EX. NO:5
DATE :

ONLINE VOTING SYSTEM

AIM:

To prepare necessary documents and to develop the project **Course Registration System** with UML diagrams using Software Engineering Methodology.

PROGARM ANALYSIS AND PROJECT PLANNING

This project **COURSE REGISTRATION SYSTEM** is to develop an application to make the student registration in computer centers. First the students select their needed course from the available courses. Then submit their details with their qualification. If there is wanted course available we allocate a seat and reduce one from that. These functions are done in student login. In administration login the authorized person can do the operations of the delete, update and search.

SOFTWARE REQUIREMENT ANALYSIS

The Modules in the Project:

1. Login student 1.1
   course detail 1.2
   Student details
2. Login Administration
   2.1 view
   2.2 update
   2.3 exit

The student login provides the options are course details.

In this login a student can choose the given course and fill up the student details for registration such as

1. Name
2. Gender
3. Place
4. Date of birth
5. Qualification

In the administration login ,the management uses it for the purpose of making an admission etc. They are

1. Amount
2. Payment details
3. Student details
4. Name of the bank

Some function in the administration can be given below:

1. View -helps in viewing the student details.
2. Update -helps in updating the latest function.admission.
3. Exit -helps in the normal exit

SYSTEM SPECIFICATION SOFTWARE REQUIRMENTS:

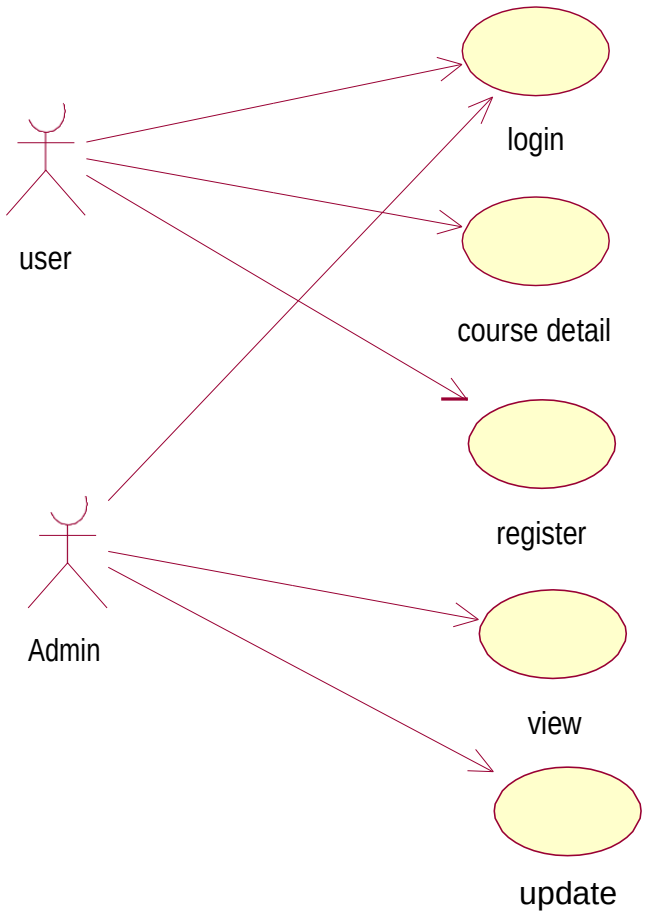
DATA DICTIONARY:

Field Name	Description	Data Type	Field Size	Default Value	Validation
Name	Name of the Student	string	20	Null	(A-Z)or(a-z)
Gender	Gender of the student	string	10	Null	(A-Z)or(a-z)
Place	Address of the student	string	20	Null	(A-Z)or -
Dob	Date of birth of a student	integer	03	Null	-
qualification	Course studied by the student	string	50	Null	-

HARDWARE REQUIRMENTS:

- Operating system:windows xp
- Front end:Microsoft Visual Studio 2005
- Back end:MS-Acess
- Processor:Intel pentium IV
- RAM:512MB
- Harddisk:80GB
- Monitor:17”LCD
- Keyboard:multimedia keyboard
- Mouse: USB optical mouse

USE CASE DIAGRAM:



Use Case Diagram:

Use case diagram is a graph of actors, set of use cases enclosed by a system boundary, communication (participation) association between the actors and the cases and a generalization among the use cases.

Actors:

An actor represents a set of roles that user of a use case play when interacting with the use cases. Actor identified here is Staff, Student and Administrator.

