# “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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**(17BIT0055)**
**SLOT - C2+TC2**

**Under the guidance of**
**Dr.K.UMA**

# 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

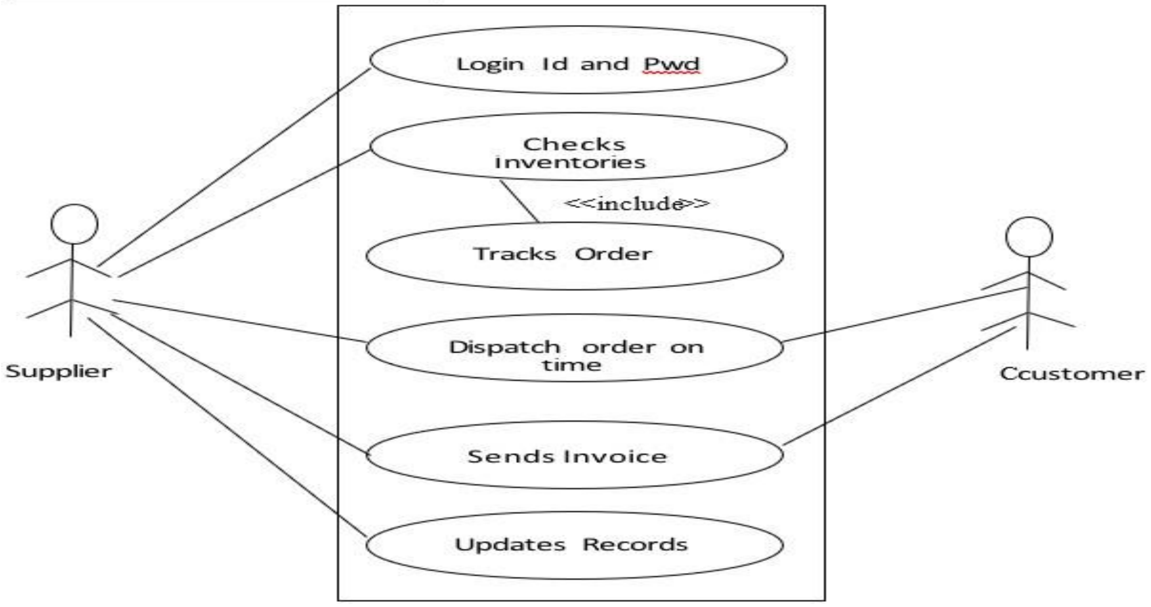
1. Should report any errors on duplicate primary keys.
2. Should report any ‘Out of Range’ values on numeric fields 3. Should report any data type mismatches any field on the forms.
4. Should report on any ‘Invalid dates’
5. Should report any violation of authorization of rights
6. Should report any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

NON-FUNCTIONAL REQUIREMENTS

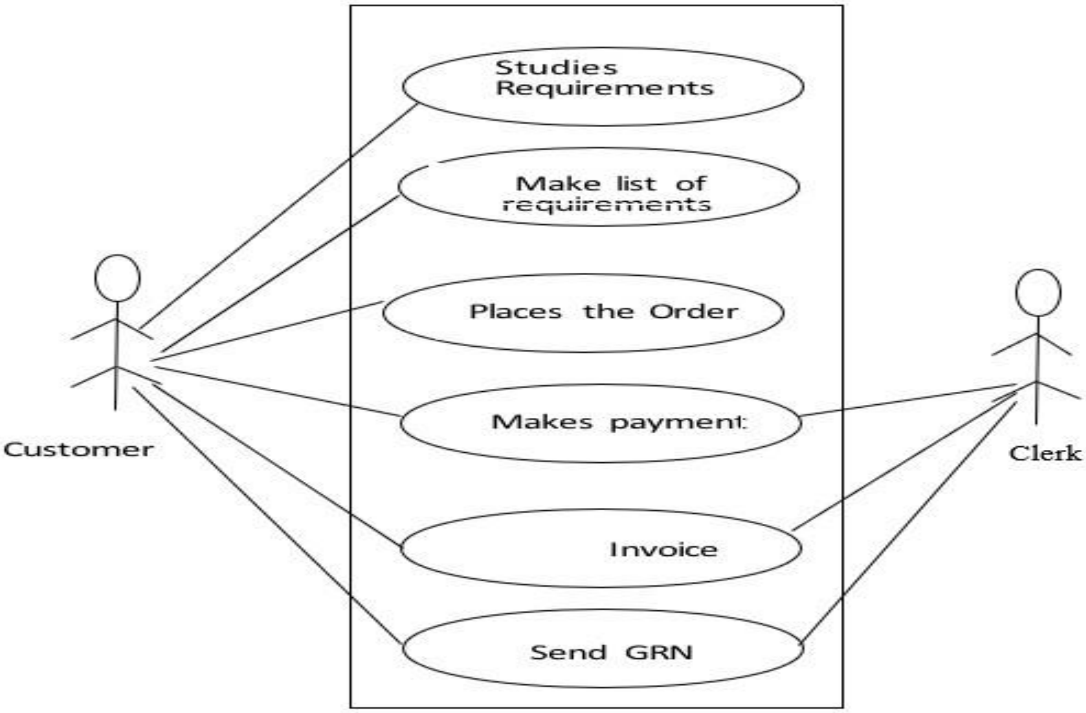
1. All user manuals should be provided in the necessary format
2. Application should support 5 simultaneous users.
3. Transaction should be completed within 1/5th of second
4. There will be backup procedure to maintain record

