UpdateBatch adAffectAll
Exit Sub
UpdateErr:
MsgBox Err.Description
End Sub
```

```
Private Sub cmdClose_Click()
Unload Me
End Sub
```

```
Private Sub Form_Load()
Set grdDataGrid.DataSource =
datPrimaryRS.Recordset("ChildCMD").UnderlyingValue
End Sub
```

```
Private Sub Form_Resize()
On Error Resume Next
'This will resize the grid when the form is resized
grdDataGrid.Width = Me.ScaleWidth
grdDataGrid.Height = Me.ScaleHeight - grdDataGrid.Top - datPrimaryRS.Height
- 30 - picButtons.Height
End Sub
```

```
Private Sub Form_Unload(Cancel As Integer)
Screen.MousePointer = vbDefault
End Sub
```

```
Private Sub datPrimaryRS_Error(ByVal ErrorNumber As Long, Description As String, ByVal Scode As Long, ByVal Source As String, ByVal HelpFile As String, ByVal HelpContext As Long, fCancelDisplay As Boolean)
    'This is where you would put error handling code
    'If you want to ignore errors, comment out the next line
    'If you want to trap them, add code here to handle them
    MsgBox "Data error event hit err:" & Description
End Sub
```

```
Private Sub datPrimaryRS_MoveComplete(ByVal adReason As ADODB.EventReasonEnum, ByVal pError As ADODB.Error, adStatus As ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
    'This will display the current record position for this recordset
    datPrimaryRS.Caption = "Record: " & CStr(datPrimaryRS.Recordset.AbsolutePosition)
End Sub
```

```
Private Sub datPrimaryRS_WillChangeRecord(ByVal adReason As ADODB.EventReasonEnum, ByVal cRecords As Long, adStatus As ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
    'This is where you put validation code
    'This event gets called when the following actions occur
    Dim bCancel As Boolean
```

```
    Select Case adReason
        Case adRsnAddNew
        Case adRsnClose
        Case adRsnDelete
        Case adRsnFirstChange
        Case adRsnMove
        Case adRsnRequery
        Case adRsnResynch
        Case adRsnUndoAddNew
        Case adRsnUndoDelete
        Case adRsnUndoUpdate
        Case adRsnUpdate
    End Select
```

```
    If bCancel Then adStatus = adStatusCancel
End Sub
```

```
Private Sub cmdAdd_Click()
    On Error GoTo AddErr
    datPrimaryRS.Recordset.AddNew

Exit Sub
```

```
Private Sub datPrimaryRS_Error(ByVal ErrorNumber As Long, Description As String, ByVal Scode As Long, ByVal Source As String, ByVal HelpFile As String, ByVal HelpContext As Long, fCancelDisplay As Boolean)
    'This is where you would put error handling code
    'If you want to ignore errors, comment out the next line
    'If you want to trap them, add code here to handle them
    MsgBox "Data error event hit err:" & Description
End Sub
```

```
Private Sub datPrimaryRS_MoveComplete(ByVal adReason As ADODB.EventReasonEnum, ByVal pError As ADODB.Error, adStatus As ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
    'This will display the current record position for this recordset
    datPrimaryRS.Caption = "Record: " &
    CStr(datPrimaryRS.Recordset.AbsolutePosition)
End Sub
```

```
Private Sub datPrimaryRS_WillChangeRecord(ByVal adReason As ADODB.EventReasonEnum, ByVal cRecords As Long, adStatus As ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
    'This is where you put validation code
    'This event gets called when the following actions occur
    Dim bCancel As Boolean
```

```
    Select Case adReason
        Case adRsnAddNew
        Case adRsnClose
        Case adRsnDelete
        Case adRsnFirstChange
        Case adRsnMove
        Case adRsnRequery
        Case adRsnResynch
        Case adRsnUndoAddNew
        Case adRsnUndoDelete
        Case adRsnUndoUpdate
        Case adRsnUpdate
    End Select
```

```
    If bCancel Then adStatus = adStatusCancel
End Sub
```

```
Private Sub cmdAdd_Click()
    On Error GoTo AddErr
    datPrimaryRS.Recordset.AddNew

Exit Sub
```

```
AddErr:
  MsgBox Err.Description
End Sub
```

```
Private Sub cmdDelete_Click()
  On Error GoTo DeleteErr
  With datPrimaryRS.Recordset
    .Delete
    .MoveNext
    If .EOF Then .MoveLast
  End With
  Exit Sub
```

```
DeleteErr:
  MsgBox Err.Description
End Sub
```

```
Private Sub cmdRefresh_Click()
  'This is only needed for multi user apps
  On Error GoTo RefreshErr
  datPrimaryRS.Refresh
  Set grdDataGrid.DataSource =
  datPrimaryRS.Recordset("ChildCMD").UnderlyingValue
  Exit Sub
```

```
RefreshErr:
  MsgBox Err.Description
End Sub
```

```
Private Sub cmdUpdate_Click()
  On Error GoTo UpdateErr

  datPrimaryRS.Recordset.UpdateBatch adAffectAll
  Exit Sub
```

```
UpdateErr:
  MsgBox Err.Description
End Sub
```

```
Private Sub cmdClose_Click()
  Unload Me
End Sub
```

```
Private Sub lblLabels_Click(Index As Integer)
```

```
End Sub
```

```
Private Sub Form_Resize()
  On Error Resume Next
  'This will resize the grid when the form is resized
```

```
grdDataGrid.Height = Me.ScaleHeight - datPrimaryRS.Height - 30 -  
picButtons.Height  
End Sub
```

```
Private Sub Form_Unload(Cancel As Integer)  
Screen.MousePointer = vbDefault  
End Sub
```

```
Private Sub datPrimaryRS_Error(ByVal ErrorNumber As Long, Description As  
String, ByVal Scode As Long, ByVal Source As String, ByVal HelpFile As String,  
ByVal HelpContext As Long, fCancelDisplay As Boolean)  
'This is where you would put error handling code  
'If you want to ignore errors, comment out the next line  
'If you want to trap them, add code here to handle them  
MsgBox "Data error event hit err:" & Description  
End Sub
```

```
Private Sub datPrimaryRS_MoveComplete(ByVal adReason As  
ADODB.EventReasonEnum, ByVal pError As ADODB.Error, adStatus As  
ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)  
'This will display the current record position for this recordset  
datPrimaryRS.Caption = "Record: " &  
CStr(datPrimaryRS.Recordset.AbsolutePosition)  
End Sub
```

```
Private Sub datPrimaryRS_WillChangeRecord(ByVal adReason As  
ADODB.EventReasonEnum, ByVal cRecords As Long, adStatus As  
ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)  
'This is where you put validation code  
'This event gets called when the following actions occur  
Dim bCancel As Boolean
```

```
Select Case adReason  
Case adRsnAddNew  
Case adRsnClose  
Case adRsnDelete  
Case adRsnFirstChange  
Case adRsnMove  
Case adRsnRequery  
Case adRsnResynch  
Case adRsnUndoAddNew  
Case adRsnUndoDelete  
Case adRsnUndoUpdate  
Case adRsnUpdate  
End Select
```

```
If bCancel Then adStatus = adStatusCancel
End Sub
```

```
Private Sub cmdAdd_Click()
    On Error GoTo AddErr
    datPrimaryRS.Recordset.MoveLast
    grdDataGrid.SetFocus
    SendKeys "{down}"
```

```
Exit Sub
AddErr:
    MsgBox Err.Description
End Sub
```

```
Private Sub cmdDelete_Click()
    On Error GoTo DeleteErr
    With datPrimaryRS.Recordset
        .Delete
        .MoveNext
        If .EOF Then .MoveLast
    End With
    Exit Sub
DeleteErr:
    MsgBox Err.Description
End Sub
```

```
Private Sub cmdRefresh_Click()
    'This is only needed for multi user apps
    On Error GoTo RefreshErr
    datPrimaryRS.Refresh
    Exit Sub
RefreshErr:
    MsgBox Err.Description
End Sub
```

```
Private Sub cmdUpdate_Click()
    On Error GoTo UpdateErr

    datPrimaryRS.Recordset.UpdateBatch adAffectAll
    Exit Sub
UpdateErr:
    MsgBox Err.Description
End Sub
```