Use case:

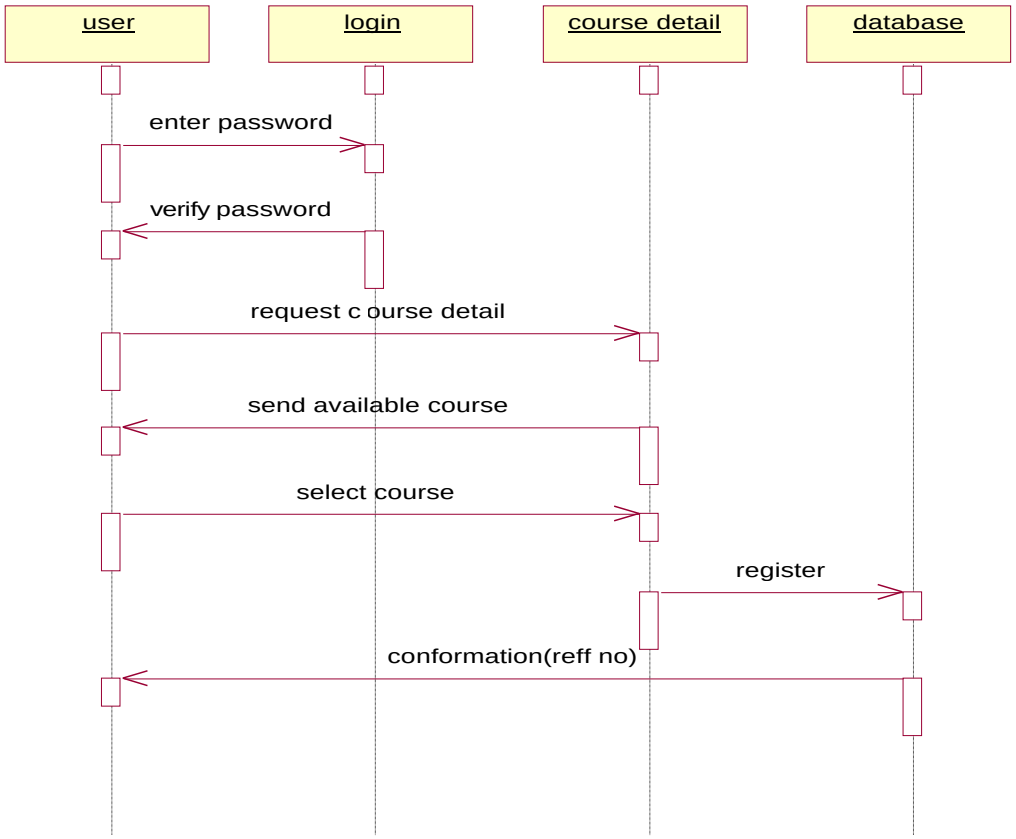
A use case is a description of a set of sequence of action that a system performs to yield result of value to an actor.