## ANALYSIS & DESIGN

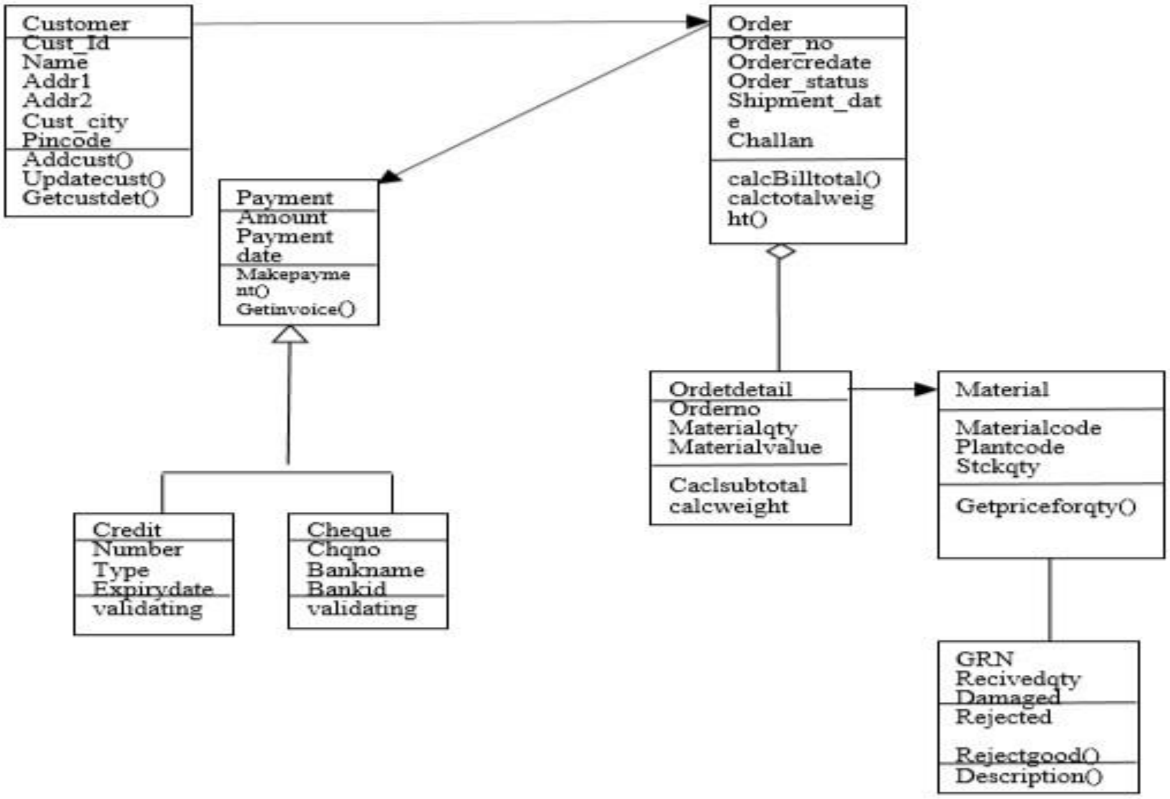
**Use case Diagram for Supplier**



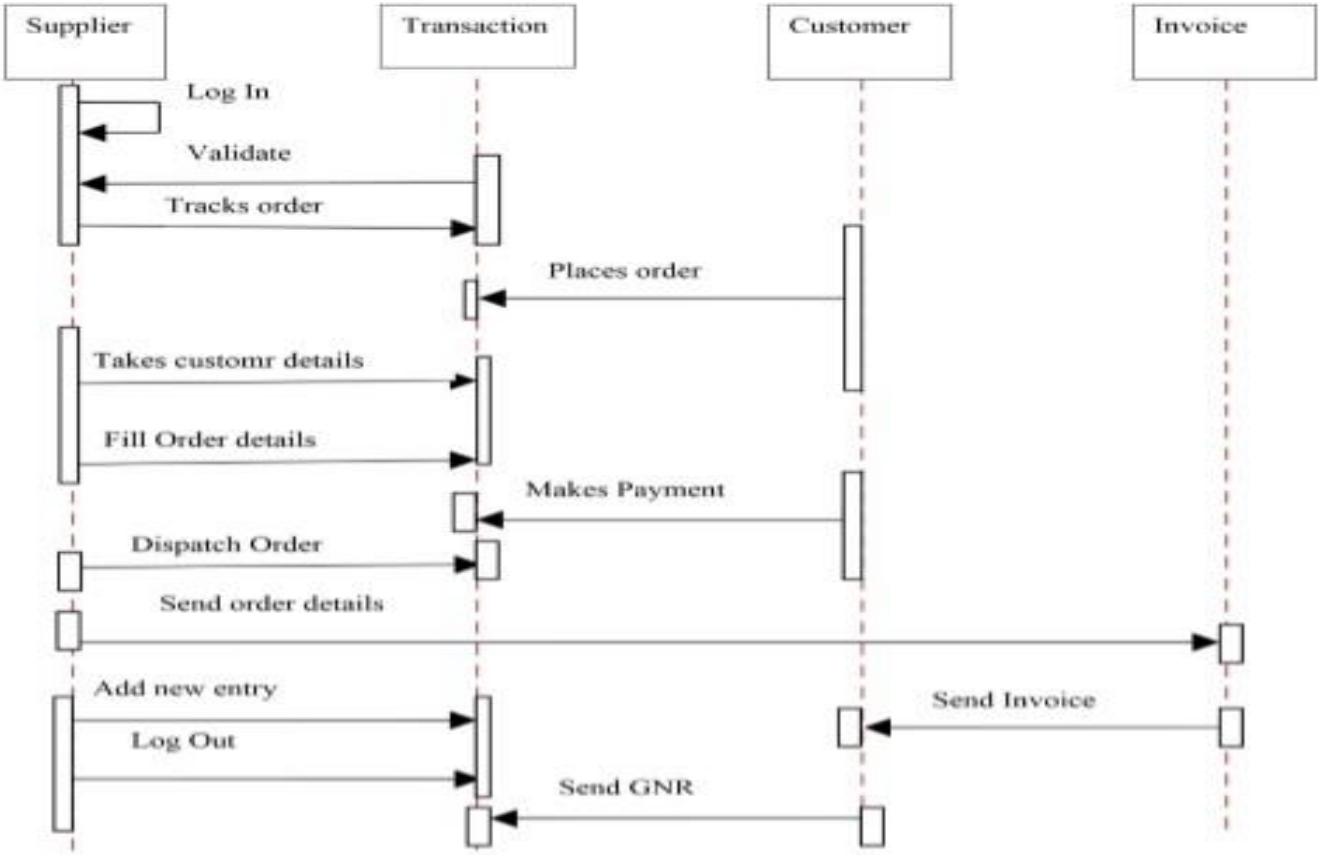
## Use Case Diagram for Customer



## Class Diagram for a customer order

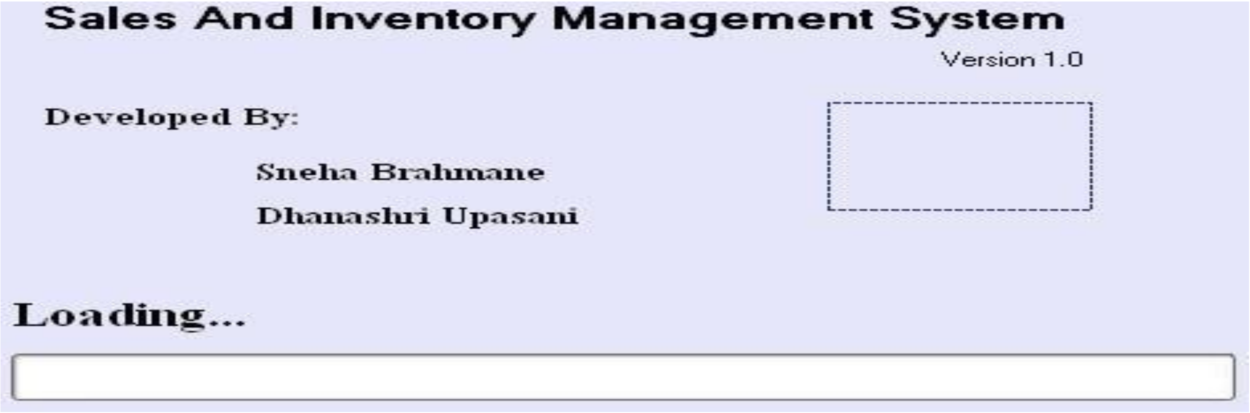


**Sequence diagram for Supplier**



## Input Screens

### Splash Screen



Sales And Inventory Management System

Version 1.0

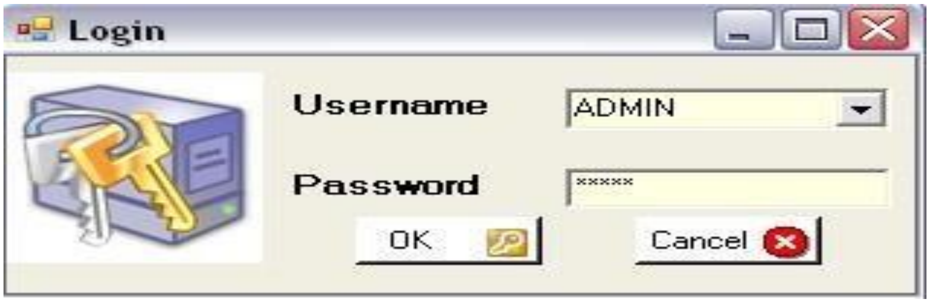
Developed By:

Sneha Brahmane

Dhanashri Upasani

Loading...

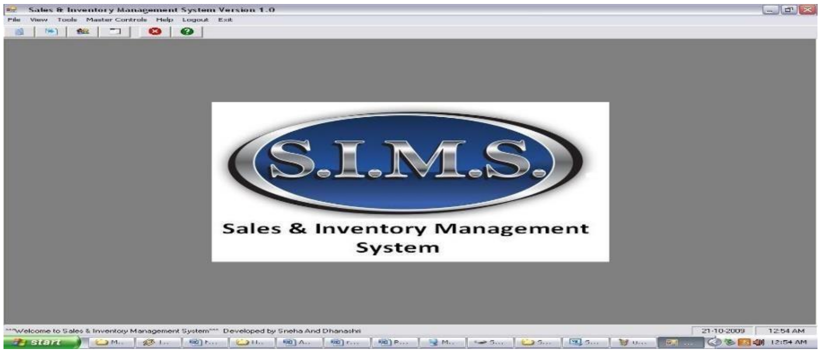
## Login Form



Username ADMIN

Password *****

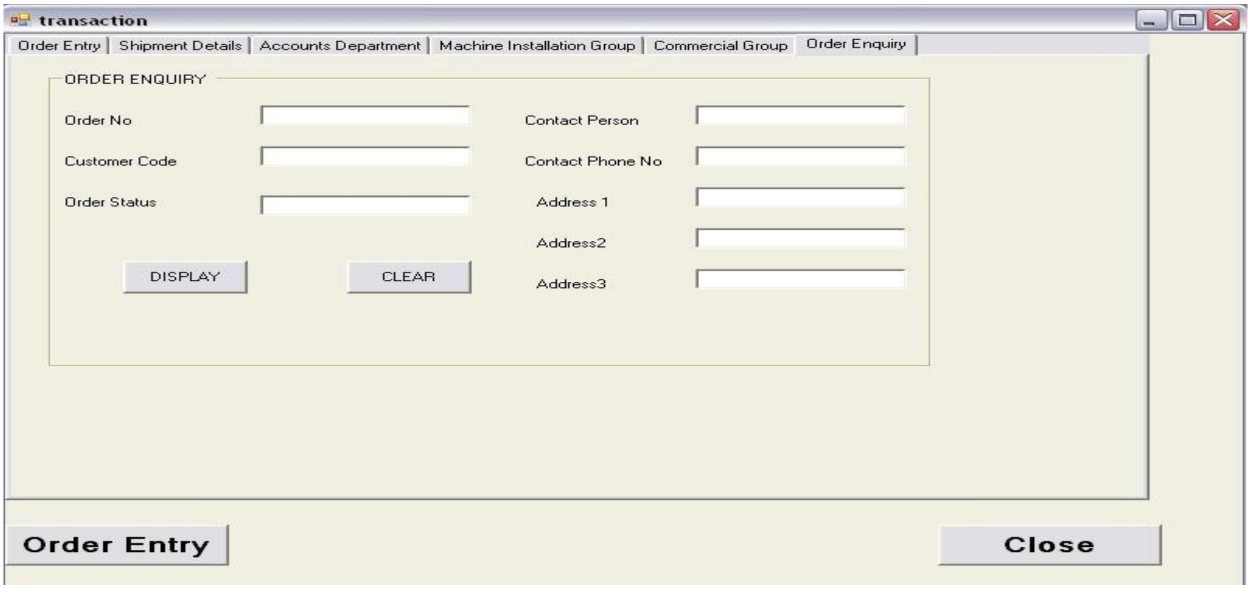
## Main Form


Sales & Inventory Management System Version 1.0
File View Tools Master Controls Help Logout Exit
S.I.M.S.
Sales & Inventory Management System
start

