Ex.No: 4

ONLINE TICKET RESERVATION SYSTEM

PROBLEM STATEMENT:

The “Any Where Any Time Advance Reservation” system is the online ticket reserving system where the passengers can reserve the tickets for their travel, cancel the reserved ticket and they can view the status of the ticket before travelling.

The passenger who is reserving the ticket in AWATAR unless they are the member of AWATAR. The passenger can reserve the ticket by giving the required detail in the form and submit it for the processing. They can reserve for at the max for five members and a single ticket is provided for them.

The administrator the AWATAR can control the ticket reservation and the accounts of the passengers who are signing up in AWATAR. The administrator can reset the seats, fares of the tickets, and generates the PNR number for the ticket that are reserved.

The sole control of the system is handled by the administrator. The printer prints the tickets that are reserved by the passenger. The passenger can sign-up for only one time and he can sign in for any number of times for reserving, cancelling and viewing the tickets.

The AWATAR system provides flexibility for the persons based on the age, the passengers are fared based on the age and the place of travelling. This makes ease of use in using AWATAR system. The system tracks for the database any number of times for reserving, cancelling and status viewing.

The passenger can see the status of the classes that are available in the train which he is going to travel by noticing the number of seats details from the display board.

The cancellation of the tickets is also very easy so that the passenger can cancel the tickets that he has booked.

PROBLEM REQUIREMENTS:

1. Basic Requirements:
   1) Source place.
   2) Destination place.
   3) Date of journey.

2. Functional Requirements:
1) Details of passengers.
2) Details of the coach.
3) Pay the amount using visa card or debit card.
4) Give out the balance
5) Show the detail of ticket.

3. Non-Functional Requirements:
   1) Trading system failure.
   2) Unavailability of date.
   3) Coach Unavailability
   4) Insufficient amount for making payment.
   5) Unavailability of berth.

MODELING:

UML DIAGRAMS:

Use case Diagram:

![Use Case Diagram for Online Ticket Reservation System](image)

Figure 1. Use Case diagram for Online Ticket Reservation System
Class Diagram:

Figure 2. Class Diagram for Login
Figure 3. Class Diagram for Reservation

Activity Diagram:
Figure 4. Activity Diagram for Login
Figure 7. Activity diagram for Reservation
Sequence Diagram:

Figure 10. Sequence Diagram for Login

Figure 11. Sequence Diagram for Reservation
Collaboration Diagram:

1: Requests train no
2: Enter Train no
3: Validates data
4: Requires class
5: Enter class
6: Validates data
7: Display reservation details

Figure 14. Collaboration Diagram for Login

1: Req username & password
2: Enter username & password
3: Validates data
4: Permits to access

Figure 15. Collaboration Diagram for Reservation
Component Diagram:

Figure 18. Component diagram for Online Ticket Reservation System

Deployment Diagram:

Figure 19. Deployment diagram for Online Ticket Reservation System
SOFTWARE DEVELOPMENT:
CODE IMPLEMENTATION:

Form 1:
Private Sub Command1_Click()
    Form2.Show
    Form1.Hide
End Sub
Private Sub Command2_Click()
    End
End Sub

Form 2:
Public a As New NewClass
Private Sub Command1_Click()
    a.viewdetails
End Sub
Private Sub Command2_Click()
    Form4.Show
    Form2.Hide
End Sub
Private Sub Command3_Click()
    Form5.Show
    Form2.Hide
End Sub
Private Sub Command4_Click()
    End
End Sub
Private Sub Form_Load()
    Set a = New NewClass
End Sub

Form 3:
Private Sub Command1_Click ()
    Form2.Show
    Form3.Hide
End Sub

Form 4:
Public B As New System
Public a As New NewClass
Private Sub Combo2_Click()
End Sub
Private Sub Command1_Click()
a.reservation
End Sub
Private Sub Command2_Click()
End
End Sub
Private Sub Command3_Click()
B.delete
End Sub
Private Sub Command4_Click()
Form2.Show
Form4.Hide
End Sub
Private Sub Form_Load()
Set B = New System
Set a = New NewClass
End Sub