The Use Cases described are

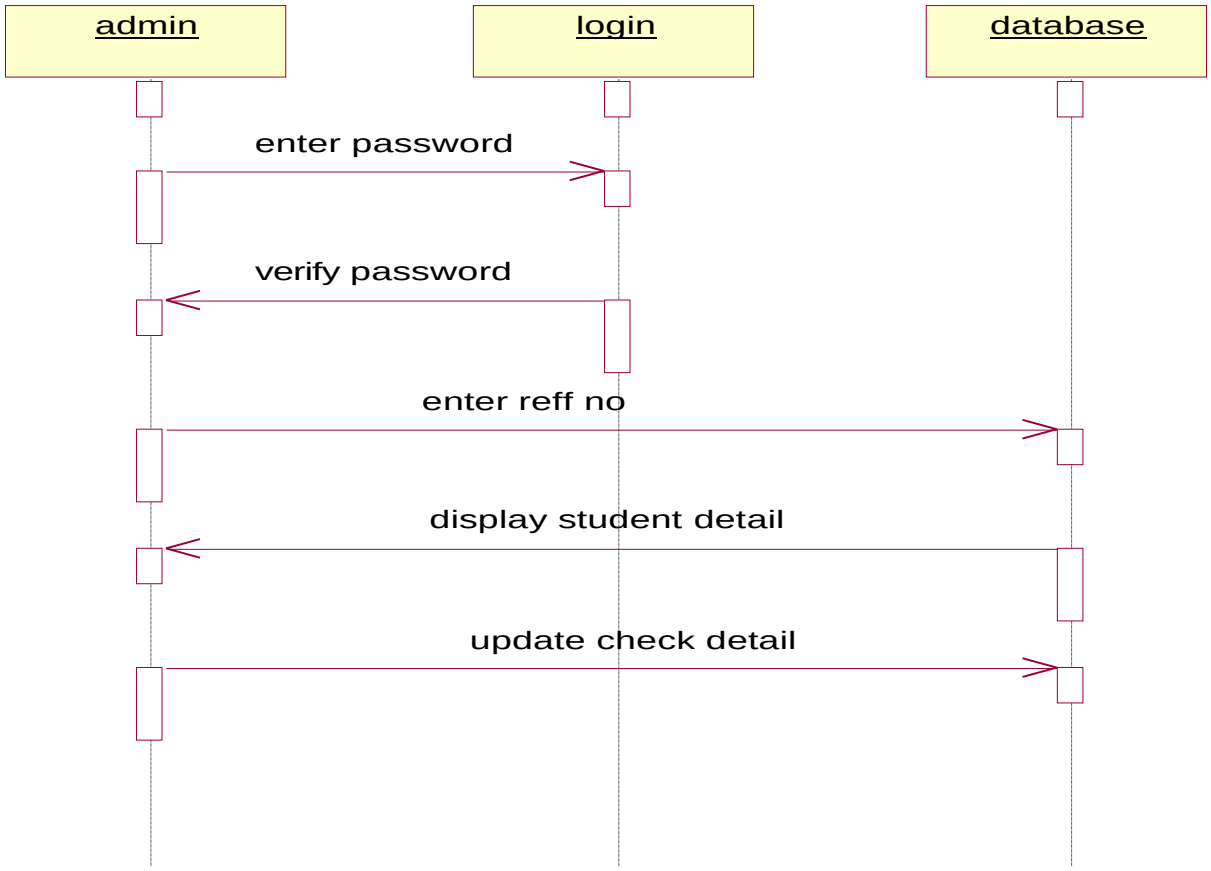
1. Login
2. Course Details
3. Register
4. View
5. Update

1. The Login use case is to describe that, the user should choose his/her category whether he/she is user or administrator.
2. The use case display the course details and the offered with their instruction and also about the payment.
3. The use case collects the information about the user such as name, address, contact no, E=mail id, etc, and stored the details in the data base
4. The View Details use case describes that the administrator views the details about the user and update the payment details in the registration form.
5. The update details are confirmation details of user requisition to the course registration, and he is allowed to attain the course.

SEQUENCE DIAGRAM FOR USER:



SEQUENCE DIAGRAM FOR ADMIN:



Sequence diagrams are easy and intuitive way of describing the behavior of a system by viewing the interaction between the system and its environment. A sequence diagram shows an interaction arranged in a time sequence. Here we use two sequence diagrams one is for administrator and another is for user.

The objects used in this sequence diagram of user are,

1. Student
2. Login
3. Course Detail
4. Register

The student is the course selector. They first select their course and fill the registration form and then submit. After submitting the administrator modifies and updates the registration.