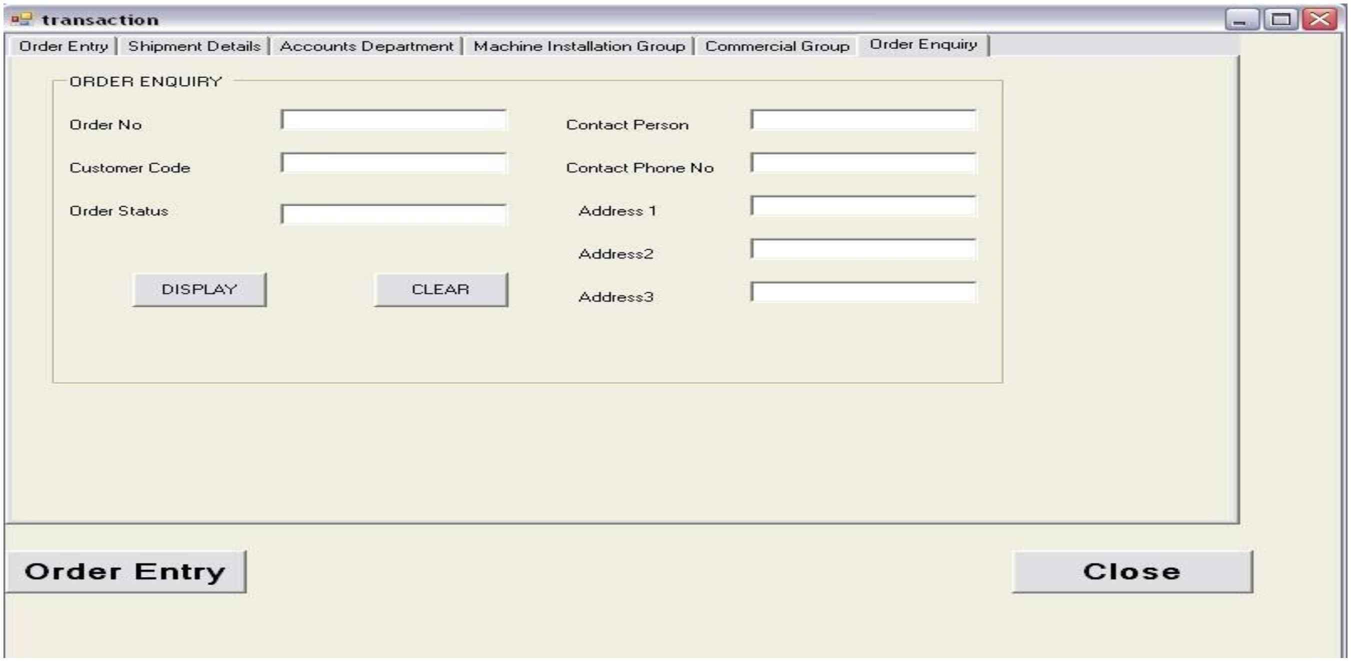
***Welcome to Sales & Inventory Management System*** Developed by Sneha And Dhanashri

21-10-2009 12:54 AM

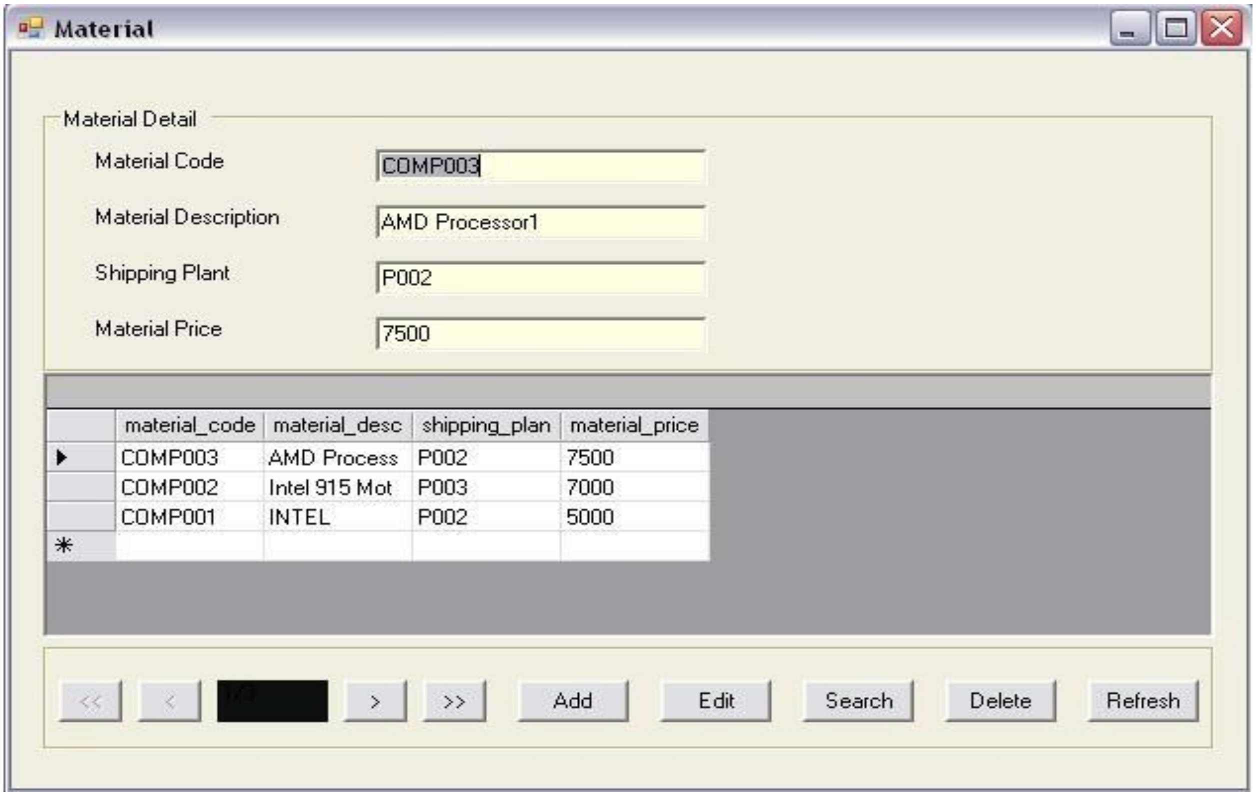
## Transaction screen



## Order Enquiry



## Material Details



Material Code COMP003

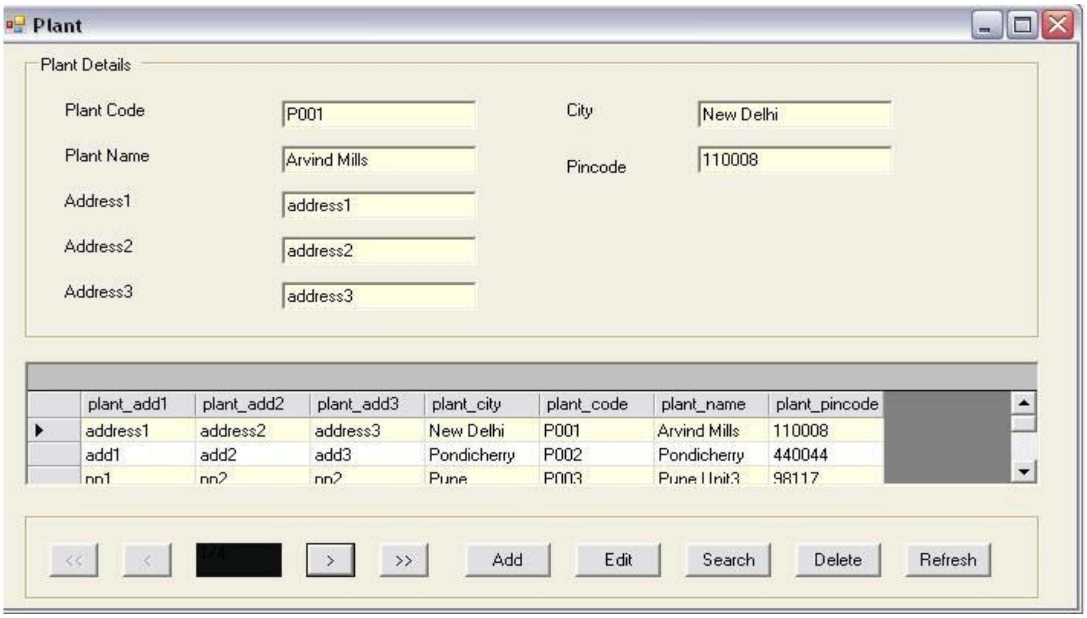
Material Description AMD Processor1

Shipping Plant P002

Material Price 7500

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

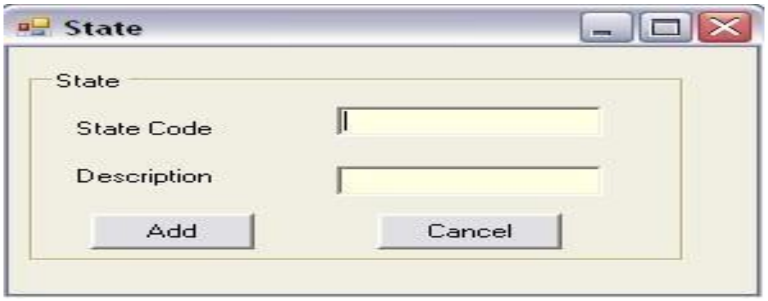
## Plant Details



| | |
|---|---|
| Plant Code | P001 |
| Plant Name | Arvind Mills |
| Address1 | address1 |
| Address2 | address2 |
| Address3 | address3 |
| City | New Delhi |
| Pincode | 110008 |

