**1. INTRODUCTION**

Milk is a very important part of our food chain. Milk distribution management system project is a software application useful for dairy or factory forms for managing its details of employees, customers, activities (like milk details), payment details. In many places, mostly in villages manual methods are used to manage the data which takes a lot of time.

The main objective of this application is to automate the complete operations of the Milk Distributor Office. They need maintain hundreds of thousands of records. Also searching should be very faster so they can find required details instantly.

The front end is made using Visual Basic 6. The front-end is made user-friendly and easy to use. For back end Oracle Database 10g is used, where all the data is stored in the created tables.

This project includes employee details, customer details, supplier details, depositor details, milk details and bill generation.

**2. SCOPE**

This application is built such a way that it should suits for all type of Milk Distributors in future. In future this project may be used in Milk Distributor Offices as it helps to maintain all the details of employees, suppliers, customers, depositors and milk.

The project uses to replace the manual system with the computerized system. It will help to save a lot of time, money and energy.

**3. REQUIREMENTS**

**Hardware Requirement**

Processor : Intel Core Duo 2.0 GHz or more

RAM : 1 GB or More

Hard disk : 80GB or more

Monitor : 15” CRT or LCD monitor

Keyboard : Normal or Multimedia

Mouse : Compatible mouse

**Software Requirement**

Front End : Microsoft Visual Basic 6.0

Back End : Oracle Database 10g Express Edition

Operating System : Windows 7 Professional

**4. ER DIAGRAM AND USE CASE DIAGRAM**

**4.1. E-R DIAGRAM**

Milk\_details

Employee

Suppliers

Login

Depositors

Shakti Milks

Customer

Bill

Will Have

Fig4.1: E-R Diagram of Milk Distributor Management System

**4.2. USE CASE DIAGRAM**

**Customer Supplier**

**Depositor**

Fig4.2: Use Case Diagram of Milk Distributor Management System

**5. RELATIONAL DATABASE DESIGN**

**5.1 DATABASE SCHEMA**

|  |
| --- |
| **Employee** |
| E\_Id  E\_Name  E\_Gender  E\_Age  E\_Address  E\_Contact  E\_Email |

|  |
| --- |
| **Login** |
| User\_name  password |

|  |
| --- |
| **Customer** |
| C\_id  C\_name  C\_address  C\_contact  C\_email |

|  |
| --- |
| **Bill** |
| B\_no  C\_id  C\_name  B\_products  B\_quantity  B\_cost  B\_total\_cost  B\_discount\_cost |

|  |
| --- |
| **Supplier** |
| S\_id  S\_name  S\_address  S\_contact  S\_email  S\_daily\_supply |

|  |
| --- |
| **Milk2** |
| S\_r\_no  Animal  Packs  Packings  No\_of\_packs |

|  |
| --- |
| **Milk1** |
| R\_no  Avail\_milk  Avail\_quantity  Sale\_milk  Sale\_quantity |