Form 5:
Public a As New NewClass
Public B As New System
Private Sub Command1_Click()
B.update
End Sub
Private Sub Command2_Click()
a.cancellation
End Sub
Private Sub Command3_Click()
Form2.Show
Form5.Hide
End Sub
Private Sub Command4_Click()
End
End Sub
Private Sub Form_Load()
Set a = New NewClass
Set B = New System
CLASS MODULE:
NEW CLASS:
Option Explicit
Dim db As Database
Dim rs As Recordset
Public Sub viewdetails()
Form3.Show
End Sub
Public Sub reservation()
Set db = OpenDatabase("D:\06bei7876\OnlineRail\railway.mdb")
Set rs = db.OpenRecordset("details")
rs.AddNew
rs(1) = Form4.Text1.Text
rs(2) = Form4.Text2.Text
rs(3) = Form4.Text3.Text
rs(4) = Form4.Text7.Text
rs(5) = Form4.Label11.Caption
rs(6) = Form4.Text4.Text
rs(7) = Form4.Text5.Text
rs(8) = Form4.Text6.Text
rs.update
MsgBox "YOUR TICKET IS RESERVED"
End Sub
Public Sub cancellation()
Set db = OpenDatabase("D:\06bei7876\OnlineRail\railway.mdb")
Set rs = db.OpenRecordset("details")
rs.MoveFirst
While rs.EOF = False
If rs(1) = Form5.Text1.Text Then
rs.delete
MsgBox " YOUR TICKET IS CANCELLED"
Form5.Text1.Text = 
Form5.Label6.Caption = 
Form5.Label7.Caption = 
Form5.Label8.Caption = 
End If
rs.MoveNext

End Sub

Know more @ www.vidyarthiplus.com  Powered by WR1334
Wend
End Sub

SYSTEM:
Option Explicit
Dim db As Database
Dim rs As Recordset
Public Sub update()
    Set db = OpenDatabase("D:\06bei7876\OnlineRail\railway.mdb")
    Set rs = db.OpenRecordset("details")
    rs.MoveFirst
    While rs.EOF = False
        If rs(1) = Form5.Text1.Text Then
            Form5.Label6.Caption = rs(4)
            Form5.Label7.Caption = rs(8)
            Form5.Label8.Caption = rs(5)
        End If
    rs.MoveNext
    Wend
End Sub

Public Sub delete()
    Form4.Text1.Text = ""
    Form4.Text2.Text = ""
    Form4.Text3.Text = ""
    Form4.Text4.Text = ""
    Form4.Text5.Text = ""
    Form4.Text6.Text = ""
    Form4.Label10.Caption = ""
    Form4.Label11.Caption = ""
End Sub
SCREEN SHOTS:

FORM 1

![Home Page Form](image1)

Figure12: Home Page Form

FORM 2

![Option selection Form](image2)

Figure13: Option selection Form

FORM 3

![Form 3](image3)
Figure 14: Train details Form

**FORM 4**

Figure 15: Ticket Reservation Form

**FORM 5**
FORM 6

SOFTWARE TESTING:
TEST CASE REPORT:
TEST CASE NAME: Train number Availability

OBJECTIVE: Usability Test

TEST CASES:

SCENARIO 1: Train Number: 6655

EXPECTED OUTPUT: Error Message

TEST RESULT
ACTUAL OUTPUT: Train number not available

CONCLUSION:

Thus the application on student mark list analysis system is developed using rational rose and implemented using visual basic. The main aspects that are behind this application is that they enabled us to bring out the new ideas that sustained within us for many days. This application enables the student to retrieve their student details and mark details at anywhere with a system.
Ex.No: 5

STUDENT MARK ANALYSIS SYSTEM

PROBLEM STATEMENT:

Student marks analyzing system has to be developed for analyzing obtained by the students who scored in Semester Examination the System should provide following functionalities

1. The System obtains following information’s from the faculty generates report Roll No, Name, Department, Semester, Marks obtained in each subject.
2. The total for each student should be calculated and ranked based on total and pass in all the subject appeared.
3. The Final report should display rank, percentage, Class, Pass/Fail Status for each student.
4. The report should also contain information about no of students passed, failed, list of students who got more than 60% in each subject, overall list of students who got >=60%

PROBLEM REQUIREMENTS:

4. Basic Requirements:
   1) Student name and Register number.
   2) Enter the mark details of the student.
   3) Ensure the result analysis.

5. Functional Requirements:
   1) The Student must store the data to database.
   2) Each mark has to be recorded and the student must be able to review all marks.
   3) All data includes the following details: Marks, Name and Register number.
   4) System to be designed such that it automatically checks the data after stored.

6. Non-Functional Requirements:
   1) Fault occurs in Registration number.
   2) Missing any marks in the database.
   3) Wrong entry of the results.
   4) Improper Results.
MODELING:

UML DIAGRAMS:

Use case Diagram:

Figure 1. Use case diagram for Student mark analysis system.
Class Diagram:

![Class Diagram](image)

Figure 2. Class diagram for login

![Class Diagram](image)

Figure 3. Class diagram for student details

Know more @ www.vidyarthiplus.com

Powered by WR1334
Activity Diagram:

Figure 4. Activity diagram for login

- Student/Staff asked for password to login
- Student/Staff enters the password
- Entered password is verified
- Displays login successful
- Displays incorrect password
- Yes
- No

- Successfully logged student/staff is asked for student detail
- Student/staff enters the student details
- Successfully proceeds to the next process
- Displays invalid Student detail
- Yes
- No
Figure 5. Activity diagram for student details

**Sequence Diagram:**

![Sequence Diagram for Login](image)

Figure 6: Sequence diagram for Login

![Sequence Diagram for Student details](image)

Figure 7. Sequence diagram for Student details
Collaboration Diagram:

Figure 8: Collaboration diagram for Login

Figure 9: Collaboration diagram for Student details
Component diagram:

![Component Diagram for Student Mark Analysis System]

Deployment Diagram:
SOFTWARE DEVELOPMENT:

CODE IMPLEMENTATION:

Form1:
Dim a, b
Private Sub Command1_Click()
a = william
b = 123456789
Text1.Text = ""
Text2.Text = ""
If Text1.Text = "a" & Text2.Text = b Then
Option2.Visible = True
Option3.Visible = True
End If
End Sub
Private Sub Command2_Click()
End
End Sub
Private Sub Form_Load()
Option2.Visible = False
Option3.Visible = False
End Sub
Private Sub Label2_Click()
End Sub
Private Sub Option1_Click()
Form2.Show

Figure11: Deployment diagram for Student Mark Analysis System
Private Sub Option2_Click()
Form3.Show
End Sub

Private Sub Option3_Click()
Form4.Show
End Sub

Form 2:
Private Sub Command1_Click()
Dim a As String
a = InputBox("enter register number")
Data1.Recordset.MoveFirst
see:
If Data1.Recordset.Fields(1) = a Then
Text1.Text = Data1.Recordset.Fields(1)
Text2.Text = Data1.Recordset.Fields(21)
Text3.Text = Data1.Recordset.Fields(2)
Text4.Text = Data1.Recordset.Fields(3)
Text5.Text = Data1.Recordset.Fields(4)
Text8.Text = Data1.Recordset.Fields(7)
Text10.Text = Data1.Recordset.Fields(9)
Text15.Text = Data1.Recordset.Fields(14)
Text17.Text = Data1.Recordset.Fields(16)
Text20.Text = Data1.Recordset.Fields(19)
If Option1.Value = True Then
Data1.Recordset.Fields(19) = "1"
ElseIf Option2.Value = True Then
Data1.Recordset.Fields(19) = "2"
ElseIf Option3.Value = True Then
Data1.Recordset.Fields(19) = "3"
ElseIf Option4.Value = True Then
Data1.Recordset.Fields(19) = "4"
ElseIf Option5.Value = True Then
Data1.Recordset.Fields(19) = "5"
ElseIf Option6.Value = True Then
Data1.Recordset.Fields(19) = "6"
ElseIf Option7.Value = True Then
Data1.Recordset.Fields(19) = "7"
ElseIf Option8.Value = True Then
End If
Data1.Recordset.Fields(19) = "8"
End If
GoTo Terminate
Else
Data1.Recordset.MoveNext
GoTo see
End If
Terminate:
End Sub

