FINANCIAL MANAGEMENT SYSTEM

PROJECT WORK DONE AT
SIMI TEXTILES,
POLLACHI-1

PROJECT REPORT

SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENT FOR THE AWARD OF THE DEGREE OF

M.Sc [APPLIED SCIENCE] SOFTWARE ENGINEERING
OF BHARATHIAR UNIVERSITY, COIMBATORE.

SUBMITTED BY
Sreenath.S
Reg No. **9937S0095**

P-1121

UNDER THE GUIDANCE OF

External Guide

Mr. R.SUNDARAM
SIMI TEXTILES
Pollachi

Internal guide

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KUMARAGURU COLLEGE OF TECHNOLOGY

COIMBATORE – 641 006

NOVEMBER 2003 – MARCH 2004

DECLARATION

I hereby declare that the project entitled "**Financial Management System [FMS]**" submitted to **Bharathiar University**, Coimbatore as the project work of **Master of Science in Software Engineering**, is a record of original work done by me under the supervision and guidance of **Mr.R.Sundram BE, Project Leader, SIMI Textiles Pvt Ltd, Prof.K.R.Baskaran,B.E, M.S ,Asst.Professor & Course Coordinator [Software Engineering]** and **Miss.P.Parameswari M.C.A, Lecturer, Kumaraguru College of Technology**, Coimbatore and this project work has not found the basis of the award of any Degree/Diploma/Associate ship /Fellowship or similar title to any candidate of any university.

Place : Coimbatore

Date : 30-03-2004

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
KUMARAGURU COLLEGE OF TECHNOLOGY
(Affiliated to Bharathiar University)
COIMBATORE – 641 006
NOVEMBER 2003 – MARCH 2004

CERTIFICATE

This is to certify that the project entitled

FINANCIAL MANAGEMENT SYSTEM [FMS]

DONE BY

SREENATH. S
Reg No. **9937S0095**

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

M.Sc [Applied Science] SOFTWARE ENGINEERING
OF BHARATHIAR UNIVERSITY

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Submitted to University Examination held on ..30/03/2004....

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Date :.....

TO WHOMSOEVER IT MAY CONCERN

This is to certify that

Mr S.Sreenath

Undergoing 10th semester M.Sc Software Engineering in Kumaraguru college of technology,Chinnavedampatti has successfully completed the individual project entitled

"FINANCIAL MANAGEMENT SYSTEM"

from the period of November 2003 to March2004 in our concern.As the source code is confidential,the company will not provide the code of the project.

We wish him all the best in his future endeavors.

With Regards.

R.Sundaram
Project Guide
SIMI Textiles (P) Ltd.
Pollachi

ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

I express my profound respect and sincere gratitude to **Dr. K.K.Padmanaban B.Sc.(Engg),M.tech,Ph.D**, *Principal, Kumaraguru College of Technology, Coimbatore,* for providing me an opportunity to undergo the M.Sc [APPLIED SCIENCE SOFTWARE ENGINEERING] course and thereby this project work also.

I record my sincere thanks to **Dr. S.Thangaswamy B.E (Hons), Ph.D.**, *Head of the Department, Computer Science and Engineering, Kumaraguru College of Technology,* for allowing me to take up the project at *Ramco Systems Limited, Chennai.*

It's my privilege to express my deep sense of gratitude and profound thanks to **Mr. S.Satish M.B.A,** *Managing Director, SIMI Textiles, Pollachi,* for having allowed me to carry out the project at their esteemed organization.

Gratitude will find least meaning without a mention to my guide **Mr. R.Sundaram B.E,** P*roject Manager,* and all my associates at SIMI Textiles, *Pollachi,* for all their kind guidance and encouragement towards my project work.

Words are boundless for me to express my deep sense of gratitude and profound thanks to **Mr. K. R. Baskaran B.E,M.S,** *Assistant Professor,* and **Miss. P. Parameswari,M.C.A,** *Lecturer* and all other faculty members of *Department of Computer Science and Engineering, Kumaraguru College of Technology, Coimbatore,* who have guided me with their valuable suggestions and constant motivations during my project work.

Finally, this acknowledgement will not achieve its complete form if I don't remember my parent's sacrifices. Without their constant moral support, motivations and kind encouragements, I could not have channelised my career in the field of Computer Science.

Sreenath. S

PROJECT ABSTRACT

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The objective of this project "***Financial Management System***" is to provide a simple and user-friendly graphical user interface using which any end user in an organization can easily maintain their data and generate reports

The GUI designed in this project is very user friendly and that the user will feel more comfortable in handling the software. It provides with several forms such as Purchase maintenance form, sales order maintenance form, payroll system, bank accounts and report generation. All this modules covered in this project helps the management to make their work done more quickly and get accurate reports.

However all the operations can be done fast and with ease by any end user in the organization, it is not necessary for the end user to remember function to operate this software. But yet he can do everything possible with using this software.

- Payroll system and Tax calculation are also provided in the software.
- Advanced Database administration is the main feature of this software
- Basically the software is of two parts the Front end and the Back end. The Front end is developed using tools like Visual Basic, Microsoft Access provides the back end.

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1.0 INTRODUCTION

1.1 PROJECT OVERVIEW

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- Payroll system and Tax calculation are also provided in the software.
- Advanced Database administration is the main feature of this software
- Basically the software is of two parts the Front end and the Back end. The Front end is developed using tools like Visual Basic, Microsoft Access provides the back end.

1.2 ORGANIZATION PROFILE

"SIMI Textile" was established on the year 1998, its one of the leading company in Pollachi. The company is involved in Yarn Production. The company has five main departments which are Purchase Department, Production Department, Sales Department etc. There are around 300 employees working in the company. There are around 6000 spindles in the company; the company has a very good turnover till the current year. Quality is the main motive of the company.

The company involves in purchase of raw materials from various suppliers and then it carries out the sales. Their sales network is with in the Country. Its an developing company which as planned to open its sales all over the world, the company is making themselves to be placed as international quality, also in this current year the company has planned to apply for ISO certification. Mr. Sathish is the director of the company, who plays a major role in the development of the company.

SYSTEM STUDY AND ANALYSIS

2.0 SYSTEM STUDY & ANALYSIS

2.1 EXISTING SYSTEM

In the existing system, the user has no system to carry out all this operations. All the work has to be done manually which would be a time consuming one. Also the company would be able to have a clear follow up at the time of retrieval of data of a particular employee as because the data would be a rough data.

Drawbacks:

Enormous amount on time consumption for doing this

- Operations are time consuming. Whenever a need for search arises, the process evolves search through the paper records. Searching amount a large number of records is really tedious and time consuming.

- In case of payroll, the user has to provide a huge amount of paper woks to calculate the right salary of the employee, possibilities are there for miscalculation of salary, which would create a huge problem

- Each and every time whenever the user want to access a small amount of data from a table, he has to start from the beginning such as getting connected, and executing the appropriate command on accessing tables.

2.2 PROPOSED SYSTEM

The ***Financial Management System*** is a Visualized system that aims and user friendliness. Hence there are no needs of executing commands. Any sort of work such as purchase order entry, sales order entry, stock maintenance and all other operations related to the software can be easily carried out by clicking.

