

“Sales and Inventory Management System”

A PROJECT REPORT

Submitted in partial fulfillment for the award of the degree of

B.TECH

in

Information Technology

By

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Abstract

For optimal sales and inventory management processes, you need robust functionality for managing your logistics facilities. Support for inventory management helps you record and track materials on the basis of both quantity and value. Warehouse inventory management functions cover internal warehouse movements and storage. Using this software we can reduce costs for warehousing, transportation, order fulfillment, and material handling – while improving customer service. You can significantly improve inventory turns, optimize the flow of goods, and shorten routes within your warehouse or distribution centre. Additional benefits of inventory management include improved cash flow, visibility, and decision making. This software is user friendly and hence easy to use. Employees can plan, enter, and document warehouse and internal stock movements by managing goods receipts, goods issues, storage, picking and packing, physical stock transfers, and transfer postings.

Introduction

For optimal sales and inventory management processes, you need robust functionality for managing your logistics facilities. Support for inventory management helps you record and track materials on the basis of both quantity and value.

Warehouse inventory management functions cover internal warehouse movements and storage. Using this software we can reduce costs for warehousing, transportation, order fulfillment, and material handling – while improving customer service. You can significantly improve inventory turns, optimize the flow of goods, and shorten routes within your warehouse or distribution center. Additional benefits of inventory management include improved cash flow, visibility, and decision making. This software is user friendly and hence easy to use.

Employees can plan, enter, and document warehouse and internal stock movements by managing goods receipts, goods issues, storage, picking and packing, physical stock transfers, and transfer postings.

Literature Review

Inventory management is considered as major concerns of every organization. In inventory holding, many steps are taken by managers that result a cost involved in this row. This cost may not be constant in nature during time horizon in which perishable stock is held. Study was to examine students' perceptions of designing and developing mobile based instructions by interviewing and surveying of graduate students. Results of the survey and qualitative data analysis indicated that usability was a key issue on the mobile device. Users enjoyed quick access, good organization, user control, single column layouts, and large links/buttons. These findings contribute to the literature base on the design and development of mobile based instruction.

A design literature discusses the role of the studio and its related pedagogy in the development of design thinking. Scholars in a variety of design disciplines pose a number of factors that potentially affect this development process, but a full understanding of these factors as experienced from a critical pedagogy or student perspective is lacking.

These characteristics are uncertainty, network effect, unseen social and ethical concerns, cost, limitation to particular countries, and a lack of investigation and research. Today's industry projects and extensive literature suggest the importance of customer integration for companies' innovation success. In this exploratory study, Strub and et al (2013), build on established customer role concepts to study the status quo of customer integration in industry, as well as reservations against the roles and negative experiences from customer integration projects.

The study reveals a gap between reservations and actual negative experiences in losing know-how, as well as a positive effect of experience in customer integration on perceived benefits for the company. Antonelli and et al (2013) aims to identify Information Technology benefits in individual work. With technologies fully implemented, greater satisfaction was observed for all constructs of the survey, with statistically significant differences. When comparing age, it was found that younger users were more satisfied with the benefits of technology.

Concerning the number of employees, small business users were less satisfied with Information Technology. The model predicts that the level of innovation of an SME will significantly influence its probability of outsourcing. Besides, it stresses the negative incidence of the information and communication technologies (ICT) access on the outsourcing decision

Problems Perspective

As we know manual system are quite tedious ,time consuming and less efficient and accurate in comparison to the computerized system.

So following are some disadvantages of the old system:

1. Time consuming
2. Less accurate
3. Less efficient
4. Lot of paper work
5. Slow data processing
6. Not user friendly environment
7. Difficult to keep old records

Operating Environment – Hardware and Software

HARDWARE REQUIREMENTS

- Processor: Pentium 4 or more for optimum performance
- RAM: Recommended 256MB
- Hard Disk: Minimum 20GB

SOFTWARE REQUIREMENTS

- Operating System - Certified Distribution of WINDOWS
- Visual Basic 2005 Express Edition
- Database(Backend) - MS Access 2003

Proposed System

Objectives

- The main objective of this system is to keep records of the complete inventory.
- It support for inventory management helps you record and track materials on the basis of both quantity and value.
- It improves cash flow, visibility, and decision making.
- For warehouse management, you can track quantity and value of all your materials, perform physical inventory, and optimize your warehouse resources

User Requirements

FUNCTIONAL REQUIREMENTS

A INPUT/OUTPUT

1. System shall have a form to accept the customer details.
2. System shall have a form to accept the Plant details.
3. System shall display transaction details.
4. System shall provide search facility on customer name, Order Placed, date of order, date of order dispatch, date of transaction, transaction amount, credit card no etc.
5. System should provide facility for change in address/name.
6. System should maintain the details about placing order/dispatch or order i.e, order status

B. PROCESSING

1. System should automatically generate the bill.
2. System should inform the pending order and make changes if the order is dispatched.

C. ERROR HANDLING

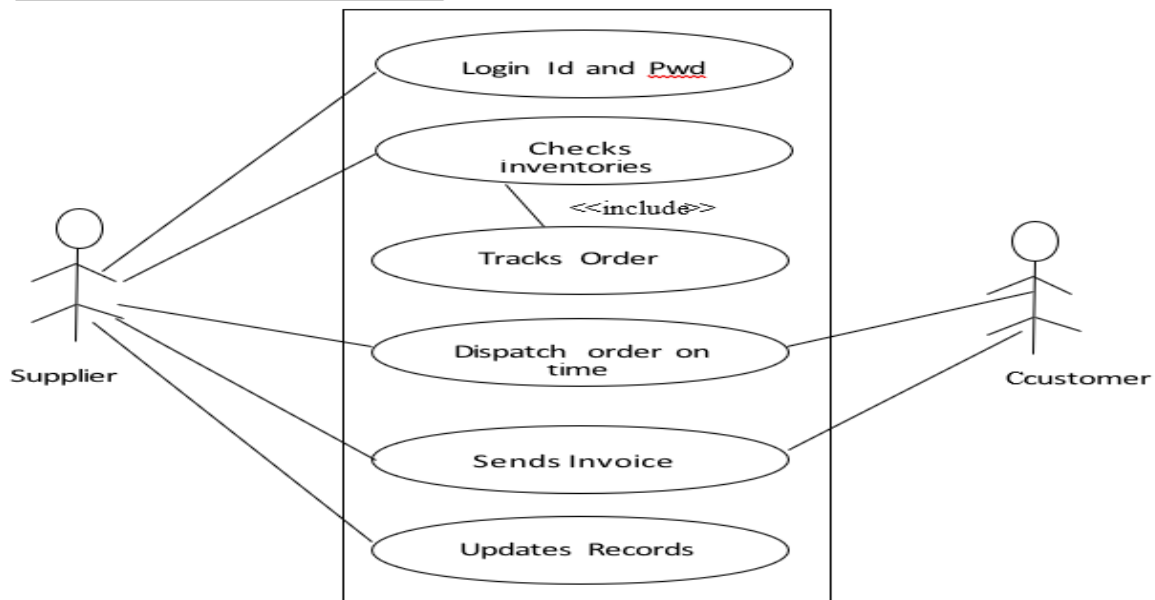
1. Should report any errors on duplicate primary keys.
2. Should report any 'Out of Range' values on numeric fields
3. Should report any data type mismatches any field on the forms.
4. Should report on any 'Invalid dates'
5. Should report any violation of authorization of rights
6. Should report any Invalid Login errors

NON-FUNCTIONAL REQUIREMENTS

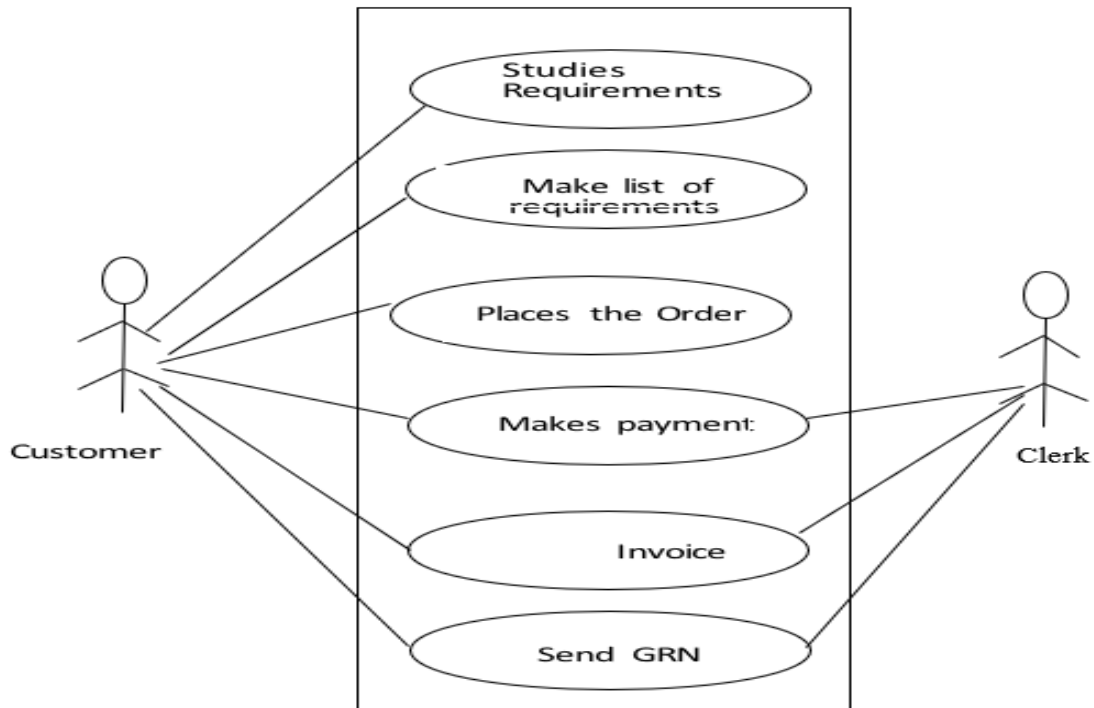
1. All user manuals should be provided in the necessary format
2. Application should support 5 simultaneous users.
3. Transaction should be completed within 1/5th of second
4. There will be backup procedure to maintain record

