EXPORT DOCUMENTATION SYSTEM

PROJECT WORK DONE AT
SREE MILLENNIUM COMPUTER TECHNOLOGY
COIMBATORE

P-1128

PROJECT REPORT

Submitted In Partial Fulfillment Of The
Requirements for the Award of the Degree Of
M.Sc. APPLIED SCIENCE [SOFTWARE ENGINEERING]
Of BHARATHIAR UNIVERSITY, COIMBATORE.

SUBMITTED BY

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REG NO 9937S0078

UNDER THE GUIDANCE OF

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INTERNAL GUIDE

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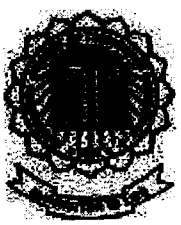
LECTURER
DEPT. OF CSE, KCT.
COIMBATORE - 6.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
KUMARAGURU COLLEGE OF TECHNOLOGY
COIMBATORE - 641 006
OCT 2003 - MAR 2004

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

KUMARAGURU COLLEGE OF TECHNOLOGY

(Affiliated to Bharathiar University)

COIMBATORE - 641 006

MARCH - 2004

CERTIFICATE

This is to certify the project work entitled

EXPORT DOCUMENTATION SYSTEM

DONE BY

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Submitted In Partial Fulfillment of the Requirements for the Award of the Degree Of **M.Sc. APPLIED SCIENCE [SOFTWARE ENGINEERING]** OF BHARATHIAR UNIVERSITY

Professor and HOD

Internal Guide

Submitted to University Examination held on 29/3/04

Internal Examiner

29/3/04

External Examiner

SMCT

We make your future smile

SOFTWARE
Training & Development

05-03-2004.
Coimbatore.

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Mr.S.Karthikevan (99-SE-09)** studying fifth year M.Sc .Applied Science (Software Engineering) at Kumaraguru College of Technology. Coimbatore has completed his 10 Th semester project **"EXPORT DOCUMENTATION SYSTEM"** using Visual Basic and MS Access at our concern under our guidance for a period of six months. During this period his performance was found to be good.

Thanking You

Yours Truly.

Manager

SRI MILLENNIUM COMPUTER TECHNOLOGY
T. N. REG: NO:
20030071
COIMBATORE - 4

ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

To add meaning to the perception, it is my indebtedness to honor a few who had helped me in this endeavor, by placing them on record.

With profound gratitude, I am extremely thankful to **DR.K.K.Padmanaban B.Sc.(Eng), M.Tech, Ph.D.,** Principal, Kumaraguru College of Technology, Coimbatore for providing me an opportunity to under go the M.Sc. APPLIED SCIENCE [SOFTWARE ENGG.] course and there by this project work also.

I extend my heartfelt thanks to my CSE department head **Prof.Dr.S.Thangasamy B.E(Hons), Ph.D.,** for his kind advice and encouragement to complete this project successfully.

It's my privilege to express my deep sense of gratitude and profound thanks to **Mr.R.Saravanan M.Sc, Project Guide,** Sree Millennium Computer Technology, Coimbatore for having allowed me to do project work in his esteemed team and for helping me in all means in successful completion of this project.

Gratitude will find least meaning without thanking my course coordinator **Mr.K.R.Baskaran B.E.,M.S.,** and **Mr.S.G.Siva Kumar M.C.A Lecturer** for the valuable guidance and support through out my project.

Words are boundless for me to express my deep sense of gratitude and profound thanks for all my associates at Sri Millennium Computer Technology for the valuable guidance and support through out my project.

My gratitude is due to all staff members of CSE department, my parents and my friends for their moral support and encouragement for successful completion of my project.

CONTENT

CONTENT

INTRODUCTION

1. INTRODUCTION

1.1 PROJECT OVERVIEW

The project **"EXPORT DOCUMENTATION SYSTEM"** is designed and developed according to the requirements specified by an export company.

The main purpose of this project is to computerize the process of export company and the data that are gathered are correspondingly stored and retrieved .The user can be able to modify the existing data.

The system is designed such that all the details necessary for processing such as importer i.e., name, address, phone number ,etc are collected, order details which comprises of buyer order number, style, color, quantity, category etc, category details like category code, description, country etc, quota details like quota number, type, quantity that is available and the allotted quantity, remaining quantity, expiry date etc, AEPC contains details like marks and numbers, country of origin, country of final destination, data stored in all the above modules are retrieved again. Transporter details like transporter name, address, phone number, mode of transport (air, sea and road) etc are all stored and retrieved when ever necessary.

A provision for generating reports is also provided for each process. The user can view the particular report when it is required. All the information about buyer details, order details, quota,

AEPC, category can be stored in the database and can be viewed whenever required.

The project is designed in such a way it produces a user-friendly environment, maintain its flexibility in ease of use. All the modules involved in the project have been effectively tested and sampled using wide spectra of test data.

1.2 ORGANISATION PROFILE

"SREE MILLENNIUM COMPUTER TECHNOLOGY", was mainly established with a view to cater into overseas services. It started specializing in software development in October 1990. In May 1993 Expo crossed one hundred installations. It commenced the training Division in Feb.1995; the first centre was inaugurated in Coimbatore. By August 1995 the second center was inaugurated in a Adayar, Chennai. Soon the concern became well entrenched in the Trainee Division. By November 1997 its overseas services division operation were commenced.

It achieved its Excellency in computer software trainings at Institutions, Companies, Colleges & Schools, s/w consultancy, Application in specific S/w development, in projects & especially in placement Assistance. The employees are trained and experienced in Visual Basic, Oracle Dev 2000, and Oracle 8, as a server under WINDOWS 95/WINDOWS NT environments. They are also well qualified in people soft & DBA activities. The skills are also lie in Visual FoxPro, Visual C++ and E-Commerce through Java. The Candidates are provided with excellent flexible facilities by all means especially in their choice of Lecturer Hours &course duration flexibility & interactive Lecturer sessions with excellent faculty.

SYSTEM STUDY AND ANALYSIS

2. SYSTEM STUDY AND ANALYSIS

2.1 EXISTING SYSTEM

The system, which is followed at present, is a manual system. The system consists of Book of Accounts that has to be maintained in all aspects. Preparing exports status reports manually and reporting to the importer becomes a tough process and becomes difficult to satisfy the importer. Printing work is difficult. In the existing system each and every time a reference should be made. There are high possibilities to commit errors and mistakes, which leads to produce the wrong statements to the management. Report keeping is also not an easy task.

Another important drawback of existing system is time factor. The management could not act on any issue purchase of production unless getting the reports in time controls cannot be used. The above said reasons are overcome by the proposed system. Since the security system in this package is more secure than other software packages.

DRAWBACKS OF THE EXISTING SYSTEM

- Manual work.
- Security of information is low.
- Time consumption.
- High Manpower.
- More chances of error.

Due to such drawbacks with the existing system, the organization is literally looking for an alternative system, which could overcome all these difficulties and perform its best at minimum effort, time, cost.

2.2 PROPOSED SYSTEM

The drawbacks that are faced during existing system can be eradicated by using the proposed system. The main objective of the proposed system is to provide a user-friendly environment. The proposed system will computerize all the details that are maintained manually etc., once the details are fed into the computer there is no need for various persons to deal with separate sections. Only a less manpower is enough to maintain all the reports. The security can also be given as per the requirement of the users.

GOALS OF THE PROPOSED SYSTEM:

- Reduce data redundancy and duplication.
- Provide accessibility, excellent updating facility as per the needs.
- Systems can make maximum utilization of the value of information and intelligence within the organization itself.
- Ensures that all the intended functions are kept at their optimum effectiveness all the time.