All the actions involved in accessing the table is made very user friendly, the one who is not familiar with tables will also be able to have a clear vision on using the application. Hence the Financial Management System would be the easiest application for creating and getting reports related to their works carried out

PROGRAMMING ENVIRONMENT

3.0 PROGRAMMING ENVIRONMENT

3.1 HARDWARE CONFIGURATION

SERVER:

Processor	: Pentium III
Speed	: 433 MHZ
Ram	: 128MB
Hard Disk	: 20 GB
Operating System	: Windows 2000
Disk Drives	: 1.44 Floppy Disk Drive, 40 x Compact Disk
Monitor	: 14" Color Monitor

CLIENT:

Processor	: Pentium
Speed	: 400 MHZ
Ram	: 64 MB
Hard Disk	: 10 GB

3.2 DESCRIPTION OF SOFTWARES & TOOLS USED

Front-End : Microsoft Visual Basic 6.0

Back-End : Oracle

MICROSOFT VISUAL BASIC 6.0

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

The "Basic" part refers to the BASIC (Beginners All – Purpose Symbolic Instruction Code) language, a language used by more programmers than any other language, a language used by more programmers than any other language in the history of computing. Visual Basic has evolved from the original BASIC language and now contains several hundred statements, functions, and keywords, many of which relate directly to the windows GUI.

Data access features allow you to create database, front-end applications, and scalable server-side components for most popular database formats.

ActiveX technologies allow you to use the functionality provided by other applications, such as Microsoft Word, Microsoft Excel, and other windows applications.

Internet capabilities make it easy to provide access to documents and applications across the internet or intranet from within your application or to create Internet server applications.

Your finished application is a true .exe file that uses a Visual Basic virtual machine that you can freely distribute.

Event-Driven Model

In traditional or procedural applications, itself controls which portions of code execute and in what sequence. Execution starts with the first line of code and follows a predefined path through the application, calling procedures as needed.

In an event driven application, the code doesn't follow a predetermined path it executes different code sections in response to events. Events can be triggered by the user actions, by message from the system or other applications, or even from the application itself,. The sequence of these events determines the sequence in which the code executes, thus the path through the applications code differs each time the program runs.

Your code can also trigger events during execution. For example programmatically changing the text in a text box cause the text box changes event to occur. This would cause the code contained in the change event to execute. If you assumed that this event would only by triggered by user interaction, you might see unexpected results.

VB SCRIPT

Unlike most other languages VB script allows only one data type: variant .A variant is a variable type that can hold any type of fundamental data type, including integers, floating points, characters, strings and data item values, variant data types may also represent instance of objects.

With variants, we don't have to worry about ensuring that our variable is adequately prepared to handle unexpected data. However, although the variable itself might be able to contain any type of data occur routines will often be required to check for the type of data that is stored in a variable to ensure proper VB script execution. A variable name must begin with an alphabetic character. The remainder of the name may contain any alphanumeric characters, including underscores ("-")

- The length of a variable cannot exceed 255 characters
- Periods may not be embedded in a variable name

4.0 SYSTEM DESIGN

4.1 INPUT DESIGN

Input design is a part of overall system design, which requires very careful attention. If the data going into the system is incorrect then the processing and output will magnify these errors.

About project data's

The inputs in the system are of three types:

- **External:** which are prime inputs for the system
- **Internal:** which are user communications with the system
- **Interactive:** which are inputs entered during a dialog with the computer

The above input types enrich the proposed system with numerous facilities that make it more advantageous in comparison with the existing normal system .All the input entered are completely raw, initially, before being entered into a database, each of them availing processing. The input format in this system has been designed with the following objectives in mind.

Intelligent output design will improve systems relationships with the user and help in decision making. Outputs are also used to provide a permanent hardcopy of the results for latter consultations. The most important reason, which tempts the user to go for a new system is the output. The output generated by the system is often regarded as the criterion for evaluating the usefulness for the system. Here the output requirements use to be predetermined before going to the actual system design. The output design is based on the following

- Determining the various outputs to be presented to the user.
- Differentiating between inputs to be displayed and those to be printed.
- The format for the presentation for the outputs.

4.2 DATABASE DESIGN

The database is a collection of data designed to be use by different people. It's a collection of interrelated data stored together with controlled redundancy to serve one or more applications in an optional fashion. The data is stored in such a fashion that it is independent of the programs of people using the data. A Common and controlled approach is used in adding new data and modifying and retrieving existing data with in database.

TABLES

Table Name : ***Supplier_Master***

Description : This table stores all the details about the suppliers

Field Name	Data Type	Constraint
Supplier_ID	Number(3)	Primary Key
Supplier_Name	VarChar2(15)	
Supplier_Address	VarChar2(25)	
Supplier_Ph_No	Number(8)	
Misc_Info	VarChar2(20)	

Table Name : ***Purchase_Master***

Description : This table stores all the details about the purchase made by the company

Field Name	Data Type	Constraint
Date_Purchase	Date/Time	
Product_Pur	VarChar2(15)	NOT NULL
Quantity_Pur	Number(10)	
Unit_Price	Number(3)	
Total_Value	Number(5)	
Payment_Mode	VarChar2(15)	
Supplier_ID	Number(3)	Foreign Key

Table Name : ***Credit_Pur_Details***

Description : This table stores all the details about the credit purchase made

Field Name	Data Type	Constraint
Cheque/DD No	Number(5)	NOT NULL
Bank	VarChar2(15)	
Date	Date/Time	
Amount	Number(6)	
Ref_ID	Number(3)	Primary Key

Table Name : ***Credit_Details***

Description : This table stores all the credit details to calculate the intrest

Field Name	Data Type	Constraint
Amount_Outstanding	Number(6)	
Due_Date	Date/Time	
Intrest_AsOn	Date/Time	
Intrest	Numbe(3)	

Table Name : ***Sales_Master***

Description : This table stores the sales made by the company

Field Name	Data Type	Constraint
Date_Sales	Date/Time	
Product_Sold	VarChar2(15)	
Quantity_Sold	Number(5)	
Unit_Price	Number(3)	
Total_Value	Number(5)	
Customer_Name	VarChar2(15)	
Cust_Address	VarChar2(15)	
Cust_Phno	Number(8)	
Cust_ID	Number(3)	Primary Key

Table Name : ***Employee_Master***

Description : This table stores the employees details

Field Name	Data Type	Constraint
Emp_Name	VarChar2(15)	
Emp_ID	Number(3)	Primary Key
Emp_Age	Number(2)	
Gender	VarChar2(15)	
Emp_Address	VarChar2(15)	
Date_Join	Date/Time	
Department	VarChar2(15)	
Misc_Info	VarChar2(15)	

Table Name : ***Salary_Master_Per***

Description : This table stores the salary details for permanent employees

Field Name	Data Type	Constraint
Employee_ID	Number(3)	Foreign Key
Emp_Name	VarChar2(15)	
Emp_Desg	VarChar2(15)	
Basic_Pay	Number(3)	
HRA	Number(3)	
DA	Number(3)	
Gross_Pay	Number(3)	
Deduction_Amt	Number(3)	
Date_Pay	Date/Time	

Table Name : ***Salary_Temp***

Description : This table stores all the salary details for temporary employees

Field Name	Data Type	Constraint
Date_Pay	Number(3)	
Wages_Amt	Number(3)	
Emp_Name	VarChar2(15)	
Emp_Temp_ID	Number(3)	Primary Key

Table Name : ***Miscle_Exp_Account***

Description : This table stores all the details of miscellaneous expenses

Field Name	Data Type	Constraint
Date	Date/Time	
Particulars	VarChar2(25)	
Amount	Currency	
Add_Info	Char(30)	

Table Name : ***Machinery_Master***

Description : This table stores the details of the machinery in the company

Field Name	Data Type	Constraint
Machinery_ID	Number(3)	Primary Key
Machine_Cost	Number(6)	
Date_Purchase	Date/Time	
Description	Char(20)	