ANALYSIS & DESIGN

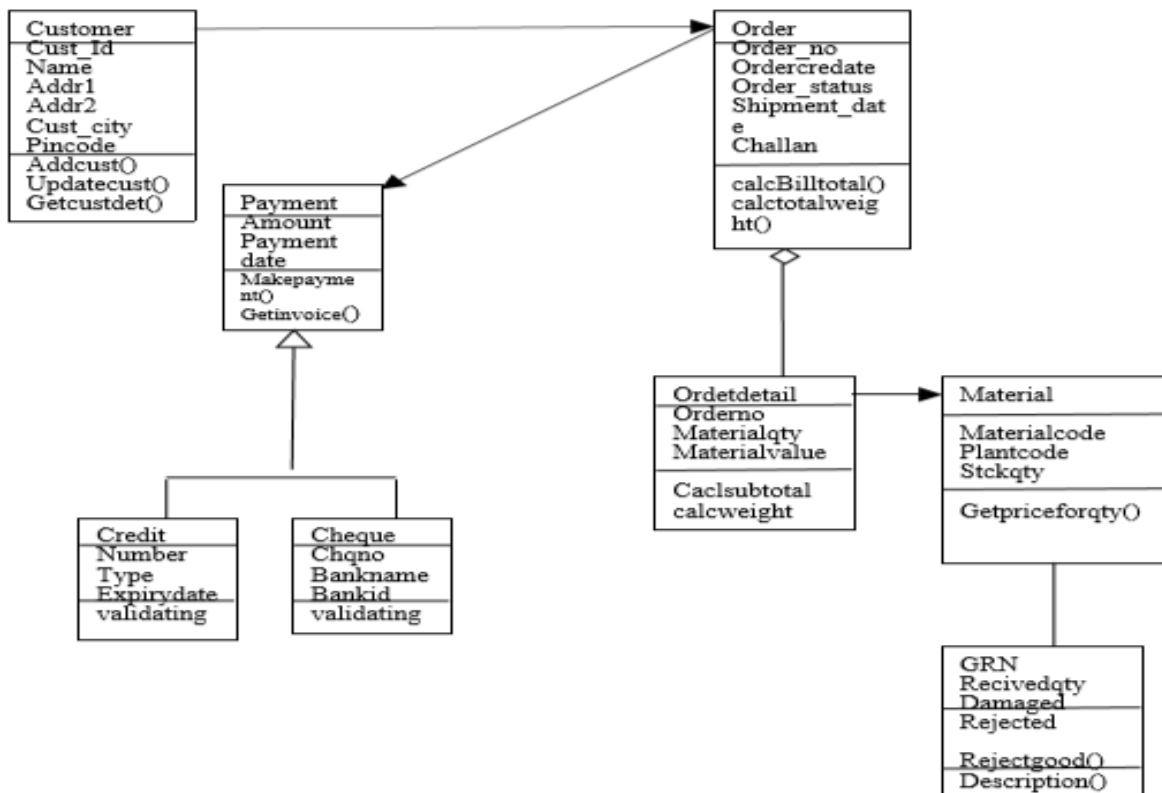
Use case Diagram for Supplier



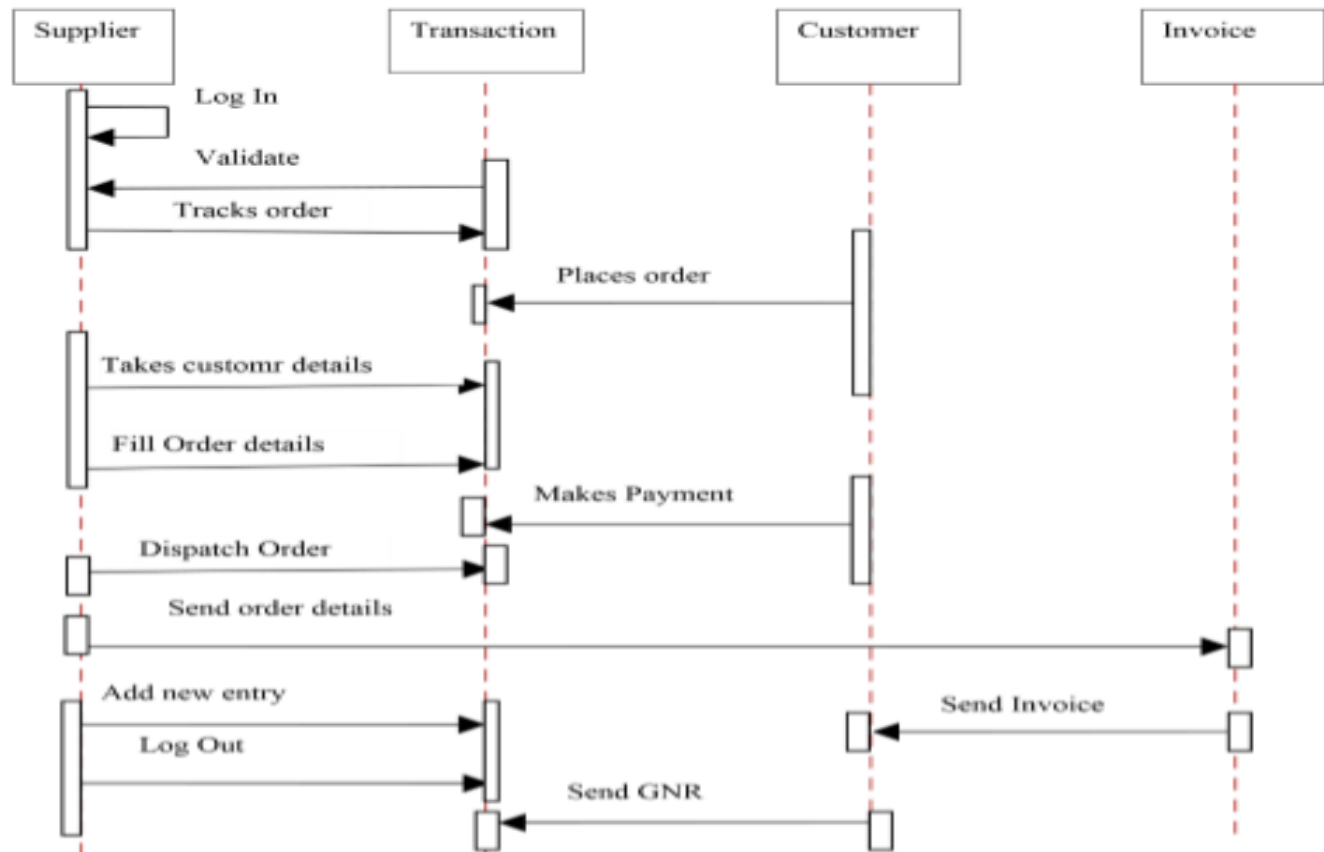
Use Case Diagram for Customer



Class Diagram for a customer order



Sequence diagram for Supplier



Input Screens

Splash Screen

Sales And Inventory Management System
Version 1.0

Developed By:
Sneha Brahmane
Dhanashri Upasani

Loading...

Login Form

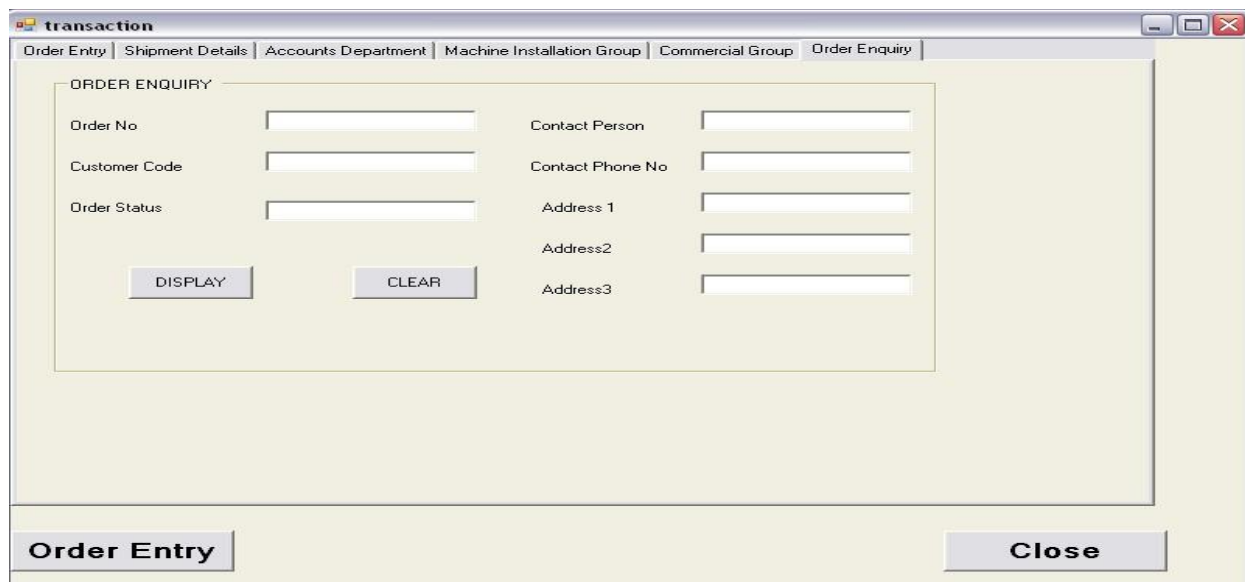


A screenshot of a Windows-style login window titled "Login". On the left is an icon of a blue server tower with a large yellow key in front of it. To the right of the icon are two input fields: "Username" with the text "ADMIN" and a dropdown arrow, and "Password" with masked characters "XXXXXX". Below these fields are two buttons: "OK" with a key icon and "Cancel" with a red 'X' icon.

Main Form



Transaction screen



A screenshot of the "transaction" window. It has a tabbed interface with tabs for "Order Entry", "Shipment Details", "Accounts Department", "Machine Installation Group", "Commercial Group", and "Order Enquiry". The "Order Enquiry" tab is active, showing a form with the following fields: "Order No", "Customer Code", "Order Status", "Contact Person", "Contact Phone No", "Address 1", "Address2", and "Address3". There are "DISPLAY" and "CLEAR" buttons below the first three fields. At the bottom of the window are "Order Entry" and "Close" buttons.

