

Condel's Registrar

PROJECT REPORT 1999-2000

P-450



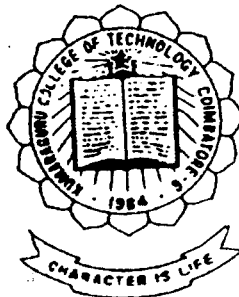
Submitted By

Aaron Pradeep Raj (97BCT01)
Amirtharajan .B (97BCT04)
Prashanth.R.Menon (97BCT26)
Rajesh .J.L (97BCT29)

UNDER THE GUIDANCE OF

Miss.N.Rajathi, BE
Department of Computer Science and Engineering

In partial fulfillment of the requirements for the award of the degree of Bachelor of Science (APPLIED SCIENCE) COMPUTER TECHNOLOGY in the faculty of Engineering of the Bharathiar University, Coimbatore.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
KUMARAGURU COLLEGE OF TECHNOLOGY

COIMBATORE-641 006

Department of Computer Science and Engineering,
Kumaraguru College of Technology,
Coimbatore – 641 006.

CERTIFICATE

This is to certify that the project report entitled

Conbel's Registrar

That is being submitted by

Mr./Ms. PRASHANTH. R. MENON

for the award of degree Bachelor of Science (Applied Science – Computer Technology) of Bharathiar University, is a bonafide record of work carried out by him / her in the department.

N. Sujatha

Faculty Guide

S. Jayaram 28/3/2000
HEAD,

Dept. of computer Science and Engineering,
Kumaraguru College Of Technology,
Coimbatore – 641 006.

Coimbatore – 641 006.

Date:

Certified that the candidate PRASHANTH. R. MENON with Register No 972700025 was examined by us in the Project Work Viva - Voce Examination held on 27/03/2000

K. S. Srinivasan

Internal Examiner

S. Jayaram

External Examiner

CONVEL CONTROL SYSTEM
March 24,2000.

TO WHOMSOEVER IT MAY CONCERN

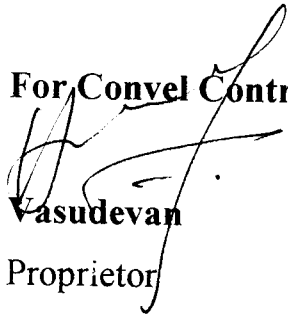
This is to certify that the following students,

1. Mr.Aaron Pradeep Raj
2. Mr.Amirtharajan.B
3. Mr.Prashanth.R.Menon
4. Mr.Rajesh.J.L

of final B.Sc.computer technology of kumaraguru college of technology, coimbatore has done his project on CONVEL'S REGISTRAR using visual basic as front -end and access as back-end under my guidance for the period from November, 1999 to April, 2000.the system has been implemented and tested.

We found him to be sincere, hard working and self-motivated.during the project period, the student was found to be innovative and prompt in his project.

For Convel Control Systems



Vasudevan

Proprietor

Acknowledgement

Synopsis

SYNOPSIS

The system entitled "CONVELS REGISTRAR" is under development for CONVEL CONTROL SYSTEMS, which is a leading manufacturer of electrical appliances. For example various companies manufactured items like timer, contactors, circuit breakers etc.

The theory behind the company is to tailor the above mentioned electrical items and develop a complete product for other users.

The objective of this project is to develop an application package that generates the required reports for the user to find wheather the tender is approved or declined,and also produse bills for the approved tenders.

This application is developed using visual basic 6.0 as front-end tool and MS access as back-end.the application can run on any system with a minimum configuration of 80486 microprocessor with a minimum RAM capacity of 8 MB.

The report generated by the system includes status of the tender,invoice,based on datewise and partywise and DC based on datewise and sitewise.These reports prove to be invaluable to the users.

The application developed using the features of GUI concepts offers online interactive interface that help the user to interact with the system effectively.the system developed is userfriendly with display messages to assist the user whenever necessary.