Private Sub Form_Load()
Text1.Text ="
Text2.Text ="
Text3.Text ="
Text4.Text ="
Text5.Text ="
Text6.Text ="
Text7.Text ="
Text8.Text ="
Text9.Text ="
Text10.Text ="
Text11.Text ="
Text12.Text ="
Text13.Text ="
Text14.Text ="
Text15.Text ="
Text16.Text ="
Text17.Text ="
Text18.Text ="
Text19.Text ="
End Sub

Private Sub Text1_Change()
End Sub

Form 3:
Private Sub Command1_Click()
Dim a As String
a = InputBox("enter name")
Data2.Recordset.MoveFirst
see:
If Data2.Recordset.Fields(20) = a Then
Text1.Text = Data2.Recordset.Fields(20)
Text2.Text = Data2.Recordset.Fields(21)
Text3.Text = Data2.Recordset.Fields(2)
Text4.Text = Data2.Recordset.Fields(3)
Text5.Text = Data2.Recordset.Fields(4)
Text7.Text = Data2.Recordset.Fields(6)
Text8.Text = Data2.Recordset.Fields(7)
Text10.Text = Data2.Recordset.Fields(9)
Text11.Text = Data2.Recordset.Fields(10)
Text15.Text = Data2.Recordset.Fields(14)
Text17.Text = Data2.Recordset.Fields(16)
Text18.Text = Data2.Recordset.Fields(17)
Text20.Text = Data2.Recordset.Fields(19)
If Option1.Value = True Then
    Data2.Recordset.Fields(19) = "1"
ElseIf Option2.Value = True Then
    Data2.Recordset.Fields(19) = "2"
ElseIf Option3.Value = True Then
    Data2.Recordset.Fields(19) = "3"
ElseIf Option4.Value = True Then
    Data2.Recordset.Fields(19) = "4"
ElseIf Option5.Value = True Then
    Data2.Recordset.Fields(19) = "5"
ElseIf Option6.Value = True Then
    Data2.Recordset.Fields(19) = "6"
ElseIf Option7.Value = True Then
    Data2.Recordset.Fields(19) = "7"
ElseIf Option8.Value = True Then
    Data2.Recordset.Fields(19) = "8"
End If
GoTo Terminate
Else
    Data2.Recordset.MoveNext
    GoTo See
End If
Terminate:
End Sub
Private Sub Command2_Click()
End Sub
Private Sub Command3_Click()
Form1.Show
End Sub
Private Sub Command4_Click()
Data2.Recordset.Edit
Data2.Recordset.Fields(20) = Text1.Text
Data2.Recordset.Fields(21) = Text2.Text
Data2.Recordset.Fields(2) = Text3.Text
Data2.Recordset.Fields(3) = Text4.Text
Data2.Recordset.Fields(4) = Text5.Text
Data2.Recordset.Fields(7) = Text8.Text
Data2.Recordset.Fields(9) = Text10.Text
Data2.Recordset.Fields(14) = Text15.Text
If Option1.Value = True Then
    Data2.Recordset.Fields(19) = "1"
ElseIf Option2.Value = True Then
    Data2.Recordset.Fields(19) = "2"
ElseIf Option3.Value = True Then
    Data2.Recordset.Fields(19) = "3"
ElseIf Option4.Value = True Then
    Data2.Recordset.Fields(19) = "4"
ElseIf Option5.Value = True Then
    Data2.Recordset.Fields(19) = "5"
ElseIf Option6.Value = True Then
    Data2.Recordset.Fields(19) = "6"
ElseIf Option7.Value = True Then
    Data2.Recordset.Fields(19) = "7"
ElseIf Option8.Value = True Then
    Data2.Recordset.Fields(19) = "8"
End If
Data2.Recordset.Update
End Sub
Private Sub Form_Load()
Text1.Text = ""
Text2.Text = ""
Text3.Text = ""
Text4.Text = ""
Text5.Text = ""
Text6.Text = ""
Text7.Text = ""
Text8.Text = ""
Text9.Text = ""
Text10.Text = ""
Text11.Text = ""
Text12.Text = ""
Text13.Text = ""
Text14.Text = ""
Text15.Text = ""
Text16.Text = ""
Text17.Text = ""
Text18.Text = ""