Order Enquiry

transaction

Order Entry | Shipment Details | Accounts Department | Machine Installation Group | Commercial Group | Order Enquiry

ORDER ENQUIRY

Order No Contact Person

Customer Code Contact Phone No

Order Status Address 1

Address 2

Address 3

DISPLAY CLEAR

Order Entry Close

Material Details

Material

Material Detail

Material Code

Material Description

Shipping Plant

Material Price

	material_code	material_desc	shipping_plan	material_price
▶	COMP003	AMD Process	P002	7500
	COMP002	Intel 915 Mot	P003	7000
	COMP001	INTEL	P002	5000
*				

<< < > >> Add Edit Search Delete Refresh

Plant Details

Plant

Plant Details

Plant Code: P001 City: New Delhi

Plant Name: Arvind Mills Pincode: 110008

Address1: address1

Address2: address2

Address3: address3

	plant_add1	plant_add2	plant_add3	plant_city	plant_code	plant_name	plant_pincode
▶	address1	address2	address3	New Delhi	P001	Arvind Mills	110008
	add1	add2	add3	Pondicherry	P002	Pondicherry	440044
	nn1	nn2	nn2	Pune	P003	Pune Init3	98117

<< < [] > >> Add Edit Search Delete Refresh

State Details

State

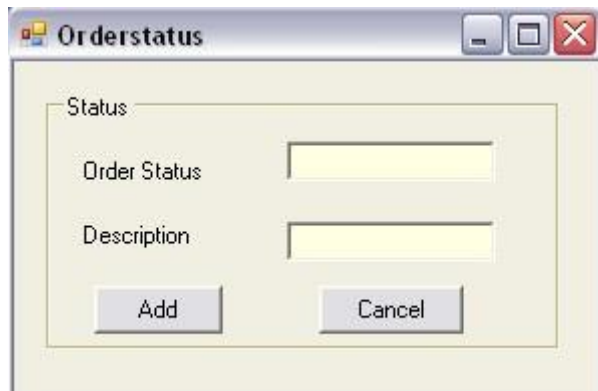
State

State Code: []

Description: []

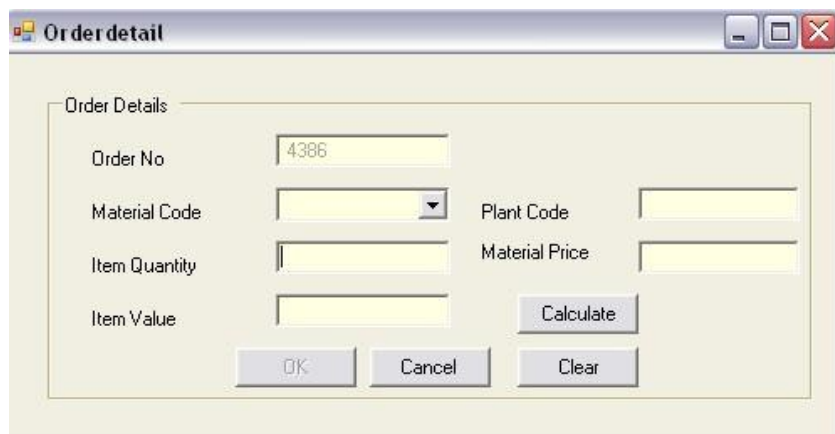
Add Cancel

Order Status



The screenshot shows a dialog box titled "Orderstatus". It contains a "Status" section with two text input fields: "Order Status" and "Description". Below these fields are two buttons: "Add" and "Cancel".

Order Details



The screenshot shows a dialog box titled "Order detail". It contains an "Order Details" section with several input fields and buttons. The "Order No" field contains the value "4386". The "Material Code" field is a dropdown menu. The "Plant Code" field is empty. The "Item Quantity" field is empty. The "Material Price" field is empty. The "Item Value" field is empty. There are three buttons at the bottom: "OK", "Cancel", and "Clear". A "Calculate" button is located to the right of the "Item Value" field.

Customer Details

Customer

Customer Details

Customer Code: P-2

Customer Name: Parul

Initials: P

Address1: ppp

Address2: ppp

Address3: ppp

Contact Details

Name: Parul

Contact Number: 01127455162

Pincode: 110007

City: delhi

State Code: DL

Customer Details

	cust_sno	cust_name	cust_initial	cust_add1	cust_add2	cust_add3	contact_perso	contact_perso	cu
▶	P-2	Parul	P	ppp	ppp	ppp	Parul	01127455162	111
	H-1	HCL	H	noida1	noida2	noida3	HCL	911	111
	Y-2	yogesh	Y	ad1	ad2	ad3	Yogi	988987989	111
	A-5	Ajay	A	nn	mm	bb	Ajay Singh K	935010233	111
	A-1	Ankur Arora	A	A1 Ramesh N	A2 Supriya A	A3 Banaras ci	Ankur Arora	9968287773	111

<< < [] > >> Add Edit Search Delete Refresh

Add Plant

Addplant

Plant Details

Plant Code: []

Plant Name: []

Address1: []

Address2: []

Address3: []

City: []

Pincode: []

Add Clear Cancel

Add Customer

The 'Addcust' dialog box is used to enter customer information. It is divided into two main sections: 'Customer Details' and 'Contact Details'.

Customer Details		Contact Details	
Customer Code	123	Name	SNeha
Customer Name	Sneha	Contact Number	9876543210
Initials	SPB	Pincode	411011
Address1	Kakde City	City	Pune
Address2	karvenagar	State Code	MH
Address3	near xyz farms		

At the bottom of the dialog, there are three buttons: 'Add', 'Clear', and 'Cancel'.

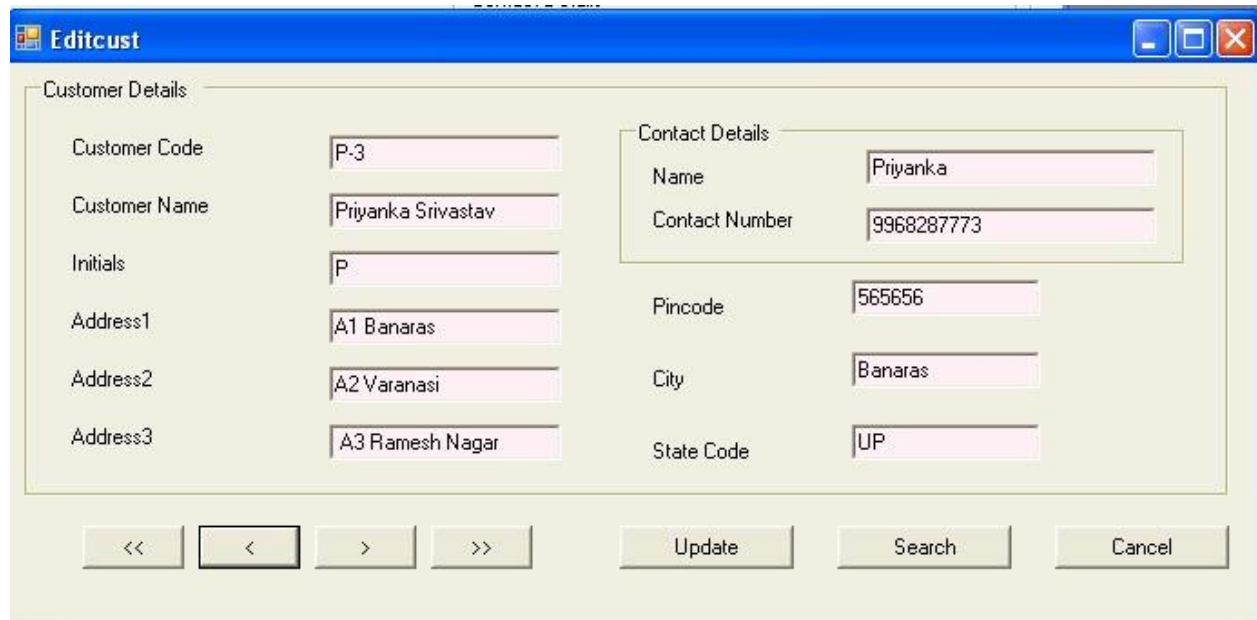
Search Customer

The 'Search Option' dialog box allows the user to choose how to search for a customer. It contains a list of two options:

1. Search by Customer Code
2. Search by Customer Name.

Below the list is a text input field for the search criteria. To the right of the list are 'OK' and 'Cancel' buttons.

Update customer



The screenshot shows a window titled "Editcust" with a blue title bar and standard Windows window controls. The window contains two main sections: "Customer Details" and "Contact Details".

Customer Details:

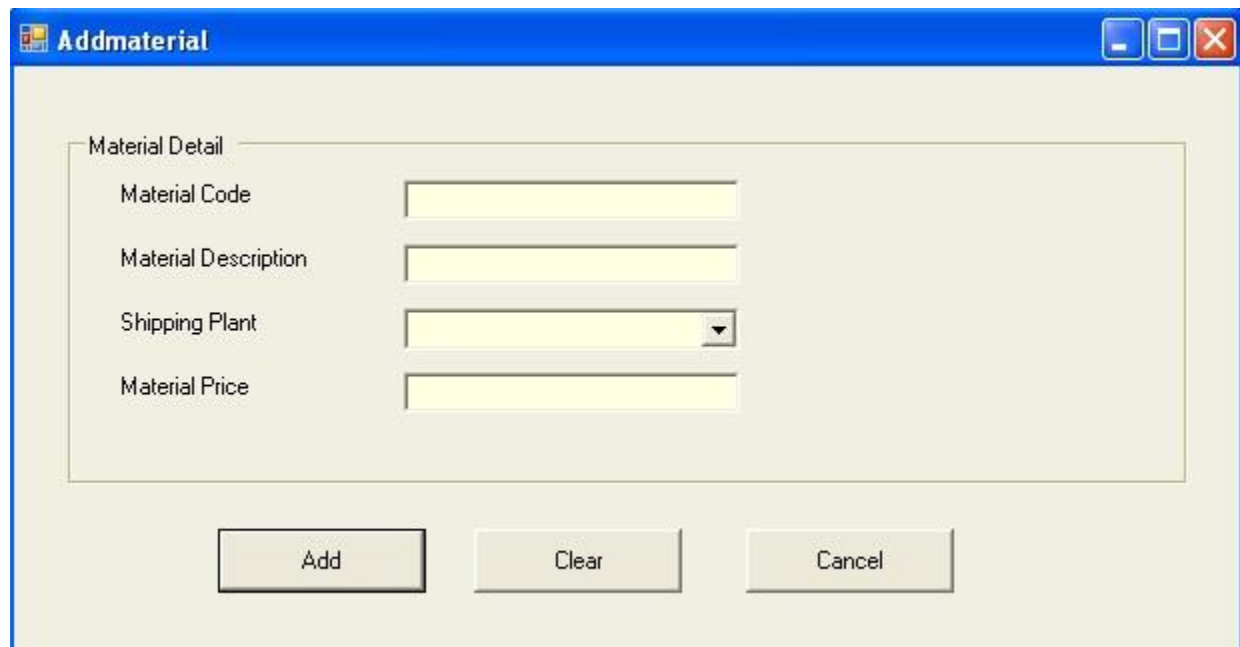
- Customer Code: P-3
- Customer Name: Priyanka Srivastav
- Initials: P
- Address1: A1 Banaras
- Address2: A2 Varanasi
- Address3: A3 Ramesh Nagar

Contact Details:

- Name: Priyanka
- Contact Number: 9968287773
- Pincode: 565656
- City: Banaras
- State Code: UP

At the bottom of the window, there are several navigation buttons: "<<", "<", ">", ">>", "Update", "Search", and "Cancel".

Add material



The screenshot shows a window titled "Addmaterial" with a blue title bar and standard Windows window controls. The window contains a section titled "Material Detail" with four input fields:

- Material Code: [Empty text box]
- Material Description: [Empty text box]
- Shipping Plant: [Dropdown menu]
- Material Price: [Empty text box]

At the bottom of the window, there are three buttons: "Add", "Clear", and "Cancel".