Contents

CONTENTS

CHAPTER	PAGE NO
I ACKNOWLEDGEMENT	
II SYNOPSIS	
1. INTRODUCTION	1
1.1 PURPOSE	4
1.2 SCOPE	4
1.3 DEFINITIONS, ACRONYMS, ABBREVIATIONS	5
1.4 REFERENCES	5
1.5 OVERVIEW	6
2. GENERAL DESCRIPTION	
2.1 PRODUCT FUNCTIONS	8
2.2 USER CHARACTERISTICS	8
2.3 GENERAL CONSTRAINTS	9
3. SPECIFIC REQUIREMENTS	
3.1 LIST OF INPUTS	10
3.2 INFORMATION PROCESSING REQUIRED	11
3.3 LIST OF OUTPUTS	12

4. PERFORMANCE REQUIREMENTS

4.1	SECURITY	13
4.2	PERFORMANCE EXPECTATIONS	13
4.3	RELIABILITY EXPECTATIONS	13
4.4	RESPONSE TIME	13
4.5	PORTABILITY	13

5. DESIGN CONSTRAINTS

5.1	HARDWARE LIMITATIONS	14
5.2	USER INTERFACES	14
5.3	SOFTWARE LIMITATIONS	14
5.4	SCREEN FORMATS	15

6. IMPLEMENTATION AND TESTING

6.1	IMPLEMENTATION PLANNING	29
6.2	EDUCATION AND TRAINING	30
6.3	SYSTEM TESTING	30
6.4	CHANGEOVER	31

7. CONCLUSION AND SCOPE

32

Introduction

1. INTRODUCTION :

This application will have to cater to the 2-tier client server architecture, and will mainly facilitate the following activities:

1. Storing details about software network element, software load and software versions.
2. Logging test case activities.
3. Recording details of problems that arise during testing and the solution for the problem.
4. Tracking of modification requests.

DESCRIPTION:

AIM:

To completely automate the process of recording various activities while keying in the details.

THE PRESENT SYSTEM:

Right now the whole process of recording the details of tender activities is done manually. Here all the activities are recorded in separate registers.

Required registers:

1. The participation of the company in various tenders is stored in separate registers.
2. The tenders who are approved are then stored in separate registers.
3. Declined tenders are stored in separate registers for recovery of EMD.
4. If the concern supports other companies, the details are stored in separate registers.

DISADVANTAGES:

The disadvantages of the present system are as follows:

1. With the present system, time is wasted in writing down the details in various registers.
2. As the information is stored as hard copies, chances of loss of data are maximum, as against storing them on a hard disk.

3. In order to process the user query on the data, it is difficult to retrieve the results easily.
4. Usage of many registers becomes difficult for the user for future references.

THE PROPOSED SYSTEM:

The proposed system will be a completely automated GRAPHICAL USER INTERFACE (GUI) .It overcomes all the drawbacks of the present system.

FEATURES OF THE PROPOSED SYSTEM:

- ❖ Uses a database to store all the relevant information.
- ❖ No data is lost unless it is decided to erase some unwanted (or) too old data.
- ❖ The database serves as a log for the various input activities.
- ❖ Shortcuts are available apart from the menu driven events.
- ❖ Automatic transfer of records to the necessary database occurs once the formalities are undergone.
- ❖ Uses GUI for dataentry.

1.1 Purpose

The aim of our project is to develop an application package that analyses the various tenders quoted for the company for various government agencies. It then finds which among these tenders are approved by the respective agencies. The billing process is then done for the tenders approved. The billing may be of two types –Running bill and Final bill. For the tenders approved, the work may be in different places in Tamil Nadu. The Company requires many materials for a job to be completed which may be in different places. The company gets materials from various agencies and for this an invoice must be prepared, which is our next stage of process. The materials are then dispatched to the various work sites. For this a delivery chellan has to be prepared.

1.2 Scope

The scope of our project is to automate the system, which has been done manually at present. The disadvantage of the present system is that it is error prone and on the other hand, It is also time-consuming. Our project aims to rectify all those deficiencies and also make the user to use the system as easily as possible person with only a limited knowledge of the

computers will be able to use our software efficiently. In other words the software will be more user friendly.