The objects used in this sequence diagram of administrator are,

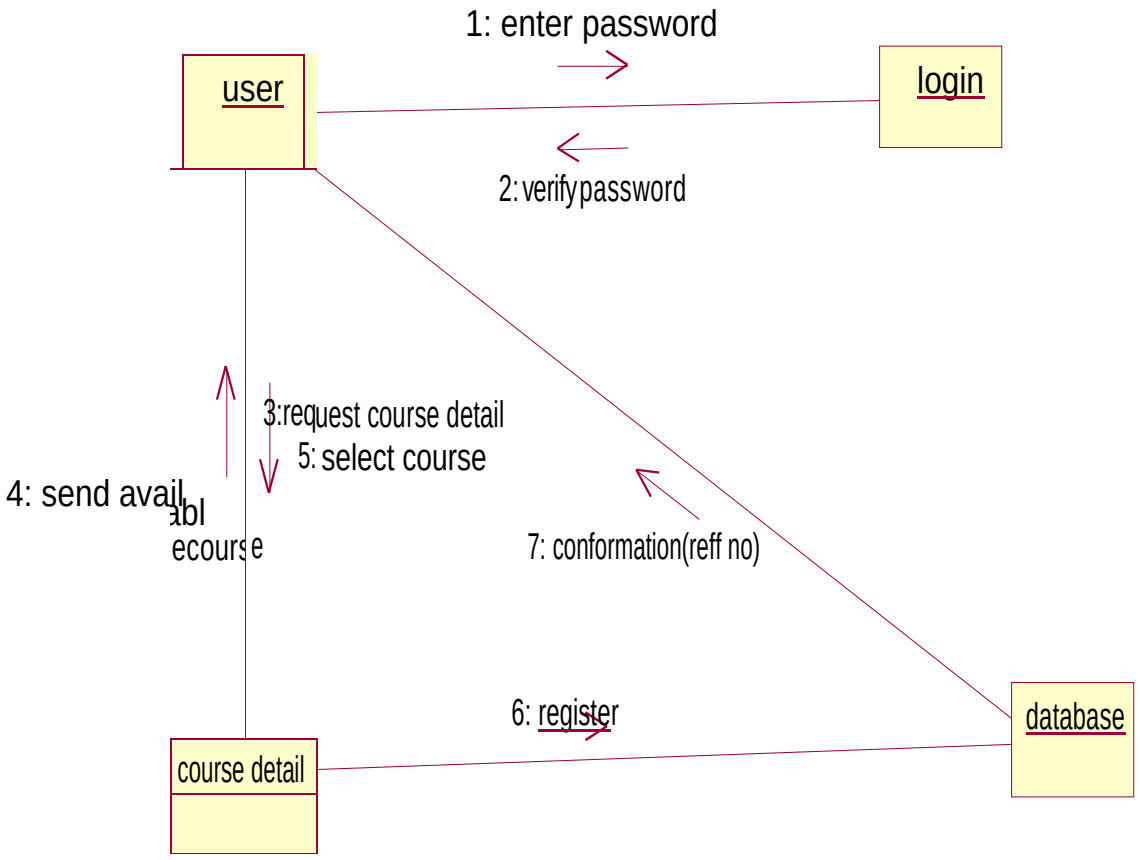
a. Admin
b. Login
c. View
d. Update

BASIC FLOW:

The user has to login and fill up the registration form for their course need and submit it. For each registration a reference number is given. The administrator views the details with that reference number and he updates the details with additional information.

COLLABORATION DAIGRAM:

COLLABRATION DIAGRAM FOR USER



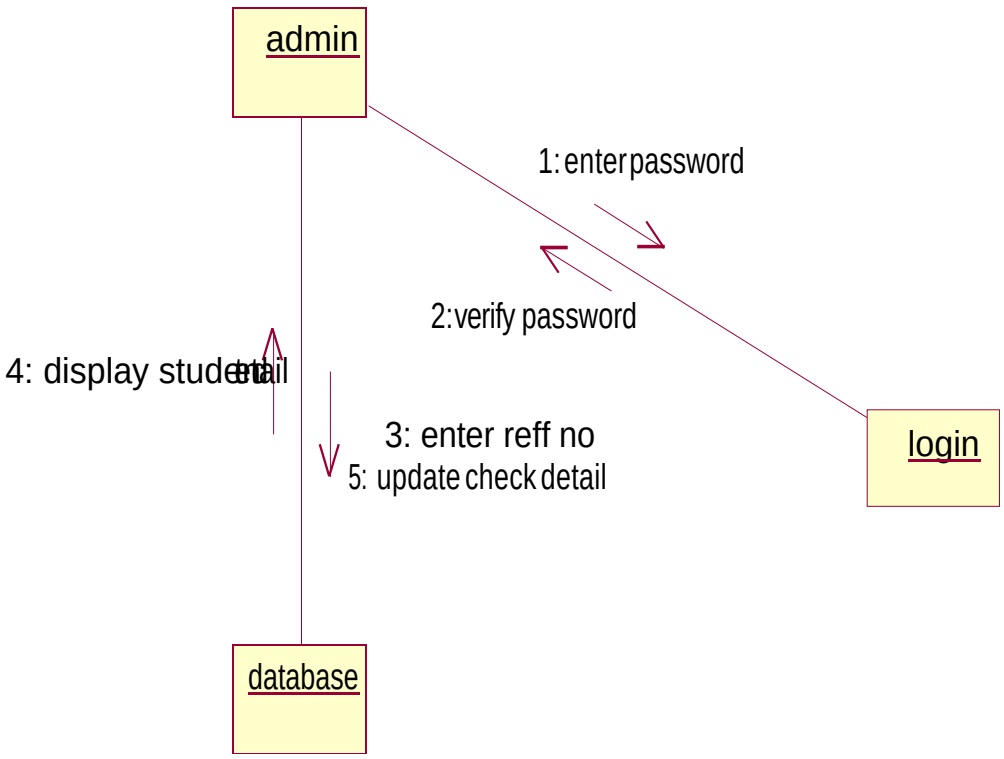
A collaboration diagram represents a collaboration, which is a set of objects related in a particular context, and interaction, which is a set of messages exchanged among the objects within the collaboration to achieve a desired outcome.