```
Private Sub cmdClose_Click()
    Unload Me
```

End Sub

Private Sub grdDataGrid\_Click()

End Sub

Private Const MARGIN\_SIZE = 60 ' in Twips

' variables for column dragging

Private m\_bDragOK As Boolean

Private m\_iDragCol As Integer

Private xdn As Integer, ydn As Integer

Private Sub Form\_Load()

Dim i As Integer

Dim j As Integer

Dim m\_iMaxCol As Integer

datPrimaryRS.Visible = False

With MSHFlexGrid1

.Redraw = False

' place the columns in the right order

.ColData(0) = 0

.ColData(1) = 1

.ColData(2) = 2

.ColData(3) = 3

.ColData(4) = 4

' loop to re-order the columns

For i = 0 To .Cols - 1

m\_iMaxCol = i ' find the highest value starting from this column

For j = i To .Cols - 1

If .ColData(j) > .ColData(m\_iMaxCol) Then m\_iMaxCol = j

Next j

.ColPosition(m\_iMaxCol) = 0 ' move the column with the max value to the  
left

Next i

' set grid's column widths

.ColWidth(0) = 1905

.ColWidth(1) = 1695

.ColWidth(2) = 1755

.ColWidth(3) = 2250

.ColWidth(4) = 2130

' set grid's column merging and sorting

```

For i = 0 To .Cols - 1
    .MergeCol(i) = True
Next i

.Sort = flexSortGenericAscending

' set grid's style
.AllowBigSelection = True
.FillStyle = flexFillRepeat

' make header bold
.Row = 0
.Col = 0
.RowSel = .FixedRows - 1
.ColSel = .Cols - 1
.CellFontBold = True

' grey every other column
For i = .FixedCols To .Cols() - 1 Step 2
    .Col = i
    .Row = .FixedRows
    .RowSel = .Rows - 1
    .CellBackColor = &HC0C0C0 ' light grey
Next i

.AllowBigSelection = False
.FillStyle = flexFillSingle
.Redraw = True

```

**End With**

**End Sub**

```

Private Sub MSHFlexGrid1_DragDrop(Source As Control, X As Single, Y As Single)
'-----
' code in grid's DragDrop, MouseDown, MouseMove, and MouseUp events enables column dragging
'-----

If m_iDragCol = -1 Then Exit Sub ' we weren't dragging
If MSHFlexGrid1.MouseRow <> 0 Then Exit Sub

With MSHFlexGrid1
    .Redraw = False
    .ColPosition(m_iDragCol) = .MouseCol

```

```

.FillStyle = flexFillRepeat
.Col = 0
.Row = .FixedRows
.RowSel = .Rows - 1
.ColSel = .Cols - 1
.CellBackColor = &HFFFFFF
Dim iLoop As Integer
For iLoop = .FixedCols To .Cols() - 1 Step 2
    .Col = iLoop
    .Row = .FixedRows
    .RowSel = .Rows - 1
    .CellBackColor = &HC0C0C0
Next iLoop
.FillStyle = flexFillSingle

DoSort
.Redraw = True
End With

```

End Sub

```

Private Sub MSHFlexGrid1_MouseDown(Button As Integer, shift As Integer, X As Single, Y As Single)
'-----

```

```

' code in grid's DragDrop, MouseDown, MouseMove, and MouseUp events enables column dragging
'-----

```

```

If MSHFlexGrid1.MouseRow <> 0 Then Exit Sub

```

```

xdn = X
ydn = Y
m_iDragCol = -1 ' clear drag flag
m_bDragOK = True

```

End Sub

```

Private Sub MSHFlexGrid1_MouseMove(Button As Integer, shift As Integer, X As Single, Y As Single)
'-----

```

```

' code in grid's DragDrop, MouseDown, MouseMove, and MouseUp events enables column dragging
'-----

```

```

' test to see if we should start drag

```

```
If Not m_bDragOK Then Exit Sub
If Button <> 1 Then Exit Sub           ' wrong button
If m_iDragCol <> -1 Then Exit Sub      ' already dragging
If Abs(xdn - X) + Abs(ydn - Y) < 50 Then Exit Sub ' didn't move enough yet
If MSHFlexGrid1.MouseRow <> 0 Then Exit Sub ' must drag header
```

```
' if got to here then start the drag
m_iDragCol = MSHFlexGrid1.MouseCol
MSHFlexGrid1.Drag vbBeginDrag
```

End Sub

```
Private Sub MSHFlexGrid1_MouseUp(Button As Integer, shift As Integer, X As Single, Y As Single)
```

```
'-----
' code in grid's DragDrop, MouseDown, MouseMove, and MouseUp events enables
column dragging
'-----
```

```
m_bDragOK = False
```

End Sub

```
Sub DoSort()
```

```
With MSHFlexGrid1
    .Redraw = False
    .Col = 0
    .Row = 1
    .RowSel = .Rows - 1
    .Sort = flexSortGenericAscending
    .Redraw = True
End With
```

End Sub

```
Private Sub Form_Resize()
```

```
Dim sngButtonTop As Single
Dim sngScaleWidth As Single
Dim sngScaleHeight As Single
```

```
On Error GoTo Form_Resize_Error
With Me
    sngScaleWidth = .ScaleWidth
    sngScaleHeight = .ScaleHeight
```

```
' move Close button to the lower right corner
With .cmdClose
    sngButtonTop = sngScaleHeight - (.Height + MARGIN_SIZE)
    .Move sngScaleWidth - (.Width + MARGIN_SIZE), sngButtonTop
End With
```

```
.MSHFlexGrid1.Move MARGIN_SIZE, _
    MARGIN_SIZE, _
    sngScaleWidth - (2 * MARGIN_SIZE), _
    sngButtonTop - (2 * MARGIN_SIZE)
```

```
End With
Exit Sub
```

```
Form_Resize_Error:
' avoid error on negative values
Resume Next
```

```
End Sub
Private Sub cmdClose_Click()
```

```
    Unload Me
```

```
End Sub
```

```
Private Sub Form_Unload(Cancel As Integer)
    Screen.MousePointer = vbDefault
End Sub
```

```
Private Sub datPrimaryRS_Error(ByVal ErrorNumber As Long, Description As
String, ByVal Scode As Long, ByVal Source As String, ByVal HelpFile As String,
ByVal HelpContext As Long, fCancelDisplay As Boolean)
' This is where you would put error handling code
' If you want to ignore errors, comment out the next line
' If you want to trap them, add code here to handle them
    MsgBox "Data error event hit err:" & Description
End Sub
```

```
Private Sub datPrimaryRS_MoveComplete(ByVal adReason As
ADODB.EventReasonEnum, ByVal pError As ADODB.Error, adStatus As
ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
' This will display the current record position for this recordset
    datPrimaryRS.Caption = "Record: " &
CStr(datPrimaryRS.Recordset.AbsolutePosition)
End Sub
```

```
Private Sub datPrimaryRS_WillChangeRecord(ByVal adReason As
ADODB.EventReasonEnum, ByVal cRecords As Long, adStatus As
ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
'This is where you put validation code
'This event gets called when the following actions occur
Dim bCancel As Boolean
```

```
    Select Case adReason
    Case adRsnAddNew
    Case adRsnClose
    Case adRsnDelete
    Case adRsnFirstChange
    Case adRsnMove
    Case adRsnRequery
    Case adRsnResynch
    Case adRsnUndoAddNew
    Case adRsnUndoDelete
    Case adRsnUndoUpdate
    Case adRsnUpdate
    End Select
```

```
    If bCancel Then adStatus = adStatusCancel
End Sub
```

```
Private Sub cmdAdd_Click()
    On Error GoTo AddErr
    datPrimaryRS.Recordset.MoveFirst
    Exit Sub
AddErr:
    MsgBox Err.Description
End Sub
```

```
Private Sub cmdDelete_Click()
    On Error GoTo DeleteErr
    With datPrimaryRS.Recordset
        .Delete
        .MoveNext
        If .EOF Then .MoveLast
    End With
    Exit Sub
DeleteErr:
    MsgBox Err.Description
End Sub
```

```
Private Sub cmdRefresh_Click()
```

```

' This is only needed for multi user apps
On Error GoTo RefreshErr
datPrimaryRS.Recordset.MoveNext
Exit Sub
RefreshErr:
MsgBox Err.Description
End Sub

Private Sub cmdUpdate_Click()
On Error GoTo UpdateErr
datPrimaryRS.Recordset.MoveLast
Exit Sub
UpdateErr:
MsgBox Err.Description
End Sub

Private Sub cmdClose_Click()
Unload Me
End Sub

Option Explicit

' The in-memory database of tips.
Dim Tips As New Collection

' Name of tips file
Const TIP_FILE = "c:\my documents\TIPOFDAY.TXT"

' Index in collection of tip currently being displayed.
Dim CurrentTip As Long

Private Sub DoNextTip()