1.3 DEFINITIONS,ACRONYMS,ABBREVIATIONS

VB 6	Visual Basic 6
MS Access	Microsoft Access
OS	Operating System
DC	Delivery challan
EMD	Earnest Money Deposit
SC	Security
M Book	Measurement Book
CST	Central Sales Tax
TNGST	TamilNadu Government Sales Tax
GUI	Graphical User Interface

1.4 REFERENCES:

1. Visual Basic HandBook – SSI
2. Microsoft Developer Networks -

1.5 OVERVIEW

CONVEL CONTROL SYSTEM-A PROFILE

The Position of leadership almost always has its beginning in a good idea or philosophy.

Convel Control Systems-began its journey towards leadership in 1990,when it entered the field of communication. The company mainly participates full fledgedly in government tenders and also in a few private tenders. The company with the man power strength of one hundred and fifty has undergone tremendous improvement in the last few years. In the recent past the company has achieved a turn over to the tune of rupees fifty lakhs. The company has over ten branch offices located at various parts of TamilNadu.

They are the first company to participate and complete the mini projects and later on established their stand. Inorder to face the future challenges of the Government they have setup worksites all around TamilNadu. Concerns like Convel Control System have strategic tie-ups with fellow-concerns and support them in getting tenders. This shows the concerns hospitality. There are twenty-five such companies in TamilNadu

alone, of which convel control system is the leader. They have done many good-will projects like erection of post, establishment of communication lines etc.

The company takes part in various government tenders. If they have quoted the lowest then the government will approve the tender. From then on they will proceed to complete the work within the stipulated time. Running bill is done in between and the final bill is produced after the completion of the project. In-between the work if any additional materials are required, then they are purchased and sent to the appropriate sites.

The position of leadership has been achieved on a bedrock foundation of ideas and philosophies that make it stand out as an organization. The obvious synergy between convel control systems technological strength, purchasing and manufacturing infrastructure, marketing and service muscle, is every reason to believe that the company will spring ahead into this millenium with a strong position.

General Description

GENERAL DESCRIPTIONS:

2.1 PRODUCT FUNCTIONS :

❖ Authorized Login :

The application should provide validation of logins. Only authorized people should be able to access the database.

❖ Client/Server Architecture:

The database resides as a separate Entity

❖ Software Load Entry:

The software provides GUI to enter the software load information like Tender number, Tender Approval, Billing details etc.

2.2 USER CHARACTERISTICS :

User Interfaces :

- ❖ Main Screen to select the operation to be done.
- ❖ Short-cuts are available for user friendly interface.
- ❖ Element List Screen – to addition, deletion and modifying of records based on the loaded information.
- ❖ User interfaces to generate and view reports based upon the user query.

2.3 GENERAL CONSTRAINTS :

LIMITATIONS:

This tool only provides the tester to enter and access the log details. Any additional information required is not in the scope of the project. Only the owner can make changes to the keyed in details, until any permission is given to the subordinates.

Specific Requirements

R 460



3. SPECIFIC REQUIREMENTS

3.1 LIST OF INPUTS:

NEW TENDER:

The inputs for this process are as follows:

Tender No, Tender Name, Name of Work, To Whom Submitted, Emd Amount, Receipt No, Status.

TENDER APPROVAL:

The inputs for this process are as follows:

Tender No, Name of The Work, EMD Paid, Agreement No, Agree Date, Job No, Site Name.

BILLING:

The inputs for this process are as follows:

Bill Date, Bill No, Tender No, Agreement No, Agreement Date, Site Name, Name of The Work, Job No, EMD Paid, Status, Additional Amount, Less Description, Less Amount.

INVOICE:

The inputs for this process are as follows:

. Invoice No, Invoice Date, Dc Number, Dc Date, Name of The Concern, Additional Amount, Total Amount.