Collaboration diagram shows exactly the same information as the sequence diagram. However, collaboration diagram shows this information in a different way and with different purpose.

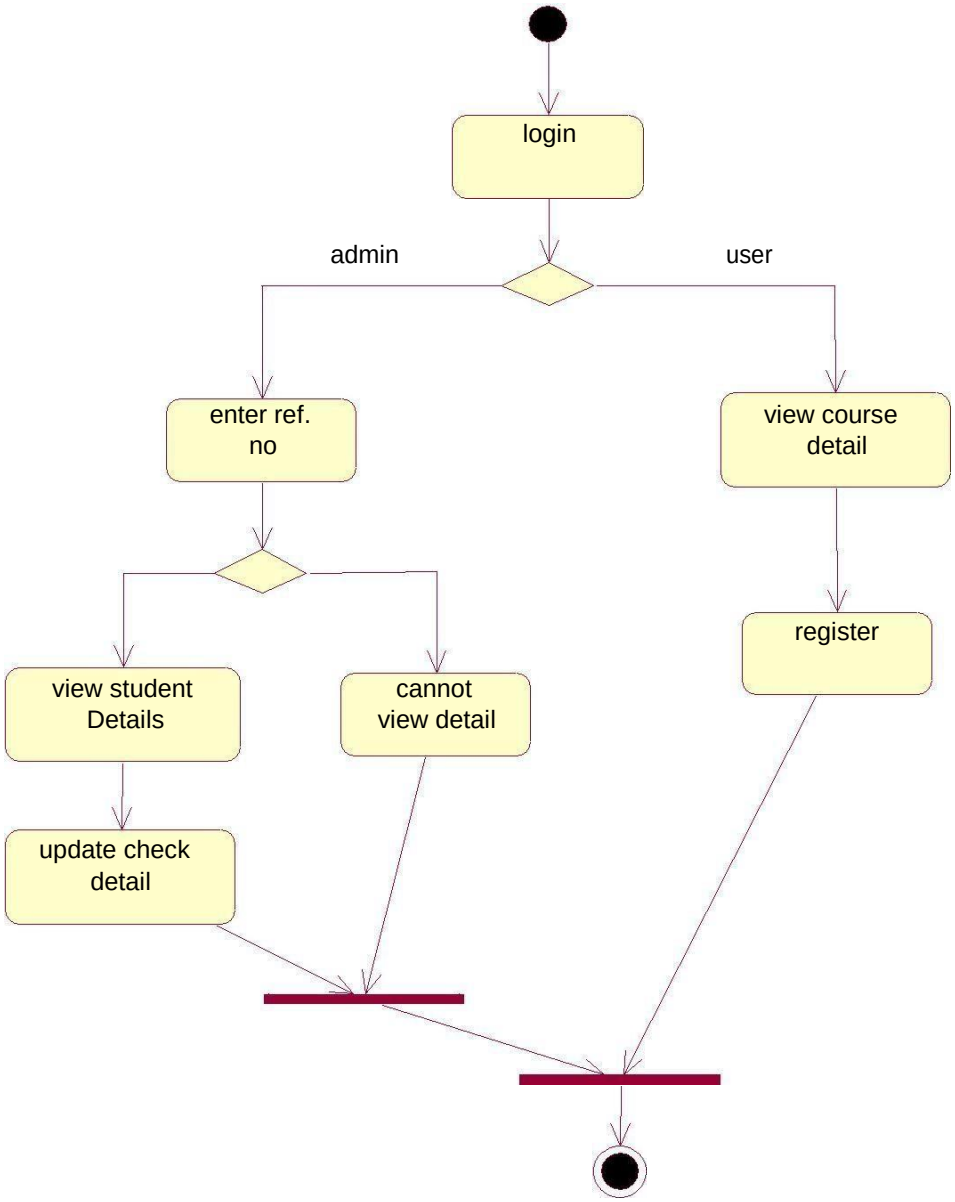
In this collaboration diagram, the objects are represented as rectangle, the actors are stick figures, whereas the sequence diagram illustrates the object and actor interaction overtime, the collaboration diagram shows the object and actor interaction without reference to time.