' Select a tip at random.
CurrentTip = Int((Tips.Count * Rnd) + 1)

' Or, you could cycle through the Tips in order

' CurrentTip = CurrentTip + 1
' If Tips.Count < CurrentTip Then
' CurrentTip = 1
' End If

' Show it.
frmTip.DisplayCurrentTip

```

**End Sub**

**Function LoadTips(sFile As String) As Boolean**

**Dim NextTip As String ' Each tip read in from file.**

**Dim InFile As Integer ' Descriptor for file.**

**' Obtain the next free file descriptor.**

**InFile = FreeFile**

**' Make sure a file is specified.**

**If sFile = "" Then**

**LoadTips = False**

**Exit Function**

**End If**

**' Make sure the file exists before trying to open it.**

**If Dir(sFile) = "" Then**

**LoadTips = False**

**Exit Function**

**End If**

**' Read the collection from a text file.**

**Open sFile For Input As InFile**

**While Not EOF(InFile)**

**Line Input #InFile, NextTip**

**Tips.Add NextTip**

**Wend**

**Close InFile**

**' Display a tip at random.**

**DoNextTip**

**LoadTips = True**

**End Function**

**Private Sub chkLoadTipsAtStartup\_Click()**

**' save whether or not this form should be displayed at startup**

**SaveSetting App.EXENAME, "Options", "Show Tips at Startup",  
chkLoadTipsAtStartup.Value**

**End Sub**

**Private Sub cmdNextTip\_Click()**

**DoNextTip**

**End Sub**

```
Private Sub cmdOK_Click()  
    Unload Me  
End Sub
```

```
Private Sub Form_Load()  
    Dim ShowAtStartup As Long
```

```
    ' See if we should be shown at startup  
    ShowAtStartup = GetSetting(App.EXENAME, "Options", "Show Tips at  
Startup", 1)
```

```
    If ShowAtStartup = 0 Then  
        Unload Me  
        Exit Sub  
    End If
```

```
    ' Set the checkbox, this will force the value to be written back out to the registry  
    Me.chkLoadTipsAtStartup.Value = vbChecked
```

```
    ' Seed Rnd  
    Randomize
```

```
    ' Read in the tips file and display a tip at random.  
    If LoadTips(App.Path & "\" & TIP_FILE) = False Then  
        lblTipText.Caption = "That the " & TIP_FILE & " file was not found? " &  
vbCrLf & vbCrLf & _  
        "Create a text file named " & TIP_FILE & " using NotePad with 1 tip per  
line. " & _  
        "Then place it in the same directory as the application. "  
    End If
```