BENEFITS OF THE PROPOSED SYSTEM:

- Large volumes of data can be stored.
- High Security.
- Records stored can be updated at any time.
- Stored data and procedures can be easily edited.
- Reports can be generated.
- Accurate calculations are made.
- Less manpower is required.

The proposed system is subjected to have the following modules such as

- Buyer details module
- Category module
- Quota module
- Invoice module
- AEPC - Apparel export promotion council module
- Quota allotment module
- Order allocation module
- Transporter module
- Invoices and reports

Buyer details Module

- All the details about the importer (buyer) such as name, address, phone, fax, website, bank, email, country, state details are stored here.
- A separate buyer code is allotted by the user (exporter/user) for each importer.

- The buyer code is applied in the AEPC (Apparel Export Promotion Council) form, i.e. while specifying the prefix code alone all the details that are wanted in that form gets loaded automatically.

Category module

- This module has a form which stores the details of category that are mentioned in the exporting policies as per the government laws.
- Each and every category is assigned with a category code.
- The category code can be selected in the AEPC, QUOTA & ORDER allocation modules accordingly the corresponding details gets loaded automatically.

Quota module

- This module has a form which contains the details such as Quota Number, Type, Category, Quantity, Purchase date, Expiry date, Description, Etc.
- This module is linked with quota alotment generally for the purpose of checking the quota availability and for user's significance.

Invoice module

- Only company's name is entered and all the other details are retrieved from the database.

AEPC - Apparel export promotion council

- This module has all the AEPC Details, Details that are loaded in the previous modules are recovered here.
- This module serves as a bridge between the invoicing and other details.
- Other details such as Consignee Name & Adder, Marks & Nos, Terms are feeded here.
- This step helps in invoice generation and report generating processes.

Quota allotment

- This module contains a form which contains the quota allotment details as per the categories.
- This module is designed in such a way that the user selects the Order No, Category & Type of the Quota employed... then the current status is displayed i.e. (the remaining quotas available after the allotment process is completed)

Order allocation

- This module normally explains how the order takes place.
- Here we are selecting the buyer's order no only. Then accordingly we can view all the details such as Style No, Quota, Category, Type, Quantity, Comments can be viewed here.
- This module is highly compatible to the user which enables the user to gather all the details within a short of time.

Transporter details

- This module is formulated only for the user's reference and it is independent of other modules similar to that of the quota module.
- This module mainly contains the details such as Transporter Name, Address and Mode of Transport (by road, sea and air) etc.

Invoicing and reports

- Finally all the modules are clubbed together and invoices and reports can be obtained for the user's convenience.
- Invoice is generally termed as the bill that is to be sent to the importer.
- Other report is generally derived from the entire project are –
    - Date wise report
    - Party wise report
    - Order wise report
    - Quota wise report etc.

PROGRAMMING ENVIRONMENT

3. PROGRAMMING ENVIRONMENT

3.1 HARDWARE ENVIRONMENT

PROCESSOR	- Intel Pentium II T440px with 550 MHz
MEMORY	- 256MB SDRAM + 512KB Cache Memory
DISPLAY MONITOR	- 17" SVGA Color Monitor
FLOPPY DRIVES	- 1.44MB FDD
CD DRIVE	- 52X CD ROM
KEYBOARD	- 104 Keys PS2 Keyboard
MOUSE	- 3 Button PS2 Mouse
PRINTER	- Epson LQ 2170 + 440 CPS 132 Columns
OPERATING SYSTEM	- Windows 95

3.2 DESCRIPTION OF SOFTWARE AND TOOLS USED

VISUAL BASIC 6.0:

The selection of the application is behind the reason that visual basic 6.0 is an ideal programming language for developing sophisticated applications. It makes use of graphical user Interface for creating robust and powerful applications.

Visual Basic 6.0 for windows requires at least Microsoft Windows 95/Windows NT 3.51,486 processor and

a minimum of 16 MB RAM. A complete installation of the most powerful version of Visual Basic 6.0, the enterprise edition, requires more than 250 MB of hard disk space.

THE INTEGRATED DEVELOPMENT ENVIRONMENT:

One of the most significant changes in VB 6.0 is the integrated development environment. IDE is a term commonly used in the programming world to describe the interface and the environment that we use to create our applications .It is called integrated because we can access virtually all the development tools that we need from one screen called an interface. The IDE is also commonly referred to as the design environment, or the program.

In VB 6.0, the IDE is in a Multiple Document Interface (MDI) format. In this format, the windows associated with the project will stay with in a single container known as the parent. Code and form -based windows will stay with in the main container form.

DEVELOPING AN APPLICATION:

An application can be created with the project that are used to build an application. Writing a visual Basic program involves two steps :

- Visual programming step
- Code programming step

Visual programming step involves designing an application with various tools that come along with visual basic

package. The code-programming step involves writing programs using a text editor.

MS ACCESS:

It is very useful for accessing the database to create records, deleting records, and modifying records and use ful for listing records. It is used as a back end tool, for the visual basic. A data base server is the key to solving the problems of information management. In general, a server must relating manages a large amount of data in a multi user environment. So that many users can concurrently access the same amount of data. All this must be accomplished while delivering high performance. A data base server must also prevent unauthorized access provide efficient solution for failure recovery. We can define and manipulate in a table with SQL commands.

FEATURES OF MS ACCESS:

- Sub queries can use select statements as sub queries in the criteria row of the query window.
- Improved SQL pass through helps to pass SQL statements directly, open database, providing improved connectivity in a client-server environment.
- Table validation rules and their fields and enforced when there is a change of data, an action query, a macro etc.,
- Definition of relation ships graphically helps to sketch out the design of the database visually and see all the relation ship at once

- Cascading updates and deletes or all related fields in related tables when an updating or deletion is done in a table.

SYSTEM DESIGN

4. 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.

The input given to the system are of three types:

1. **External:** which are prime inputs for the system
2. **Internal:** which are user communications with the system
3. **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

TABLE NAME: BUYER-MASTER

Primary key: BCODE

FIELD	DATATYPE	SIZE
BCODE	TEXT	10
COMPANY NAME	TEXT	20
CONTACT PERSON	TEXT	20
ADDRESS	MEMO	
CITY	TEXT	20
STATE	TEXT	20
COUNTRY	TEXT	15
PINCODE	NUMBER	7
PHONE	NUMBER	20
FAX	NUMBER	15
EMAIL	TEXT	15
WEB	TEXT	10

TABLE NAME: AEPC

Primary key: Invoiceno

FIELD	DATATYPE	SIZE
INAME	TEXT	20
BUYER	TEXT	20
CATEGORY	TEXT	10
DESCRIPTION	MEMO	
INVOICENO	TEXT	10
DESCRIPTION2	MEMO	
ADD1	MEMO	
ORDERNO	TEXT	15
EXDATE	DATE/TIME	
REF	TEXT	20
CARRIAGE	TEXT	10
FLIGHTNO	TEXT	10
DISCHARGE	TEXT	15
ORIGIN	TEXT	10
QTY	NUMBER	10
RATE	NUMBER	10
AMOUNT	NUMBER	10
AWB	TEXT	10
DATE1	DATE/TIME	
MARKS1	MEMO	
TERMS	MEMO	
NOTIFY	MEMO	
DATE2	DATE/TIME	

TABLE NAME: BUYER_DETAILS

Primary key: ordno

FIELD	DATATYPE	SIZE
ORDNO	TEXT	15
INVNO	TEXT	10
STYNO	TEXT	10
QNTY	NUMBER	10
RATE	NUMBER	10
AMOUNT	NUMBER	10
DESCRIPTION	MEMO	
MARKS1	MEMO	
MARKS2	MEMO	