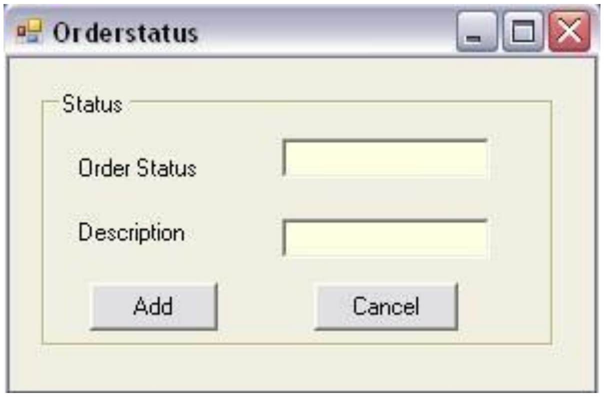
| plant_add1 | plant_add2 | plant_add3 | plant_city | plant_code | plant_name | plant_pincode |
|---|---|---|---|---|---|---|
| address1 | address2 | address3 | New Delhi | P001 | Arvind Mills | 110008 |
| add1 | add2 | add3 | Pondicherry | P002 | Pondicherry | 440044 |
| pp1 | pp2 | pp2 | Pune | P003 | Pune Unit3 | 98117 |

## State Details



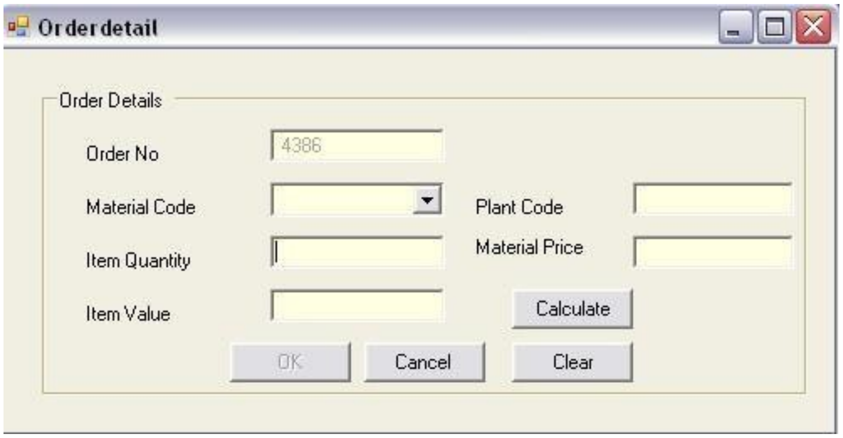
| | |
|---|---|
| State Code | |
| Description | |

## Order Status



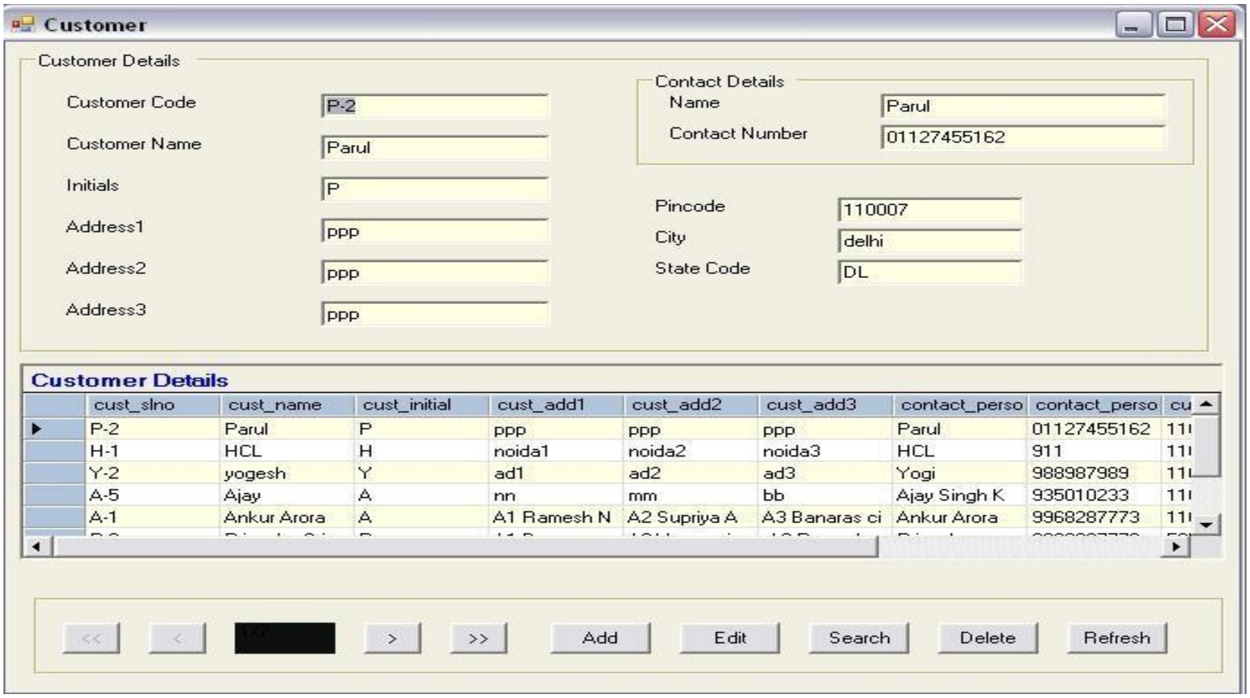
| | |
|---|---|
| Order Status | |
| Description | |

## Order Details



Order No: 4386

## Customer Details



| | |
|---|---|
| Customer Code | P-2 |
| Customer Name | Parul |
| Initials | P |
| Address1 | ppp |
| Address2 | ppp |
| Address3 | ppp |

Contact Details

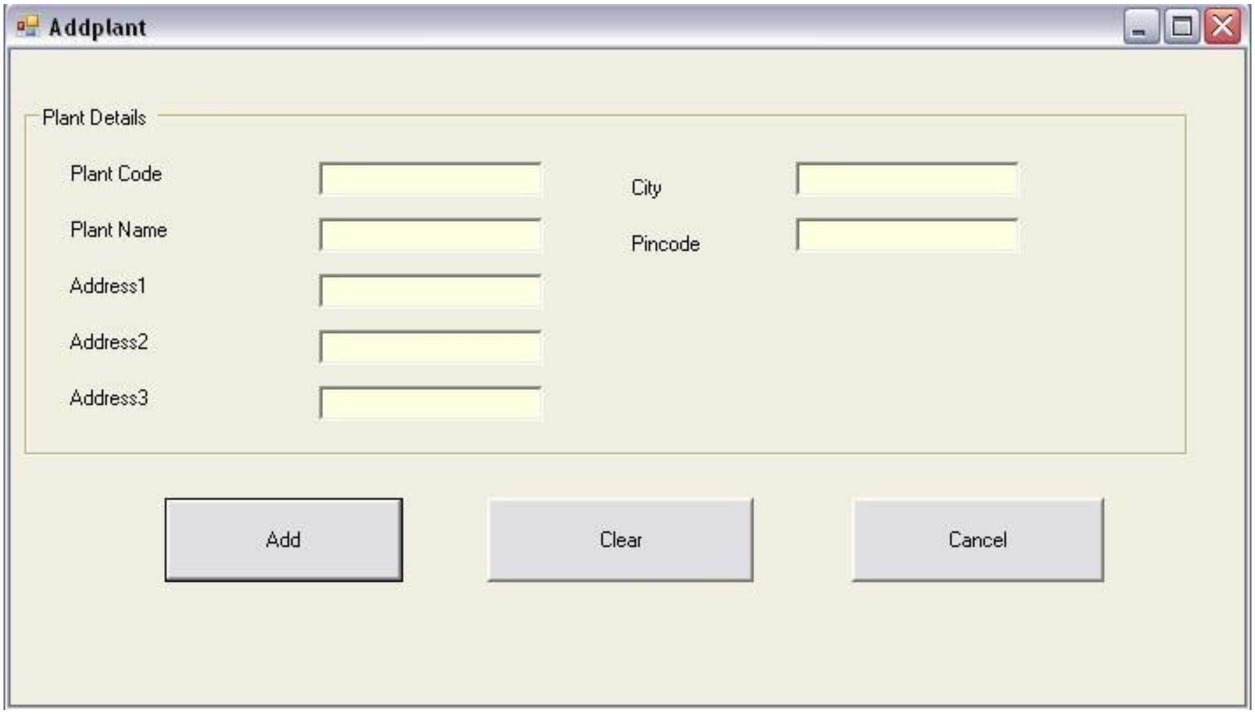
| | |
|---|---|
| Name | Parul |
| Contact Number | 01127455162 |