In our course registration, each object interacts with each other or collaborates with each other; it gets represented by solid line drawn between them.

COLLABRATION DIAGRAM FOR ADMINSTRATOR



ACTIVITY DIAGRAM:

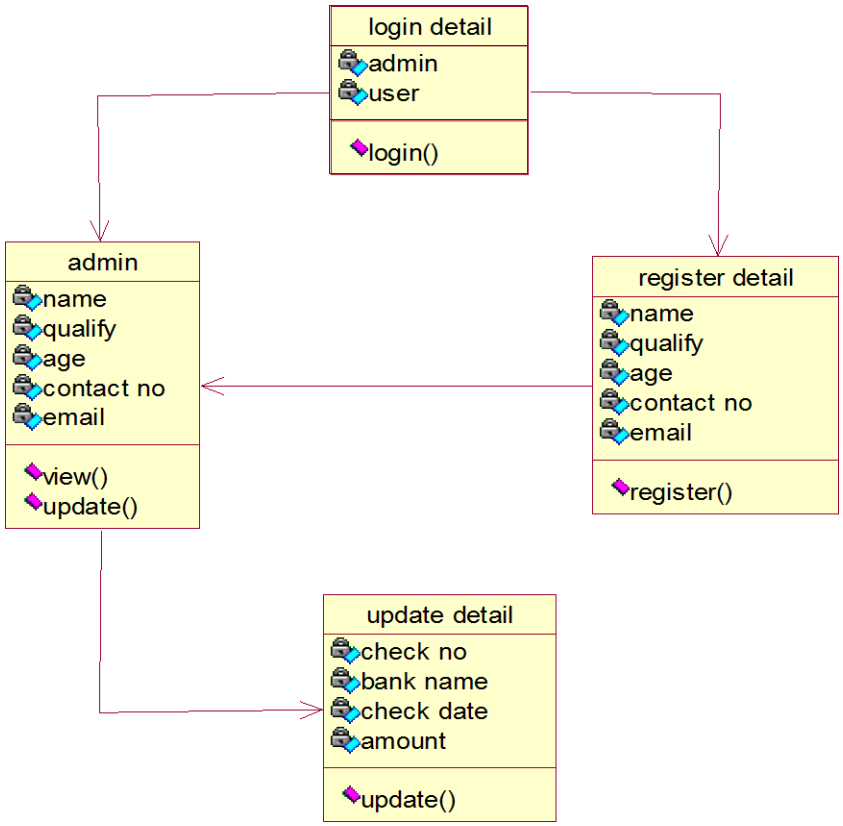


The activity diagram describes the sequence of activities with support for both conditional and parallel behavior.The activity diagram is used to describe the various activities taking place in an application.Here in our COURSE REGISTERATION SYSTEM,we have various activities strating from login.

After login,the user selection activity gets performed,where the user can be a user or admin.

If the user is a student,then they have to enter their password and those details are valid they can access the system.They can register the any course and get the reference number.

CLASS DIAGRAM:



The class diagram involves various classes used in project and their attributes.It also explains various class members details.

The four class in this project are,

1. Login detail
2. Admin detail
3. Register detail
4. Update detail

Each class has its own attributes and operations.

Login class-the attributes defined is user and admin

Admin class-It contains the attributes of the student and own details.

Register class-It contains the attributes of the student

Update class-the attributes of students can be added to the admin class

SOFTWAREDEVELOPMENT

Login Form:

```
Private Sub Command1_Click()
If Text1.Text = "rv" And Text2.Text
= "mk" Then
   coursedetail.Show
Else
MsgBox ("Invalid input")
End If
End Sub
```

Course Detail:

```
Private Sub Command1_Click()
If Option1.Value = True Then
instructions.Show
ElseIf Option2.Value = True Then
  instructions.Show
ElseIf Option3.Value = True Then
  instructions.Show
ElseIf Option4.Value = True Then
  instructions.Show
End If
End Sub
```

Instruction Form:

```
Private Sub Command1_Click()
If Button = Click_here Then
registration.Show
End If
End Sub

Private Sub Command2_Click()
If Button = Back Then
coursedetail.Show
End If
End Sub
```