TABLE NAME : CATEGORY_MASTER

Primary key: CatCode

FIELD	DATATYPE	SIZE
CATCODE	TEXT	10
COUNTRY	TEXT	15
DESC	MEMO	

TABLE NAME : ORDER_ALLOCATION

Primary key: ordno

FIELD	DATATYPE	SIZE
ORDNO	TEXT	15
STYNO	TEXT	10
QTYPE	TEXT	10
CATCODE	TEXT	10
BCODE	TEXT	10
COSTVAL	NUMBER	10

TABLE NAME: QUOTA_ALLOTMENT

FIELD	DATATYPE	SIZE
PONO	TEXT	10
ENAME	TEXT	10
CATCODE	TEXT	10
QTYPE	TEXT	10
AQNTY	NUMBER	10

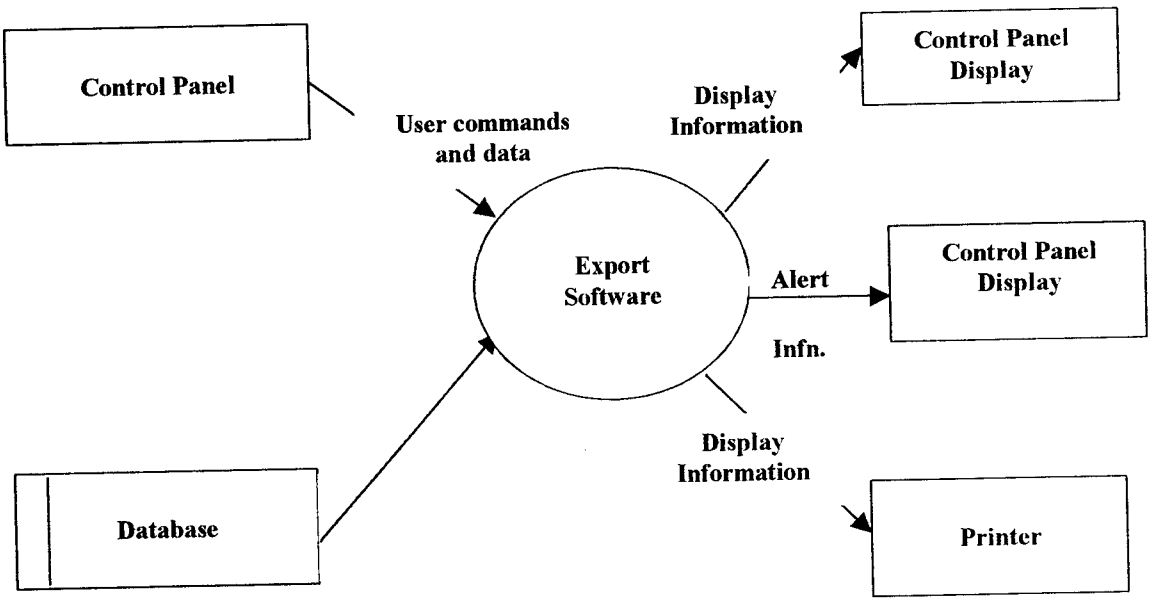
TABLE NAME : QUOTA_MASTER

Primary Key: qno

FIELD	DATATYPE	SIZE
QNO	TEXT	5
CNAME	TEXT	10
QTYPE	TEXT	10
DT	DATE/TIME	
DT1	DATE/TIME	
CATCODE	TEXT	10
QNTY	TEXT	10
COUNTRY	TEXT	15
DESC	MEMO	25

3.3 PROCESS DESIGN

LEVEL 0



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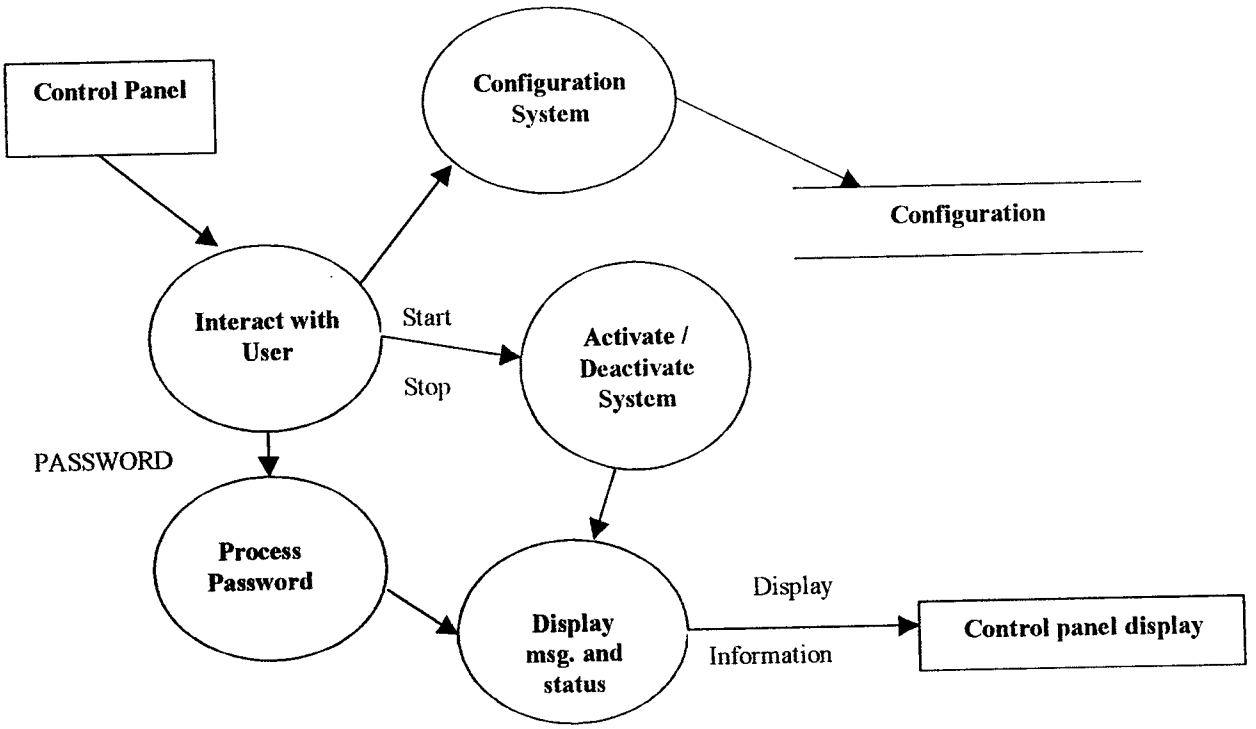

SYSTEM IMPLEMENTION AND TESTING

5. SYSTEM TESTING AND IMPLEMENTATION

5.1 SYSTEM IMPLEMENTATION

System implementation includes running, testing and the use of the new system. After completion of the system design and coding the analyst, the user and the management evaluates the system to ensure that it full fills all its goals.

Thus, implementation is the stage the project where the theoretical design is turned in to a working system. The system can be introduced in two methods namely parallel running and the other is sudden implementation. In parallel running, the existing system is continued along with the new system. This is a good method for smooth transfer of the old system to the new one enabling easy training to the staff, computerization of tendering procedure.

However, here there is a repetition of work is being done processing current data by both old and new systems to cross check the results. Its main attraction is that old system is kept alive and operational until the new system has been provided for at least one system cycle.

5.2 SYSTEM TESTING:

The implementation of a computer-based system testing is that it requires test data for testing the efficiency of the system in a planned and well-structured manner.