```
End Sub
```

```
Public Sub DisplayCurrentTip()  
    If Tips.Count > 0 Then  
        lblTipText.Caption = Tips.item(CurrentTip)  
    End If  
End Sub
```



**VEHICLE LOAN / RE-IMBURSEMENT INFORMATION SYSTEM**

**PROJECT WORK DONE AT**

**HINDUSTAN AERONAUTICS LIMITED,  
CORPORATE OFFICE, BANGALORE.**

**PROJECT REPORT** P-770

**SUBMITTED IN PARTIAL FULFILLMENT OF THE  
REQUIREMENTS FOR THE AWARD OF THE DEGREE OF**

**MASTER OF COMPUTER APPLICATIONS**

**OF BHARATHIAR UNIVERSITY, COIMBATORE**

**SUBMITTED BY**

**C.RAVIKUMAR**

**Reg. No. : 9938M0654**

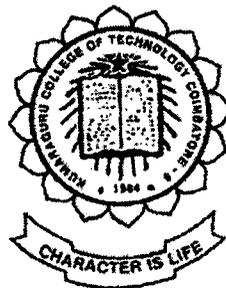
**GUIDED BY**

**EXTERNAL GUIDE**

**MR.B.KRISHNA KUMAR B.E, M.B.A**

**INTERNAL GUIDE**

**MS. P.PARAMESWARI M.C.A**



**Department of Computer Science & Engineering**

**KUMARAGURU COLLEGE OF TECHNOLOGY**

**Coimbatore – 641 006**

**MAY 2002**

Department of Computer Science and Engineering  
**KUMARAGURU COLLEGE OF TECHNOLOGY**  
( Affiliated to Bharathiar University)  
Coimbatore – 641 006

**CERTIFICATE**

This is to certify that the project work entitled  
“VEHICLE LOAN / RE-IMBURSEMENT INFORMATION SYSTEM”

Done By

C. Ravi Kumar  
Reg. No: 9938M0654

Submitted in partial fulfillment of the requirements for the award of the  
degree of

Master of Computer Applications of Bharathiar University.

S. Jeyaraj 30/6/02  
Professor and Head

A. Anand  
Internal Guide

Submitted to University Examination held on 16-05-2002

G. M. S. 10/5/02  
Internal Examiner

B. R. S.  
External Examiner



हिन्दुस्तान एरोनाटिक्स लिमिटेड  
HINDUSTAN AERONAUTICS LTD.  
कारपोरेट आफिस  
Corporate Office

4<sup>th</sup> April 2002

## CERTIFICATE

This is to certify that the project entitled **VEHICLE LOAN / REIMBURSEMENT INFORMATION SYSTEM**, being submitted to the Department of Computer Science, Kumaraguru College Of Technology, Coimbatore , by **C.Ravikumar** in partial fulfillment of the requirement for the award of **Master of Computer Applications**, is a bonafide work carried at **Hindustan Aeronautics Limited, Corporate Office Bangalore** from Dec -2001 to Mar- 2002 under our guidance.

**Mr. G. Prasanna,**  
Dy. General Manager(M.S. & Comp.),  
Management Services Department,  
HAL Corporate Office,  
Bangalore – 560 001

B. Krishna Kumar  
4/4/02

**Mr. B. Krishna Kumar,**  
Sr. Manager(Computers),  
Management Services Department,  
HAL Corporate Office,  
Bangalore – 560 001

15/1, कब्बन रोड, बेंगलूर/Cubbon Road, Bangalore - 560 001.

फोन/Phone : Off. : 2866701, 2866902-908, 2864637, 2864639 - 643 फैक्स/Fax : 91-80-2867533 / 2868758

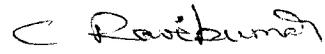
टेलेक्स/Telex : 0845-2266 गार : एच ए एल बेंगलूर Grams : HAL Bangalore

## DECLARATION

I hereby declare that the project entitled "*VEHICLE LOAN / RE-IMBURSEMENT INFORMATION SYSTEM*" submitted to Bharathiar University as the project work of Master Of Computer Application Degree, is a record of original work done by me under the supervision and guidance of **Mr.B.Krishna Kumar B.E, MBA**, Senior Manager (Computers), Hindustan Aeronautics Limited, Corporate Office, Bangalore and **Ms.P.Parameswari MCA**, Lecturer, Department of Computer Science and Engineering, Kumaraguru College Of Technology, Coimbatore and this project work has not found the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or similar title to any candidate of any University.

Place:

Date:



(C.Ravi Kumar)

Reg. No.: 9938M0654

Countersigned By

(Internal Guide)

## **ACKNOWLEDGEMENT**

First of all, I thank the almighty God and my parents.

I express my profound respect and sincere gratitude to **Dr. K.K. Padmanaban Ph.D**, Principal, Kumaraguru College of Technology, Coimbatore, for his kind co-operation in allowing me to take up this project work.

I record my sincere thanks to **Dr. S. Thangasamy Ph.D**, Head of the Department, Computer Science and Engineering, Kumaraguru College of Technology, for allowing me to take up the project at **Hindustan Aeronautics Limited, Bangalore**.

I am greatly privileged to express my deep gratitude to my guide **Ms. Parameswari MCA**, Dept of Computer Science and Engineering, Kumaraguru College of Technology, for her valuable advice and encouragement.

I would like to thank **Mr. G. Prasanna, Dy. General Manager (M.S. & Comp.)**, **Hindustan Aeronautics Limited, Bangalore** for giving me an opportunity to undertake this project.

My special and heartfelt thanks to my beloved guide **Mr. B. Krishna Kumar, Sr. Manager (Computers)**, **Hindustan Aeronautics Limited, Bangalore**. It is he who has shown me the path of creativity and he was more than a guide.

Next, my sincere thanks to all the Staffs of MSD who were kind enough to support me with all necessary support and all other needs.

## **SYNOPSIS**

The Objective of the project entitled Vehicle Loan / Re-imburement Information System is to develop a software which provides for data entry with all the required checks build in, generation of statistical and analytical reports of the employees working in Hindustan Aeronautics Limited. The aim of this software is to develop an interactive system that can be used by various departments with more efficiency and with more accuracy

The project has three Modules:

### **I. Interest Subsidy Scheme:**

This Scheme is valid to grade officers who are having the grade from 1 to 12.

### **II. Employee Loan Scheme:**

This Scheme is valid to employees who are having the grade from 21 to 33.

### **III. Re-imburement Scheme:**

This scheme is valid to the officers who are having the vehicles already and not interested in buying new vehicles.

To maintain the data the advanced database Oracle 8i is used and software is being developed using the powerful front - end Visual Basic 6. The Software that is being created is user friendly with all the necessary checks build in.

<b>CONTENTS</b>	<b>PAGE NO.</b>
<b>1. INTRODUCTION</b>	
1.1 PROJECT OVERVIEW	1
1.2 ORGANISATION PROFILE	2
<b>2. SYSTEM STUDY &amp; ANALYSIS</b>	
2.1 EXISTING SYSTEM	5
2.2 PROPOSED SYSTEM	6
<b>3. PROGRAMMING ENVIRONMENT</b>	
3.1 HARDWARE CONFIGURATION	10
3.2 DESCRIPTION OF SOFTWARES & TOOLS USED	11
<b>4. SYSTEM STUDY &amp; DEVELOPMENT</b>	
4.1 INPUT DESIGN	14
4.2 OUTPUT DESIGN	16
4.3 DATABASE DESIGN	17
4.4 PROCESS DESIGN	23
<b>5. SYSTEM IMPLEMENTATION</b>	
5.1 SYSTEM IMPLEMENTATION	26
5.2 SYSTEM TESTING	28
<b>6. CONCLUSION</b>	32
<b>BIBLIOGRAPHY</b>	33
<b>APPENDICES</b>	34
A. SCREEN LAYOUTS	
B. SAMPLE REPORTS	

# 1. INTRODUCTION

## 1.1 PROJECT OVERVIEW

The project has three Modules:

### **I. Interest Subsidy Scheme:**

This Scheme is valid to grade officers who are having the grade from 1 To 12. They can get Loan from other resources .The company gives subsidy amount according to the officer's grade and type of vehicle.

### **II. Employee Loan Scheme:**

This Scheme is valid to employees who are having the grade from 21 to 33. The company gives advance amount from its own fund according to the employee's type of vehicle.

### **III. Re-imburement Scheme:**

This scheme is valid to the officers who are having the vehicles already and not interested in buying new vehicles. For these employees, The Company gives allowance according to the grade and type of vehicle.

To maintain the data the advanced database Oracle 8i is used and software is being developed using the powerful front - end Visual Basic 6. The Software that is being created is user friendly with all the necessary checks build in.

## **1.2 ORGANISATION PROFILE**

### **HISTORY OF H.A.L.GROWTH**

Late Shri set up Hindustan Aeronautics Limited. Walchand Hirachand in December 1940, in association with Government of Mysore. The company was registered on 23<sup>rd</sup> December 1940 as a private company. It was concentrated on the repair and overhaul of military aircraft and engines to support Second World War efforts.