Table Name : ***Machinery_Exp***

Description : This table stores the details of the expenses meet by a machinery

Field Name	Data Type	Constraint
Machinery_ID	Number(3)	Foreign Key
Part_Replaced	Varchar2(3)	
Service_Charge	Number(3)	
Total_Amount	Number(3)	
Description	Char(20)	
Date	Date/Time	

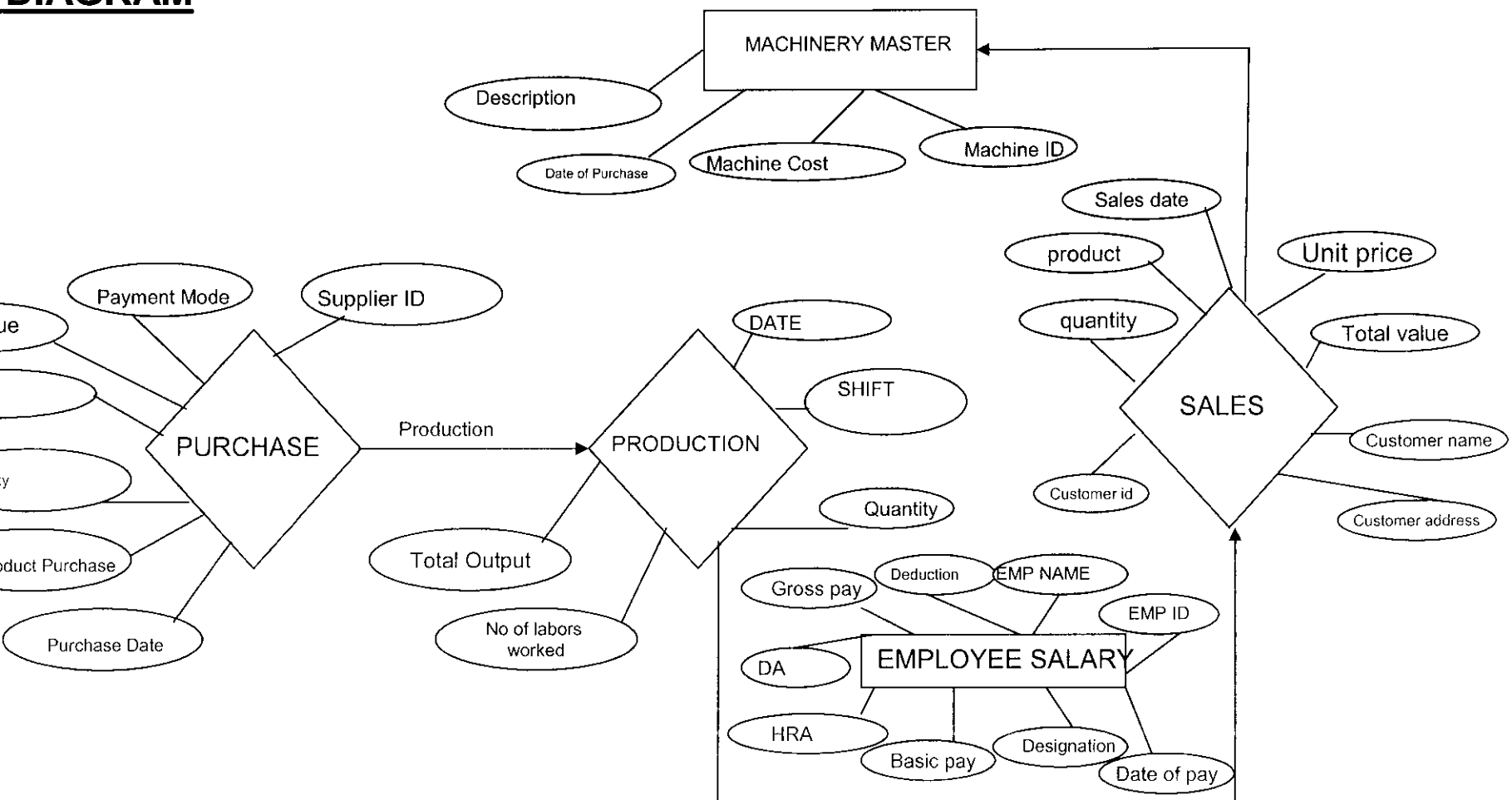
Table Name : ***Production_Master***

Description : This table helps in finding the production cost involved in a machinery

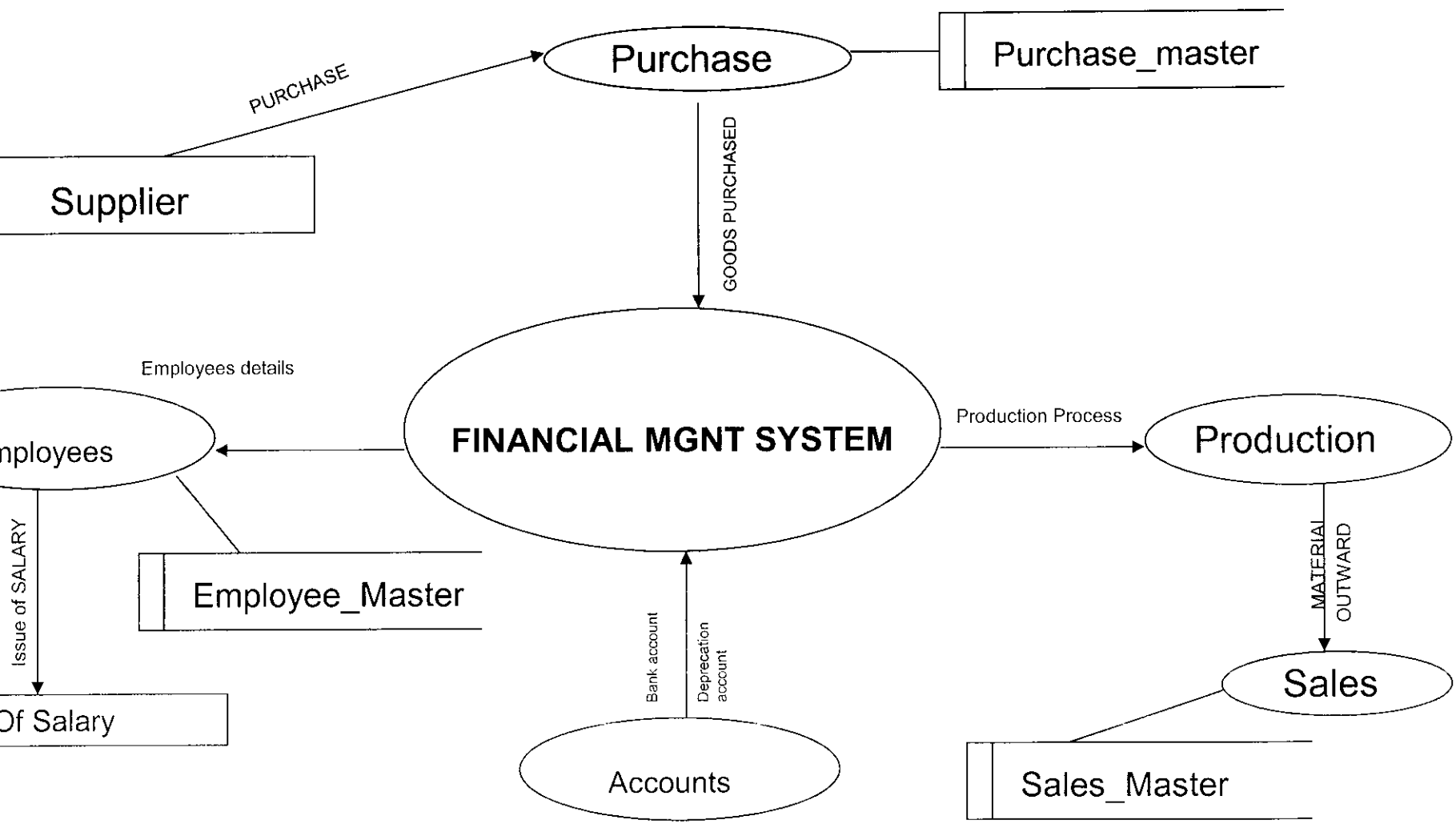
Field Name	Data Type	Constraint
Machinery_ID	Number(3)	Foreign Key
Super_OnDuty	VarChar2(15)	
Start_Time	Date/Time	
End_Time	Date/Time	
Qty_Produced	Number(10)	
No_Employee	Number(3)	
Elec_Unit	Number(4)	
Elec_Cost	Number(3)	