Table specifications

UID_PASS (Login Table)

Column Name	Data Type	Size	Description
USER_NAME	Text	50	User name of the ADMIN/OPERATOR
PASSWORD	Text	50	Password of the ADMIN/OPERATOR

customer_master (Customer Details Table)

Column Name	Data Type	Size	Description
cust_sln0 (PK)	Num	6	Customer identification
cust_name	Text	50	Name of the customer
cust_add1	Char	40	Address line one of the customer
cust_add2	Char	40	Address line two of the customer
Cust_add3	Char	40	Address line three of the customer
cust_pincode	Num	6	Pin code of the customer address
cust_city	Char	15	City of the customer
contact_person_name	Char	30	Name of the person responsible for order making
contact_person_number	Num	10	Phone number for the person who made the order
State_code (FK)	Char	2	Initials of the state derived from state details table

state_master (State Details table)

Column Name	Data Type	Size	Description
state_code	char	2	Code Of the state eg. MH -maharashtra
state_description	char	50	Description of the code.

material_master (Material Detail Table)

Column Name	Data Type	Size	Description
cust_slno (PK)	Num	6	Customer identification
material_code	char	10	Code of the material
material_description	Char	20	Describing the material specification
shipping_plant	Char	4	It gives detail of shipping plant n is linked with plant master table
material_price	Num	10	Price of the material

Values Like :

COMP001

Computer – Pentium IV

PMP1 – Pune Plant – Unit I

PMP2 – Pune Plant – Unit II

PMP3 – Pune Plant – Unit III

Material_price - 5000 plant_master

(Plant Details Table)

Column Name	Data Type	Size	Description
plant_code	Num	6	
plant_name	char	10	Code of the material
material_description	Char	20	Describing the material specification
shipping_plant	Char	4	It gives detail of shipping plant n is linked with plant master table
material_price	Num	10	Price of the material
Plant_add	Char	40	Address of plant
Plant_city	Char	15	City of plant
Plant_code(pk)	Char	15	Code of plant

status_master (Order Status Master)

Column Name	Data Type	Size	Description
order_status	char	4	Status of order in short
description	char	50	Description of the plant.

Order Status Code & Values

OED	-	Order Entry done
OCHKD	-	Order checked
CLRD	-	Order cleared
SCHD	-	Order scheduled
SHIPDIS	-	Order Shipped by dispatch section
INVG	-	Invoice generated by accounts department
MACI	-	Machine installed by installation group
PYMR	-	Payment Received from customer

TRANSACTIONAL TABLES TO BE CREATED

ORDER_HEADER(ORDER Header Information Table

Column Name	Data Type	Size	Description
order_no (pk)	Num	8	Number of order
order_creation_date	Date	-	Date of the order placement
order_status	char	4	Status of order
customer_ref_no	char	20	Reference number of the customer
customer_ref_date	date	-	date on which customer referred
Order_value	Num	11	Value of each order
material_required_date	Date		Date on which customer needs the delivery

customer_sln (FK)	Num	6	Customer identification number
delivery_challan_ no	num	8	Delivery challan number
shipment_date	Date		Date on which material dispatched
invoice_number	num	8	Number of invoice
invoice_date	date	-	Date of invoice
transporter_name	char	40	Name of the transporter
plant_code (FK)	char	4	Code of the plant
machine_installed_ _by	char	40	Name of the person who installed the machine
cheque_no	num	20	Number of cheque
bank_name	char	15	Name of the bank

ORDER_DETAIL (Order Detail Information Table line item wise)

Column Name	Data Type	Size	Description
order_no(FK)	Num	8	Number of order
material_code (FK)	Num	8	Code of material
item_qty	num	6	Quantity of the item
item_value	Num	11	Value of item

stock_master(Item Stock Master Table)

Column Name	Data Type	Size	Description
material_code (FK)	Num	8	Code of material
plant_code(FK)	char	4	Code of plant
stock_qty	Num	6	Stock of item quantity

order_tracking(Order_status_tracking Table)

Column Name	Data Type	Size	Description
order_no (FK)	Num	8	Number of order
order_status	char	4	Description of item status
creation_date	date		Date on which order was created

Test Procedures and Implementation

Testing presents an interesting anomaly for the software engineer. During earlier software engineering activities, the engineer attempts to build software from an abstract concept to a tangible product. Now comes testing. The engineer creates a series of test cases that are intended to “demolish” the software that has been built. In fact, testing is the one step in the software process that could be viewed (psychologically, at least) as destructive rather than constructive.

Software engineers are by their nature constructive people. Testing requires that the developer discard preconceived notions of the “correctness” of software just developed and overcome a conflict of interest that occurs when errors are uncovered.

If testing is conducted successfully (according to the objectives stated previously), it will uncover errors in the software. As a secondary benefit, testing demonstrates that software functions appear to be working according to specification, that behavioral and performance requirements appear to have been met. In addition, data collected as testing is conducted provide a good indication of software reliability and some indication of software quality as a whole. But testing cannot show the absence of errors and defects, it can show

Only that software errors and defects are present. It is important to keep this (rather gloomy) statement in mind as testing is being conducted.

Testing principles

Before applying methods to design effective test cases, a software engineer must understand the basic principle that guide software testing:

All tests should be traceable to customer requirements Tests should be planned long before testing begins

80 percent of all errors uncovered during testing will likely be traceable to 20 percent of all program components. The problem, of course, is to isolate these suspect components and to thoroughly test them.

Testing should being “in the small” and progress toward testing “in the large”.

Exhaustive testing is not possible

To be most effective an independent third party should conduct testing

A rich variety of test case design methods have evolved for software. These methods provide the developer with a systematic approach to testing. More important, methods provide a mechanism that can help to ensure the completeness of tests and provide the highest likelihood for uncovering errors in software.

Any engineered product (and most other things) can be tested in one of two ways:

Knowing the specified function that a product has been designed to perform, tests can be conducted that demonstrate each function is fully operational

While at the same time searching for errors in each function; (2) knowing the internal

Working of a product, tests can be conducted to ensure that “all gears mesh,” that is, internal operations are performed according to specifications and all internal components have been adequately exercised. The first test approach is called black box testing and the second, white-box testing.

White box testing

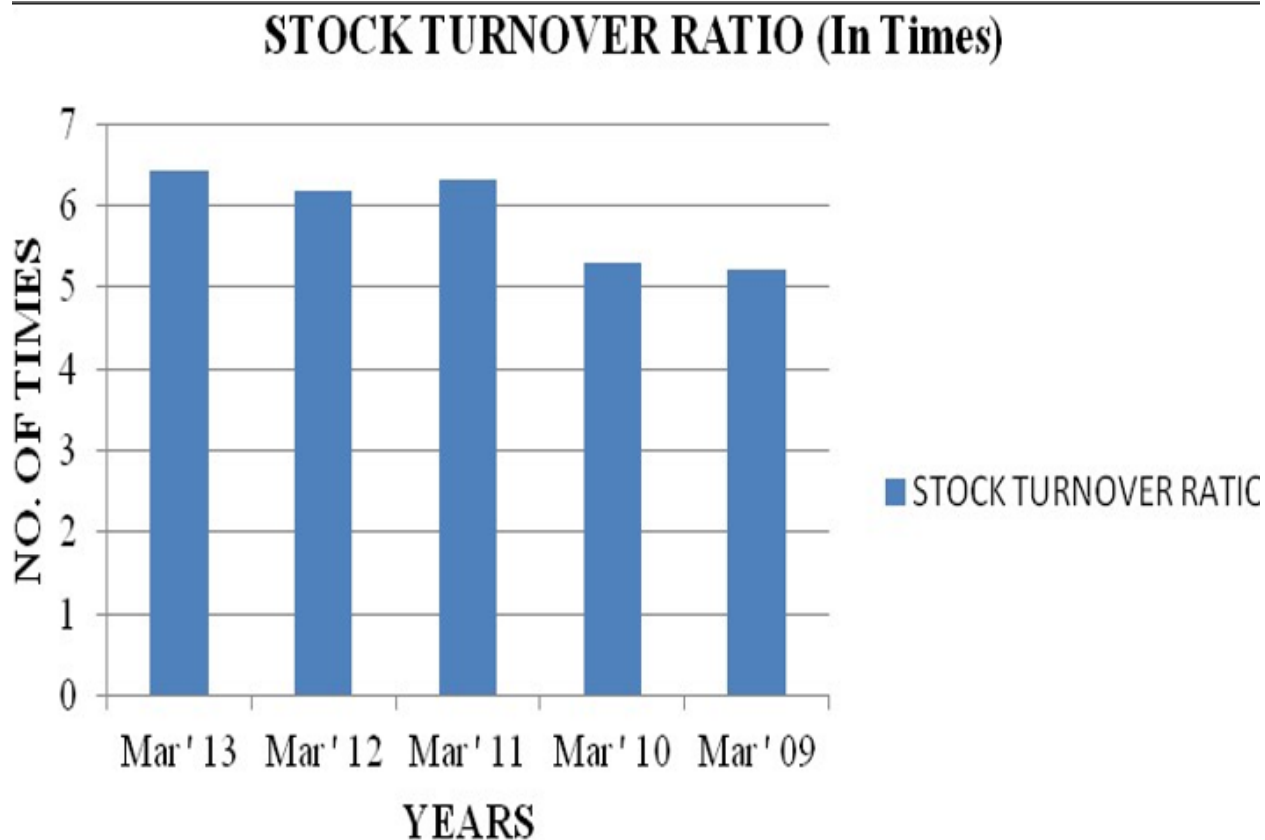
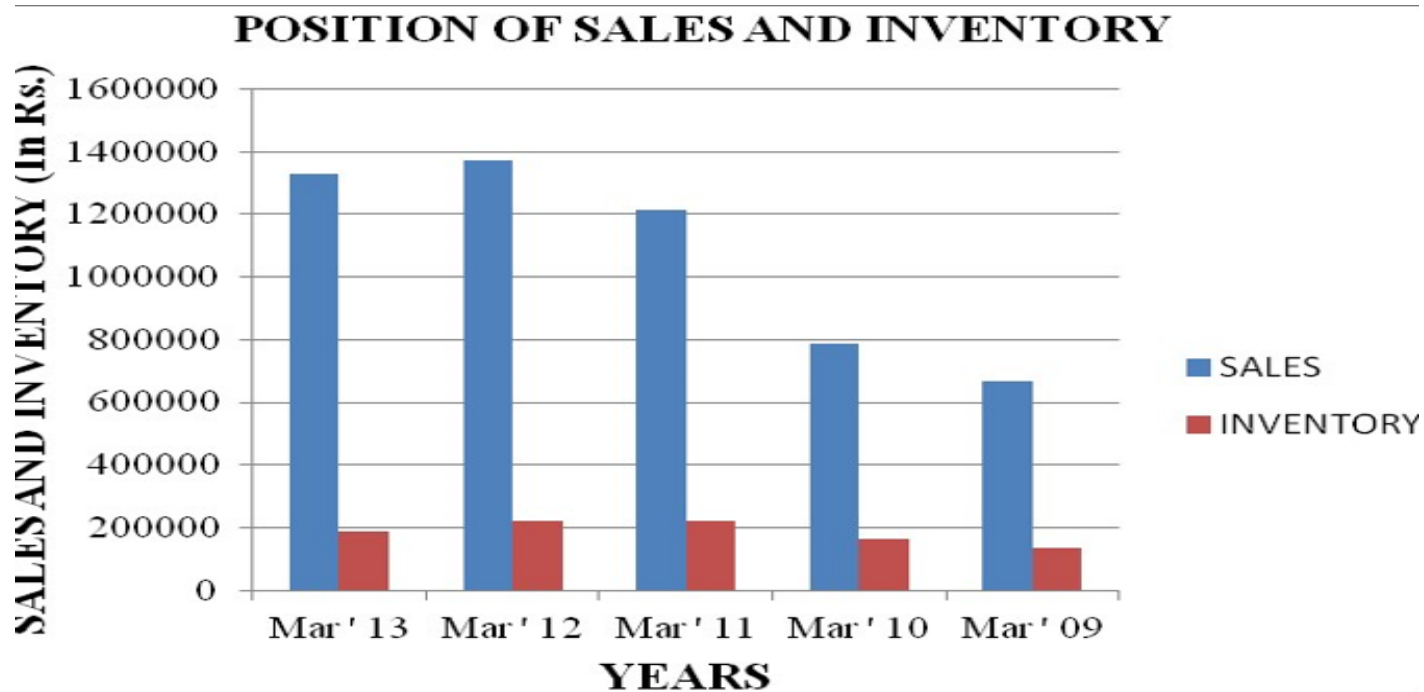
White-box testing of software is predicated on close examination of procedural detail. Providing test cases that exercise specific sets of conditions and/or loops tests logical paths through the software. The “status of the program” may be examined at various points to determine if the expected or asserted status corresponds to the actual status. Basis path testing is a white-box testing technique first proposed by Tom McCabe. The basis path method enables the test case designer to derive a logical complexity measure of a procedural design and use this measure as a guide for defining a basis set of execution paths. White-box testing should not, however, be dismissed as impractical. A limited number of important logical paths can be selected and exercised. Important data structures can be probed for validity. The attributes of both black and white box testing can be combined to provide an approach that validates the software interface and selectively ensures that the internal workings of the software are correct.