LEVELS OF TESTING:

UNIT TESTING:

In unit testing the user tests the programs making up a system. This test focuses on the modules, independently of one another to locate errors. This enables the tester to detect errors in coding and logic that are contained with in that module alone. Those resulting from the interaction between modules are initially avoided.

INTEGRATION TESTING:

All the modules in the system are combined to a single system. It tests to find discrepancies between the system and its original objective, current specifications .the primary concern is the compatibility of individual modules.

ACCEPTANCE TESTING:

If the user find no major problems with its accuracy, the system passes through a final acceptance test. This last test confirms that the system meets the original goals, objectives an requirements established during design.

The new system developed was tested by the acceptance test incorporates both unit testing and integration testing. The user provided test data. Thus, the system was successfully tested and it satisfies the user requirements. Afterwards it was implemented successfully.

CONCLUSION

6. CONCLUSION

The project "EXPORT DOCUMENTATION SYSTEM" has been developed at SMCT, COIMBATORE tested successfully and implemented at "COLLAR PLUS TEXTILES (P) LTD", TIRUPUR.

The ultimate goal of the project is to overcome the difficulties specified by the user, to create a user-friendly environment. The system designed is highly secure, and no unauthorized users can access it unless the administrator provides rights.

All the modules that are necessary for the process involved under export documentation system are included which is more flexible than ever before.

SCOPE FOR FUTHER DEVELOPMENT

7. SCOPE FOR FURTHER ENHANCEMENT:

In future, there is a proposal of implementing the project in all the units of the client at various places through a wide area network; this enables the user or the administrator to have more access to the procedures involved. In addition, we can mail directly the importer all the statement of accounts from the package itself by means of Internet.

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BIBLIOGRAPHY

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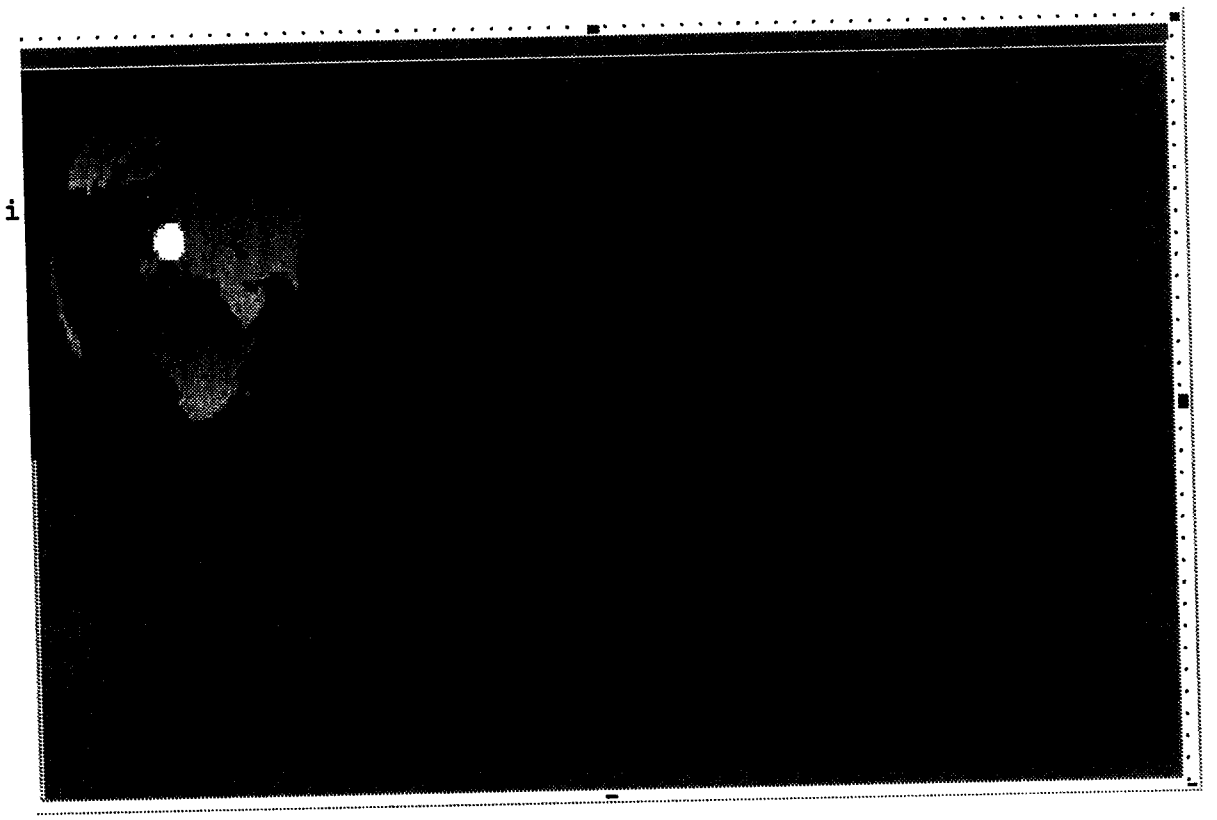
2. Elias .M.Awad, System Analyusis and design, Galgotia, Second edition.

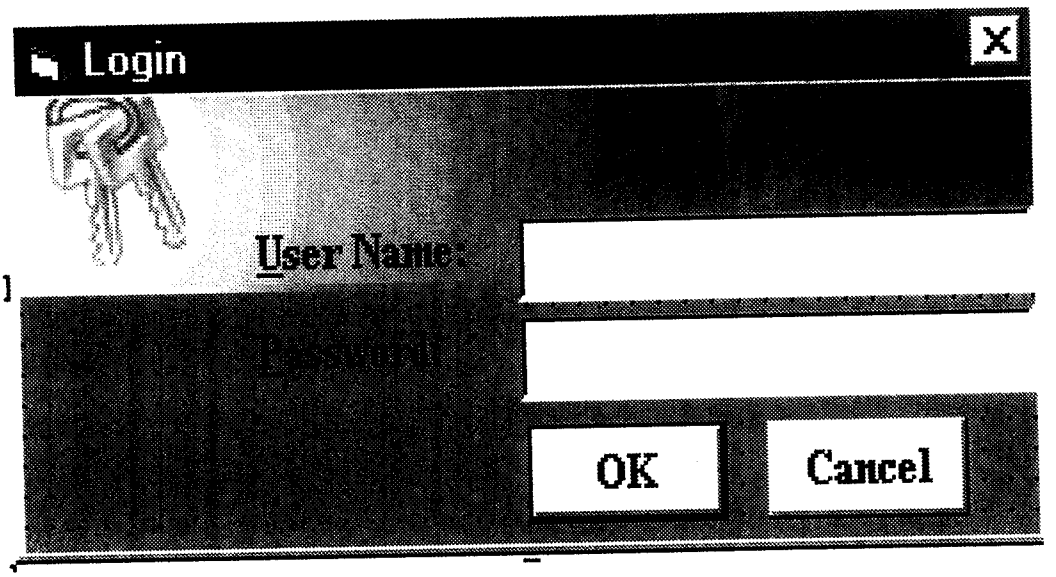
3. Gary Cormell, Visual Basic 6.0 From the ground up, Tata Mc Graw Hill, Second edition.