| | |
|---|---|
| Pincode | 110007 |
| City | delhi |
| State Code | DL |

Customer Details

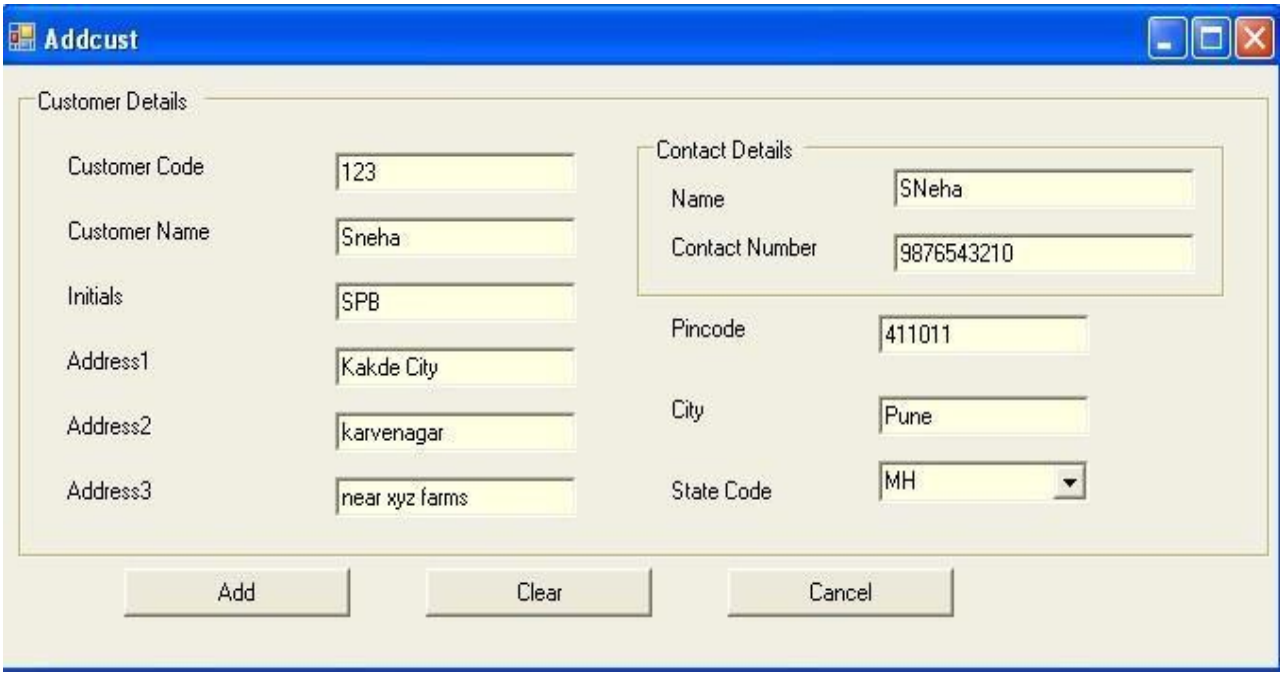
| cust_slno | cust_name | cust_initial | cust_add1 | cust_add2 | cust_add3 | contact_perso | contact_perso | cu |
|---|---|---|---|---|---|---|---|---|
| P-2 | Parul | P | ppp | ppp | ppp | Parul | 01127455162 | 11 |
| H-1 | HCL | H | noida1 | noida2 | noida3 | HCL | 911 | 11 |
| Y-2 | yogesh | Y | ad1 | ad2 | ad3 | Yogi | 988987989 | 11 |
| A-5 | Ajay | A | nn | mm | bb | Ajay Singh K | 935010233 | 11 |
| A-1 | Ankur Arora | A | A1 Ramesh N | A2 Supriya A | A3 Banaras ci | Ankur Arora | 9968287773 | 11 |

## Add Plant



| | |
|---|---|
| Plant Code | |
| Plant Name | |
| Address1 | |
| Address2 | |
| Address3 | |
| City | |
| Pincode | |

## Add Customer



Customer Details

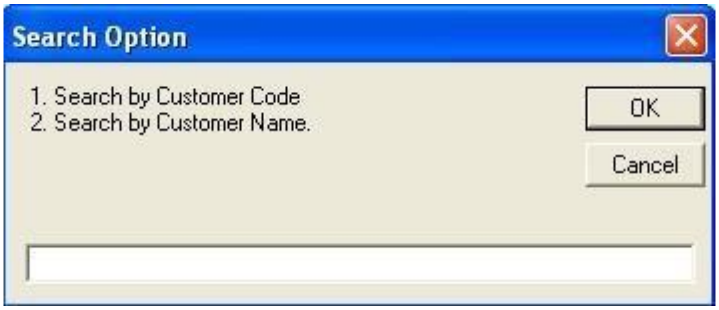
| | |
|---|---|
| Customer Code | 123 |
| Customer Name | Sneha |
| Initials | SPB |
| Address1 | Kakde City |
| Address2 | karvenagar |
| Address3 | near xyz farms |

Contact Details

| | |
|---|---|
| Name | SNeha |
| Contact Number | 9876543210 |

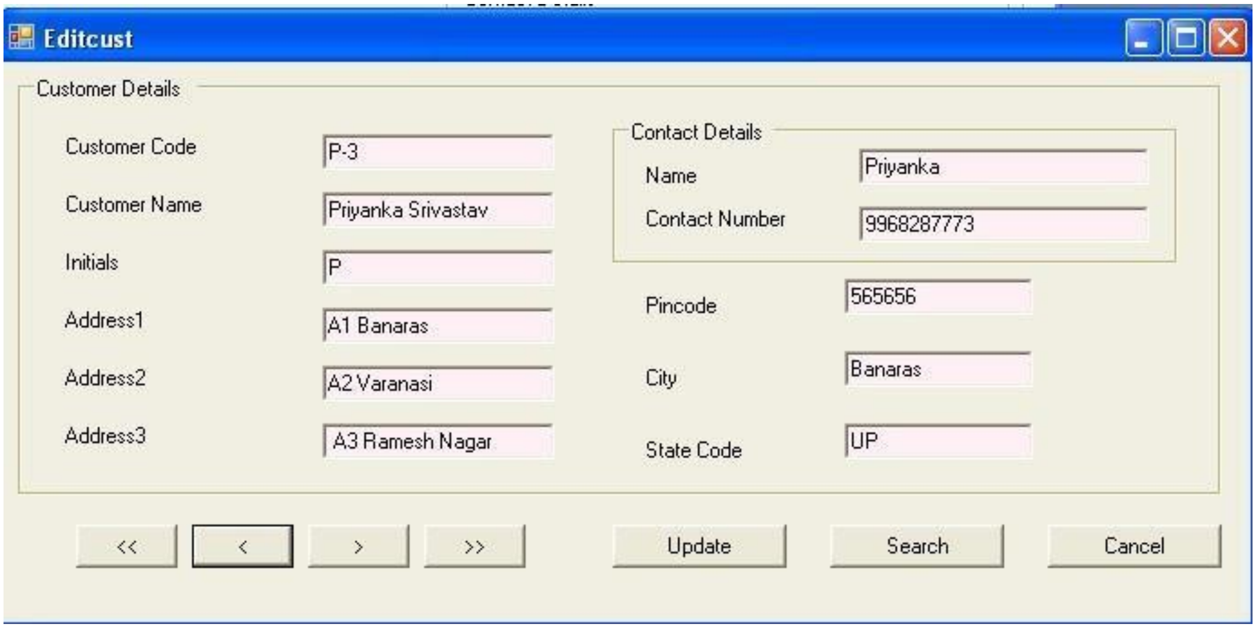
| | |
|---|---|
| Pincode | 411011 |
| City | Pune |
| State Code | MH |

## Search Customer



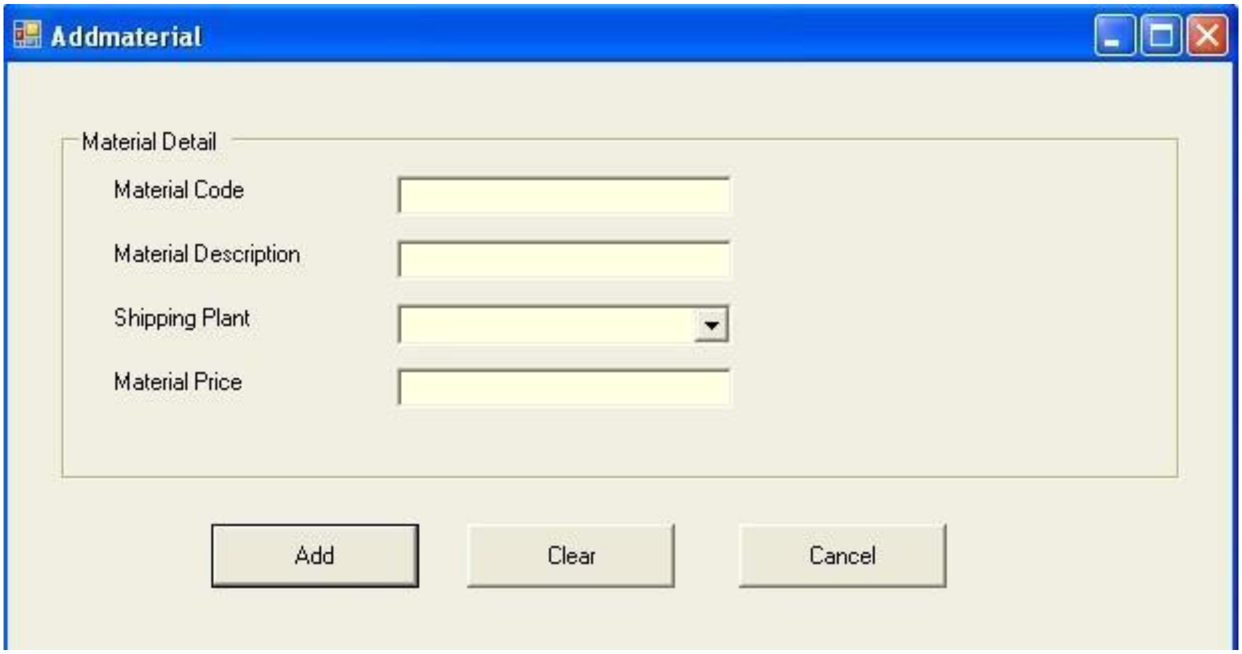
1. Search by Customer Code
2. Search by Customer Name.