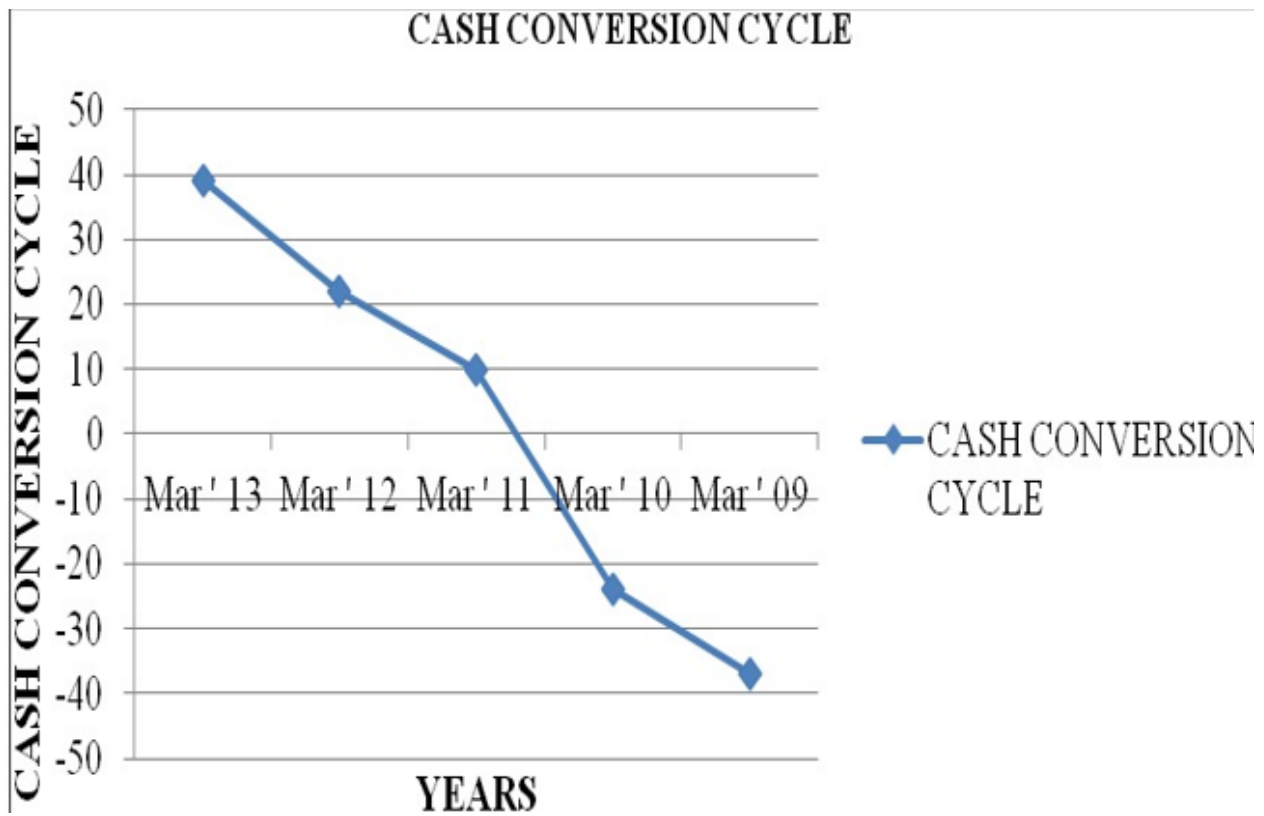
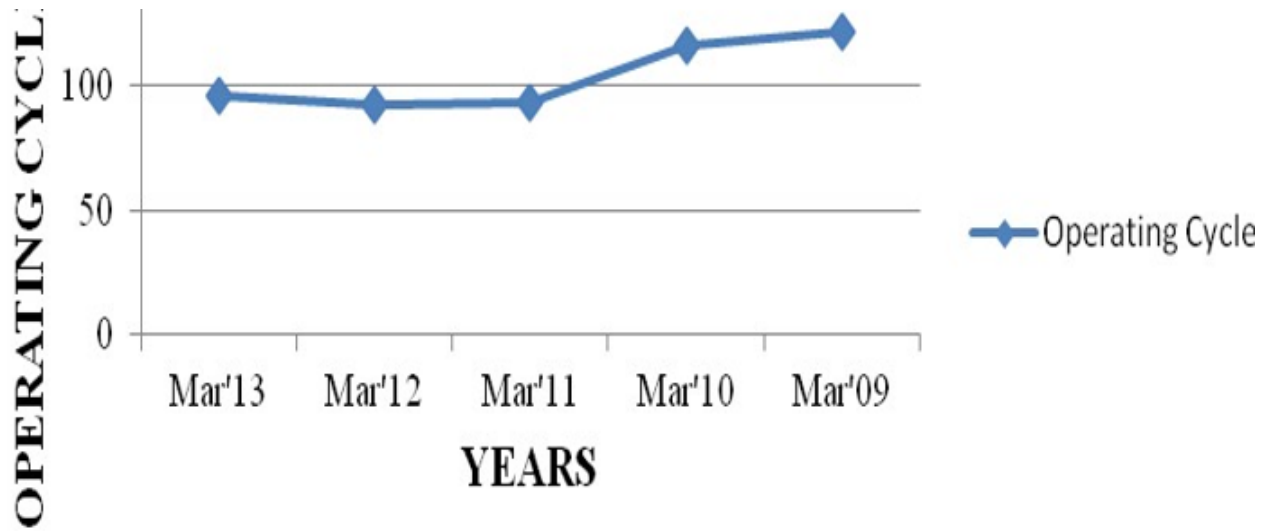
Black box testing

Also called behavioral testing, focuses on the functional requirements of the software. That is, black box testing enables the software engineer to derive sets of input conditions that will fully exercise all functional requirements for a program. Black box testing is not an alternative to white-box techniques. Rather, it is a complementary approach that is likely to uncover a different class of error than white-box methods.

Black box testing for this system was done to check the internal testing i.e, the system is working properly in each case or no. What kind of errors are there in database design.

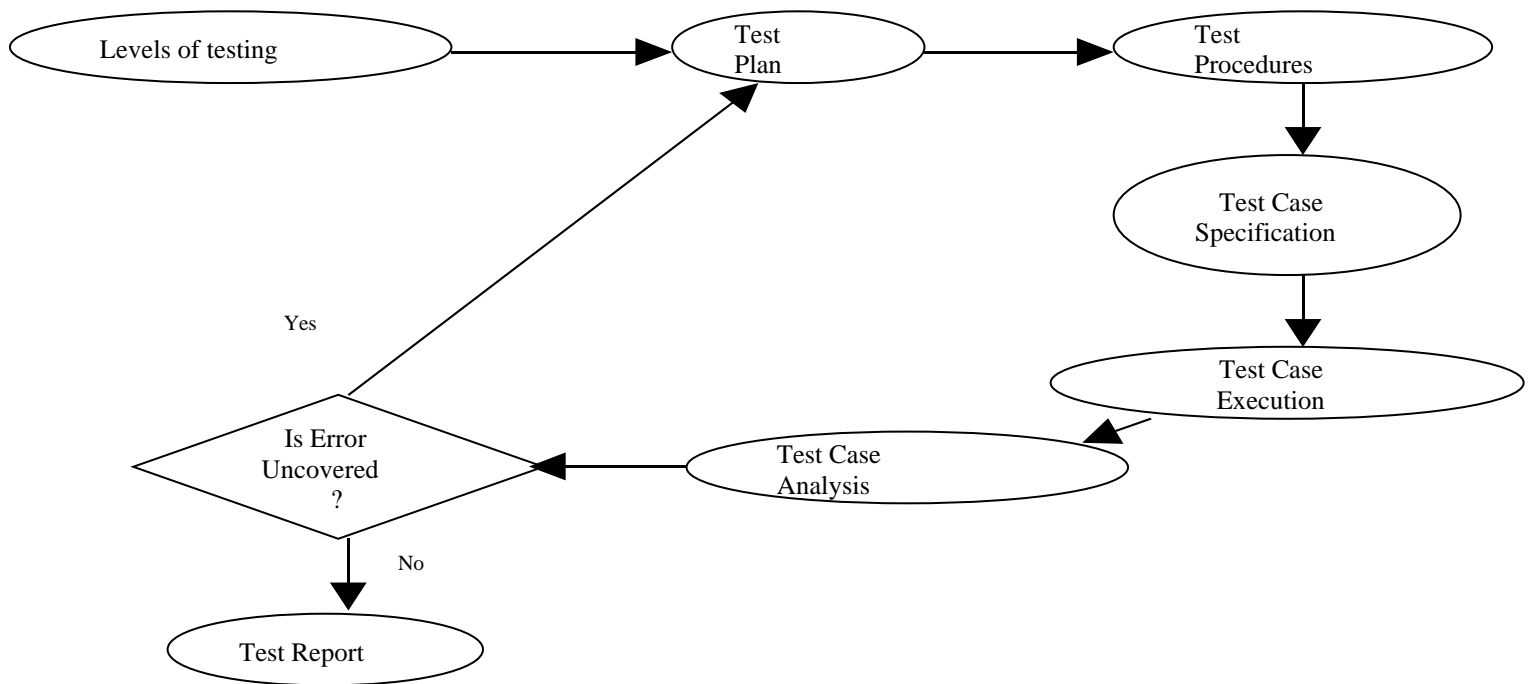
Histogram Vs Graph Of Sales And Inventory





Testing Process

The testing process can be shown as:



USER MANUAL

Menu Explanation

Start Up screen

1.The first menu item of the System screen is transaction screen this screen is the main screen it has all the menu items which help to take order and maintain it in database. The 1st tab is “order entry” this screen will be disabled initially to make an order operator has to click on order entry button at the right hand side of the screen

Order Entry

2.Once that button is clicked the screen is activated and orderno.,oder creation date and order status are auto generated search cust_code by clicking search button and retrieve rest of the customer details. If the customer is new then administrator has to add new customer into database which is only accessed by admin person operator are not given those rights.