Know more @ www.vidyarthiplus.com  Powered by WR1334
Text19.Text = ""
End Sub

Form 4:
Private Sub Command1_Click()
Dim a As String
Data3.Recordset.Edit
a = InputBox("enter name")
Data3.Recordset.MoveFirst
see:
If Data3.Recordset.Fields(20) = a Then
Text1.Text = Data3.Recordset.Fields(20)
Text3.Text = Data3.Recordset.Fields(2)
Text5.Text = Data3.Recordset.Fields(4)
Text8.Text = Data3.Recordset.Fields(7)
Text10.Text = Data3.Recordset.Fields(9)
Text15.Text = Data3.Recordset.Fields(14)
If Option1.Value = True Then
Data3.Recordset.Fields(19) = "1"
ElseIf Option2.Value = True Then
Data3.Recordset.Fields(19) = "2"
ElseIf Option3.Value = True Then
Data3.Recordset.Fields(19) = "3"
ElseIf Option4.Value = True Then
Data3.Recordset.Fields(19) = "4"
ElseIf Option5.Value = True Then
Data3.Recordset.Fields(19) = "5"
ElseIf Option6.Value = True Then
Data3.Recordset.Fields(19) = "6"
ElseIf Option7.Value = True Then
Data3.Recordset.Fields(19) = "7"
ElseIf Option8.Value = True Then
Data3.Recordset.Fields(19) = "8"
End If
GoTo Terminate
Else
Data3.Recordset.MoveNext
Private Sub Command2_Click()
    End
End Sub

Private Sub Command3_Click()
    Form1.Show
End Sub

Private Sub Command4_Click()
    Data3.Recordset.Edit
    Data3.Recordset.Fields(20) = Text1.Text
    Data3.Recordset.Fields(2) = Text3.Text
    Data3.Recordset.Fields(4) = Text5.Text
    Data3.Recordset.Fields(7) = Text8.Text
    Data3.Recordset.Fields(14) = Text15.Text
    If Option1.Value = True Then
        Data3.Recordset.Fields(19) = "1"
    ElseIf Option2.Value = True Then
        Data3.Recordset.Fields(19) = "2"
    ElseIf Option3.Value = True Then
        Data3.Recordset.Fields(19) = "3"
    ElseIf Option4.Value = True Then
        Data3.Recordset.Fields(19) = "4"
    ElseIf Option5.Value = True Then
        Data3.Recordset.Fields(19) = "5"
    ElseIf Option6.Value = True Then
        Data3.Recordset.Fields(19) = "6"
    ElseIf Option7.Value = True Then
        Data3.Recordset.Fields(19) = "7"
    Else
        Data3.Recordset.Fields(19) = "8"
    End If
    Data3.Recordset.Update
End Sub
Private Sub Form_Load()
Text1.Text = ""
Text2.Text = ""
Text3.Text = ""
Text4.Text = ""
Text5.Text = ""
Text6.Text = ""
Text7.Text = ""
Text8.Text = ""
Text9.Text = ""
Text10.Text = ""
Text11.Text = ""
Text12.Text = ""
Text13.Text = ""
Text14.Text = ""
Text15.Text = ""
Text16.Text = ""
Text17.Text = ""
Text18.Text = ""
Text19.Text = ""
End Sub