Registration Form:

```
Private Sub Form_Load()
registerado.Recordset.AddNew
End Sub

Private Sub regbtn_Click()
registerado.Recordset.Fields("Rolln
o") = txtroll.Text
registerado.Recordset.Fields("Name
") = txtname.Text
registerado.Recordset.Fields("Class
") = txtclass.Text
registerado.Recordset.Fields("Addr
ess") = txtadd.Text
registerado.Recordset.Fields("mail"
) = txtmail.Text
registerado.Recordset.Fields("Conta
ct") = txtphone.Text
registerado.Recordset.Update
MsgBox "User Registration
Successful"
report.Show
End Sub
```

Exit Form:

```
Private Sub Command1_Click()
End
End Sub
```

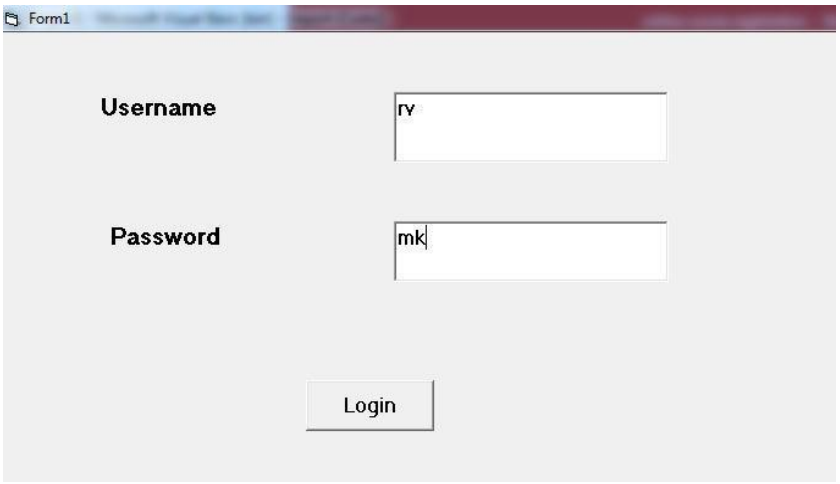
SOFTWARE TESTING:

TEST CASES:

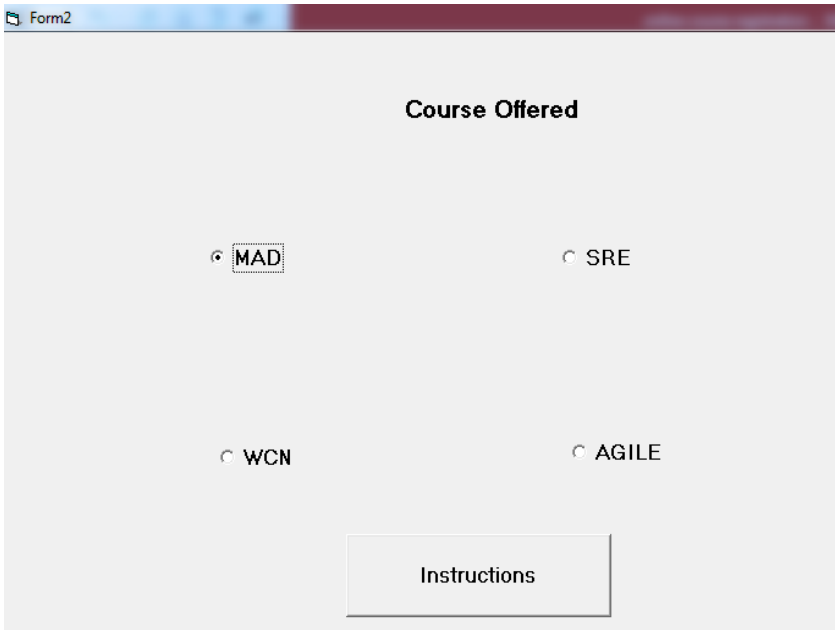
- If an unauthorized user attempts to access the system, the system should not allow them to access.
- If the password entered by the user is incorrect, the system should display the bad password message and allows them to reenter the password or to terminate the process.