To fulfill the fresh mandate of post independent India, the mission of the company has been redefined as

“To become a globally competitive aerospace industry, while working as an instrument for achieving self reliance in design, manufacture and maintenance of aerospace defense equipment and diversifying to related areas, managing the business on commercial lines in a climate of growing professional competence.”

The Company installed machines and runway and commenced production with the aim of manufacturing

1. HARLOW TRAINER
2. CURTIS HAWK FIGHTER
3. VULTEE BOMBER

In collaboration with INTER \_CONTINENTAL AIR CRAFT COMPANY OF U.S.A.

The Government took over the management of H.A.L .in 1945, after Second World War. The activities became

- Reconditioning and Conversion of war supplies.
- Introduction of Dacota for use by civil operations,
- Reconditioning of fighters and bombers for the I.A.F

## **ORGANISATION OF H.A.L**

The H.A.L. is organized into four major complexes. Under each complex several divisions are grouped depending upon its function. They are

### **BANGALORE COMPLEX**

Aircraft,  
Engine,  
IMGT (Industrial Marine Research & Development Center),  
ETBEDC (Engine Test Bed Research & Development Center),  
Overhaul,  
Barrakpore Division,  
  
Foundry & Forge and  
Aerospace Division.

### **MIG COMPLEX**

Nasik and  
  
Koraput Division.

### **ACCESSORIES COMPLEX**

Hyderabad,  
Lucknow,  
Korwa and  
Kanpur Division

## **DESIGN COMPLEX**

Helicopter Design Bureau

Aircrafts Research & Development Center and  
Rotary Wing Research & Development Center.

In six decades H.A.L. has spread its wings to cover various activities in the area of design, Development, Manufacture and Maintenance.

### **The core business of H.A.L. include**

1. Design and development of fixed and rotary wing aircraft, Avionics and Accessories.
2. Manufacture, maintenance, repair, and overhaul of :
  - Fighter, Transport and Trainer aircraft
  - Helicopters
  - Aero-Engines
  - Avionics
  - Accessories
  - Ground support equipment
3. Manufacture of structural components for satellites and launch vehicles
4. Software development and Maintenance
5. Design consultancy

## **FUNCTIONS OF CORPORATE OFFICE**

- To develop policy matters for the effective functioning of the company.
- To direct the growth and future development plans of the company.
- To act as a single point contact for the liaisoning with external agencies such a Indian Air Force, Military etc.,

## **2. SYSTEM STUDY AND ANALYSIS**

### **2.1 EXISTING SYSTEM**

The **Vehicle Loan / Re-imbusement Information System** is developed with a view to provide a user friendly atmosphere in which the staff of the P&A department can perform operations on the vehicle database and can provide a statistical and analytical report of employees working in **HAL - Corporate Office**.

The existing system now in **H.A.L Corporate Office** was developed in C, UNIFY (RDBMS) on the Sco - Unix platform (Old -Version).UNIFY (RDBMS) is presently out of the market. So now its maintenance is a major head - ache. The Company has currently implemented a Novell Netware Server and had discontinued with the present Unix server. As a part of the migration plans of the HAL Corporate Office, all the projects currently in the Unix platform are being ported to Novell platform. Moreover, the Unix system presently at work has a character - based Interface and it does not provide a GUI interface to the user. HAL Corporate Office has been planning to build an intra - net and it has a LAN with around 125 PC's connected to it. Hence it was decided to shift to the Novell platform where this networking facility is available with the presentable and user-friendly front - end VB and powerful Back end Oracle. Using this, they can provide information to the concerned persons through the Intra - net.

#### **Procedures Currently In Place**

##### **Data Entry:**

As a part of the standard MIS, Corporate Office of HAL receives data from the employees with checking some conditions.

##### **Date Storage:**

After the data entry, data were stored in the vehicle database.

## **2.2 PROPOSED SYSTEM**

The proposed system is going to be implemented on Novell platform with VB6 as the front end that provides GUI features and MS - ACCESS as the back end data storage. The user can perform any operation, retrieve or provide the required information at his fingertips on the click of a mouse, which was impossible using the existing system.

**The Project is implemented in three Modules,**

1. Interest Subsidy Scheme
2. Employee Loan Scheme
3. Re – imbursement Scheme

### **Module I**

#### **1. Interest Subsidy Scheme**

##### **1.1 Design Issues**

The design of this Interest subsidy scheme module includes various options, which are the operations that have to be performed on any database such as adding new records, modifying the existing records, enquiring about records, and deleting unwanted records.

In this Module, two tables are used. One is for storing interest subsidy master data and another is for storing subsidy payment for each employee who is included in interest subsidy master table.

## 1.2 Algorithms

### . Addition

Step 1: Input the Badge Number, Vehicle Type and so on.

Step 2: Process the Input data with some conditions and

This Scheme is valid only once.

So don't allow entering duplicate record.

Step 3: Check all the entries made correctly or not.

Step 4: If it is correct then add to ismaster table.

### Modification

Step 1: Input Badge Number of the employee.

Step 2: Traverse through the database

Step 3: Select and display the selected record.

Step 4: Make the required Modification.

Step 5: Save the modified data into the database.

### Inquire

Step 1: Input Badge Number of the employee.

Step 2: Traverse through the database.

Step 3: If the key value of Badge Number is present then

Select and display all information about that  
particular badge number.

Else

Display the error message.

## **Deletion**

Step 1: Input the Badge Number of the employee.

Step 2: Traverse through the database

Step 3: Select the specified record.

Step 4: Remove it from the database after the confirmation from the user.

Here one more form is used for subsidy payment calculation.

These Subsidy Payments are stored in spmaster table.

## **Module II**

### **Employee Loan Scheme**

In this module, One table is used for storing the application forms of the employees. That is who are applied for the advance.

After received the applications, they are processed with some conditions like, who are applied for the first time, second time and so on. Depending upon the funds, Applications are sanctioned. The sanctioned applications are stored in vlmaster database and rejected applications are stored in vreject database.

Then the data from the vlapplication are removed.

The remaining operations are the same as module I. That is Addition, Modification, Deletion and Inquire.

## **Module III**

### **Re – Imbursement Scheme**

In this module, one table is used for storing the option from employee whether he is interested in getting the allowance or reimbursement and another table maintains the data that are applied for the reimbursement option.

### **Conclusion**

These newly designed modules are easy to handle. The user can enter the data with ease as the provision of tab key or enter key has been provided to automatically switch between fields. As all the validations and checks are built-in there is hardly any chance for invalid or missing entries. As it is necessary to keep the information intact, utmost care has been taken in the design of the database

### **3. PROGRAMMING ENVIRONMENT**

#### **3.1 HARDWARE CONFIGURATION**

RAM	128 MB
HARD DISC	20 GB
PROCESSOR	Intel Pentium III 833 MHz.
CLOCK SPEED	133 MHz.
TERMINAL	VGA/EGA Monitor
PRINTER	Epson FX 100 (Line Printer)
NETWORKING	Novell Netware 5.0