## Update customer



| | |
|---|---|
| Customer Code | P-3 |
| Customer Name | Priyanka Srivastav |
| Initials | P |
| Address1 | A1 Banaras |
| Address2 | A2 Varanasi |
| Address3 | A3 Ramesh Nagar |
| Name | Priyanka |
| Contact Number | 9968287773 |
| Pincode | 565656 |
| City | Banaras |
| State Code | UP |

## Add material



## 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_slno (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_slno (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

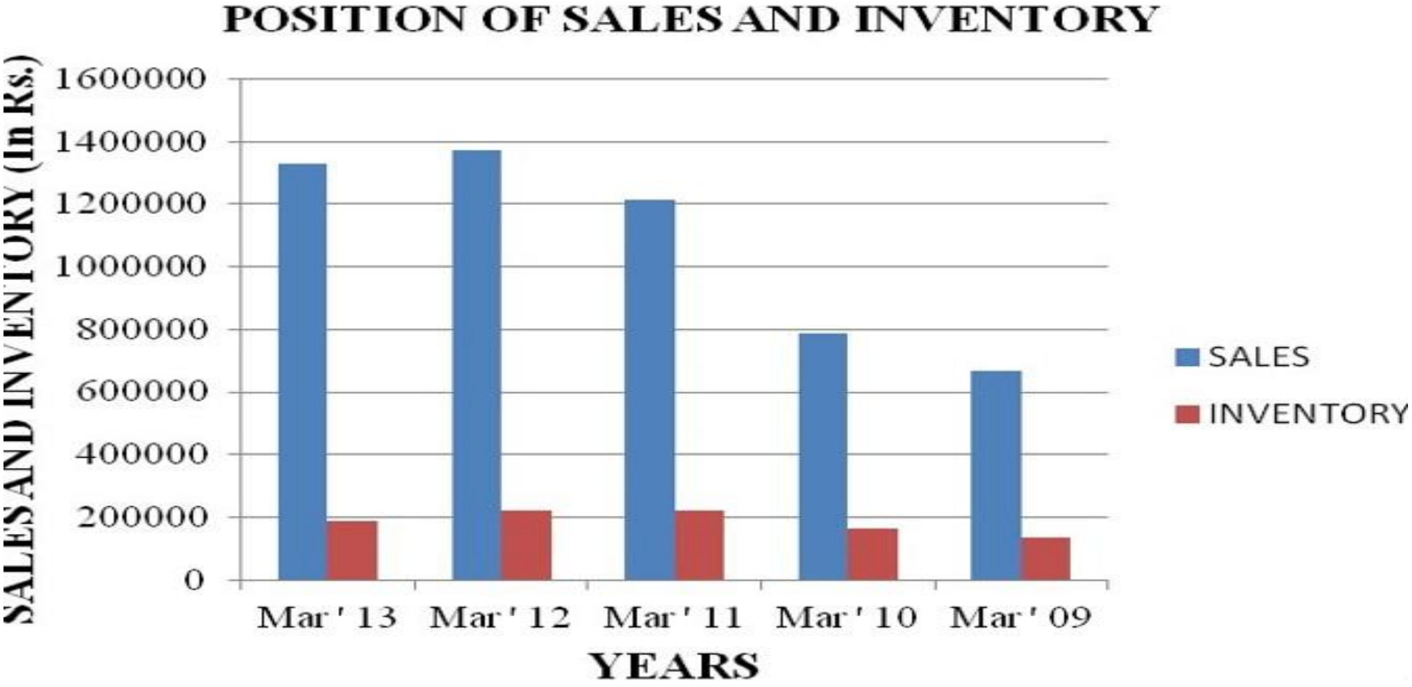
White-box testing of software is predicated on close examination of procedural detail. Providing test cases that exercise specific sets of conditions and/or loops tests logical paths through the software. The "status of the program" may be examined at various points to determine if the expected or asserted 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.

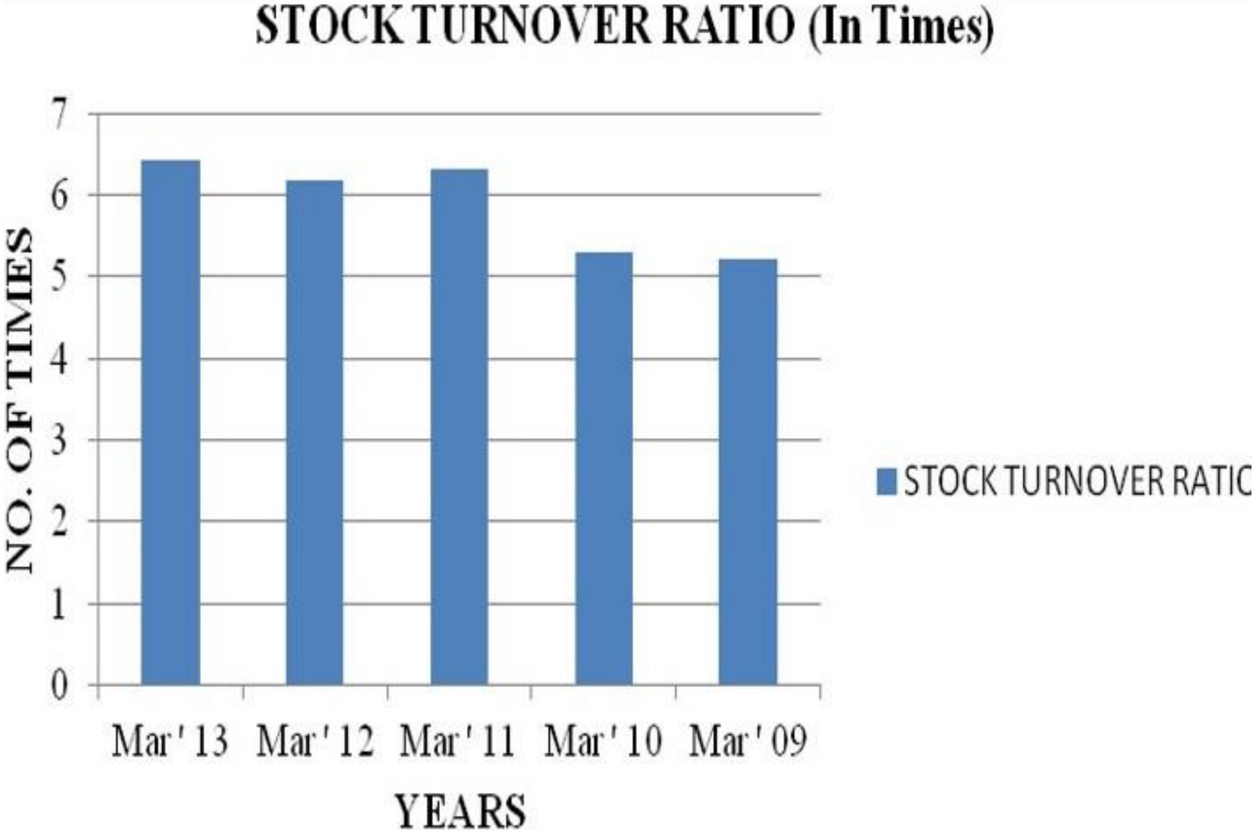
## Black box testing

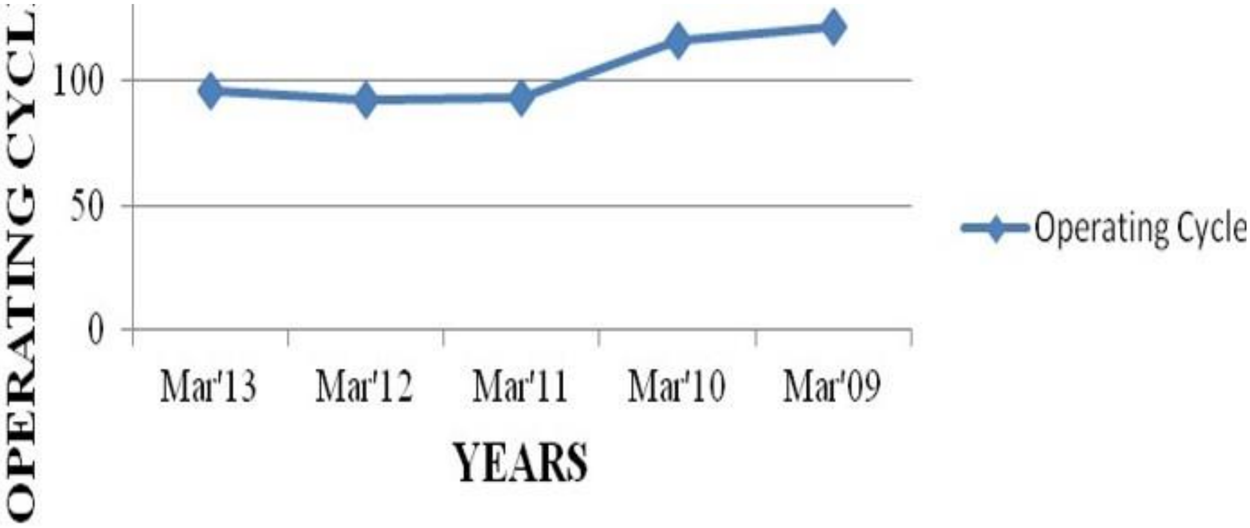
Also called behavioral testing, focuses on the functional requirements of the software. That is, black box testing enables the software engineer to derive sets of input conditions that will fully exercise all functional requirements for a program. Black box testing is not an alternative to white-box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