DELIVERY CHALLAN:

The inputs for this process are as follows:

Dc Number, DC Date, Job No, Site Name, Delivery Through.

3.2 INFORMATION PROCESSING REQUIRED:

1. Here in the first process, we will have to enter the values for adding a new tender.
2. If the tender is approved then we will have to take into account the agreement no, date, EMD paid etc., on the other hand if the tender is declined then the EMD amount has to be taken note of for reimbursement.
3. After the tender is approved, and then the billing process has to be done, the billing may be of two running and final.
4. The next process is to prepare the invoice.
5. The last process is to prepare the delivery challan.

3.3 LIST OF OUTPUTS:

The outputs from the various processes are as follows:

1. The output of the tender process enables us to determine whether the tender is approved, declined or supported.
2. The output of the invoice process enables us to see the reports based on the party and also based on the date.
3. The output of the dc process enables us to see the reports based on the date and also based on the job.

Performance Requirements

4 PERFORMANCE REQUIREMENTS:

4.1 SECURITY:

Here only authorized persons will be able to access the software.

4.2 PERFORMANCE EXPECTATIONS:

The software should be faster while transacting data to and from database.

The software should support for a number of users.

4.3 RELIABILITY EXPECTATIONS:

The software should not crash and exit.

The software should be able to recover and proceed to function as usual.

The database should not be corrupted while using the software.

4.4 RESPONSE TIME:

The response time should be fast .It should be in the order of milliseconds.

4.5 PORTABILITY:

The software should work on Windows 95, Windows 98 and Windows NT platform.

Design Constraints

5. DESIGN CONSTRAINTS:

5.1 HARDWARE LIMITATIONS:

There are no specific hardware limitations for this software .

5.2 USER INTERFACES:

Login screen- To enter the user name and password.

Element list screen- To add,modify and delete information.

Software load screen- To add,modify and delete software load information.

Test case screen- To log the test case information.

Problem screen- To log the problem and solution for the test case.

User interfaces to generate and view reports based upon the user query.

5.3 SOFTWARE LIMITATIONS:

The software will support only for limited number of users.If the number of users increases ,the MS access database has to be ported to oracle or SQL server.

M/s Convel Control Systems - Adding New Tender

Toolbar with icons and labels: Add, Delete, Modify, View, First, Next, Previous, Last, Cancel, Save, Exit.

Tender No.

Tender Date

Name of the Work

To Whom Submitted

Estm Amount Paid

Receipt No.

Status:
Pending
Declined
Supporting

MS Control Systems - Tender Approval

TenderNo:

Name of the Work:

Equip Paid:

Agreement Number:

Agreed Date:

Job No:

Site Name:

S/N	Description	Link	Quoted Amount	Meddicated Amount	Qty
1					
2					
3					
4					

Add Delete Modify View First Next Previous Last Cancel Save Print Exit

Bill Date: Bill No:

Tender No:

Agreement Number:

Agreed Date:

Site Name:

Name of the Work:

Job No:

Emd Paid:

Status:

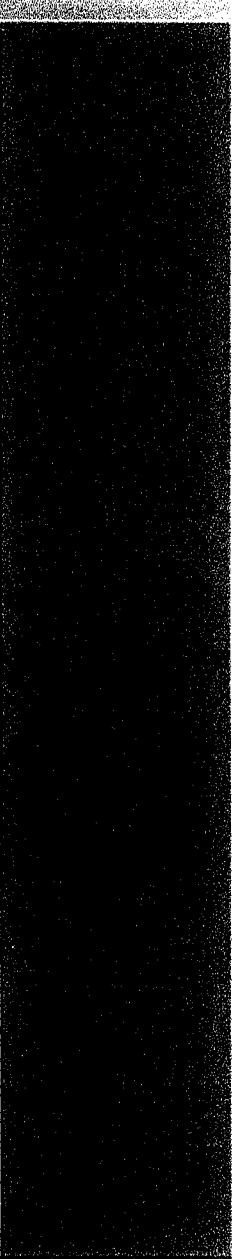
Additional:

Additional Amount:

Less Description:

Less Amount:

Sl No	Description	Unit	Rate	Qty	Amount
1					
2					
3					
4					



Add Delete Merge View Find Next Previous Done Cancel Save Print Exit

DC Number

DC Date

Job Number

Site Name

Delivery Through

Sl No	Item Code	Description	Unit	Rate	Qty	Amount
1						
2						
3						
4						

M's Convel Control System's - Registrar

Vendor Billing Approval New

Material About Exit

Purchase Show Purchase Exit

Print Exit

Help Exit

Select the Starting and Ending Date

Selected All

Enter Name

axe
jlojpklllo

OK Close

M's Convel Control System 's - Registrar

Transfer Printing Material About Help

Print Preview Refresh Save Cancel

Print Preview Refresh Save Cancel

Select the Starting and Ending Date

Starting Date: 12/03/2000

Ending Date: 13/03/2000

OK Close



M/s Convel Control System 's -Registrar

Tender Billing Material About Exit



New



Approval



Billing



Purchase



Site Wise



Calculator



Exit

TENDER STATUS REPORT

Tender No	Tender Date	Name of the Work	Submitted to Whom	End Paid	Receipt No	Status
646	06/02/2000	fixing the post	abc	Rs.2,166.00	1111	Approved
123	29/02/2000	rubkjm,j	hghjb n	Rs.2,879.00	91870	Approved
656	01/02/2000	fgfoungkfp	hjhk k.jl;	Rs.999.00	9	Approved
888	08/02/2000	jui jounjpo	nukvnuui	Rs.99,990.00	8	Approved
234	01/02/2000	Erection of post	abc industries	Rs.5,000.00	234	Approved
2122	17/02/2000	asdasda	12312	Rs.1,231.00	12312312	Pending

2403000

Convel Control System - Date Wise Purchase Report

24/02/2000

Invoice No	Invoice Date	DC No	DC Date	Name of the Concern	Amount
234	03/02/2000	234	04/02/2000	abc	600.00
2444	09/02/2000	355	16/02/2000	axe	201,179.00
8080	15/02/2000	9808	01/02/2000	ijjpk[lo	16,019,783.00
800	24/02/2000	80	29/02/2000	g[ig	703,812,713.00
					Rs. 720,034,275.00

Party Wise - Purchase Report
axg

Invoice No 2444
Invoice Date 02/09/2000
Dr Number 355
Dr Date 16/02/2000

Item Code	Description	Unit	Rate	Qty	Amount
111	dirgh	Z3	23,464.00	8	187,712.00
Additional					187,712.00
Total Amount					Rs.201,179.00

Implementation and Testing

6. IMPLEMENTATION AND TESTING:

The implementation phase of the software development is concerned with converting source code into an operational one. In this system, system implementation has taken place in various stages, namely,

1. Implementation planning
2. Education and training
3. System testing
4. Changeover

6.1 IMPLEMENTATION PLANNING:

In order to implement the system developed, planning is very essential.

Proper planning has been done to take care of the issues listed below: -

- ❖ Implications of the system environment
- ❖ Standby facilities
- ❖ Channels of communication
- ❖ Resources available
- ❖ Methods of changeover

6.2 EDUCATION AND TRAINING:

In order to achieve the objectives and benefits expected from the new system developed, people involved must be confident of their role in the systems, education and training has to be given to the user department about the new system developed.

Detailed user manual was prepared for this purpose .The manual contain details about all the files and procedures that has been modified and the type and purpose of the changes made.

6.3 SYSTEM TESTING:

System testing is an important and critical phase of the implementation process. This is done to test the accuracy and efficiency of the system developed.

The first test of the system is to see whether it produces correct outputs. The proper choice of test data is as important as the test itself. Test data may be artificial or live. Properly created artificial data should provide all combination of values and formats and make it possible to test all the logic and transaction path subroutines.

Conclusion and Scope