|  |
| --- |
| **Milk3** |
| M\_id  Animal  M\_dop  M\_doe  M\_price |

Fig5.1: Milk Distributor Management System Database Schema

**6. GRAPHICAL USER INTERFACE (SCREEN SHOTS OF IMPOTANT FORMS)**

**6.1. Login Form**

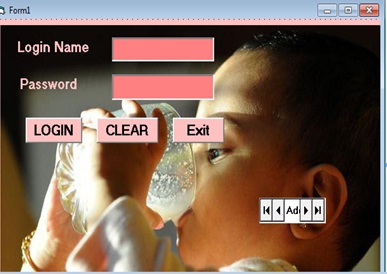


Fig6.1. Login Form

**6.2. Bill**

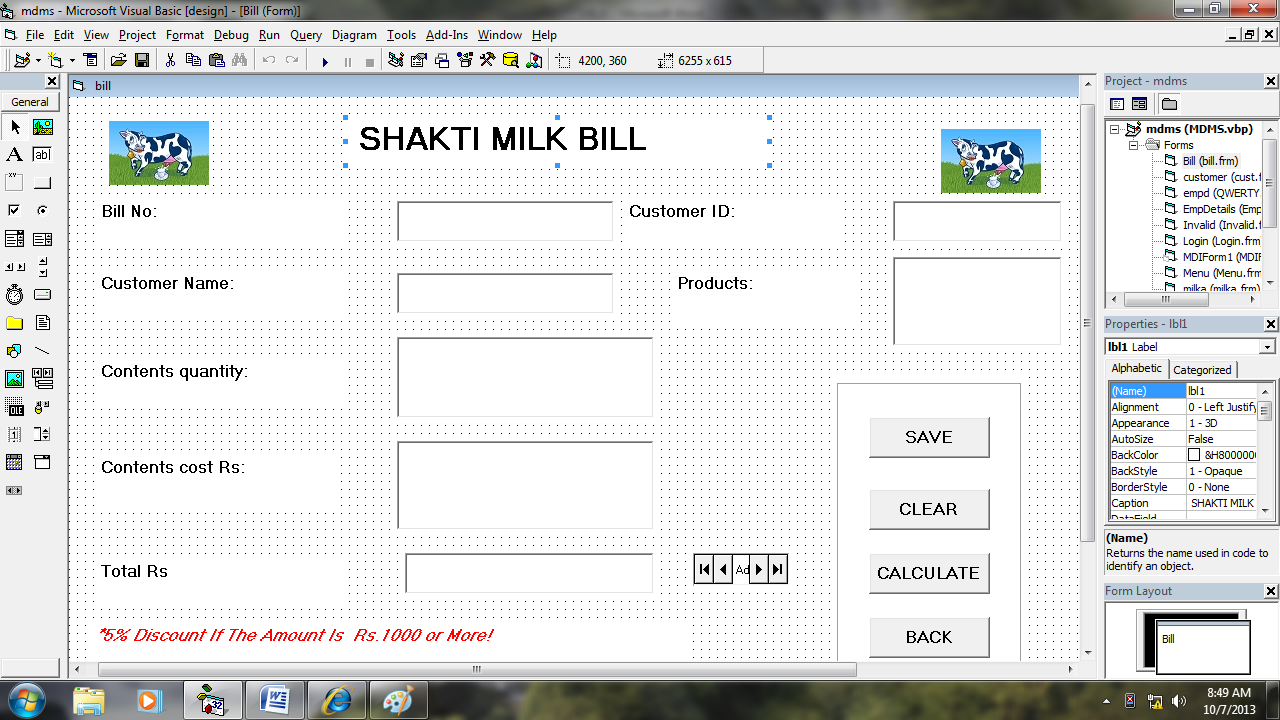


Fig6.2.Bill Generation Form

* 1. **Customer Details Form**

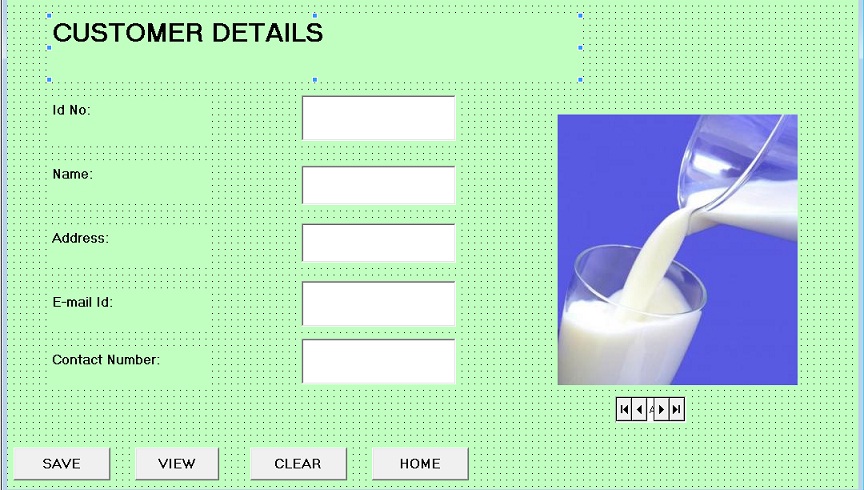


Fig 6.3. Customer Details Form

* 1. **Depositors Detail Form**

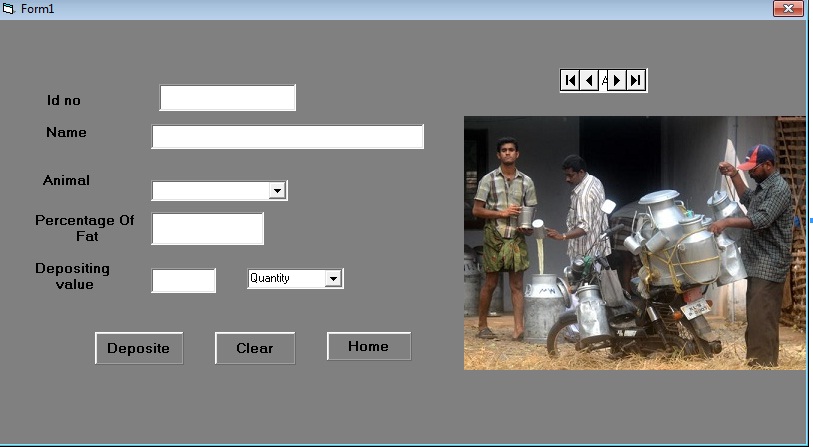


Fig6.4. Depositors Detail Form

**6.5. Employee Details Form**

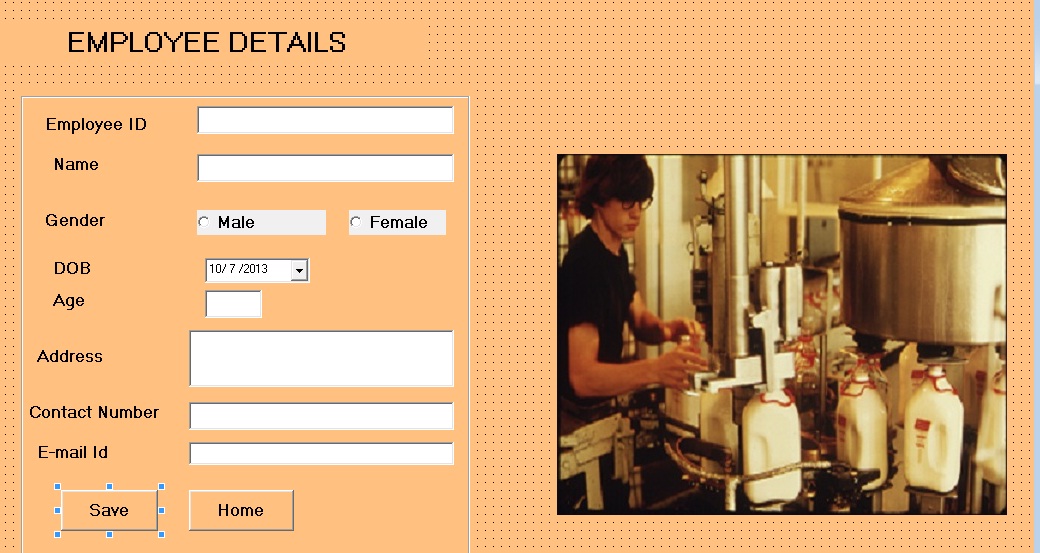


Fig6.5 Employee Detail Form

* 1. **Milk details1 Forms**



Fig 6.6.Milk details1 Forms

* 1. **Milk details2 Form**



Fig6.7 Milk Details2 Form

* 1. **Milk details 3 Form**



Fig6.8.Milk Details3 Form

* 1. **Supplier Details Form**

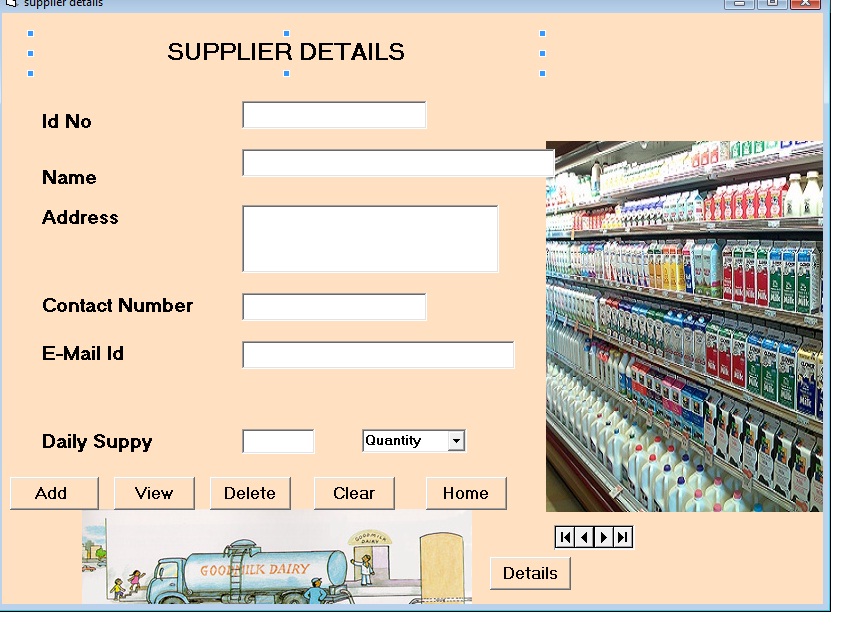


Fig6.9 Supplier Detail Form

1. **SOURCE CODE (CODE OF IMPORTANT FUNCTIONALITY)**

**7.1. For connectivity of forms**

Dim con As ADODB.Connection

Dim rs As ADODB.Recordset

Dim cmd As ADODB.Command

Private Sub Form\_Load()

Set con = New ADODB.Connection

Set rs = New ADODB.Recordset

Set cmd = New ADODB.Command

con.Open "Provider=MSDASQL.1;Password=ridhima;Persist Security Info=True;User ID=system;Data Source=login"

Adodc1.Visible = False

End Sub

* 1. **Validations**

**7.2.1 for number input**

Private Sub txt4\_KeyPress(KeyASCII As Integer)