## **3.2 DESCRIPTION OF SOFTWARE AND TOOLS USED**

### **Introduction To VB 6.0:**

Visual Basic is a High-level language that allows us to create several windows applications easily. It comes in three editions.

- The Learning Edition
- The Professional Edition
- The Enterprise Edition

Depending upon the users application one of the edition is used. Visual Basic provides advanced features such as tools to develop ActiveX and Internet Controls. It also lets the programmers to build distributed application in team environment. VB is a strong front-end tool for Database applications.

### **Tools And Controls Used In This Project:**

#### **Form Designer:**

It is the main window in the middle of the screen that lets us to design and edit the application user interface. The Form designer displays two windows for each form. The form itself (the elements of the VUI) and a code window (the code behind the elements of the form).

#### **Multiple Document Interface (MDI):**

It is designed to simplify the exchange of information among the documents all under the same roof. The MDI form can't be duplicated but it acts as a container for all other windows & it's called the parent window and the other windows called the child windows. Here in this project one MDI form is used.

## **ActiveX Data Objects:**

ADO provides a minimum number of layers between the front-end application and the data source to provide a high performance interface. It gives a greater control over how an application interacts with the data source and enables us to create more powerful and flexible applications than ADODC. An application trying to access data from a database using ADO involves the creation of three objects- Connection, Command and Record Set.

## **Label:**

This control displays text on the form that the user cannot edit and is mainly used to identify other controls.

## **Text Box:**

It is a mini text editor that a user can edit.

## **Frame:**

This is used to group other controls.

## **Command Button:**

It represents an action that the user carried out when clicks on it.

## **List Box:**

It allows a user to choose an item from a list of items.

## **Option Button:**

Option button provides a set of choices from which a user can select only one button by clicking it at run time.

## **Menu:**

This offers a convenient and consistent way to group commands and an easy way for users to access them.

### **Common Dialog Control:**

This is a custom control that displays the commonly used dialog boxes such as Save As, Color, Font, Print and File open.

### **Tools Used In This Project:**

#### **SQL\*Plus:**

SQL\*Plus is a structured query language supported by Oracle. Through SQL\*Plus we can store, retrieve, edit, enter and run SQL commands and PL/SQL blocks. Using SQL\*Plus we can perform calculations, list column definitions for any table and can also format query results in the form of a report.

## 4. SYSTEM DESIGN AND DEVELOPMENT

### 4.1 INPUT DESIGN

The input design is the important phase in the design of software because the design for handling input data specifies how data are accepted for computer processing. Generally the computer System has intensive interaction with the outside world; mostly this interaction takes place through visual terminals such as monitors. So while developing a software system we have to take care of efficient development of interactive input design. The main objective of our input design is it should be interactive and user friendly.

The quality of input system determines the quality of the system output. Input design features can ensure the reliability of the system and produce results from accurate data.

The Input Design focus on

- Effectiveness - Input forms of screens serve specific purpose
- Accuracy - Design that assures proper completion
- Easy to use - The forms of the screens are straightforward

and required no extra time to understand.

- Simplicity - This refers to keeping the forms and screen simple and understandable

Besides knowing what to enter, what should not be entered is equally important. Input design ensures that our software perfectly performs various validations and constant options are filled only with the help of popup selections.

## Validation

This is the important factor in input design. The input data is the main source of the system, so proper validation for input data is needed in both field level and form level these are accomplished in our software by including appropriate validation procedures.

Data validation ensures that every value that the user enters into the application is accurate. Visual basic provides two data validation methods:

- Form Level Validation takes place after a user has filled in all fields in the form.
- Field Level Validation takes place as each field on a form is filled in.

When the user types the invalid data into fields on your form, you should provide an audio and/or visual notification of the invalid data entry. With either form level or Field level validation, you should always set focus back to the field that contains invalid data.

## 4.2 OUTPUT DESIGN

### **Characteristics of the output system:**

- Fit for user needs - The output will produce what the user needs.
- The output should abstract the complexity of the system.
- The output should be accurate and easy to understand.
- Output should be properly formatted.

## 4.3 DATABASE DESIGN

### SCHEME TABLES

#### Loan Scheme

##### Vlscheme

SI_No	Name	Type	Width	Description
1	Vlgrd	Number		Grade / Group
2	Vlyear	Number		Year End March
3	Vlvtype	Number		Vehicle Type
4	Vlloan	Number		Advance Amount
5	Vlnoi	Number		No of Installments

#### Interest Subsidy Scheme

##### Isscheme

SI_No	Name	Type	Width	Description
1	Issgrd	Number		Grade / Group
2	Issyear	Number		Year End March
3	Issvtype	Number		Vehicle Type
4	Isssub	Number		Sub/10000/month
5	Issceil	Number		Ceiling amount

### CODE TABLES

#### Insurance Codes

##### Inscodes

SI No	Name	Type	Width	Description
1	Inscore	Number		Insurance Code
2	Inname	Text	25	Insurance Name

### Vehicle Type Codes

#### Vtpcodes

Sl_No	Name	Type	Width	Description
1	vtpcode	Number		Vehicle Type Code
2	vtpname	Text	20	Vehicle Type Name

### Loan Budget

#### Vlbudget

Sl_No	Name	Type	Width	Description
1	Vlbyear	Number		Year End March
2	Vlbamt	Number		Total Budget Amount

### MASTER TABLES

#### Re-imbusement Master

##### C\_rmst

Sl_No	Name	Type	Width	Description
1	Crpbno	Text	10	Badge Number
2	Crslno	Number		Serial Number
3	Crfrdate	Date/Time		From Date
4	Crtodate	Date/Time		To Date
5	Croption	Text	1	Option (A/R)

## Vehicle Loan Master

### Vlmaster

Sl No	Name	Type	Width	Description
1	Vlmpbno	Text	10	Badge Number
2	Vlmslno	Number		Serial Number
3	Vlmyear	Number		Year Ending March
4	Vlmvtype	Number		Vehicle type
5	Vlmadamnt	Number		Advance Amount
6	Vlmsurety	Text	10	Badge Number of Surety
7	Vlmnoi	Number		No Of Installments
8	Vlmsdate	Date		Date Of Sanction
9	Vlmddate	Date		Date Of drawl Of Advance
10	Vlmon	Text	1	Old / New Vehicle
11	Vlmpname	Text	25	If Old, Name From Whom Purchased
12	Vlmregno	Text		Registration Number
13	Vlmmodel	Text	25	Vehicle Model
14	Vlmymom	Number		Year Of Manufacturing
15	Vlmvcost	Number		Cost Of Vehicle
16	Vlmmname	Text	25	Manufacturer Name
17	Vlmitype	Number		Insurance Type
18	Vlmicname	Text	50	Insurance Company Name
19	Vlmedins	Date/Time		Expiry Date Of Insurance
20	Vlmcldate	Date/Time		Date of Closure of Loan
21	Vlmnot	Number		No of times Advance taken earlier
22	Vlmflag	Number		Flag of Printing

## Vehicle Loan Master

### Vlreject

Sl No	Name	Type	Width	Description
1	Vlrpbno	Text	10	Badge Number
2	Vlrslno	Number		Serial Number
3	Vlryear	Number		Year Ending March
4	Vlrvtype	Number		Vehicle type
5	Vlradamt	Number		Advance Amount
6	Vlrsurety	Text	10	Badge Number of Surety
7	Vlrnoi	Number		No Of Installments
8	Vlrdate	Date		Date Of Sanction