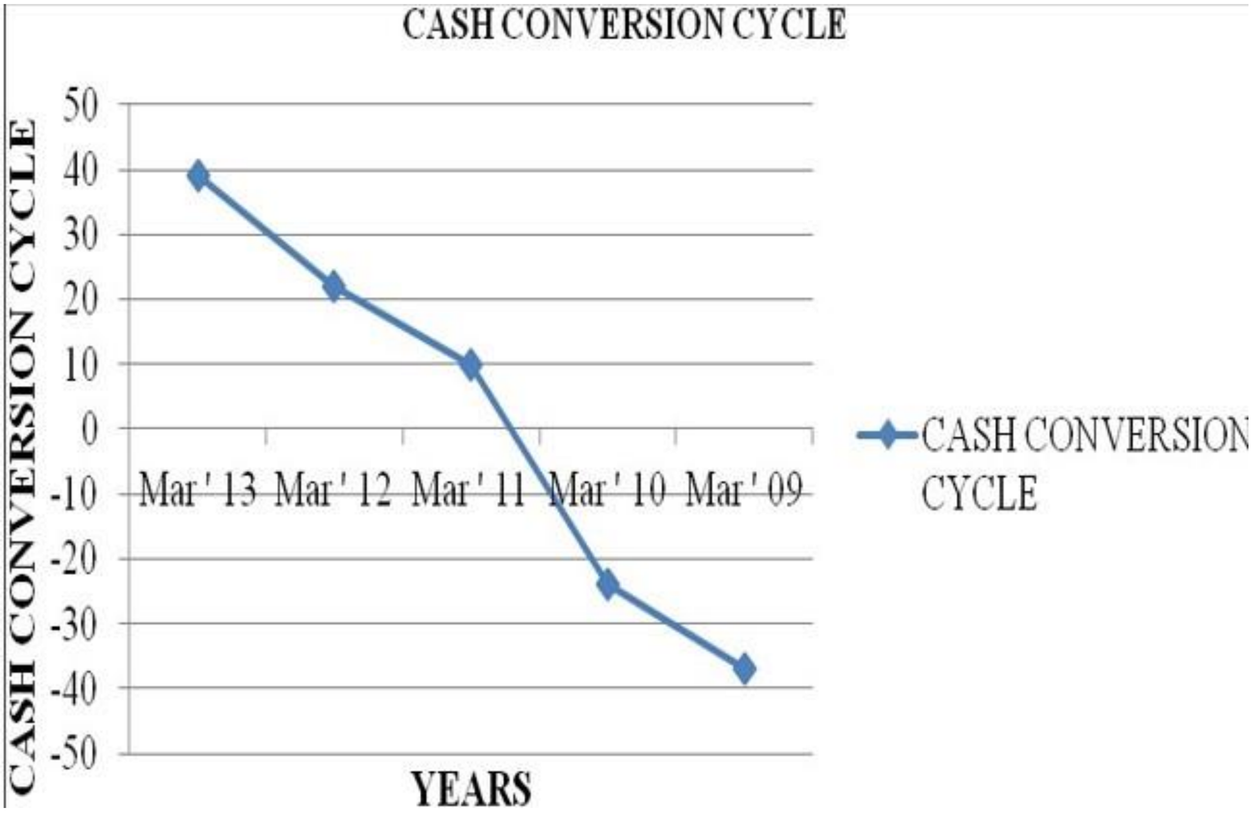
Black box testing for this system was done to check the internal testing i.e, the system is working properly in each case or no. What kind of errors are there in database design.

## Histogram Vs Graph Of Sales And Inventory



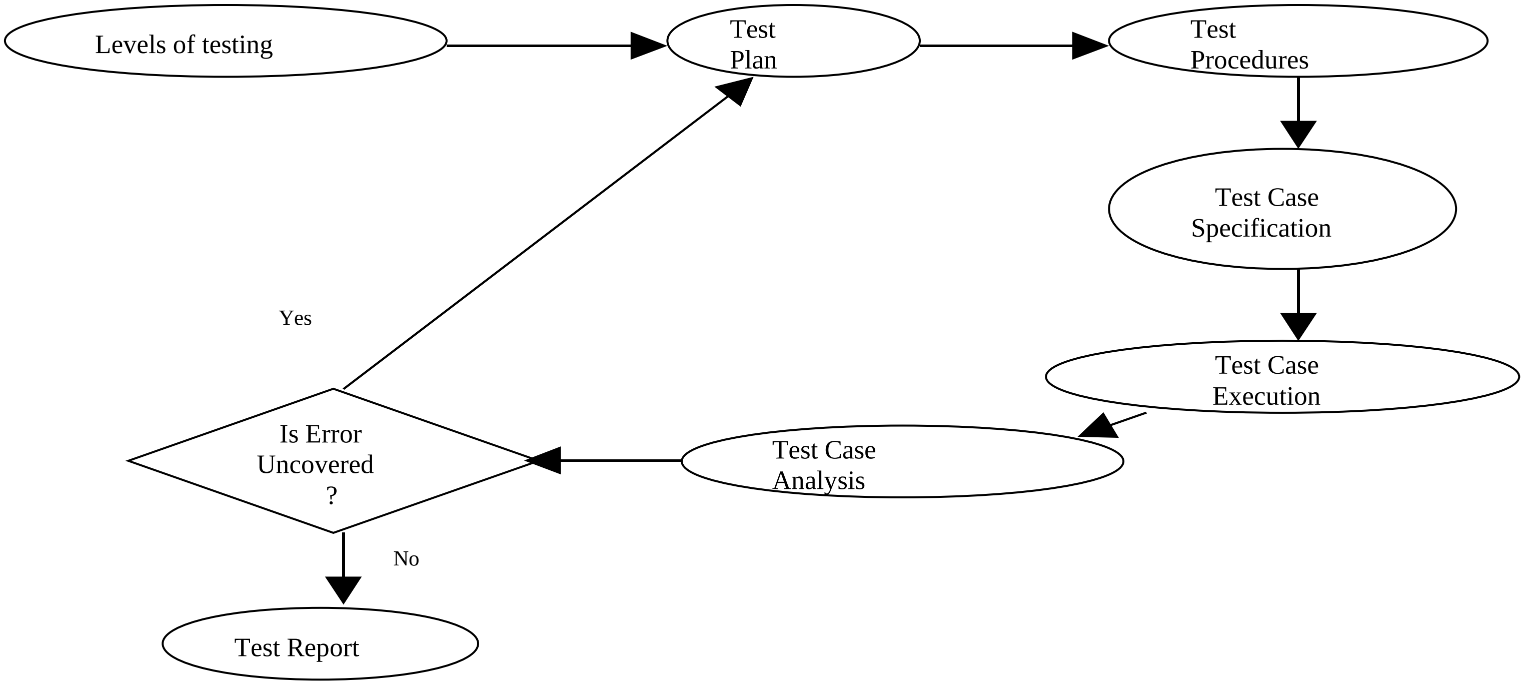






## Testing Process

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
    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 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
    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_slno, 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
```

## Test Cases

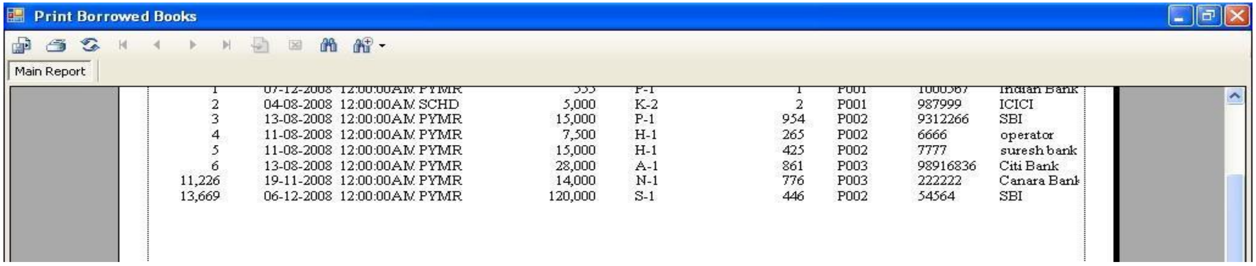
| Case no. | Scenario | Sr.no | Action | Expected Output | Actual Output | Result |
|---|---|---|---|---|---|---|
| 1 | Login | A | User forgets to enter the username/ password | Message window saying “Please enter the username/ password” | Message window saying “Please enter the username/ password” | 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 |

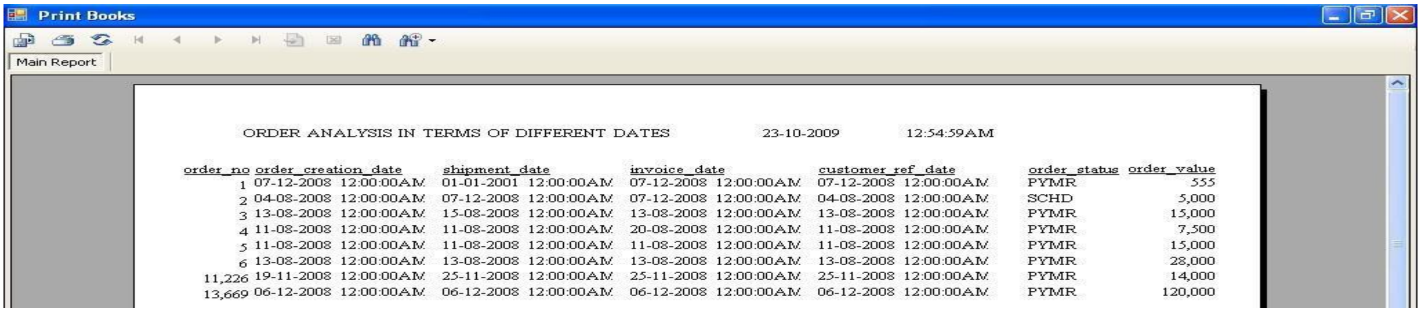
# Report

Order Pending/Booking/Billing