If Not ((KeyASCII >= 48 And KeyASCII <= 58) Or KeyASCII = 127 Or KeyASCII = 8) Then

Frame3.Visible = True

End If

End Sub

* + 1. **For name**

Private Sub txt1\_KeyPress(KeyASCII As Integer)

If Not ((KeyASCII >= 97 And KeyASCII <= 122) Or KeyASCII = 127 Or (KeyASCII >= 65 And KeyASCII <= 90) Or KeyASCII = 32 Or KeyASCII = 46 Or KeyASCII = 8) Then

Frame4.Visible = True

KeyASCII = 0

End If

End Sub

**7.2.3 for contact number**

Private Sub txt4\_lostfocus()

If Len(txt4.Text) <> 10 Then

MsgBox "Contact no should be 10 digits"

txt4.Text = ""

End If

End Sub

* + 1. **for email-id**

Private Sub txt5\_lostfocus()

Dim str1 As String

str1 = txt5.Text

If (InStr(str1, "@")) Then

MsgBox "valid email id there"

Else

MsgBox "not valid email id"

txt5.Text = ""

End If

End Sub

1. **TESTING DOCUMENT**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.No** | **TEST CASE** | **FUNCTIONALITY** | **EXPECTED**  **RESULT** | **ACTUAL RESULT** | **REMARKS** |
| 1. | Login | Login into for menu | Getting logged in | Getting logged in | Pass |
| 2. | Adding records | Insert | Inserting records | Inserting records | Pass |
| 3. | Deleting records | Search, Delete | Deleting records | Searching and Deleting records | Pass |
| 4. | Viewing records | Search, View | Viewing records | Searching and Viewing records | Pass |
| 5. | Validation of email | Check @ sign | Checking @ sign | Check @ sign | Pass |
| 6. | Validation of contact number | Check whether contact number is 10 digits or not | Check for 10 digit contact number | Check for 10 digit contact number | Pass |
| 7. | Validation for name | Check that leaving alphabets nothing is entered | Check only alphabets are entered | Check only alphabets are entered | Pass |
| 8. | Bill and its data report | Calculation and Print bill | Calculation and Print bill | Calculation and Print bill | Pass |
| 9. | Data Grid | Showing details of the data from the database | Showing details of the data from the database | Showing details of the data from the database | Pass |

**Table 8.1: Testing Document**

**9. CONCLUSION**

The Milk Distributor Management System provides an integrated module for interfacing the distributors of milk. This system researches will be able to use the interface and record storage, management and information output to management modules. Distributors of milk will be benefited by having this management system that would help them to manage the details of their customers, suppliers, employees, distributors. Even milk details and bill generation is available in this system. Thus we conclude that, the development of this project benefits the milk distributors in variety of ways, with easy access to the system with secured login and easy user interface.

**10. REFERENCES**

**10.1. Books referred:**

[1] Evan Byross , “PL/SQL Book “

[2] Holzner , “Visual Basic 6 Programming Black Book”,

[3] Henry F.Korth, Abraham Silberschatz,S. Sudarshan , “Database System Concepts”, McGraw

[4] Rojer.S.Pressman, “Software Engineering A Practitioner’s Approach”, McGraw-Hill