PROCESS DESIGN

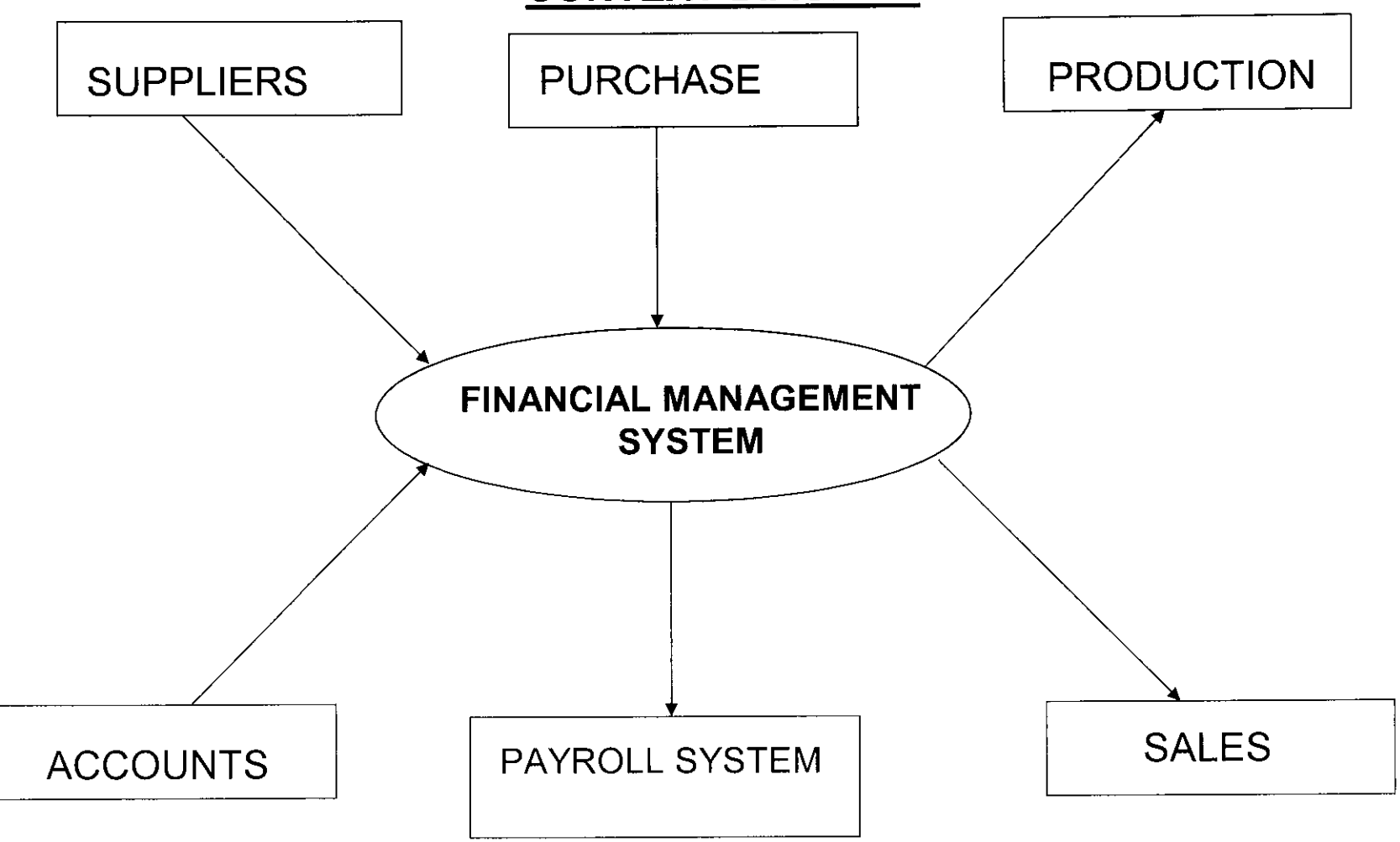
DIAGRAM



DATA FLOW DIAGRAM



CONTEXT DIAGRAM



SYSTEM IMPLEMENTATION

5.0 SYSTEM IMPLEMENTATION & TESTING

5.1 System Implementation

Implementation is that stage of the project when the theoretical design is turned into a working system. At this stage of the main workload, the greatest up heaved and the major impact on the existing practices shifts to the under department. A lot of planning has to go in for the successful implementation of the system.

Bearing in mind that implementation is a project in itself; care was taken to develop an effective methodology for implementing the system. The major steps that were carried out in these stages are summarized below:

- Training was given to the user of the system both theoretically as well as practically. They were briefed on the lines on the objectives of the system, how to operate if and the benefits that would be reaped from the system.
- The system as tested in the user's environment and the user was prompted to give his suggestions.
- Existing data's was converted into file structures compatible to the system.
- The strategy used changeover of the system was parallel changeover. The manual system was run parallel along with the automated system to test the validity of the system.

Maintenance issues

Maintenance is the ease with which a program can be corrected if any error is encountered, adapted if its environment changes or enhanced if the customer desires a change in requirements.

The software is characterized by the following activities. In this project considerable amount of time is spent in maintenance and monitoring.

1. **Corrective maintenance.**
2. **Adaptive maintenance.**
3. **Perfective maintenance.**
4. **Preventive maintenance.**

Corrective maintenance

Corrective maintenance is to uncover the error still exist after testing. During this maintenance work the user is asked to work on the system and if any error is reported.

Adaptive maintenance

The adaptive maintenance is needed if the platform or the environment of the project is to be change. For the project the language takes care of all these things.

Perfective maintenance

The third maintenance activity is perfective maintenance. The recommendation of new capabilities and modification of existing function and general enhancement are received from the user and proposed for future enhancement.

Preventive maintenance

The preventive maintenance is to improve the future maintainability and reliability and to provide better basis for future enhancement.

5.2 System Testing

Testing is a predominant technique to validate the system developed .the process begins from preparing test plan. The phases in the testing process are that done during implementation to verify the software and one after it to validate the system and to access the reliability of it. We have done both. The test data were provided manually or simulated by writing code for it .we mainly followed a bottom-up approach for testing.

The testing phase, an unavoidable part of software development promotes error detection, a complete verification determining whether the objectives and the user requirements are fulfilled. The system test is based on the given below following

- **Program Testing**

Program testing promotes an error-free program by correcting the syntax and logical error. When a program is tested the actual output is compared with the excepted output. When there is a discrepancy the sequence of instruction must be traced to determine the problem.

Breaking the program down into self-contained portions, each of which can be checked at certain points, facilities the process. The idea is to compare program values against desk calculated values to isolate the program.

- **Unit testing**

Unit testing is done to check the correctness and validity of modules. Errors are rectified per module and program clarity is increased.