APPENDIX

Appendix

a. sample screens

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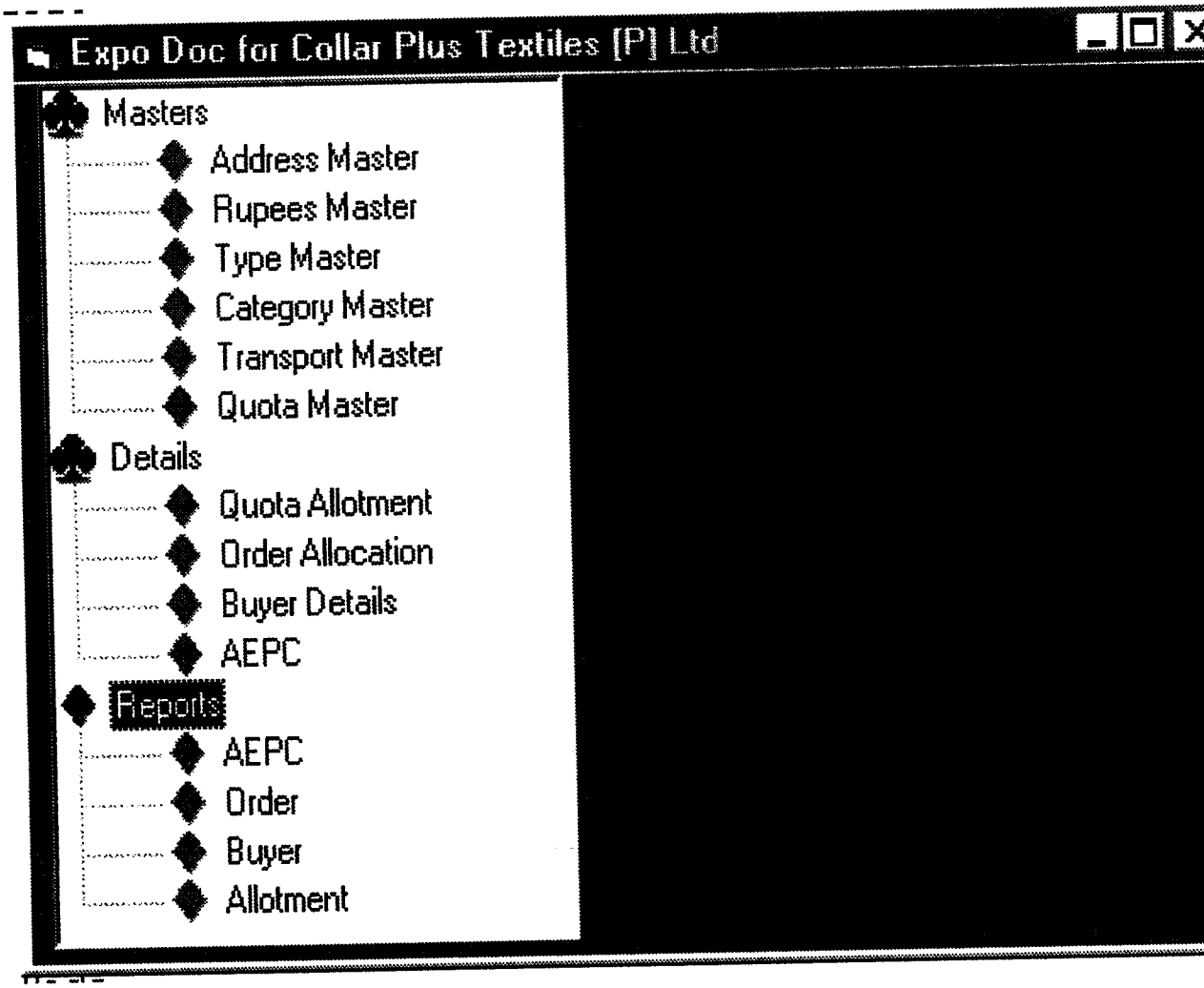
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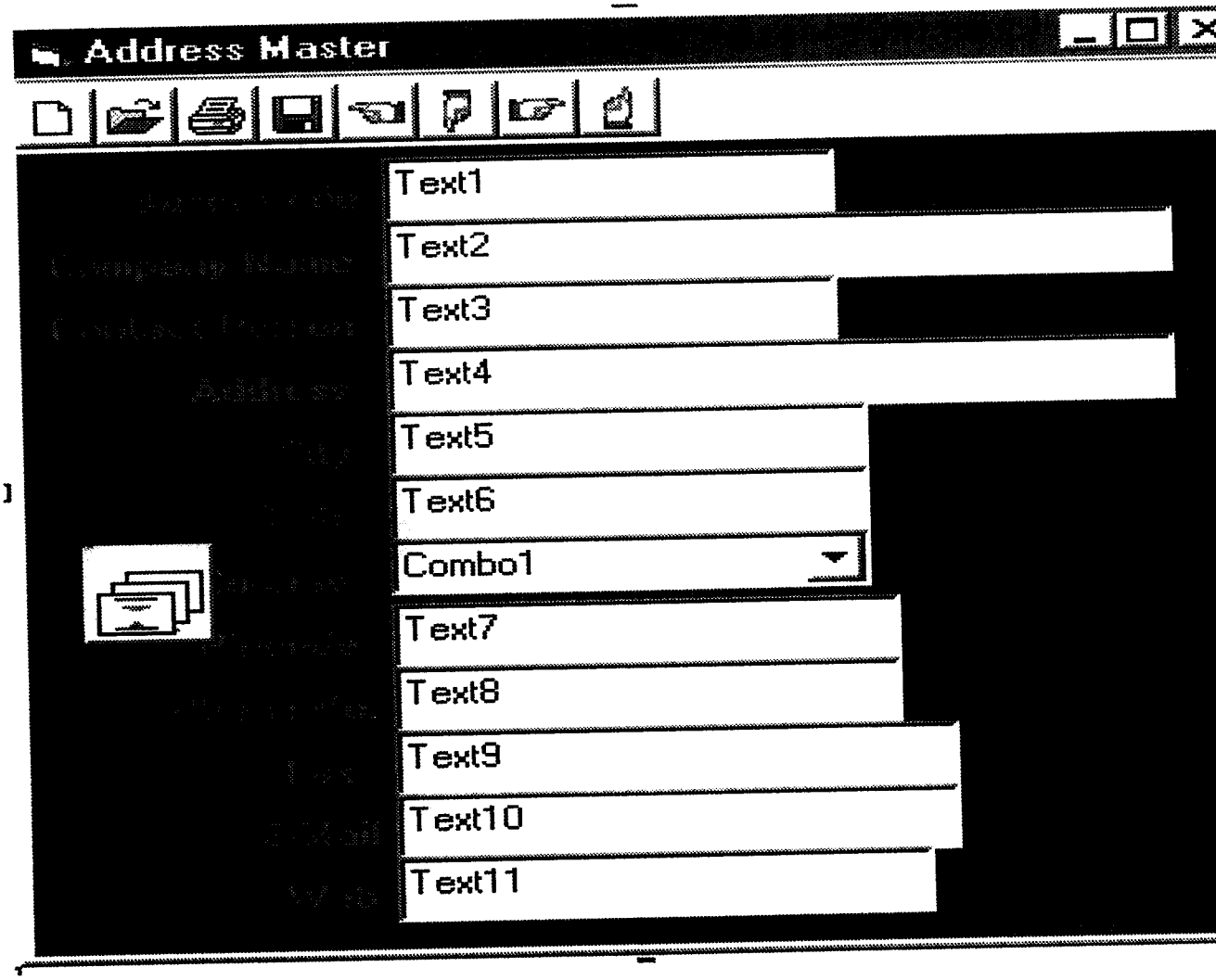
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