SCREEN SHOTS:

FORM 1
Figure 12: Login Form

mark analysis system

username: 
password: 
[enter] [exit]

FORM 2

student mark analysis

<table>
<thead>
<tr>
<th>register number</th>
<th>T16</th>
<th>click</th>
<th>semester</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>roll number</td>
<td>T0</td>
<td></td>
<td>internal</td>
<td>66</td>
<td>66</td>
<td>66</td>
<td>66</td>
<td>66</td>
<td>66</td>
<td>66</td>
</tr>
<tr>
<td>sections</td>
<td></td>
<td></td>
<td>external</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td>44</td>
</tr>
<tr>
<td>sub 1</td>
<td></td>
<td></td>
<td></td>
<td>58</td>
<td>58</td>
<td>58</td>
<td>58</td>
<td>58</td>
<td>58</td>
<td>58</td>
</tr>
<tr>
<td>sub 2</td>
<td></td>
<td></td>
<td></td>
<td>68</td>
<td>68</td>
<td>68</td>
<td>68</td>
<td>68</td>
<td>68</td>
<td>68</td>
</tr>
<tr>
<td>sub 3</td>
<td></td>
<td></td>
<td></td>
<td>77</td>
<td>77</td>
<td>77</td>
<td>77</td>
<td>77</td>
<td>77</td>
<td>77</td>
</tr>
<tr>
<td>sub 4</td>
<td></td>
<td></td>
<td></td>
<td>82</td>
<td>82</td>
<td>82</td>
<td>82</td>
<td>82</td>
<td>82</td>
<td>82</td>
</tr>
<tr>
<td>sub 5</td>
<td></td>
<td></td>
<td></td>
<td>57</td>
<td>57</td>
<td>57</td>
<td>57</td>
<td>57</td>
<td>57</td>
<td>57</td>
</tr>
<tr>
<td>sub 6</td>
<td></td>
<td></td>
<td></td>
<td>68</td>
<td>68</td>
<td>68</td>
<td>68</td>
<td>68</td>
<td>68</td>
<td>68</td>
</tr>
</tbody>
</table>

[submit] [exit]

Figure 13: Student view Form

FORM 3

Know more @ www.vidyarthiplus.com Powered by WR1334
Figure 14: Staff view Form

Figure 15: Principal view Form
Figure 16: Student entering register number of other student

FORM 6

STAFF VIEW

Know more @ www.vidyarthiplus.com
SOFTWARE TESTING:

TEST REPORT

TEST CASE NAME: Check Roll Number

OBJECTIVE: usability test

TEST CASES

SCENARIO: Roll number is a integer value

SAMPLE INPUT: NAME: KARTHIK

ROLL NUMBER: K

EXPECTED OUTPUT:

Error message

TEST RESULT:

ACTUAL OUTPUT: Invalid Roll

CONCLUSION:

Thus the application on student mark list analysis system is developed using rational rose and implemented using visual basic. The main aspects that are behind this application is that they enabled us to bring out the new ideas that sustained within us for many days. This application enables the student to retrieve their student details and mark details at anywhere with a system.
Ex.No:6

PAYROLL SYSTEM

PROBLEM STATEMENT:

In the olden days, salary detail maintenance plays the major role to maintain the records. They gave the salary without any records. So many of them gave the salary twice or thrice per month.

Because of improper maintenance, to avoid that they need certain records to maintain the particular employee details. So we provide the Employee payroll system to manage the records.

Our project is to maintain the Employee Payroll System in the easy manner. This project makes use of Visual Basic and oracle. In this project it contains a many fields like employee account number, employee name, job, basic salary, PA, HRA, attendance.