- **Sequential or series testing**

Sequential or series testing is checking the logic of one or more programs in the candidate system, where the output of one program will effect the processing done by other program

- **Integration testing**

In integration testing all modules are clipped under the major module and tested again to verify the results. A module can have inadvertent, adverse affect on any other or on the global data structures, causing serious problem. A problem arising due to the poor interfacing such as data loss age is corrected in this phase.

- **System testing**

System testing, the final step uncovers the weakness not found in early stages. This involves validation and testing which determines whether the software functions as the user expects it. Modifications are made so that at the completion phase it satisfied the end-user.

There should be careful planning of how the system will be provoked and the test data designed. The system analyst should be quite clear about the test objectives. System test data can rarely be compressive enough to test the system fully. Some aspects of the system will have to be tested using the live operation.

CONCLUSION

6.0 **CONCLUSION**

The main objective of developing the application entitled ***Financial Management System*** is to provide a user friendly application for textile industry who are involved in producing cotton. The term database plays a major role in software development, the major applications used for database are Microsoft Access, FoxPro etc. All this applications has its own way of storing data, this application is based on user friendliness, all though the user is not familiar with database he can create and manipulate data, as because the screens are designed on such a easy manner.

SCOPE FOR FUTURE DEVELOPMENT

7.0 SCOPE FOR FUTURE DEVELOPMENT

The project mainly concentrates on maintaining the transactions of Textile Industry, this transaction includes purchase of raw material, stock maintenance, deprecation calculation and accounts. All sorts of calculations carried over here are made specialized for the textile industries, in future the project could be updated with making changes in accounts, this would include in generating balance etc. The salary management is not much concentrated on the existing project, in future enhancement salary to employee could be added as a special feature of the project.

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BIBLIOGRAPHY

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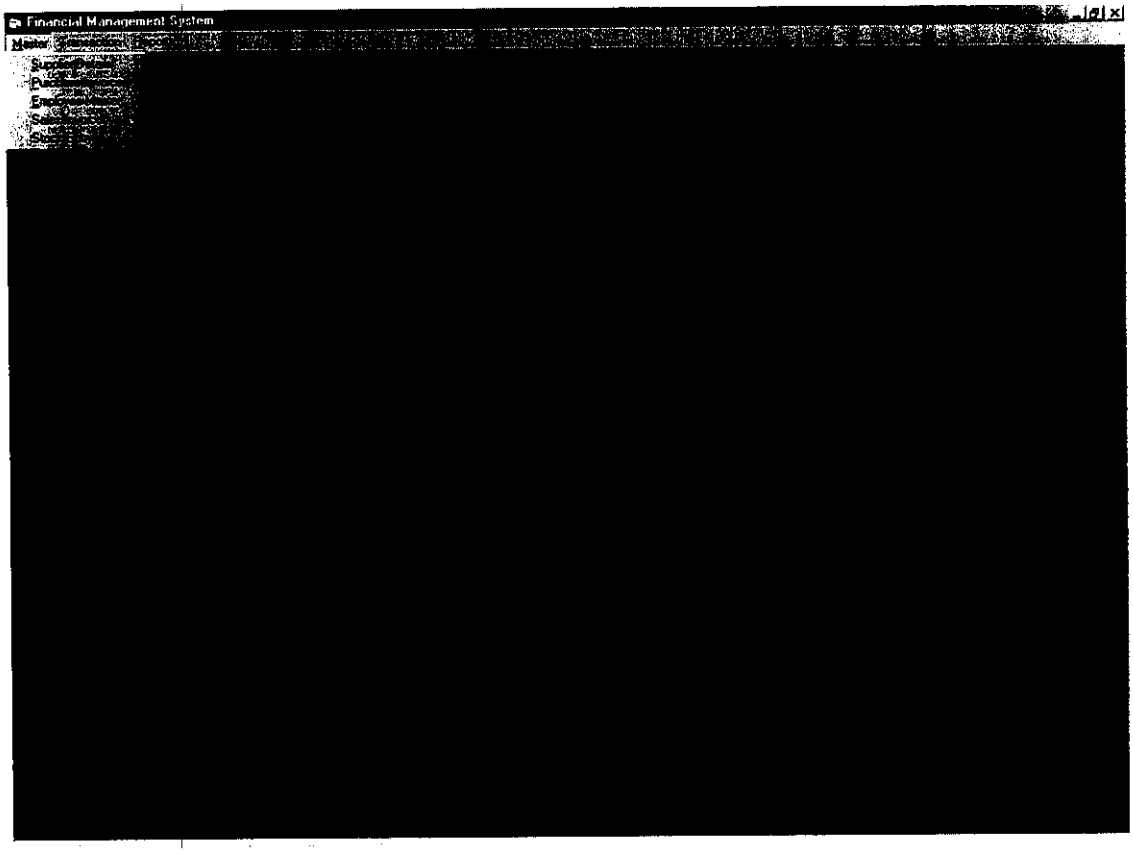
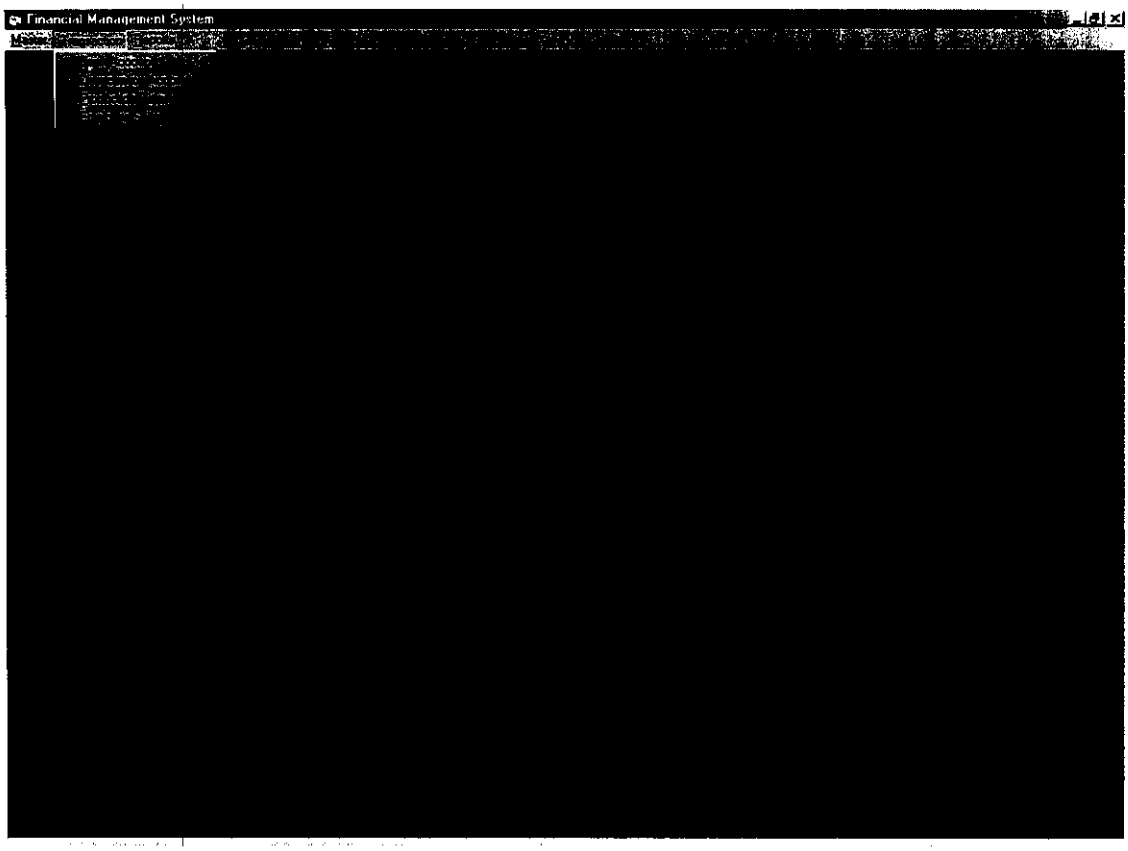
APPENDIX