3.Once customer details are retrieved click calculate order value button this this will take to the order detail screen where order no is auto generated material code is selected and item qty is to be filled and by clicking on calculate the total is calculated n thus the order is placed

4.To add all details in transaction screen refresh button should be clicked

5.Customer ref number is also have to be filled by operator/admin n then to go on the next screen click on verified

Shipment Details

6.The shipment details are already auto filled by the system operator has to provide the transporter name only

Accounts Department

7.Accounts dept is also auto filled admin has to verify all the details and make order date according to convenience

Machine Installation

8.Next screen is machine installation here the engineer who gonna install the machine is to be given.

Commercial Group

9.In commercial group screen all the payment details are to be filled accordingly once customer makes the payment

10.Thus the records has been created.

Order Enquiry

11.In the next tab we can see the order status.

Admin authority

1.Handling databases is in the power of the admin person only

2.So all customer databases and material database and all master tables are to be handled by the admin person only.

3.These screens are detailed screens so no specific description is needed for the same.

Code Design

Login

```
Public Shared temp As String
    Public Shared flag As Integer
    Dim hcl As Integer
Private Sub Login_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
    OleDbConnection1.Open()
    Dim objReader As OleDbDataReader = OleDbCommand1.ExecuteReader
```



```

        Do While objReader.Read()
            ComboBox1.Items.Add(objReader("USER_NAME"))
        Loop
        OleDbConnection1.Close()
        TextBox1.Focus()
    End Sub

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click

        Dim username, password, temp1, temp2 As String
        Dim Read As OleDb.OleDbDataReader
        If ComboBox1.Text <> "" And TextBox1.Text <> "" Then
            username = UCase(ComboBox1.Text)
password = UCase(TextBox1.Text)
temp = UCase(TextBox1.Text)

                                OleDbCommand2.Parameters.Add("USER_NAME",
Data.OleDb.OleDbType.LongVarChar)
            OleDbCommand2.Parameters("USER_NAME").Value = username
            OleDbConnection1.Open()
            Read = OleDbCommand2.ExecuteReader

            With Read
                While .Read
temp1 = .GetValue(0)
temp2 = .GetValue(1)
                    End While
                End With
                OleDbConnection1.Close()
                If password.Equals(temp1) = True Then
                    Me.Hide()
curr = New Main
                    'curr.Show()
                    curr.Hide()
                Else
                    MessageBox.Show("Wrong Password !!!", "Login Error",
MessageBoxButtons.OK, MessageBoxIcon.Exclamation)
                    GoTo bug1
                    TextBox1.Focus()
                End If
                If temp.Equals("ADMIN") = True Then
flag = 1
                End If
                If temp.Equals("OP") = True Then
                    flag = 2
                End If
                                hcl = MsgBox("Login Successful... Welcome to
Sales and Inventory Management System !!!", MsgBoxStyle.OKOnly + vbInformation,
"Sales And
Inventory Management System")
                If (hcl = MsgBoxResult.OK) Then

```

```

curr = New Main
curr.Show()
End If
Else
    MsgBox("All fields required not to be a null value.", vbExclamation,
"Sales and Inventory Management System") bug1:
    ComboBox1.Focus()
End If
End Sub
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click
    End
End Sub
End Class

```

Transaction screen

```

Imports System.Data

Public Class transaction
    Inherits System.Windows.Forms.Form

    Public Shared temporder_no As Integer
    Public Shared temporder_value As Integer
    Public Shared tempplant_code As String

    Dim random As New random
    Dim num As Integer = random.Next(99999)
    Dim challan_no As Integer = random.Next(999)

    Dim order_no As Integer
    Dim order_creation_date As Date
    Dim order_status As String
    Dim customer_ref_no As String
    Dim customer_slno As String
    Dim customer_ref_date As Date
    Dim order_value As Integer
    Dim plant_code As String
    Dim material_required_date As Date
    Dim customer_initial As String
    Dim delivery_challan_no As Integer
    Dim shipment_date As Date
    Dim invoice_number As Integer
    Dim invoice_date As Date
    Dim transporter_name As String
    Dim machine_installed_by As String
    Dim cheque_no As String
    Dim bank_name As String

    Private Sub Button101_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button101.Click
        Me.Close()
    End Sub
End Class

```

```

End Sub
Private Sub Button100_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button100.Click
    Me.TabPage1.Enabled = True
    Me.TabControl1.SelectedIndex = 0
End Sub
Private Sub transaction_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
    Me.TabPage1.Enabled = False
    Me.TabPage2.Enabled = False
    Me.TabPage3.Enabled = False
    Me.TabPage4.Enabled = False
    Me.TabPage5.Enabled = False
    Me.TabPage6.Enabled = True
    Me.TabControl1.SelectedIndex = 5
    TextBox1.Text = Str(num)
    temporder_no = num
    Button11.Visible = False
End Sub

Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button3.Click

    If TextBox1.Text <> "" And TextBox4.Text <> "" And TextBox5.Text <> ""
And TextBox3.Text <> "" And TextBox21.Text <> "" And DateTimePicker1.Text <>
"" And DateTimePicker5.Text <> "" Then
        Me.TabPage2.Enabled = True
        Me.TabControl1.SelectedIndex = 1
        Me.TabPage1.Enabled = False
order_no = TextBox1.Text
        order_creation_date = DateTimePicker1.Text
        order_status = "SCHD"
customer_ref_no = TextBox4.Text
customer_ref_date = DateTimePicker2.Text
material_required_date = DateTimePicker5.Text
        order_value = TextBox21.Text
plant_code = TextBox5.Text
customer_slno = TextBox3.Text
        TextBox12.Text = Str(order_no)
        TextBox22.Text = order_status
        customer_initial = Mid(customer_slno, 1, 1)
        TextBox46.Text = customer_initial
        TextBox13.Text = Str(challan_no)
    Else
        MsgBox("All fields required not to be a null value.",
vbExclamation, "Sales Management System")
        TextBox3.Focus()
    End If
End Sub

Private Sub Button4_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button4.Click
    If TextBox13.Text <> "" And TextBox14.Text <> "" Then

```

```

        Dim invoice_int As Integer
        Dim random As New Random
        Dim num As Integer = random.Next(99999)

        Me.TabPage3.Enabled = True
        Me.TabControl1.SelectedIndex = 2
order_status = "SHIP"

        delivery_challan_no = TextBox13.Text
shipment_date = DateTimePicker3.Text
transporter_name = TextBox14.Text

        invoice_int = Val(TextBox23.Text) + Val(num)
        TextBox23.Text = Str(delivery_challan_no)
        TextBox28.Text = Str(invoice_int)
        TextBox29.Text = Str(order_value)
        Dim Read As OleDb.OleDbDataReader
        If customer_slno <> "" Then

                accountCommand1.Parameters.Add("cust_slno",
Data.OleDb.OleDbType.Integer)
                accountCommand1.Parameters("cust_slno").Value = customer_slno
                accountConnection1.Open()
Read = accountCommand1.ExecuteReader()

                With Read
                        While .Read
                                TextBox24.Text = .GetValue(0)
                                TextBox25.Text = .GetValue(1)
                                TextBox26.Text = .GetValue(2)
                                TextBox27.Text = .GetValue(3)
                        End While
                End With
                accountConnection1.Close()
        End If
    Else
        MsgBox("All fields required not to be a null value.",
vbExclamation, "Sales Management System")
        TextBox14.Focus()
    End If
End Sub

Private Sub Button5_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button5.Click
    Me.TabPage4.Enabled = True
    Me.TabControl1.SelectedIndex = 3
    order_status = "INVG"
    invoice_number = Val(TextBox28.Text)
invoice_date = DateTimePicker4.Text
    TextBox36.Text = Str(delivery_challan_no)
    Dim Read As OleDb.OleDbDataReader
    If customer_slno <> "" Then

            machCommand1.Parameters.Add("cust_slno",

```

```

Data.OleDb.OleDbType.Integer)
    machCommand1.Parameters("cust_slno").Value = customer_slno
    machConnection1.Open()
Read = machCommand1.ExecuteReader()

    With Read
        While .Read
            TextBox35.Text = .GetValue(0)
            TextBox33.Text = .GetValue(1)
            TextBox34.Text = .GetValue(2)
            TextBox31.Text = .GetValue(3)
        End While
    End With

machConnection1.Close()          End If

End Sub

Private Sub Button6_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button6.Click
    If TextBox30.Text <> "" Then

        Me.TabPage5.Enabled = True
        Me.TabControl1.SelectedIndex = 4
order_status = "MACI"
        TextBox41.Text = Str(order_no)
        TextBox32.Text = order_status
machine_installed_by = TextBox30.Text
        Dim Read As OleDb.OleDbDataReader
        If customer_slno <> "" Then

            comCommand1.Parameters.Add("cust_slno",
Data.OleDb.OleDbType.Integer)
            comCommand1.Parameters("cust_slno").Value =
customer_slno
            comConnection1.Open()
            Read = comCommand1.ExecuteReader()

                With Read
                    While .Read
                        TextBox40.Text = .GetValue(0)
                        TextBox38.Text = .GetValue(1)
                        TextBox39.Text = .GetValue(2)
                        TextBox37.Text = .GetValue(3)
                    End While
                End With

comConnection1.Close()

            End If
        Else
            MsgBox("All fields required not to be a null value.",
vbExclamation, "Sales Management System")
            TextBox30.Focus()
        End If
    End If

