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:

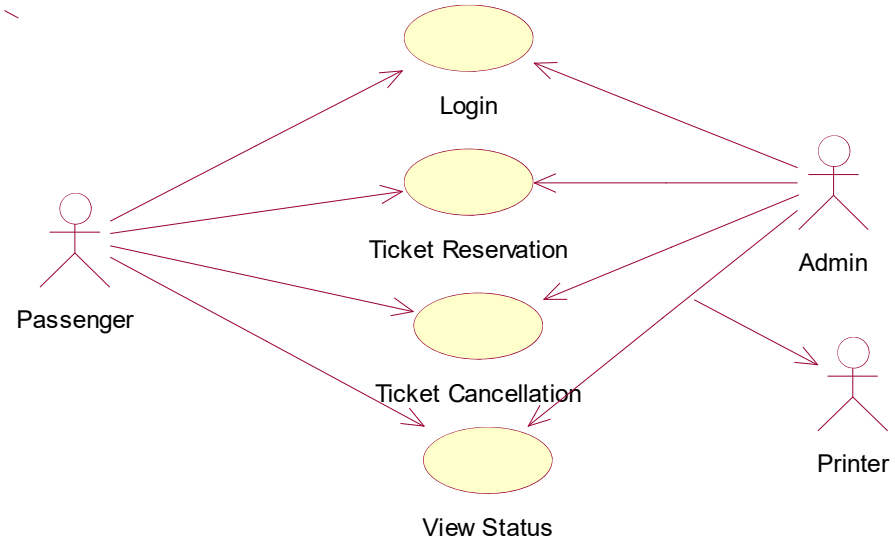

Figure 1. Use Case diagram for Online Ticket Reservation System

Class Diagram:

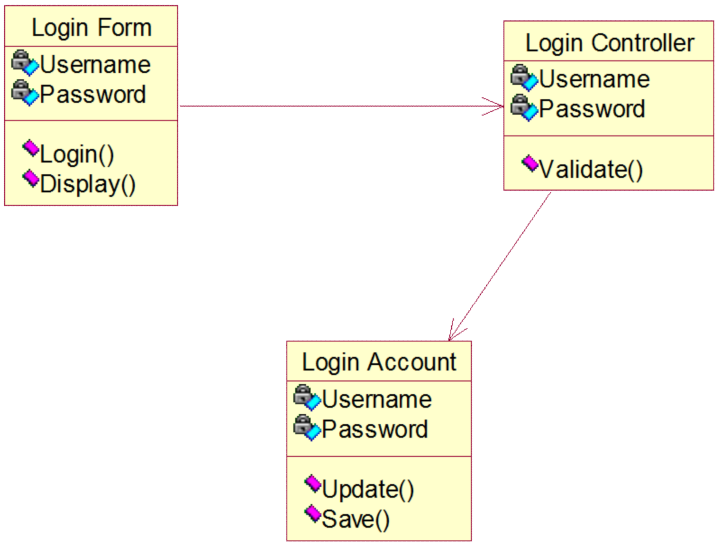

Figure 2.Class Diagram for Login

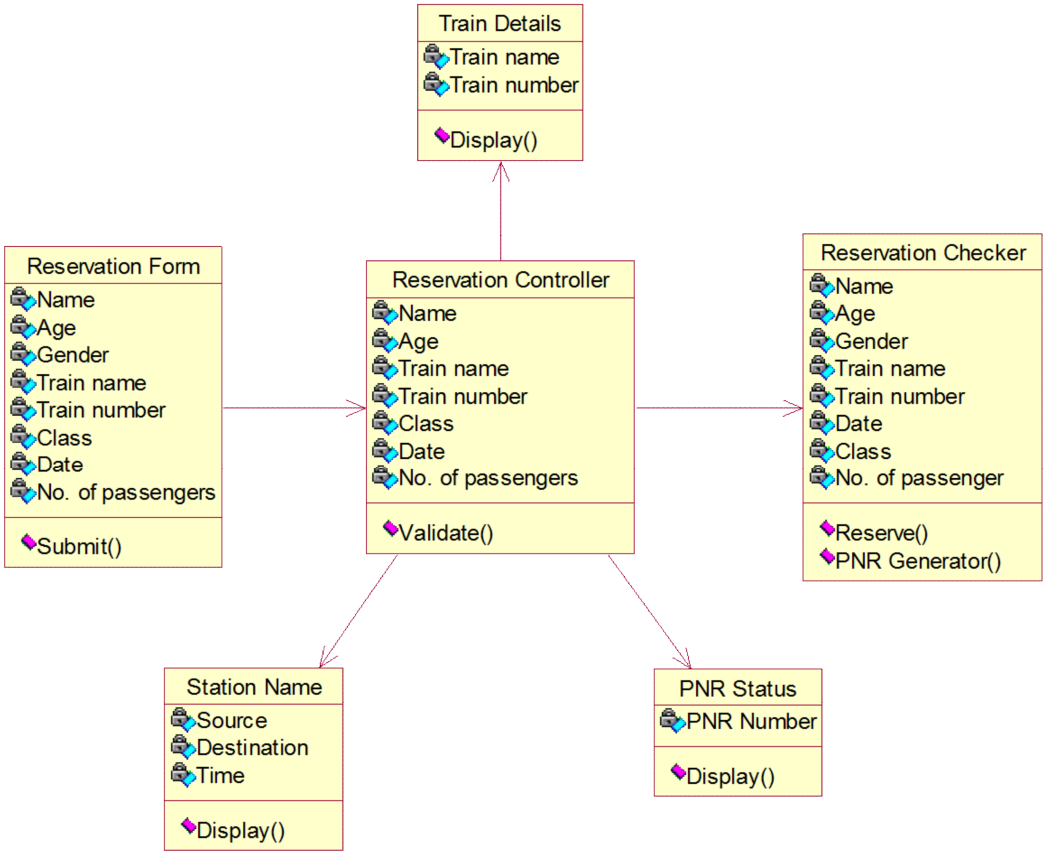

Figure 3.Class Diagram for Reservation

Activity Diagram:

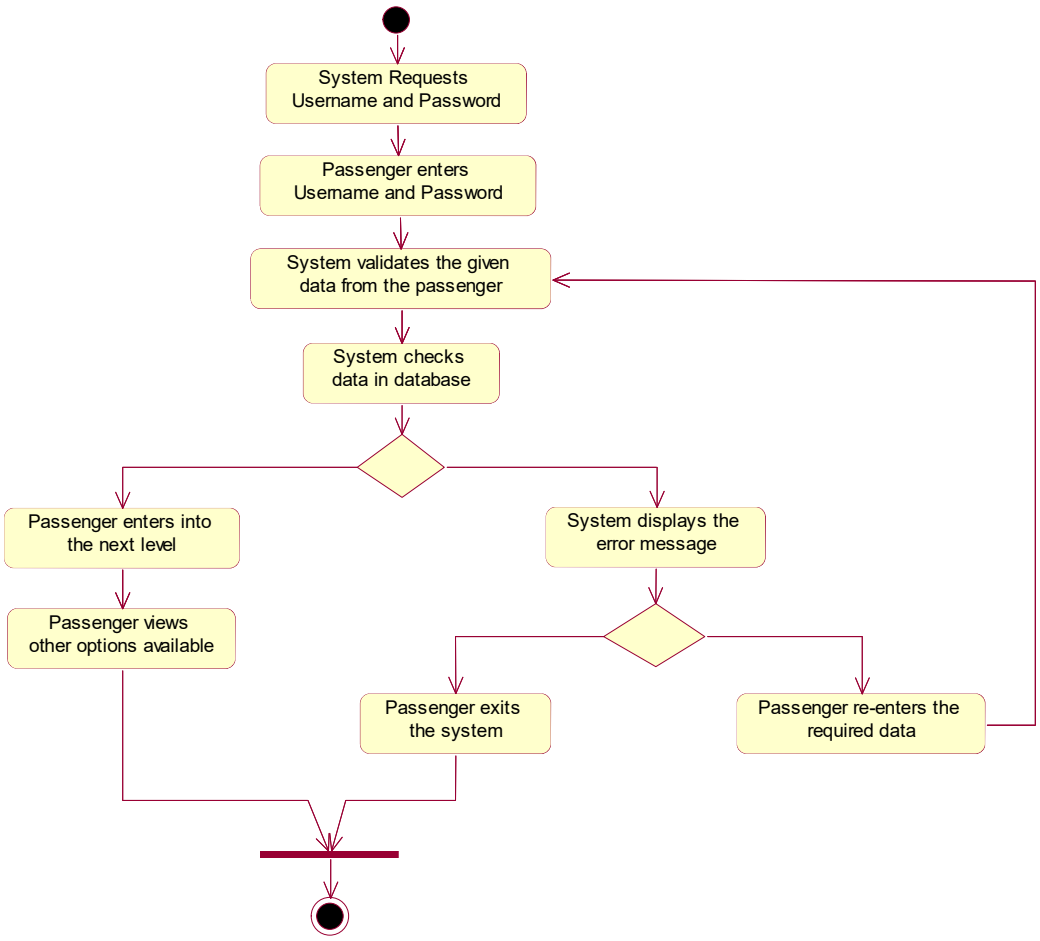

Figure 4. Activity Diagram for Login