SAMPLE SCREENS

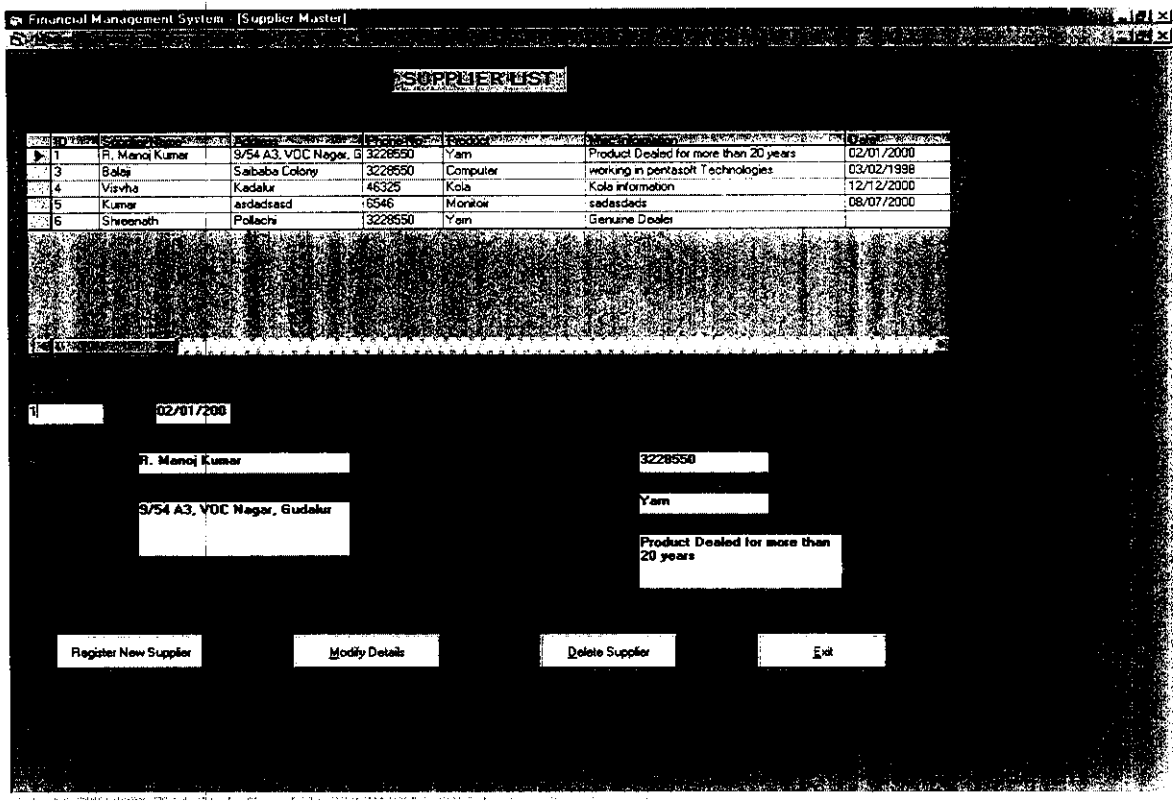
Master Form



Transaction Form

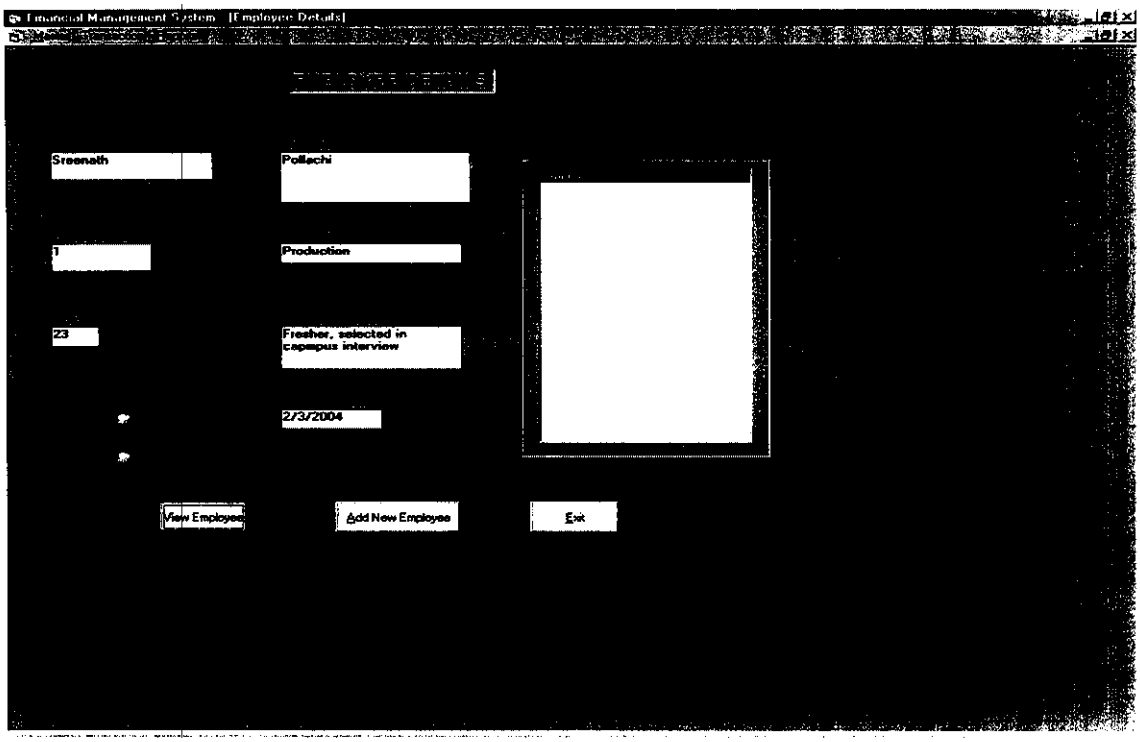


Supplier Master Form

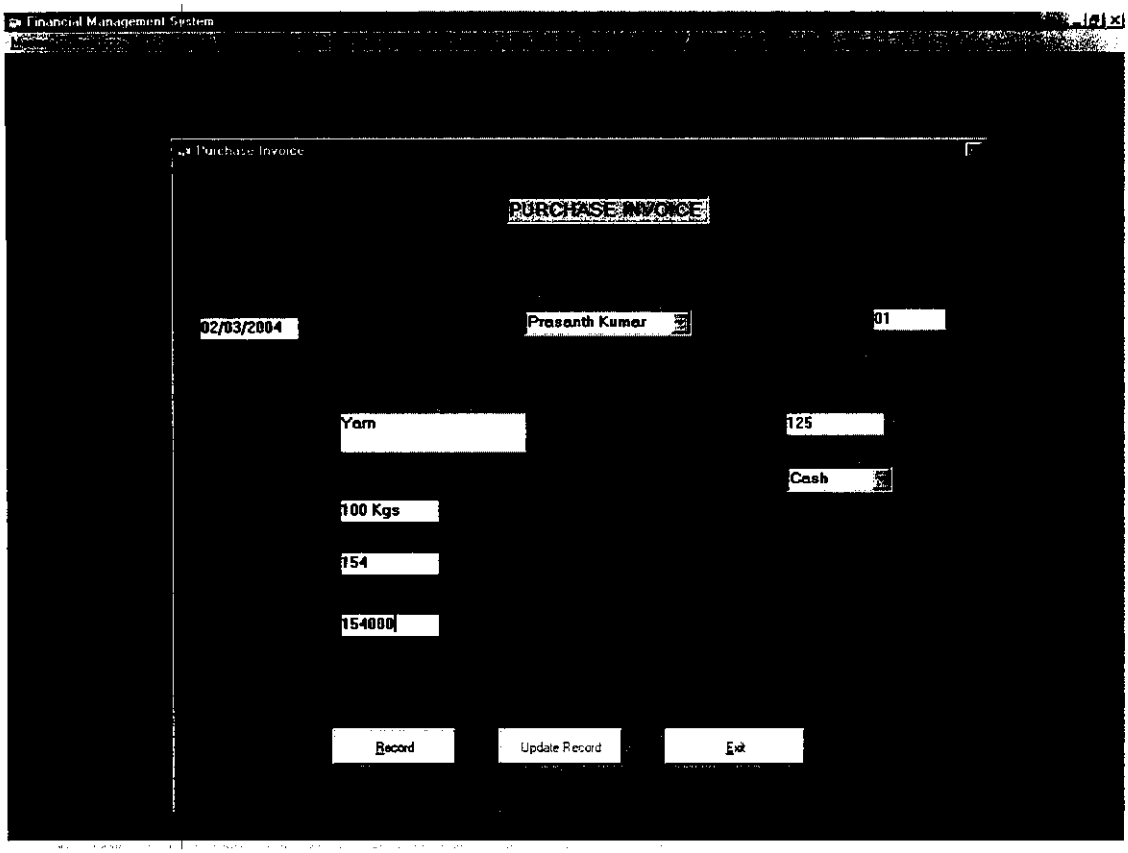


ID	Supplier Name	Address	Phone No	Product	Description	Date
1	R. Manoj Kumar	9/54 A3, VOC Nagar, G	3228550	Yarn	Product Dealed for more than 20 years	02/01/2000
3	Balaji	Saibaba Colony	3228550	Computer	working in pentasoft Technologies	03/02/1998
4	Visvha	Kadalur	46325	Kola	Kola information	12/12/2000
5	Kumar	asdadsasd	6546	Monitor	sadasdads	08/07/2000
6	Sheeonath	Pollachi	3228550	Yarn	Genuine Dealer	