```
     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
```

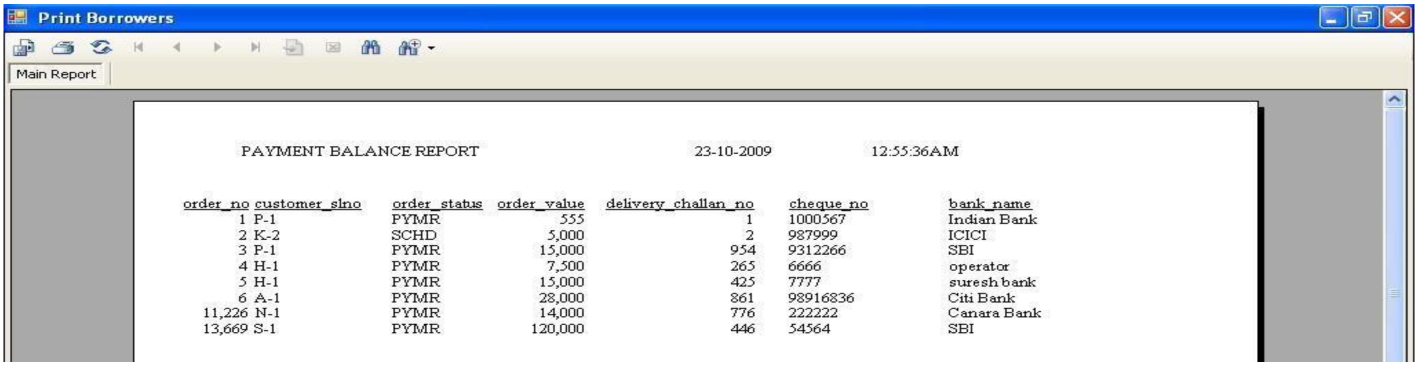
Order analysis in term of dates



ORDER ANALYSIS IN TERMS OF DIFFERENT DATES 23-10-2009 12:54:59AM

| order_no | order_creation_date | shipment_date | invoice_date | customer_ref_date | order_status | order_value |
|---|---|---|---|---|---|---|
| 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 |

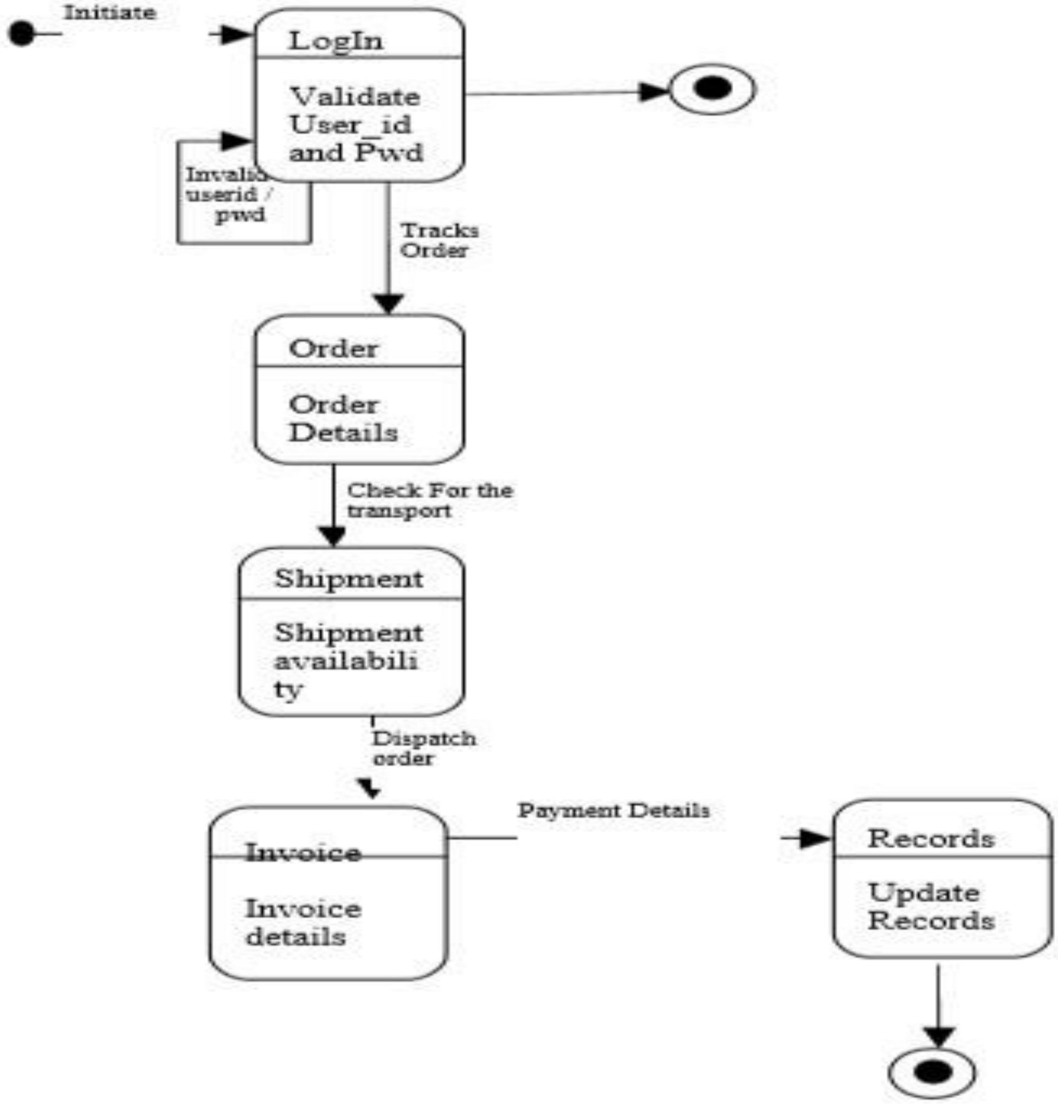
Balance Payment report



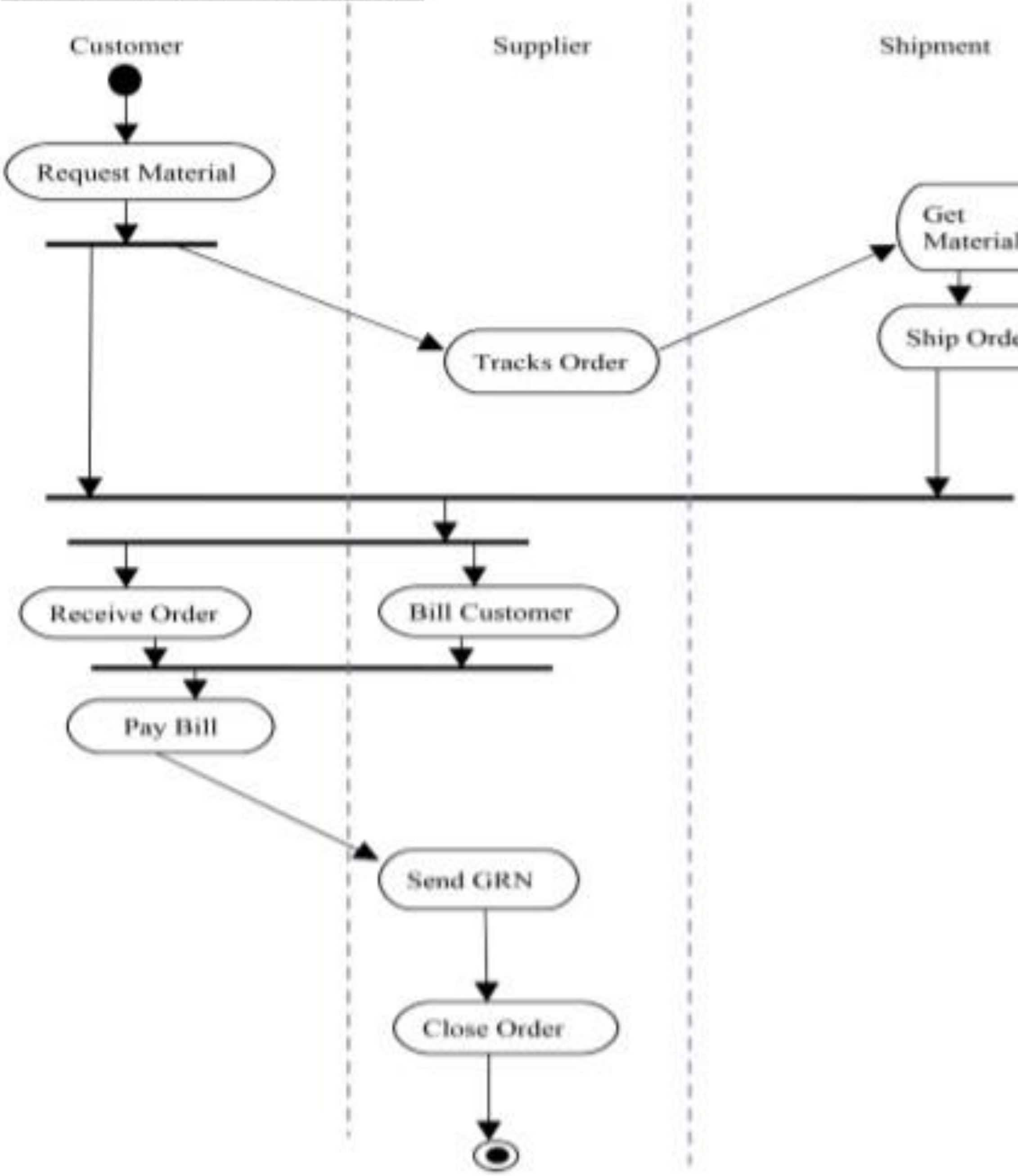
PAYMENT BALANCE REPORT 23-10-2009 12:55:36AM

| order_no | customer_slno | order_status | order_value | delivery_challan_no | cheque_no | bank_name |
|---|---|---|---|---|---|---|
| 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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