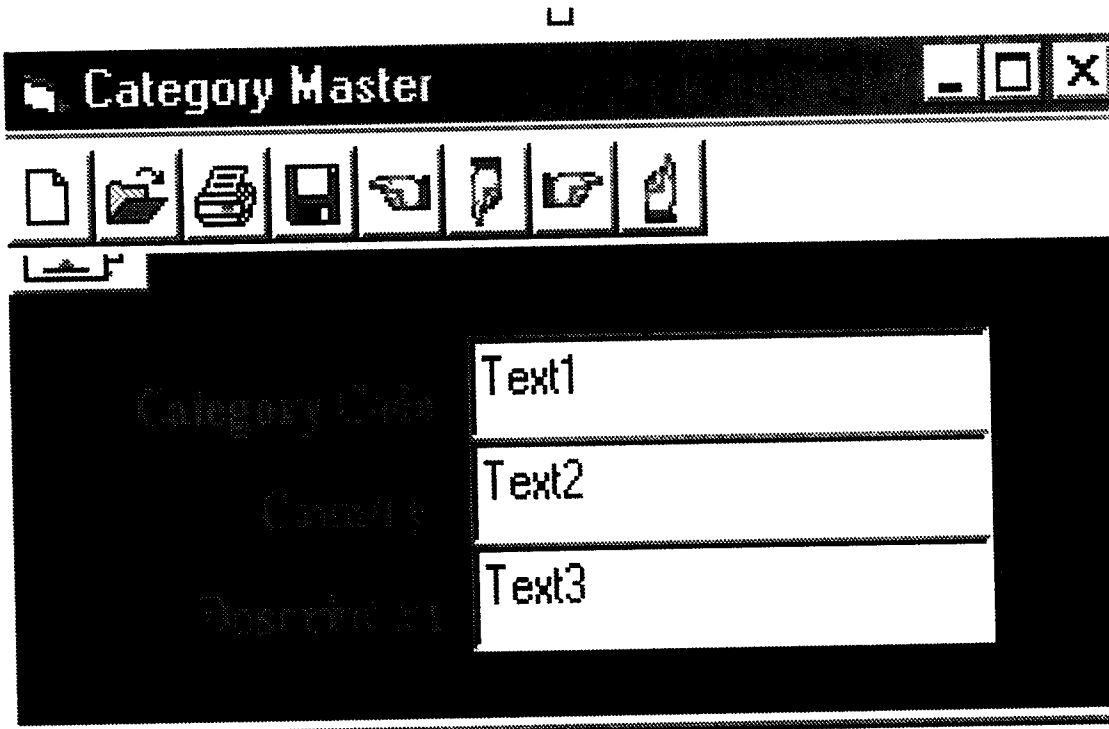
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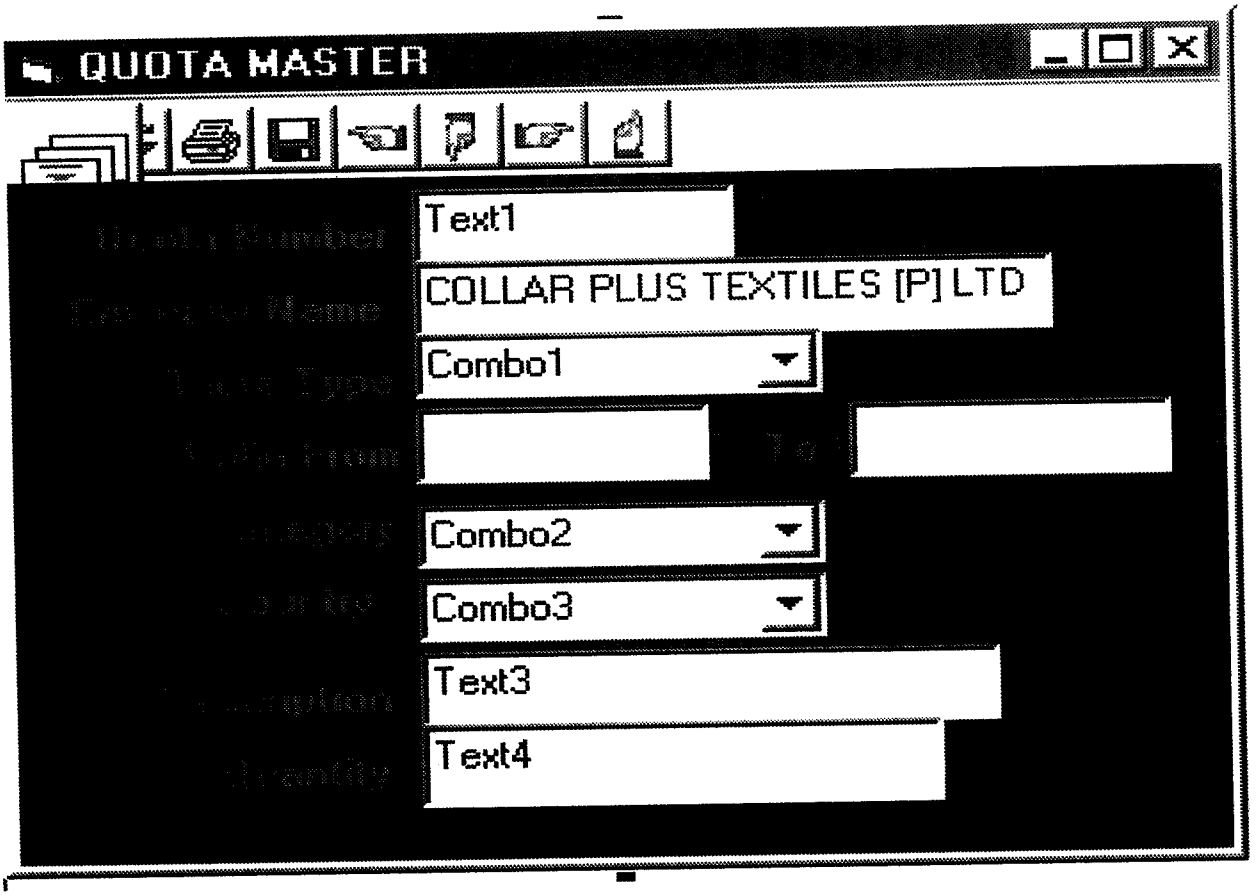
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To
Combo2
Combo3
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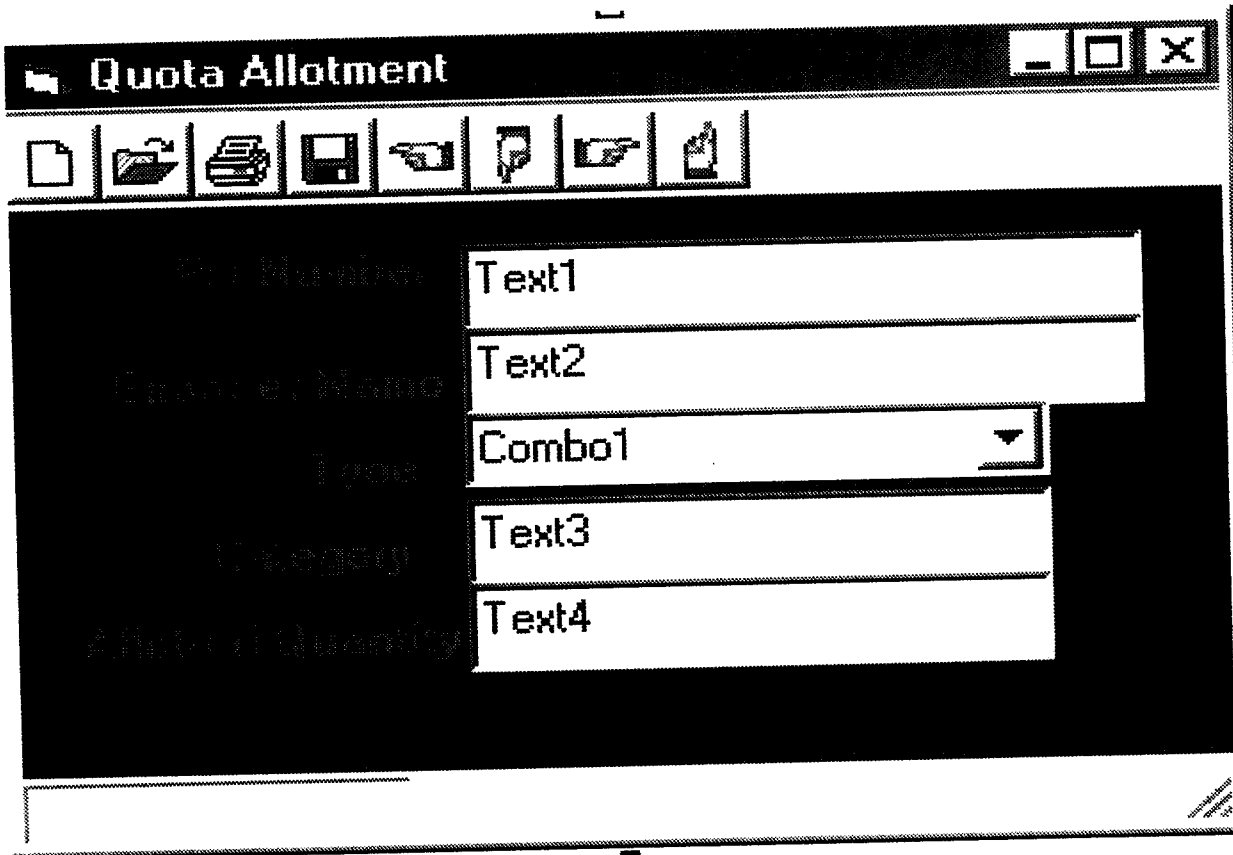