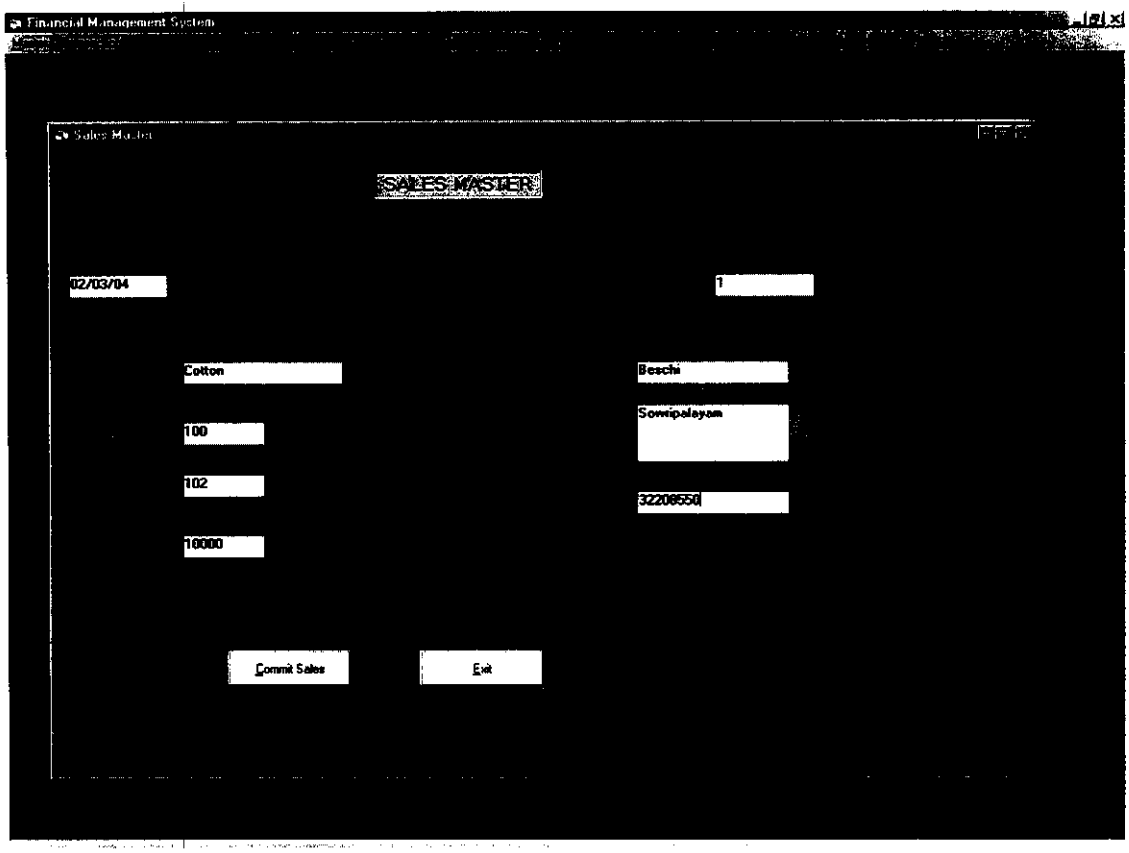
Employee Master Form



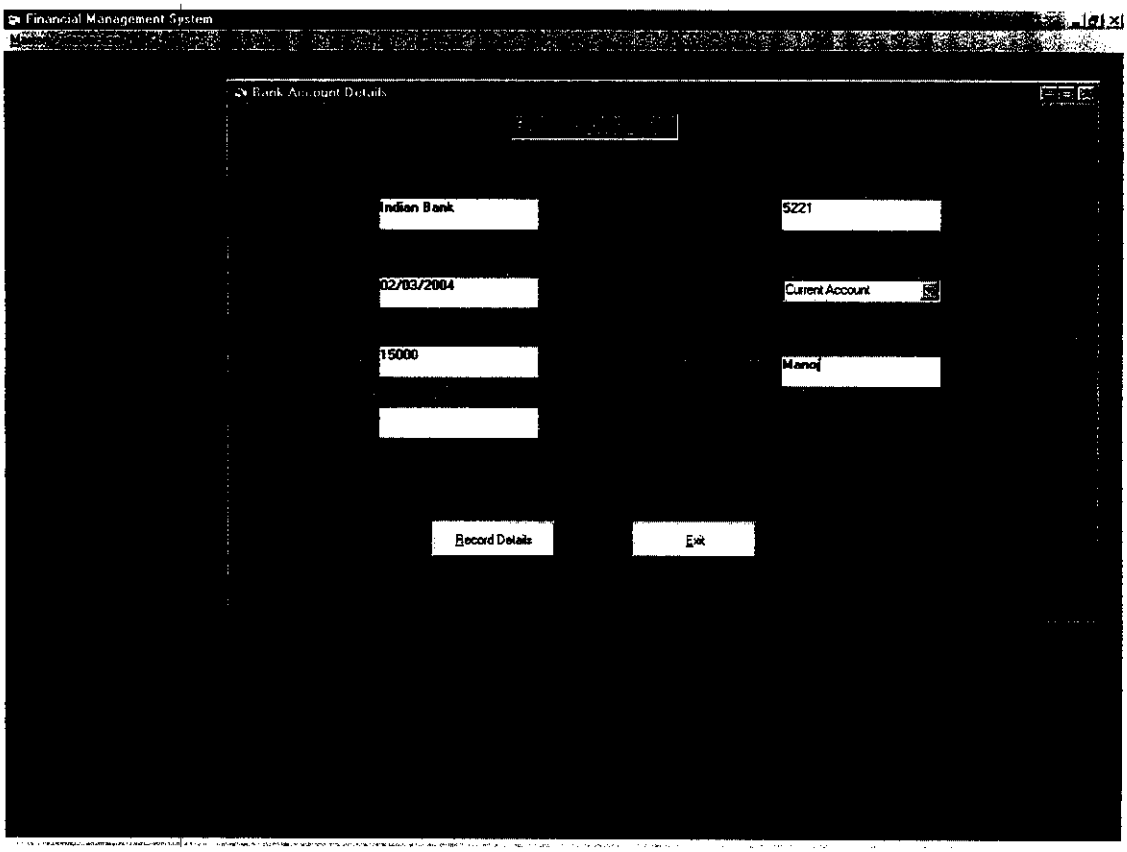
Purchase Invoice Form



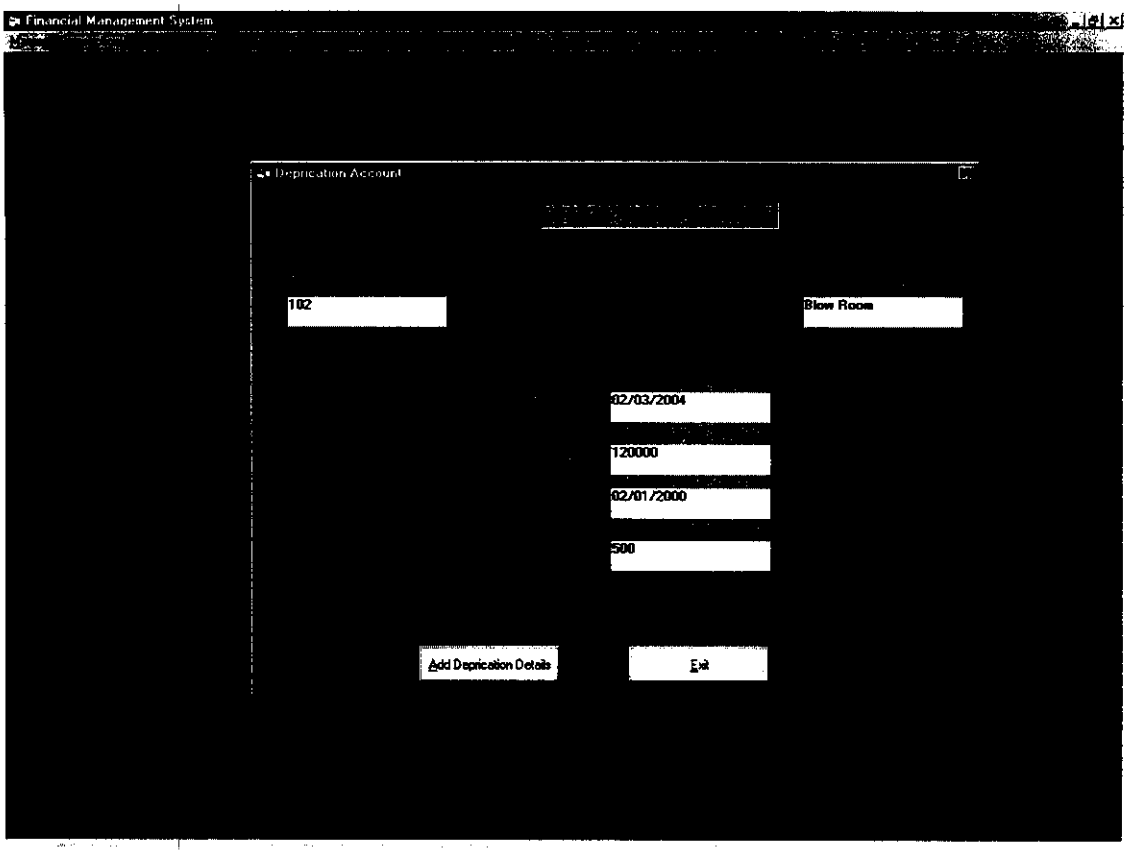