9	Vlrddate	Date		Date Of drawl Of Advance
10	Vlron	Text	1	Old / New Vehicle
11	Vlrpname	Text	25	If Old, Name From Whom Purchased
12	Vlrregno	Text		Registration Number
13	Vlrmodel	Text	25	Vehicle Model
14	Vlryom	Number		Year Of Manufacturing
15	Vlrvcost	Number		Cost Of Vehicle
16	Vlrmname	Text	25	Manufacturer Name
17	Vlritype	Number		Insurance Type
18	Vlricname	Text	50	Insurance Company Name
19	Vlredins	Date/Time		Expiry Date Of Insurance
20	Vlrcldate	Date/Time		Date of Closure of Loan
21	Vlrflag	Number		Flag of Printing

**Interest subsidy master****Ismaster**

<b>Sl No</b>	<b>Name</b>	<b>Type</b>	<b>Width</b>	<b>Description</b>
1	Ispbno	Text	10	Badge Number
2	Isvtype	Number		Vehicle Type
3	Ison	Text	1	New/Old Vehicle
4	Ispname	Text	25	If old, name from whom purchased
5	Ismodel	Text	25	Vehicle Model
6	Isyom	Number		Year of Manufacturing
7	Ismname	Text	25	Manufacturer Name
8	Isvcost	Number		Vehicle Cost
9	Isitype	Number		Insurance Type
10	Isicname	Text	50	Insurance Company Name
11	Isedins	Date/Time		Expiry Date Of Insurance
12	Isbname	Text	25	Source Of Loan(Name of institution.)
13	Islamt	Number		Loan Amount
14	Isldate	Date/Time		Loan Drawn Date
15	Isnoi	Number		No of Installments (months)
16	Isemi	Number		Equated Monthly Installment
17	Isfrdate	Date/Time		Date Of Repayment Of First Emi
18	Iscldate	Date/Time		Date of Closure of Loan

## Interest Subsidy Payment Details

### Spmaster

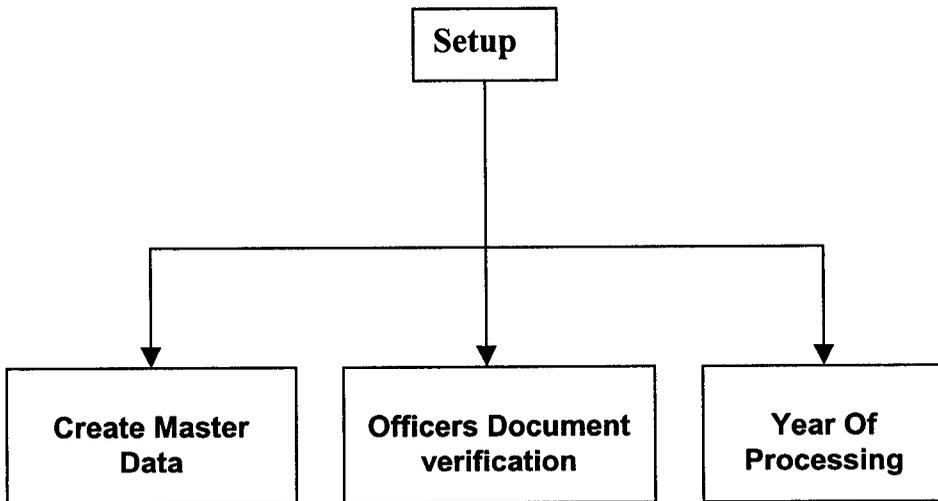
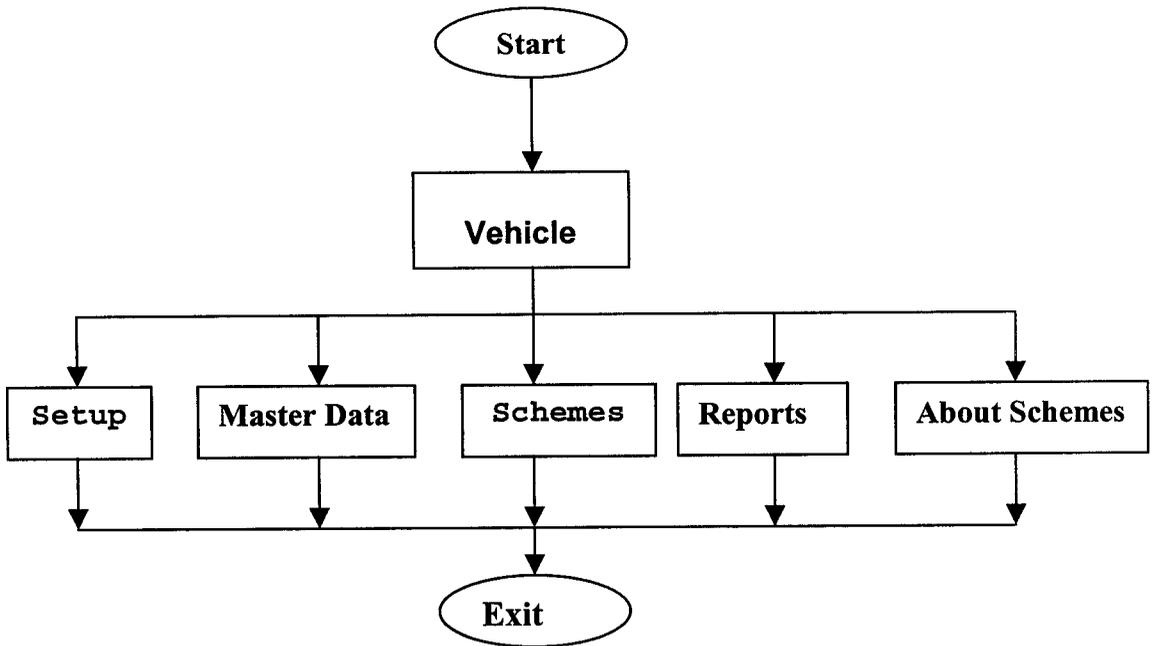
SI_No	Name	Type	Width	Description
1	Sppbno	Text	10	Badge Number
2	Spyear	Number		Year Ending March
3	Spapr	Number		April
4	Spmay	Number		May
5	Spjun	Number		June
6	Spjul	Number		July
7	Spaug	Number		August
8	Spsep	Number		September
9	Spoct	Number		October
10	Spnov	Number		November
11	Spdec	Number		December
12	Spjan	Number		January
13	Spfeb	Number		February
14	Spmar	Number		March

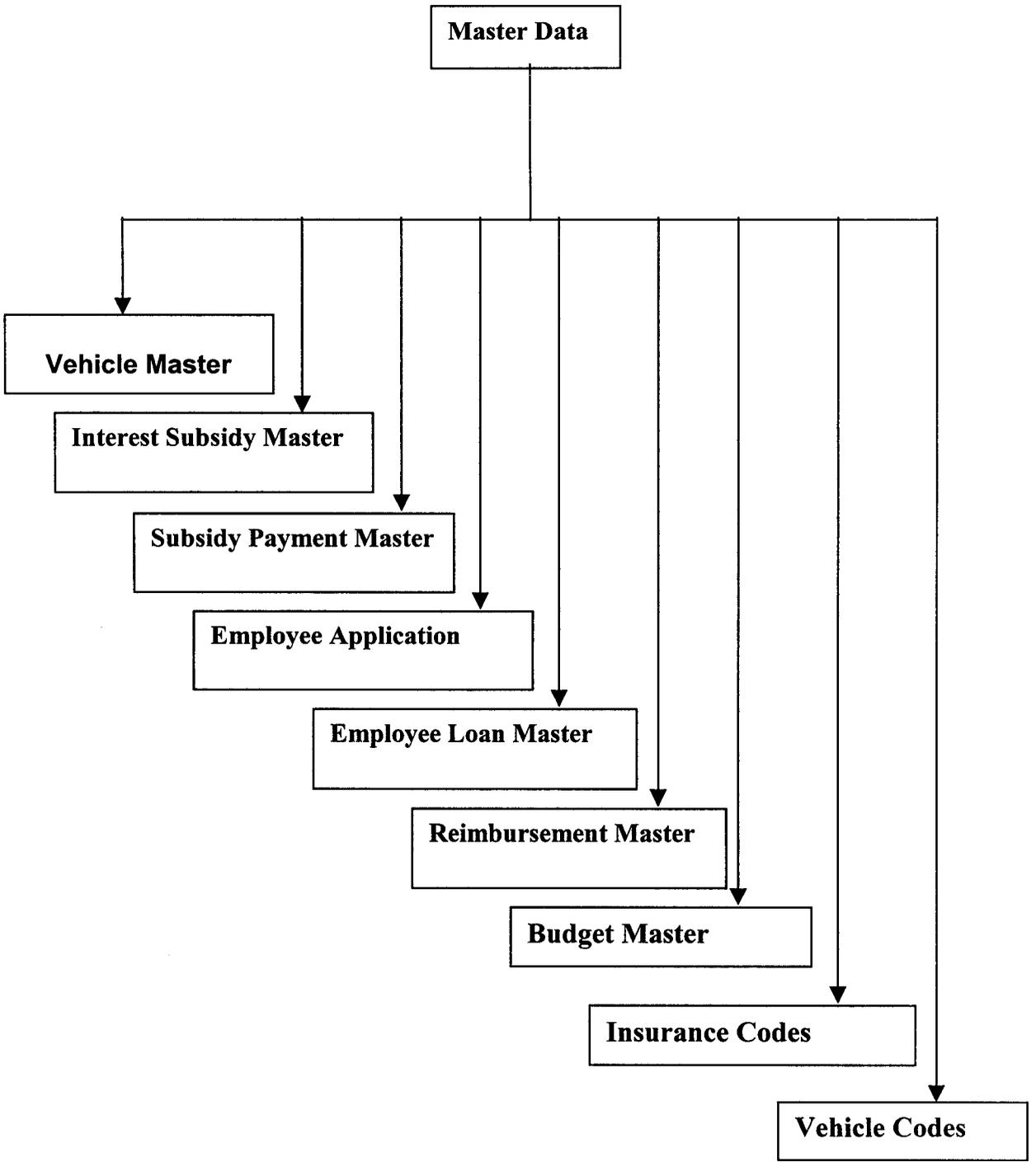
## Vehicle Master

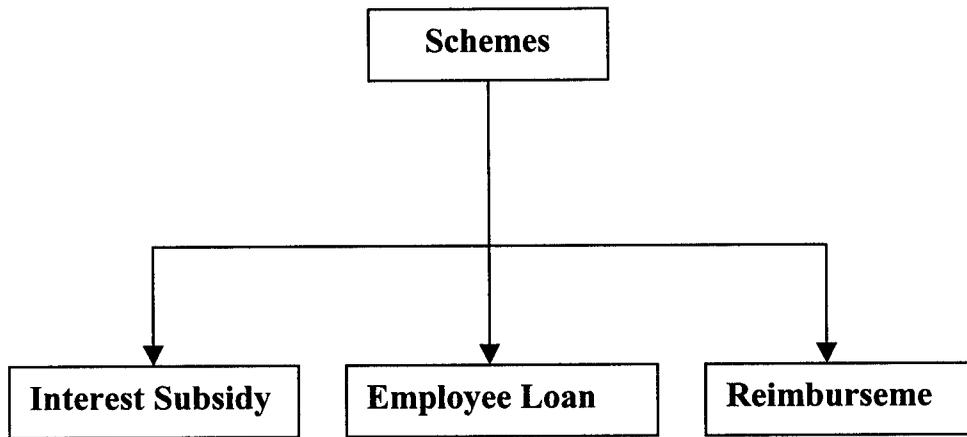
### Vehmst

SI No	Name	Type	Width	Description
1	Vmpbno	Text	10	Badge Number
2	Vmyear	Number		Year Ending March
3	Vmregno	Text		Registration Number
4	Vmtype	Number		Vehicle type
5	Vmmanf	Text	25	Manufacturer Name
6	Vmmodel	Text	25	Vehicle Model
7	Vmyom	Number		Year Of Manufacturing
8	Vmvcost	Number		Cost Of Vehicle
9	Vmitype	Number		Insurance Type
10	Vmedins	Date/Time		Expiry Date Of Insurance
11	Vmicname	Text	50	Insurance Company Name
12	Vmedtax	Date/Time		Expiry Date Of Tax
13	Vmedreg	Date/Time		Expiry Date Of Registration
14	Vmvdate	Date/Time		Verified Date
15	Vmvby	Text	20	Verified By
16	Vmvpby	Number		Flag of Printing

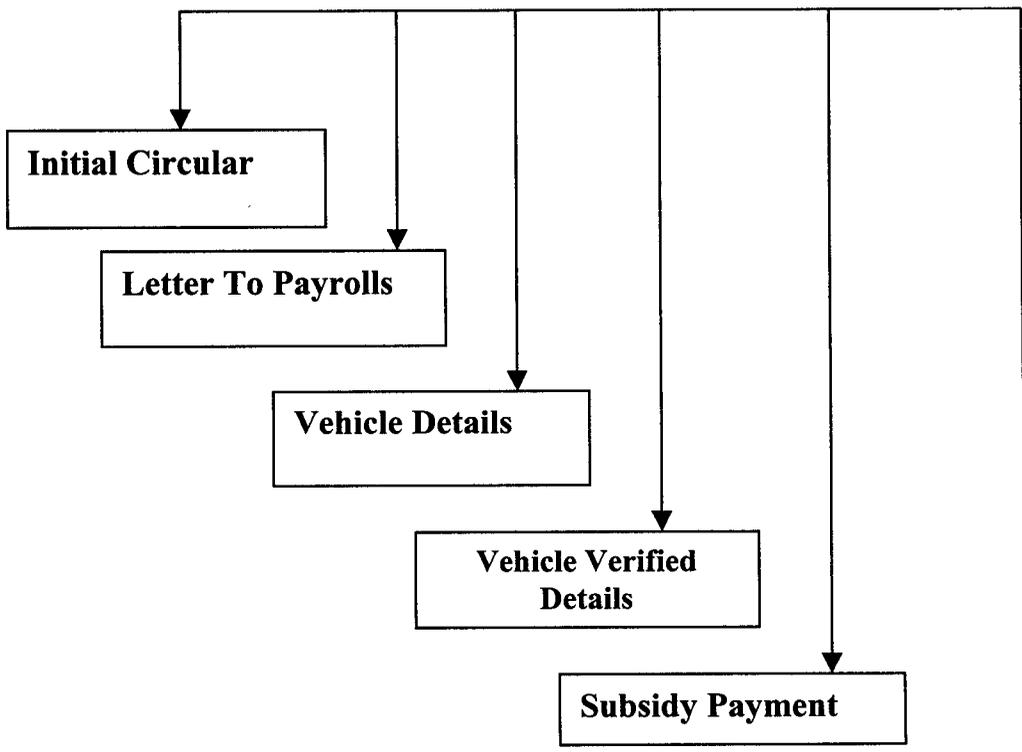
#### 4.4 PROCESS DESIGN







**Reports**



## **5. SYSTEM IMPLEMENTATION AND TESTING**

### **5.1 SYSTEM IMPLEMENTATION**

As a policy every product in the company ready for release undergoes a versioning and release management process. The product is versioned and then implemented in the client location. A complete set of operational documentation, user's manual and guidelines are supplied. Professionals exclusively give user training to a few in the client place from the company.

#### **Implementation Procedures**

The project undergoes a versioning and release management before it is delivered to the client. It is a process of identifying and keeping track of different versions and releases of the system. And the released product usually includes Configuration files defining how the release should be configured for particular installations. Data files needed for successful operations. An Installation Program, which is used to help install the system on the target hardware. Electronic and paper documentation describing the system. All these information are made available on a medium, which can be read and understood by the customer for the software.

The following factors are considered before implementation. Checking if all the components which make up the system been included, if the appropriate version of each required component been included, are the data objects included, etc... An installation program is created and the entire kit is delivered to the client.

#### **User Training**

The kit delivered consists of a complete guide on the new system developed. A through training on the new system is given to a representative

queries from the audience were answered and hints given on various issues. Special training was given to the admin staff that is to play the role of super user. The configuration details and trouble shooting methodologies were explained and his performance absorbed. The user manual was completely explained and doubts cleared for the same. Installing and uninstalling the package and taking a backup of the data were demonstrated to the super user. Various possible exceptions and the possible causes for it from the user's end were explained. The various user environments and the right of access specified to each user was clearly explained and demonstration given to the team on different user environments. Instructions on successful operation of the system and trouble shooting methodologies were thus discussed.

### **Operational Documentation**

Properly produced and maintained system documentation is a tremendous aid to maintenance engineers. The system documentation includes all of the documents describing the implementation of the system from the requirements specification to the final acceptance test plan.

A complete set of Operational Documentation was prepared for the client, who included the features of the system, the access rights allocated for various users and trouble shooting details. The special features of the system were highlighted. A step-by-step procedure was included in the documentation for data entry, report generation and saving reports in text, html or rich text format. The documentation is prepared keeping in mind users who have little or no knowledge of computers.

## **5.2 SYSTEM TESTING**

### **Testing Process**

Except for small software, systems should not be tested as a single, monolithic unit. Large systems are built out of sub-systems, which are built out of sub-systems, which are composed of procedures and functions. The testing process should therefore proceed in stages where testing is carried out incrementally in conjunction with the system implementation.

There are the five test stages and defects are discovered at any stage, they require program modifications to correct them and this may require other stages in the testing process to be repeated. The process therefore is an iterative one with information being fed back from later stages to earlier parts of the process.

The stages in the testing process are:

- Unit Testing
- Module Testing
- Sub-system Testing
- System Testing
- Acceptance testing

### **Unit Testing**

Individual components are tested to ensure that they operate correctly. Each component is tested independently, without other system components. With respect to this project, the individual functions are treated as component and were tested.

### **Module Testing**

A module is a collection of dependent components such as an object class, an abstract data type or some looser collection of procedures and functions. A module encapsulates related components so it can be tested with

## **Sub-system Testing**

This phase involves testing collection of modules, which have been integrated into sub-systems. Sub-systems may be independently designed and implemented. The most common problems that arise in large software system are sub-system interface mismatches. The sub-system test process should therefore concentrate on the detection of interface errors by rigorously exercising these interfaces. Both the modules are treated as a sub-system and tested in this stage.