Text4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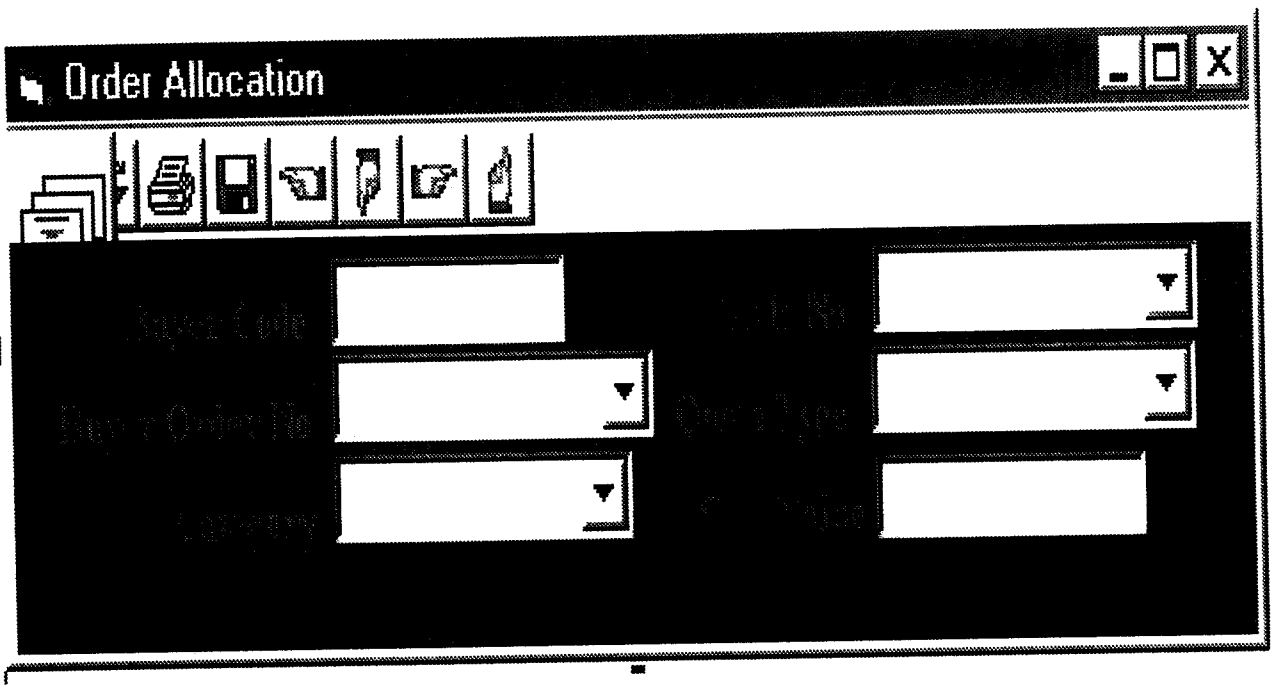
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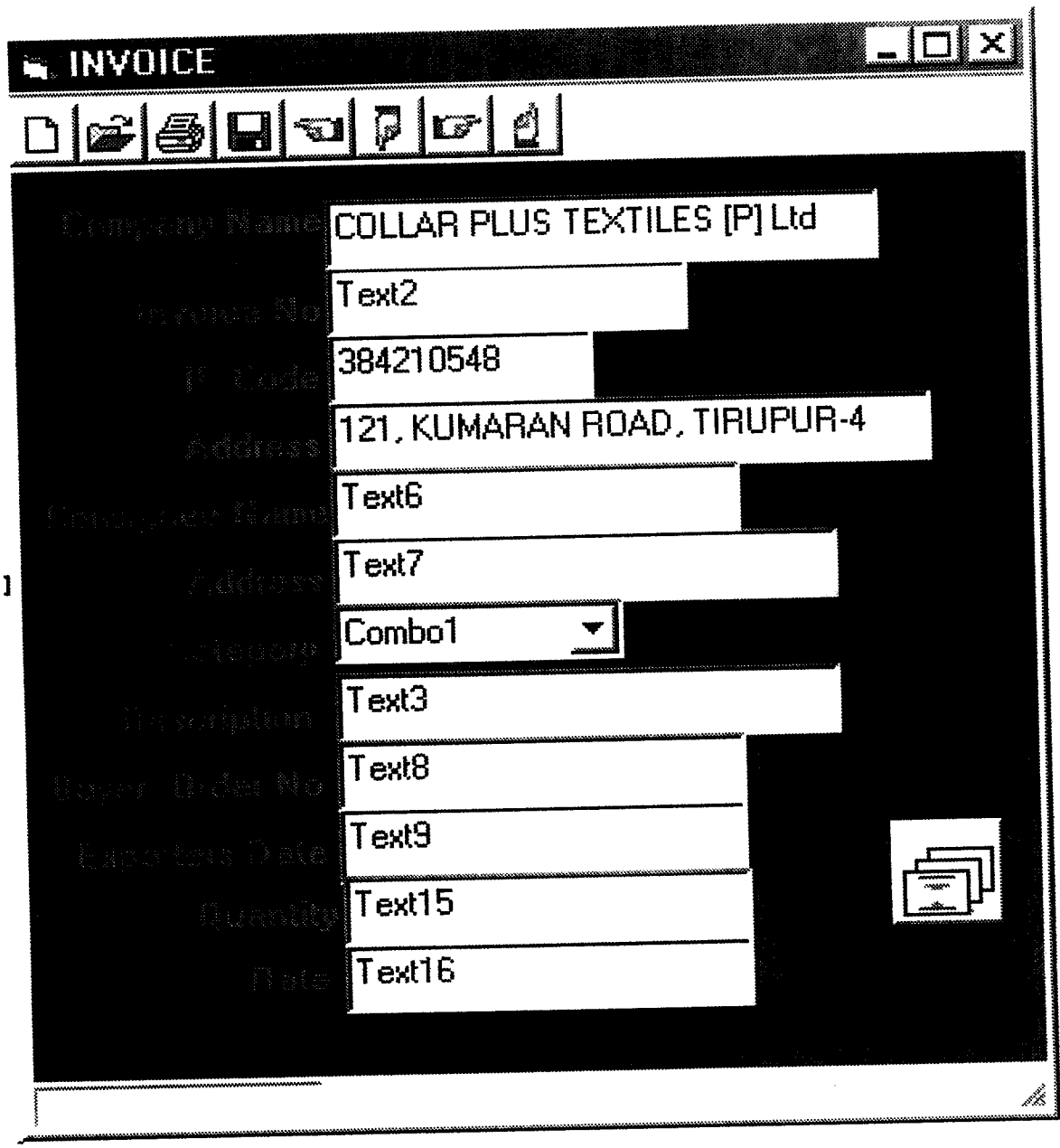
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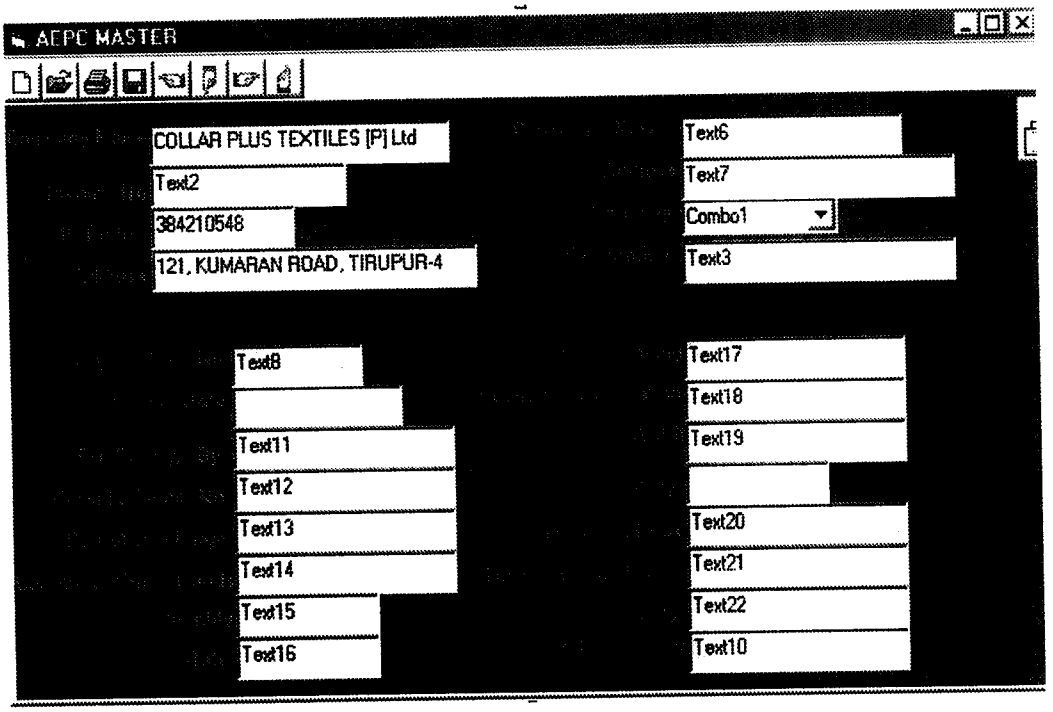