Sales Enter Form



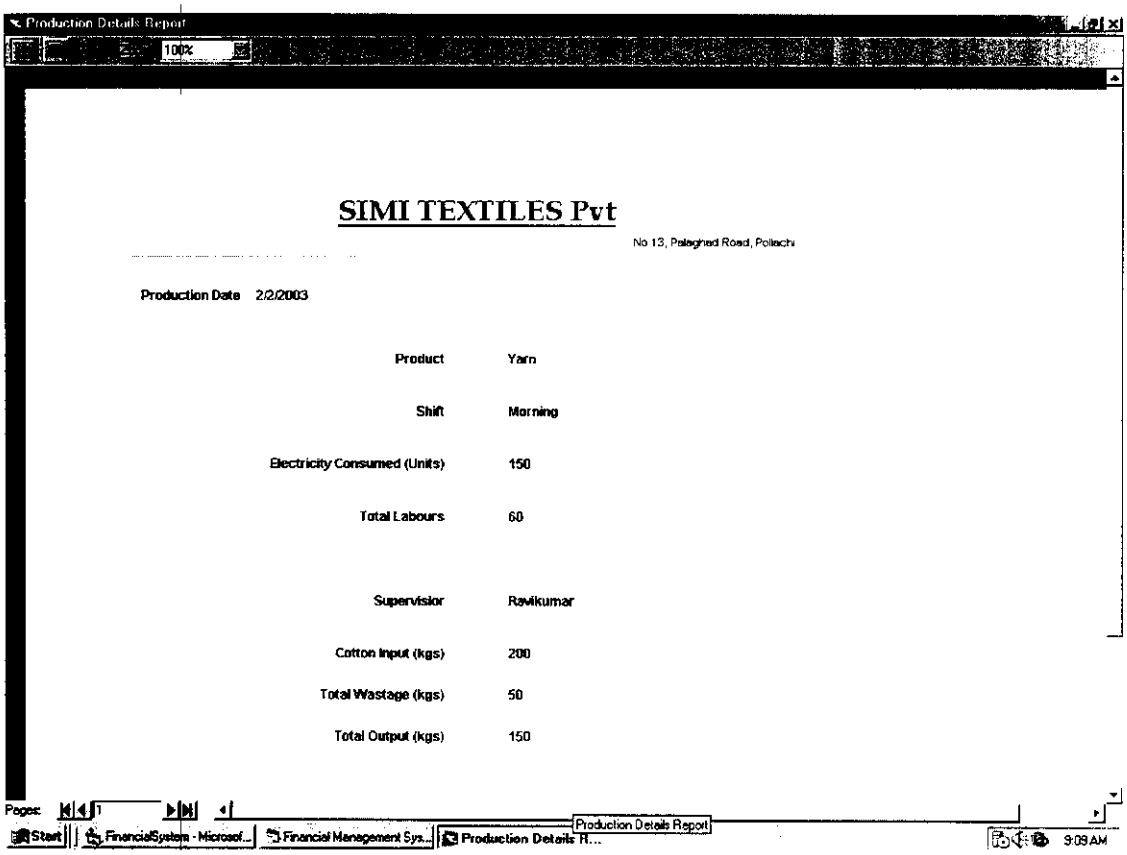
Bank Account Form



Deprecation Enter Form



Shift Production Report



Balance Sheet