```

```

End Sub

Private Sub Button7_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button7.Click
    If TextBox42.Text <> "" And TextBox1.Text <> "" Then
        order_status = "PYMR"
    cheque_no = TextBox42.Text
    bank_name = TextBox43.Text
    On Error GoTo fix
    If TextBox32.Text = "" Or TextBox37.Text = "" Or TextBox38.Text =
"" Or TextBox39.Text = "" Or TextBox40.Text = "" Or TextBox41.Text = "" Or
TextBox42.Text = "" Or TextBox43.Text = "" Then
        MsgBox("All fields required not to be a null value.",
vbExclamation, "Library System")
    Exit Sub
    End If
    paymentConnection1.Open()
    paymentCommand1.CommandText = _
        "INSERT INTO ORDER_HEADER(bank_name, cheque_no, customer_initial,
customer_ref_date, customer_ref_no, customer_slno, delivery_challan_no,
invoice_date, invoice_number,machine_installed_by, material_required_date,
order_creation_date, order_no, order_status, order_value, plant_code,
shipment_date,transporter_name)VALUES('" & bank_name & "','" & cheque_no &
 "','" & customer_initial & "','" & customer_ref_date & "','" & customer_ref_no
& "','" & customer_slno & "','" & delivery_challan_no & "','" & invoice_date
& "','" & invoice_number & "','" & machine_installed_by & "','" &
material_required_date & "','" & order_creation_date & "','" & order_no &
 "','" & order_status & "','" & order_value & "','" & plant_code & "','" &
shipment_date & "','" & transporter_name & "')"

    MsgBox("New Record has been added.", vbInformation, "Sales
Management System")

    paymentCommand1.ExecuteNonQuery()
    paymentConnection1.Close()
    Me.Close() fix:
        Exit Sub
    Else
        MsgBox("All fields required not to be a null value.",
vbExclamation, "Sales Management System")
        TextBox42.Focus()
    End If

End Sub

Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click
    Dim str1 As String
    Dim Read As OleDb.OleDbDataReader
    If TextBox3.Text <> ""
Then
        str1 =
        TextBox3.Text
        If str1
        <> "" Then
            orderCommand1.Parameters.Add("cust_slno",
Data.OleDb.OleDbType.Integer)

```

```

        orderCommand1.Parameters("cust_slno").Value =
str1
        orderConnection1.Open()
        Read
= orderCommand1.ExecuteReader()

        With Read
            While .Read
                TextBox6.Text = .GetValue(0)
                TextBox7.Text = .GetValue(1)
                TextBox8.Text = .GetValue(2)
                TextBox9.Text = .GetValue(3)
                TextBox10.Text = .GetValue(4)
                TextBox11.Text = .GetValue(5)
            End While
        End With
        orderConnection1.Close()
    End If
Else
    MsgBox("Please provide an Customer Code to search",
MsgBoxStyle.Exclamation, "Sales Management System")
    TextBox3.Focus()
End If

End Sub

Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
    curr = New Orderdetail
    curr.Show()
    Button1.Visible = False
    Button11.Visible = True
    order_status = "REVD"

End Sub

Private Sub Button11_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button11.Click
    TextBox21.Text = temporder_value
    TextBox5.Text = tempplant_code
    order_status = "CLRD"
End Sub

Private Sub Button10_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs)
    TextBox22.Text = order_status
End Sub

Private Sub Button8_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button8.Click
    Dim enq As String
    Dim Read As OleDb.OleDbDataReader
    If TextBox15.Text <> "" Then
enq = TextBox15.Text
        enquiryCommand.Parameters.Add("order_no",
Data.OleDb.OleDbType.Integer)
        enquiryCommand.Parameters("order_no").Value =
enq
        enquiryConnection.Open()
        Read =
enquiryCommand.ExecuteReader()

```

```

        With Read
            While .Read
                TextBox20.Text = .GetValue(1)
                TextBox16.Text = .GetValue(2)
                TextBox17.Text = .GetValue(3)
                TextBox18.Text = .GetValue(4)
                TextBox19.Text = .GetValue(5)
                TextBox44.Text = .GetValue(7)
                TextBox45.Text = .GetValue(6)
            End While
        End With
        enquiryConnection.Close()
    Else
        MessageBox.Show("Please Enter the Order No. !!!", "Sales
Management System", MessageBoxButtons.OK, MessageBoxIcon.Exclamation)
    End If
End Sub

Private Sub Button9_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button9.Click
    TextBox15.Text = ""
    TextBox16.Text = ""
    TextBox17.Text = ""
    TextBox18.Text = ""
    TextBox19.Text = ""
    TextBox20.Text = ""
    TextBox44.Text = ""
    TextBox45.Text = ""
    TextBox15.Focus()
End Sub

Private Sub GroupBox1_Enter(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles GroupBox1.Enter

End Sub

Private Sub TabPage1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles TabPage1.Click

End Sub
End Class

```

Add customer

```

Imports System.Data.OleDb

Public Class Addcust
    Inherits System.Windows.Forms.Form

    Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button3.Click
        Me.Close()
    End Sub
End Class

```



```

End Sub
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click
    TextBox1.Text = ""
    TextBox2.Text = ""
    TextBox3.Text = ""
    TextBox4.Text = ""
    TextBox5.Text = ""
    TextBox6.Text = ""
    TextBox7.Text = ""
    TextBox8.Text = ""
    TextBox9.Text = ""
    TextBox10.Text = ""
    ComboBox1.Text = ""
End Sub
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
    On Error GoTo fix
    If TextBox1.Text = "" Or TextBox2.Text = "" Or TextBox3.Text = "" Or
TextBox4.Text = "" Or TextBox5.Text = "" Or TextBox6.Text = "" Or
TextBox7.Text = "" Or TextBox8.Text = "" Or TextBox9.Text = "" Or
TextBox10.Text = "" Or ComboBox1.Text = "" Then
        MsgBox("All fields required not to be a null value.",
vbExclamation, "Sales Management System")
    Exit Sub
End If
OleDbConnection1.Open()
OleDbCommand1.CommandText = _
"INSERT INTO customer_master(cust_sln, cust_name, cust_initial, cust_add1,
cust_add2, cust_add3, contact_person_name, contact_person_number,
cust_pincode, cust_city,state_code)VALUES(' & TextBox1.Text & ',' &
TextBox2.Text & ',' & TextBox3.Text & ',' & TextBox4.Text & ',' &
TextBox5.Text & ',' & TextBox6.Text & ',' & TextBox7.Text & ',' &
TextBox8.Text & ',' & TextBox9.Text & ',' & TextBox10.Text & ',' &
ComboBox1.Text & ') "
MsgBox("New Customer has been added.", vbInformation, "Sales
Management System")
OleDbCommand1.ExecuteNonQuery()
OleDbConnection1.Close()
Me.Close()
fix:
Exit Sub
End Sub
Private Sub Addcust_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
    TextBox1.Focus()
OleDbConnection2.Open()
Dim objReader As OleDbDataReader = OleDbCommand2.ExecuteReader
Do While objReader.Read()
    ComboBox1.Items.Add(objReader("state_code"))
Loop
OleDbConnection2.Close()
End Sub

```

```

        Private Sub GroupBox1_Enter(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles GroupBox1.Enter

        End Sub
End Class

```

Order Detail

```

Public Class Orderstatus
    Inherits System.Windows.Forms.Form

    Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click
        Me.Close()
    End Sub

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
        On Error GoTo fix
        If TextBox1.Text = "" And TextBox2.Text = "" Then
            MsgBox("State Code and State Description cannot be a null value.",
vbExclamation, "Sales Management System")
            Exit Sub
        End If

        OleDbConnection1.Open()
        OleDbCommand1.CommandText = _
            "INSERT INTO status_master(order_status, description)" & _
            "VALUES ('" & TextBox1.Text & "', '" & TextBox2.Text & "')"
        MsgBox("New State has been successfully added.", vbInformation, "Sales
Management System")
        OleDbCommand1.ExecuteNonQuery()
        OleDbConnection1.Close()
        Me.Close()
fix:
        Exit Sub
    End Sub
End Class

```

Test Cases

Case no.	Scenario	Sr.no	Action	Expected Output	Actual Output	Result
1	Login	A	User forgets to enter the username/ password	Message window saying "Please enter the username/ password"	Message window saying "Please enter the username/ password"	PASS
		B	User enters wrong username/ password	Message window saying "Wrong username/ password"	Message window saying "Wrong username/ password"	PASS
		C	User enters correct username/ password	Takes user to Homepage	Takes user to Homepage	PASS

Case no.	Scenario	Sr.no	Action	Expected Output	Actual Output	Result
2	Placing Order	A	User enters wrong customer code	Message window saying "Customer Does not exist"	Message window saying "Customer Does not exist"	PASS
		B	User does not enters Some record e.g name	Message window saying "Name Should Not be null"	Message window saying "Name Should Not be null"	PASS
		C	User Enters wrong plant code	Message window saying "Invalid code"	Message window saying "Invalid code"	PASS

Report

Order Pending/Booking/Billing

Print Borrowed Books										
Main Report										
	1	07-12-2008	12:00:00AM	PYMR	555	P-1	1	P001	1000567	Indian Bank
	2	04-08-2008	12:00:00AM	SCHD	5,000	K-2	2	P001	987999	ICICI
	3	13-08-2008	12:00:00AM	PYMR	15,000	P-1	954	P002	9312266	SBI
	4	11-08-2008	12:00:00AM	PYMR	7,500	H-1	265	P002	6666	operator
	5	11-08-2008	12:00:00AM	PYMR	15,000	H-1	425	P002	7777	suresh bank
	6	13-08-2008	12:00:00AM	PYMR	28,000	A-1	861	P003	98916836	Citi Bank
	11,226	19-11-2008	12:00:00AM	PYMR	14,000	N-1	776	P003	222222	Canara Bank
	13,669	06-12-2008	12:00:00AM	PYMR	120,000	S-1	446	P002	54564	SBI