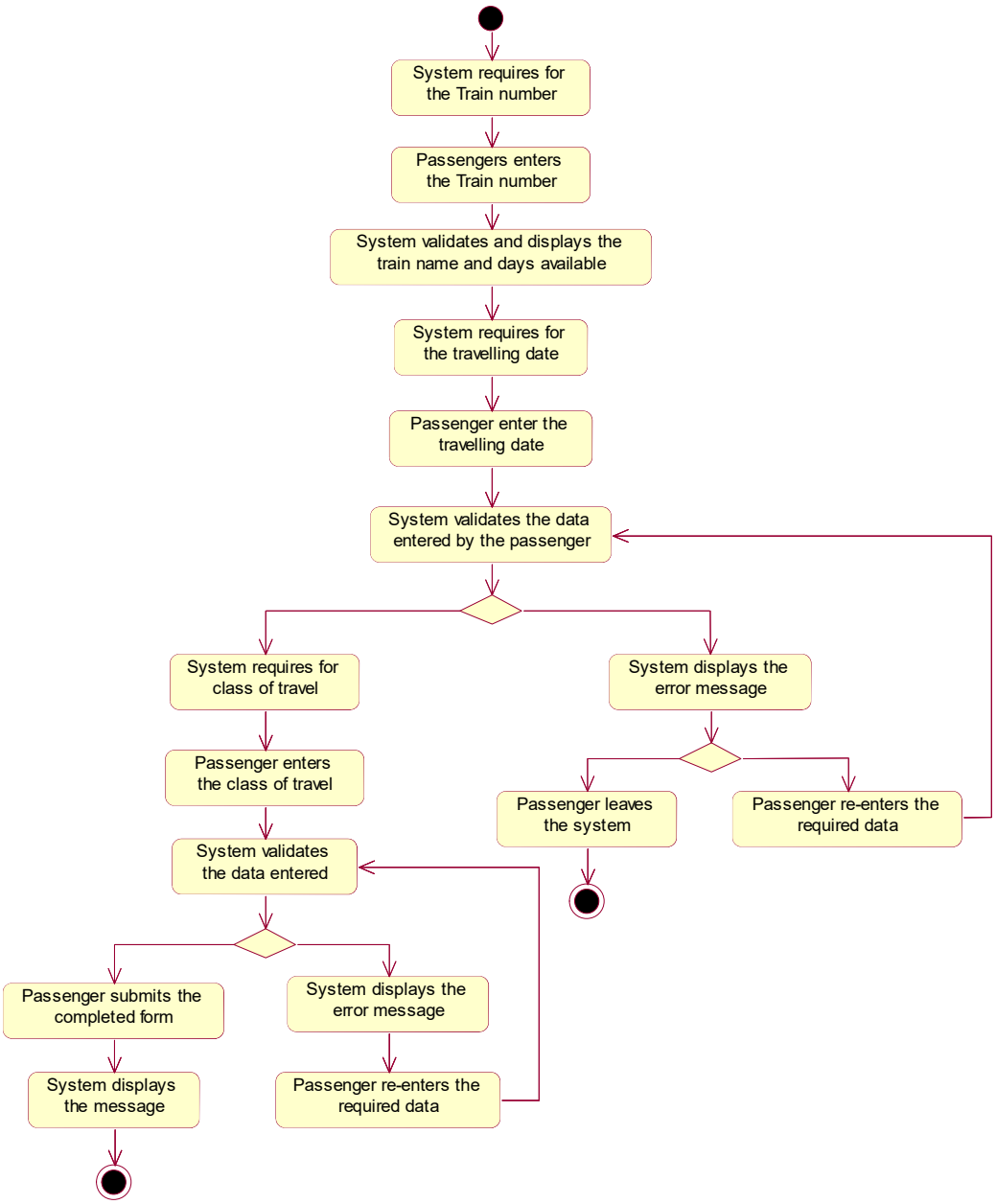

Figure 7. Activity diagram for Reservation

Sequence Diagram:

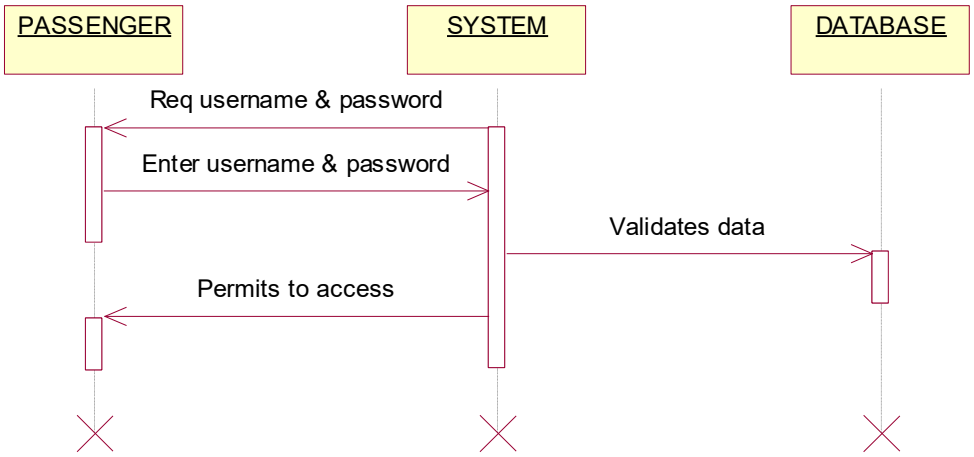

Figure 10. Sequence Diagram for Login

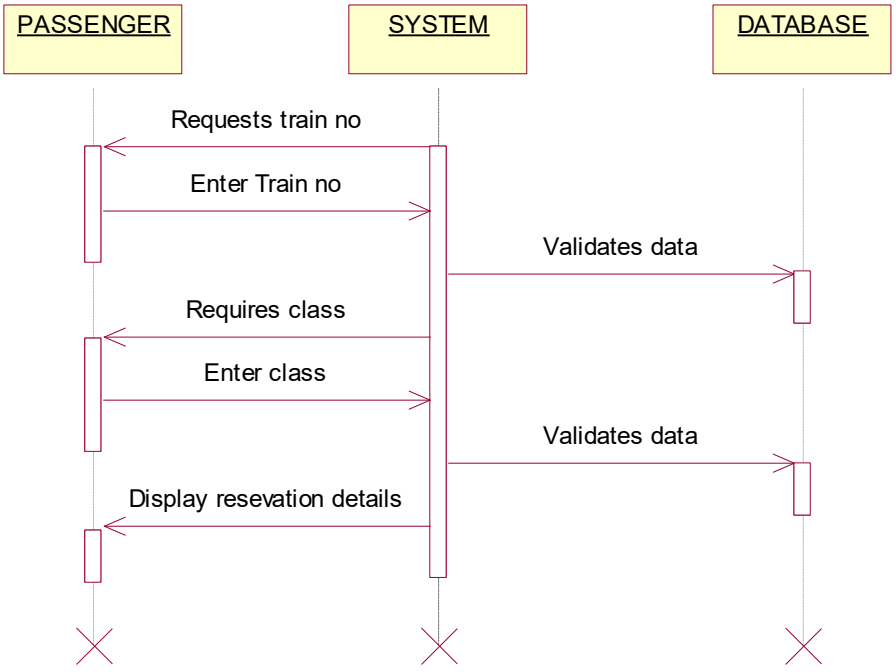

Figure 11. Sequence Diagram for Reservation

Collaboration Diagram:

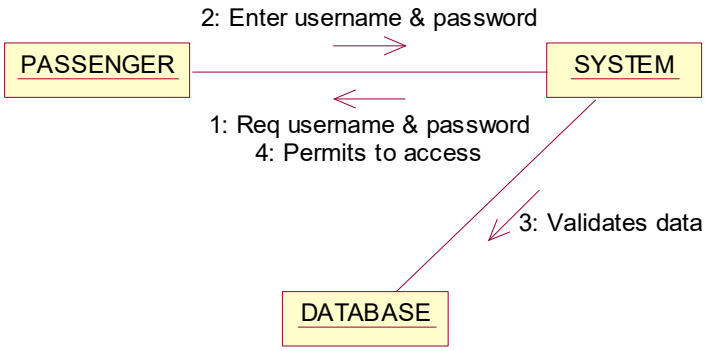

Figure 14. Collaboration Diagram for Login

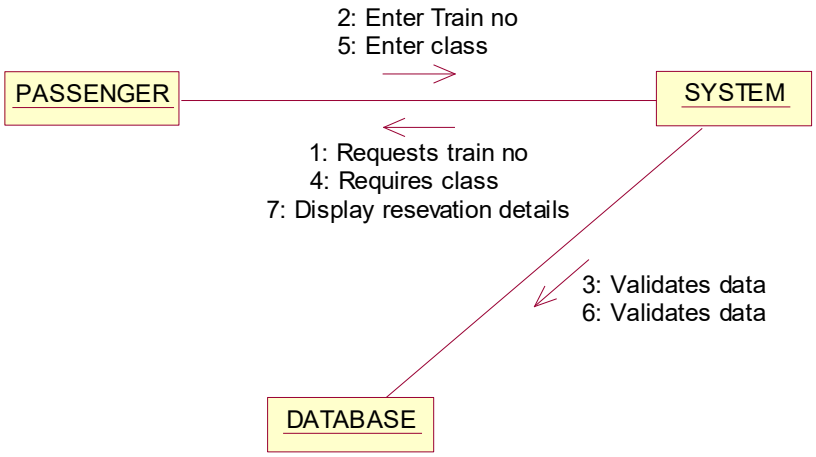

Figure 15. Collaboration Diagram for Reservation

Component Diagram:

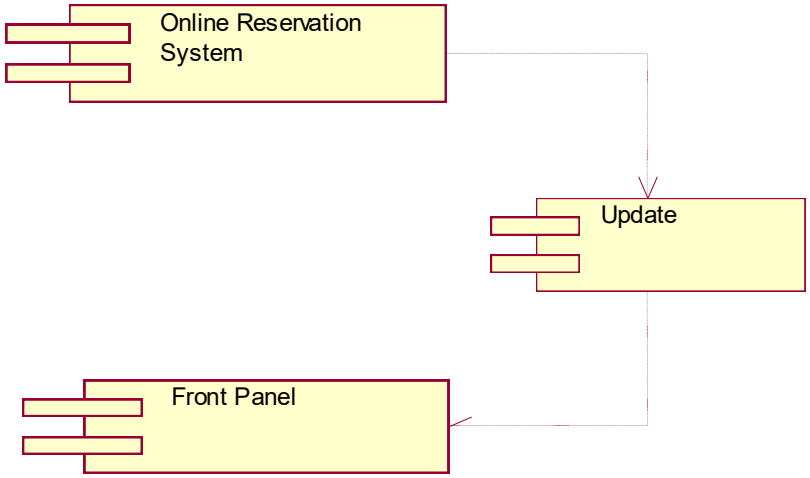

Figure 18. Component diagram for Online Ticket Reservation System

Deployment Diagram:

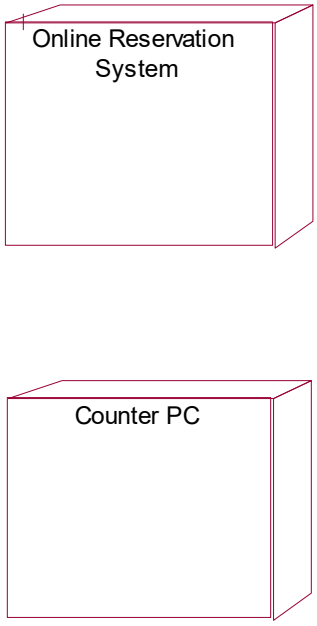

Figure 19. Deployment diagram for Online Ticket Reservation System

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()
Form4.Label11.Caption = Form4.Combo2.Text
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
```