## **System Testing**

The sub-systems are integrated to make up the entire system. The testing process is concerned with finding errors, which result from unanticipated interactions between sub-system and system components. It is also concerned with validating that the system meets its functional and non-functional. After integration of the above sub-systems with the whole system, the entire system is tested for errors.

## **Acceptance Testing**

This is the final stage in the testing process before the system is accepted for operational use. The system is tested with data supplied by the system procurer rather than simulated data. Acceptance testing may reveal errors and omissions in the system requirements definition because the real data exercises the system in different ways from testing the data. Acceptance testing may also reveal requirement problems were the system facilities do not really meet the users need or the system performance is unacceptable. Test and reveal data were provided to the system and checked for errors

## **Defect Testing**

Defect testing is intended to exercise a system so that latent defects are exposed before the system is delivered. This contrasts with validation testing which is intended to demonstrate that the system meets its requirements. Validation testing requires the system to perform correctly using given acceptance test cases. A successful defect test is a test, which causes a system to perform incorrectly and hence exposes the defects. It demonstrates the presence, not absence of program faults.

Various values, within the limit and exceeding the limit were provided repeatedly to individual components of data acquisition. These brought out the defects in the system and were corrected.

Two approaches to defect testing are:

### **Black-box Testing**

It relies on the specification of the system or component, which is being tested to derive test cases. The system is 'black-box' whose behavior can only be determined by studying its inputs and the related outputs. This is also called as functional testing because mathematical functions can be specified using only inputs and outputs.

Following black-box methods were applied to both the modules to test arrays:

- Usage of only one value of entire array. This proved that the program works for an exceptional array.
- Usage of different arrays of different sizes. This decreased the chances that the program with defect would accidentally produce a correct output because of some characteristic of the

- First, middle and last elements were accessed and any problems due to the boundary effects were delivered.

## **Structural Testing**

This is the complementary approach to black box testing and is sometimes called structural, white-box or glass-box testing. The tester can analyze the code and the use knowledge about the structure of the component to derive test data.

The advantage of structural testing is that an analysis of the code can be used to find how many test cases are needed to guarantee a given level of test coverage. A dynamic analyzer can then be used to measure the extent of this coverage and help with test case design.

## **Path Testing**

Path testing is a white-box testing strategy whose objective is to exercise every independent execution path through the component. If every independent path is executed then all the statements in the program must have been executed at least once. Furthermore, all conditional statements are tested for both true and false cases. This helped to improve the program efficiency with respect to time complexity and memory usage

## **6. CONCLUSION**

The Vehicle Loan / Reimbursement Information System is developed in such a manner that it is user friendly and menu driven. The GUI screens used for data entry make recording of data much flexible. One can easily operate the system, enter, modify, find, traverse and delete whenever he wants and can generate reports with out much knowledge of computer operations. All operations are simplified in such a way that simply simply pressing key/keys carries them out. All tasks regarding the Vehicle Loan / Reimbursement Information System can be carried out with out much effort. Mostly all problems that are present in the existing UNIX system are eliminated.

It is possible to enhance the system in future. This system is developed using a modular approach and also the modules are independent of one another. So, in future additional menus and options can be added with no or less modification to the present system.

## **BIBLIOGRAPHY**

### **BOOKS**

VISUAL BASIC – 6  
In 21 Days

ORACLE 8i  
The Complete Reference  
TMH – Publication

SOFTWARE ENGINEERING  
CONCEPTS  
TMH - Publication

### **AUTHORS**

Nathan Gurewich &  
Ori Gurewich

Ivan Bayross

Richard Fairly

**SCREENS**

---

Vehicle

Setup Master Data Screens Reports Tools Screens Help

## *Vehicle Loan / Re-imbusement Information System*

## VEHICLE MASTER

Creates the new vehicle master file for the year. It reads the database and picks up the previous years data and converts it as the current years master data. The previous year and the current year is generated based on the data in the database and on your confirmation the master data for the current year is generated. This is to be done only once in the beginning of the processing for the year.

Previous Year

Current Year

## Interest Subsidy Master

Pbno

Vehicle Type

New/Old Vehicle

Veh\_model

Manufac\_Year

Manufac\_Name

Vehicle Cost

Insurance Type

Ins\_Comp\_Name

Ins\_Exp\_Date

Loan\_source

Loan\_Amt

Loan Drawn Date

No\_Of\_Instal

EMI

1st Repayment  
Date

Date Of Closure

Add Inq Mod Del Exit

## Loan Scheme

Grade/Group

Year End March

Vehicle Type

Advance Amount

No Of Instalments

Add

Inq

Mod

Del

Exit

## Verification of Vehicle Documents

Letter No.

Date of the Letter

Date Time of Documents Verification

Date

Time

To

To

To

Effective Payrolls Month

Signatory

Submit

Exit

## Vehicle Verified Documents

Enter the Year



 <b>Verified Documents</b>
 <b>Print</b>



 <b>All Verified Documents</b>
 <b>Print</b>



**Exit**

## Class Of Employees Entitled

Class Of Employees Entitled

Application For Advance

Amount Of Advance

Execution Of Agreement

Recovery Of Advance

Rate Of Interest

Exit

Class Of Employees Entitled:

Permanent employees of the company whose pay grade is GS-11 or above, in the 1987 scales of pay and who have completed 10 years of continuous service are eligible to apply for an advance. The advance is available to those employees who are not currently on a leave of absence or on a temporary assignment. The advance is available to those employees who are not currently on a leave of absence or on a temporary assignment.

Applications from officers or employees of the parent department will be considered in conjunction with the parent department. If the parent department agrees to accept responsibility for the advance, the advance will be granted to him from the Company funds. If the parent department does not agree to accept responsibility for the advance, the advance will be granted to him from the Company funds. If the parent department does not agree to accept responsibility for the advance, the advance will be granted to him from the Company funds.

If the parent department does not agree to accept responsibility for the advance, the advance will be granted to him from the Company funds. If the parent department does not agree to accept responsibility for the advance, the advance will be granted to him from the Company funds. If the parent department does not agree to accept responsibility for the advance, the advance will be granted to him from the Company funds.

## Vehicle Loan Applications

### Vehicle Loan Sanctioned Applications

SNO	Name Pbno Grade	Vehicle Type	Loan Amount	Sanction Y/N
1	JAIRAM 88139-05 30	Scooter	9000	Y
2	P KRISHNASWAMY 88244-78 27	Motor Cycle	9000	Y
3	BS SUNANDA	Bi-Cycle	600	Y