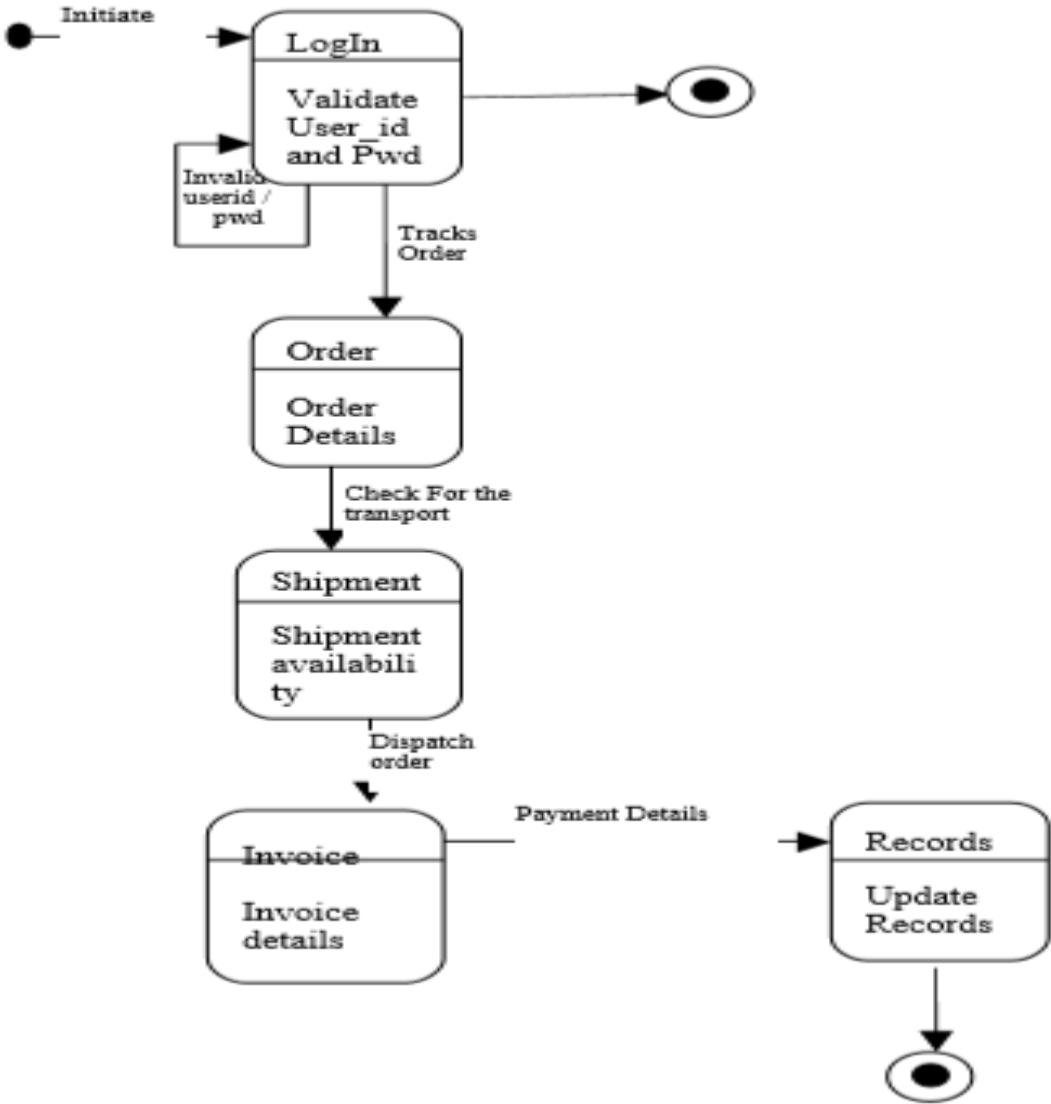
Order analysis in term of dates

Print Books									
Main Report									
ORDER ANALYSIS IN TERMS OF DIFFERENT DATES									
23-10-2009 12:54:59AM									
<u>order_no</u>	<u>order_creation_date</u>	<u>shipment_date</u>	<u>invoice_date</u>	<u>customer_ref_date</u>	<u>order_status</u>	<u>order_value</u>			
1	07-12-2008 12:00:00AM	01-01-2001 12:00:00AM	07-12-2008 12:00:00AM	07-12-2008 12:00:00AM	PYMR	555			
2	04-08-2008 12:00:00AM	07-12-2008 12:00:00AM	07-12-2008 12:00:00AM	04-08-2008 12:00:00AM	SCHD	5,000			
3	13-08-2008 12:00:00AM	15-08-2008 12:00:00AM	13-08-2008 12:00:00AM	13-08-2008 12:00:00AM	PYMR	15,000			
4	11-08-2008 12:00:00AM	11-08-2008 12:00:00AM	20-08-2008 12:00:00AM	11-08-2008 12:00:00AM	PYMR	7,500			
5	11-08-2008 12:00:00AM	11-08-2008 12:00:00AM	11-08-2008 12:00:00AM	11-08-2008 12:00:00AM	PYMR	15,000			
6	13-08-2008 12:00:00AM	13-08-2008 12:00:00AM	13-08-2008 12:00:00AM	13-08-2008 12:00:00AM	PYMR	28,000			
11,226	19-11-2008 12:00:00AM	25-11-2008 12:00:00AM	25-11-2008 12:00:00AM	25-11-2008 12:00:00AM	PYMR	14,000			
13,669	06-12-2008 12:00:00AM	06-12-2008 12:00:00AM	06-12-2008 12:00:00AM	06-12-2008 12:00:00AM	PYMR	120,000			

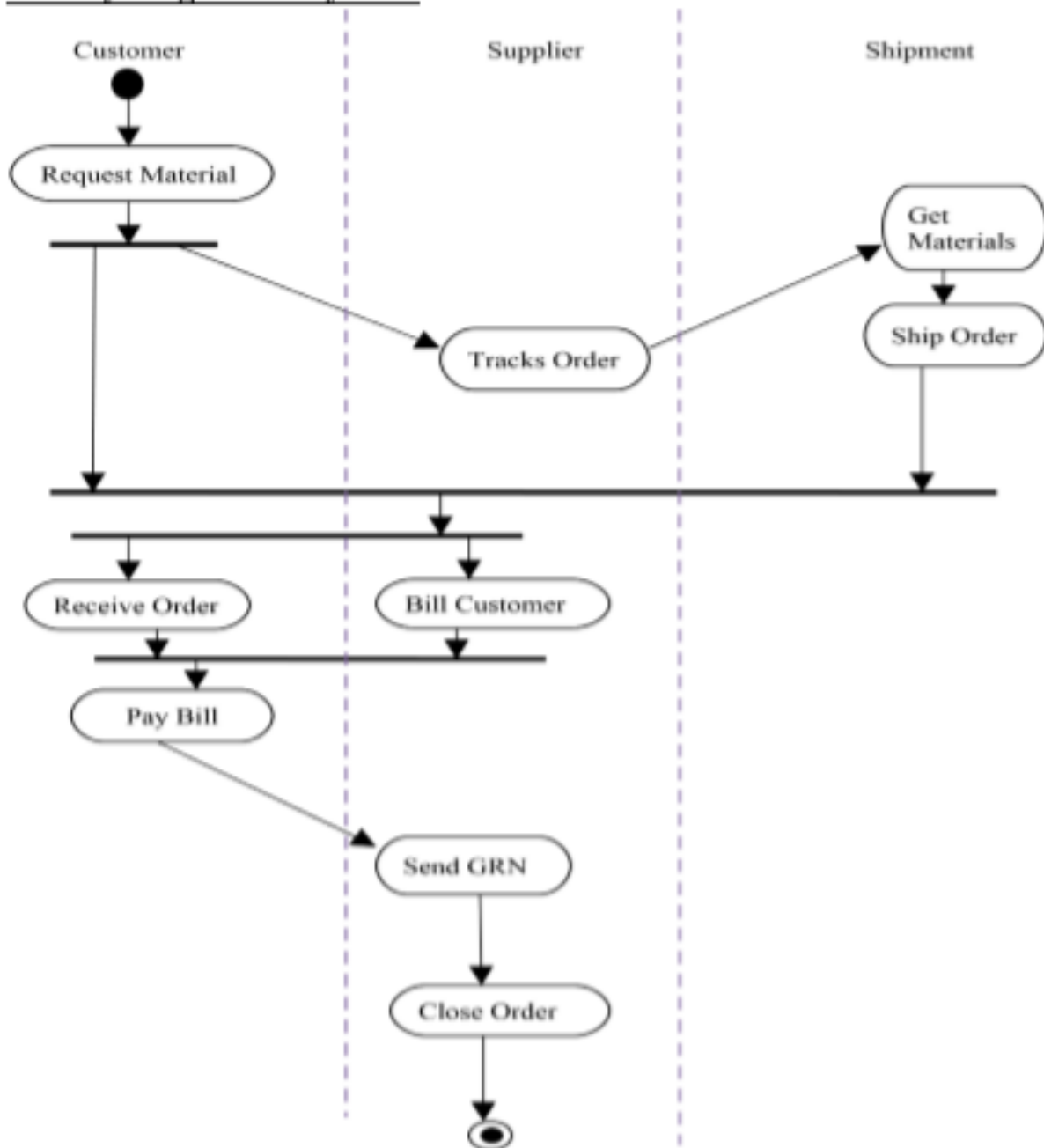
Balance Payment report

Print Borrowers									
Main Report									
PAYMENT BALANCE REPORT									
23-10-2009 12:55:36AM									
<u>order_no</u>	<u>customer_sno</u>	<u>order_status</u>	<u>order_value</u>	<u>delivery_challan_no</u>	<u>cheque_no</u>	<u>bank_name</u>			
1	P-1	PYMR	555	1	1000567	Indian Bank			
2	K-2	SCHD	5,000	2	987999	ICICI			
3	P-1	PYMR	15,000	954	9312266	SBI			
4	H-1	PYMR	7,500	265	6666	operator			
5	H-1	PYMR	15,000	425	7777	suresh bank			
6	A-1	PYMR	28,000	861	98916836	Citi Bank			
11,226	N-1	PYMR	14,000	776	222222	Canara Bank			
13,669	S-1	PYMR	120,000	446	54564	SBI			

State Transition Diagram for supplier



Activity Diagram for system:



Results of Proposed System

The scope of this system is to provide user efficient working environment and more output can be generated through this. This system provides user friendly interface resulting in knowing each and every usability features of the system.

This system helps in tracking records so that past records can be verified through them and one can make decisions based on the past records. This system completes the work in a very less time resulting in less time consumption and high level of efficiency.

This system is developed in such a way that even a naïve user can also operate the system easily. The calculations are made very quickly and the records are directly saved into databases and the databases can be maintained for a longer period of time. Each record can be retrieved and can be verified for the future transactions.

Also this system provides high level of security for data leaking as only admin people can access the database no changes can be made in it until it verifies the user login id and password. We also have operator login through which operator can take orders but can't make changes in the database. Limited access is available to the operator.

Proposed Enhancements

Future Scope:

The scope of the project includes that what all future enhancements can be done in this system to make it more feasible to use

- Databases for different products range and storage can be provided.
- Multilingual support can be provided so that it can be understandable by the person of any language.
- More graphics can be added to make it more user-friendly and understandable.
- Manage & backup versions of documents online.

Benefits

- Manages Track sales
- Manages contacts
- Manages accounts
- Manages opportunities
- Track product issues
- Track product features

- Manage product life cycle

Drawbacks And Limitations

- 1.The system is not capable of handling more than 6 users at a time.
- 2.Some keywords in system are difficult to understand so the admin n operator person should understand them thoroughly to use the system accurately.
- 3.Graphs could have been added in order to get the records more clearly

Conclusion

While developing the system a conscious effort has been made to create and develop a software package, making use of available tools, techniques and resources – that would generate a proper System

While making the system, an eye has been kept on making it as userfriendly, as cost-effective and as flexible as possible. As such one may hope that the system will be acceptable to any user and will adequately meet his/her needs.

As in case of any system development processes where there are a number of shortcomings, there have been some shortcomings in the development of this system also. The project is still under modification.

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