```
End Sub
```

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
```

```
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

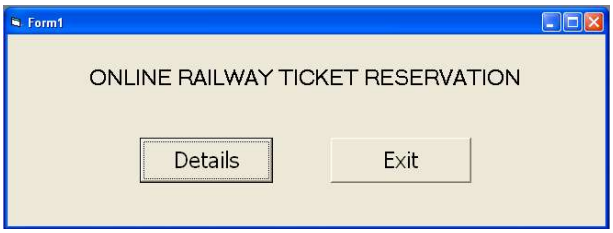

Figure12: Home Page Form

FORM 2

Figure13: Option selection Form

FORM 3

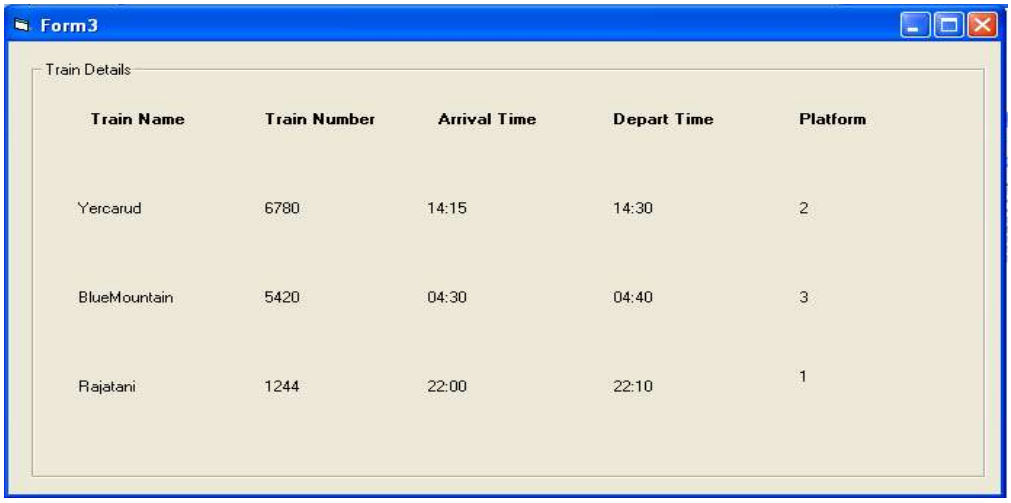

Figure14: Train details Form

FORM 4

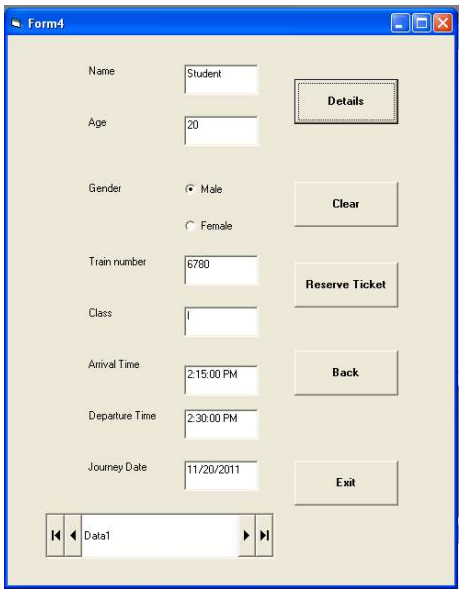

Figure15: Ticket Reservation Form

FORM 5

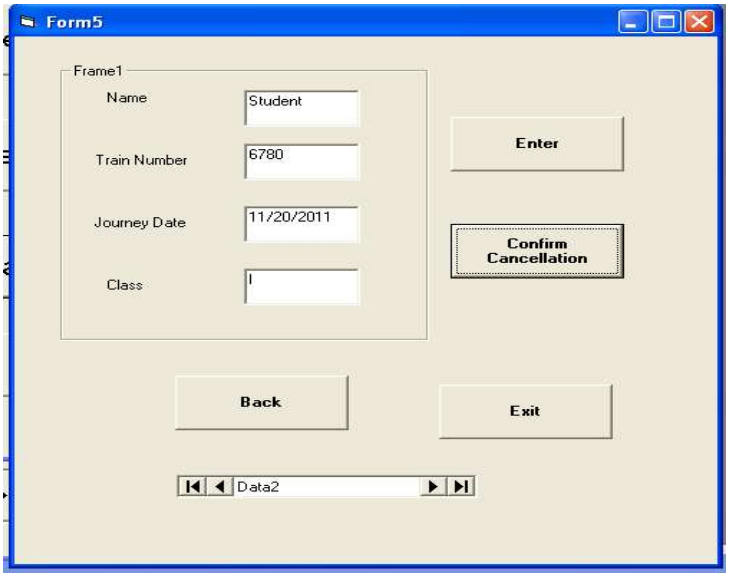

Figure16: Ticket cancellation Form

FORM 6

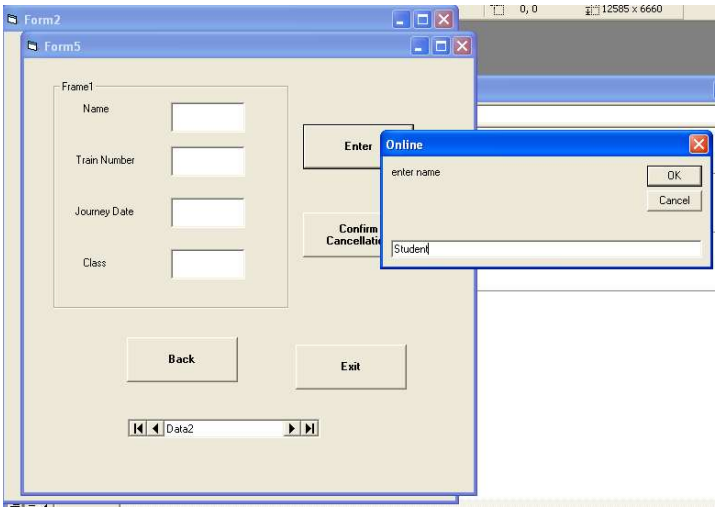

Figure17: Entering Name for Cancelling ticket

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.