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COLLAR PLUS TEXTILES [P] Ltd
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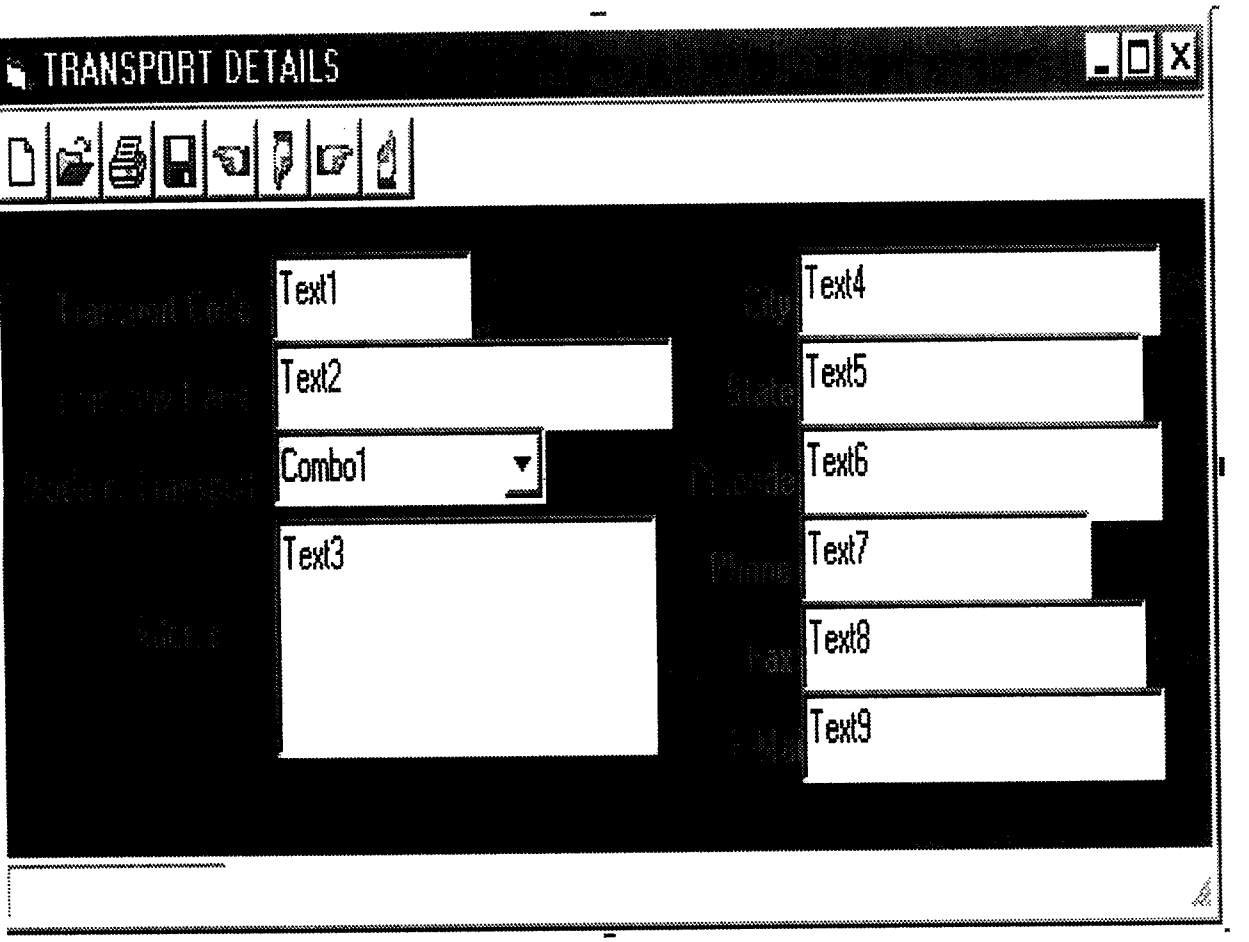
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P-1128