OUTPUT :

Form1:



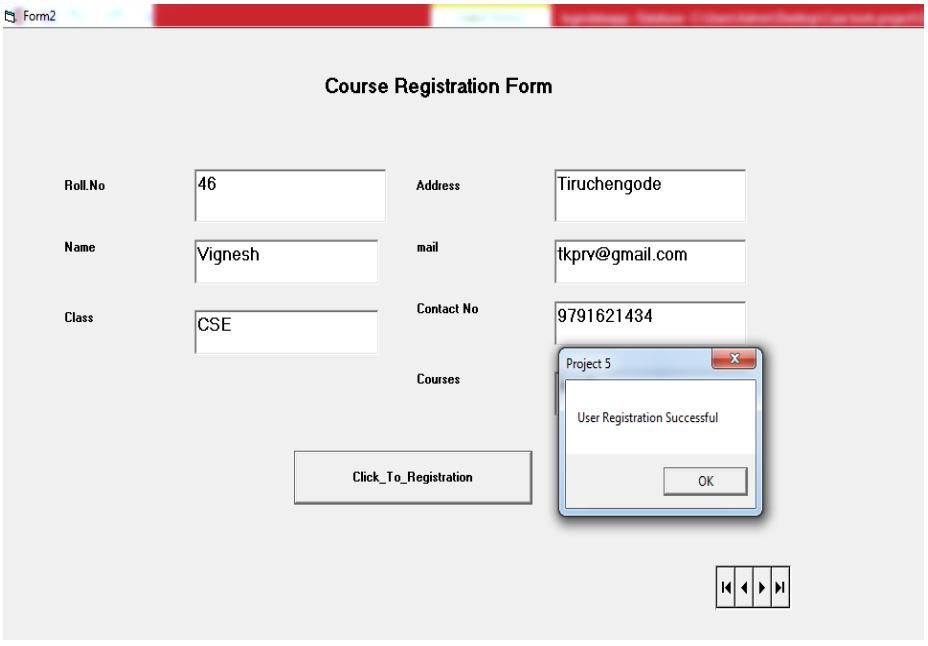
Form2:



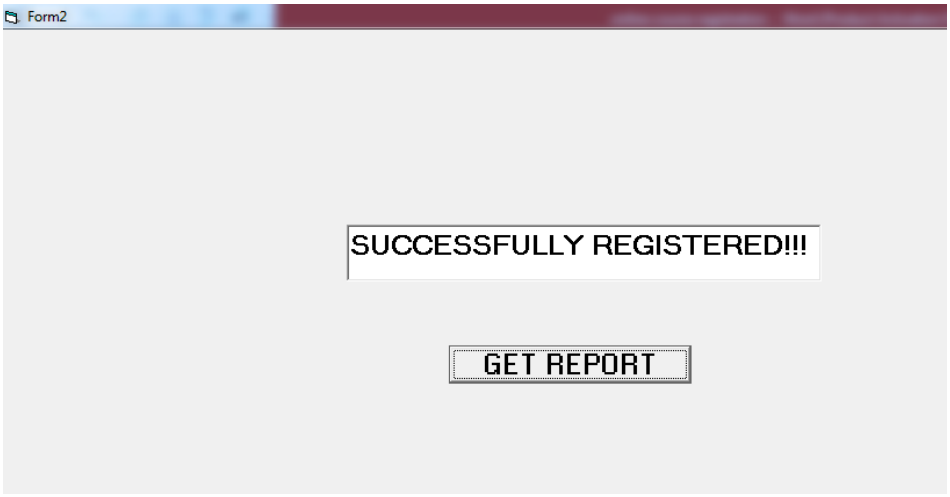
Form3:


Form2
Course Registration Information
Course Duration
3 Months
Class Hours
9:30am - 5:00pm
Course Amount
1200
Click_here
Back

Form4:


Form2
Course Registration Form
Roll.No
46
Name
Vignesh
Class
CSE
Address
Tiruchengode
mail
tkprv@gmail.com
Contact No
9791621434
Courses
Click_To_Registration
Project 5
User Registration Successful
OK

Form5:



Database:

Table1

rollno	name	class	address	mail	contact	Course
42	udhayaa	cse	Kovai	udhayaa@gmail.com	9629076683	MAD
44	venkatesh	cse	erode	venkateshsenthil@gmail.com	8508987999	SRE
46	Vignesh	CSE	Tiruchengode	tkprv@gmail.com	9791621434	MAD
47	vimal	cse	salem	vimal@gmail.com	9150509169	MAD
50	vinitha	cse	Namakkal	vinithakuppusamy@gmail.com	7373363068	AGILE

RESULT:

Thus the **Online Voting** as **Course Registration System** is developed with all documents and UML diagrams using Rational Rose software Engineering methodology.