We can calculate the total salary, basic salary in easier manner without any error by using some attribute. These calculated salary are stored in database as record and we can retrieve record whenever required in easier way.

The objective of the project is to create an application that can maintain the employee payroll system.

In this project creating many forms like login form, new user account form, Employee details form, salary details form, Deleting the employee form.

PROBLEM REQUIREMENTS:

7. Basic Requirements:
   1) Enter the employee details.
   2) Enter the salary details of the employee.
8. Functional Requirements:
   1) The employee must store the data to database.
   2) Each time salary has to be recorded and employee must be able to review salary.
   3) All data includes the following details: Name, employee ID.
9. Non-Functional Requirements:
   1) System should be simple to operate without any formal training.
   2) System must be reused and protected from other unauthorized users.

MODELING:

UML DIAGRAMS:

Use case Diagram:
Figure 1. Use Case Diagram For Payroll System

Class Diagram:

- **Login Form**
  - Account No.
  - Password
  - Login()
  - Display()

- **Login Controller**
  - Account No.
  - Password
  - Validate()
  - Display()

- **Login Account**
  - Account No.
  - Password
  - Validate()
  - Authenticate()

Figure 2. Class Diagram for Login
Figure 3. Class Diagram For Calculating Salary

Activity Diagram:

1. System requires the Account No and Password
2. Employee enters the Account No. and Password
3. System validates the user's data
4. Successful login: System enters into the user's account
5. Unsuccessful login: System displays error message
   - User re-enters the details
   - User re-enters the details
Figure 4. Activity diagram for login

![Activity Diagram for Login](image)

Figure 5. Activity Diagram For Salary Calculation

**Sequence Diagram:**

![Sequence Diagram for Login](image)

Figure 6. Sequence Diagram for Login

Know more @ [www.vidyarthiplus.com](http://www.vidyarthiplus.com)
Figure 7. Sequence Diagram for salary calculation

Collaboration Diagram:

1: Req Acc. No. & Pwd
2: Enter Acc. No. & Pwd
3: Validates the details
4: Authenticates the user
5: Display the message

Figure 8. Collaboration Diagram for Login
Figure 9. Collaboration Diagram for salary calculation

Component Diagram:

Payroll System

Update

Counter PC

Deployment Diagram:

Payroll System

Counter PC
SOFTWARE DEVELOPMENT:

CODE IMPLEMENTATION:

Form1:

Private Sub Command1_Click()
If Text1.Text = "anderson" And Text2.Text = "1234" Then
Form2.Visible = True
Form2.Command2.Visible = False
Form2.Command3.Visible = False
Form2.Command4.Visible = False
Form2.Command5.Visible = False
Form2.Command6.Visible = False
Form2.Command7.Visible = False
Form2.Command8.Visible = False
Form1.Visible = False
Form3.Visible = False
Form4.Visible = False
Else
MsgBox ("incorrect username and password")
Form1.Visible = True
End If
End Sub

Private Sub Command2_Click()
If Text3.Text = "peterson" And Text4.Text = "123456789" Then
Form2.Visible = True
Form1.Visible = False
Form3.Visible = False
Form4.Visible = False
Else
MsgBox ("incorrect username and password")
Form1.Visible = True
End If
End Sub

Private Sub Form_Load()
Frame1.Visible = False
Frame2.Visible = True
Frame3.Visible = False
End Sub

Private Sub Label3_Click()
End Sub

Private Sub Option1_Click()
Frame1.Visible = False
Frame3.Visible = True
End Sub

Private Sub Option2_Click()
Frame3.Visible = False
Frame1.Visible = True
Form 2:

Private Sub Command1_Click()
End
End Sub

Private Sub Command2_Click()
Form3.Show
Form4.Hide
End Sub

Private Sub Command3_Click()
Form4.Show
Form3.Hide
End Sub

Private Sub Command5_Click()
Dim X As String
Dim a As Integer
If Text6.Text = "CEO" Then
Text8.Text = "20000"
a = 1
ElseIf Text6.Text = "MANAGER" Then
Text8.Text = "15000"
a = 1
ElseIf Text6.Text = "PROJECT MANAGER" Then
Text8.Text = "12000"
a = 1
ElseIf Text6.Text = "PROGRAMMER" Then
Text8.Text = "10000"
a = 1
Else
a = 0
X = MsgBox("ENTER THE OCCUPATION")
End If
If a = 1 And Text13.Text <> "" And Text7.Text <> "" And Text8.Text <> "" Then
Text1.Text = ""
Text2.Text = ""
Text3.Text = ""
Text4.Text = ""
Text5.Text = ""
Text6.Text = ""
Text7.Text = ""
Text8.Text = ""
Text9.Text = ""
Text10.Text = ""
Text11.Text = ""
Text12.Text = ""
Text13.Text = ""
Text14.Text = ""
End Sub
Private Sub Command7_Click()
Data1.Recordset.AddNew
Data1.Recordset.Update
End Sub
Private Sub Command8_Click()
End
End Sub

Form 3:

Private Sub Command1_Click()
Data2.Recordset.Edit
Data2.Recordset.Fields(0) = Text1.Text
Data2.Recordset.Fields(1) = Text2.Text
Data2.Recordset.Fields(2) = Text3.Text
Data2.Recordset.Fields(3) = Text4.Text
Data2.Recordset.Fields(4) = Text5.Text
If Text6.Text = "CEO" Then
Data2.Recordset.Fields(5) = "CEO"
Data2.Recordset.Fields(7) = "20000"
ElseIf Text6.Text = "MANAGER" Then
Data2.Recordset.Fields(5) = "MANAGER"
Data2.Recordset.Fields(7) = "15000"
ElseIf Text6.Text = "PROJECT MANAGER" Then
Data2.Recordset.Fields(5) = "PROJECT MANAGER"
Data2.Recordset.Fields(7) = "12000"
ElseIf Text6.Text = "PROGRAMMER" Then
Data2.Recordset.Fields(5) = "PROGRAMMER"
Data2.Recordset.Fields(7) = "10000"
Else
MsgBox("ENTER THE OCCUPATION")
End If
Data2.Recordset.AddNew
End Sub
Private Sub Command2_Click()
Form1.Show
End Sub
Private Sub Label2_Click()
End Sub

**Form4:**

Private Sub Command1_Click()
Dim a As String
a = InputBox("enter account number")
Data3.Recordset.MoveFirst
see:
If Data3.Recordset.Fields(1) = a Then
Data1.Recordset.Delete
GoTo Terminate
Else
Data3.Recordset.MoveNext
GoTo see
End If
Terminate:
End Sub
Private Sub Command2_Click()
Form1.Show
End Sub
Private Sub Label2_Click()
End Sub

**SCREEN SHOTS:**

**FORM 1**
Figure 12: Login form for Employee view

FORM 2

Figure 13: Employee view Form
FORM 3

Figure 14: Login form for Administrator view

FORM 4

Figure 15: Administrator view
FORM 5

Figure 16: Create Account form

FORM 6

Figure 17: Delete Account form
SOFTWARE TESTING:
TEST REPORT:
TEST CASE NAME: Profile availability check.
OBJECTIVE: Usability test.
TEST CASE:
SCENARIO: Viewing profile with id.
SAMPLE INPUT: Enter the staff id.
EXPECTED OUTPUT: Error message displayed.
TEST RESULTS:
ACTUAL OUTPUT: Profile not found!

CONCLUSION:
Thus the application on payroll system is developed using rational rose and implemented using visual basic. The main aspects that are behind this application are that they enabled us to bring out the new ideas that sustained within us for many days. This application will be a successful one because this application offers the admin to calculate the salary in a very easy manner. Thus saving their time.