

Exp No	Experiment Name	
1	Passport automation System	
2	Book Bank	
3	Online Exam Registration	
4	Stock Maintenance System	
5	Online course reservation system	
6	E-ticketing	
7	Software Personnel Management System	
8	Credit Card Processing	
9	E-book management System.	
10	Recruitment system	

CS507PC

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**III YEAR LABS SYLLABUS (R18)**  
**Applicable From 2018-19 Admitted Batch**

**SOFTWARE ENGINEERING LAB**

III Year B.Tech. IT I-Sem

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0	0	3	1.5

**Prerequisites**

1. A course on “Programming for Problem Solving”

**Co-requisite**

1. A Course on “Software Engineering”

**Course Objectives**

1. To have hands on experience in developing a software project by using various software engineering principles and methods in each of the phases of software development.

**Course Outcomes**

1. Ability to translate end-user requirements into system and software requirements
2. Ability to generate a high-level design of the system from the software requirements
3. Will have experience and/or awareness of testing problems and will be able to develop a simple testing report

**List of Experiments**

Do the following 7 exercises for any two projects given in the list of sample projects or any other projects:

- 1) Development of problem statement.
- 2) Preparation of Software Requirement Specification Document, Design Documents and Testing Phase related documents.
- 3) Preparation of Software Configuration Management and Risk Management related documents.
- 4) Study and usage of any Design phase CASE tool
- 5) Performing the Design by using any Design phase CASE tools.
- 6) Develop test cases for unit testing and integration testing
- 7) Develop test cases for various white box and black box testing techniques.

**Sample Projects:**

1. Passport automation System
2. Book Bank
3. Online Exam Registration
4. Stock Maintenance System
5. Online course reservation system
6. E-ticketing
7. Software Personnel Management System
8. Credit Card Processing
9. E-book management System.
10. Recruitment system

**TEXT BOOKS:**

1. Software Engineering, A practitioner’s Approach- Roger S. Pressman, 6th edition, Mc Graw Hill International Edition.
2. Software Engineering- Sommerville, 7th edition, Pearson Education.
3. The unified modeling language user guide Grady Booch, James Rumbaugh, Ivar Jacobson, Pearson

Education.

**COURSE OBJECTIVES:**

- To have hands on experience in developing a software project by using various software engineering principles and methods in each of the phases of software development.

**COURSE OUTCOMES:**

**IT318.CO1:** Ability to translate end-user requirements into system and software requirements

**IT318.CO2:** Ability to generate a high-level design of the system from the software requirements

**IT318.CO3:** Will have experience and/or awareness of testing problems and will be able to develop a simple testing report

**LIST OF EXPERIMENTS**

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## **EXPERIMENT 1**

### **PASSPORT AUTOMATION SYSTEM**

#### **AIM**

To develop the Passport Automation System using rational rose tools/ StarUML

#### **PROBLEM ANALYSIS AND PROJECT PLAN**

To simplify the process of applying passport, software has been created by designing through rational rose tool, using visual basic as a front end and Microsoft access as a back end. Initially the applicant login the passport automation system and submits his details. These details are stored in the database and verification process done by the passport administrator, regional administrator and police the passport is issued to the applicant.

#### **PROBLEM STATEMENT**

1. Passport Automation System is used in the effective dispatch of passport to all of the applicants. This system adopts a comprehensive approach to minimize the manual work and schedule resources, time in a cogent manner.
2. The core of the system is to get the online registration form (with details such as name, address etc.,) filled by the applicant whose testament is verified for its genuineness by the Passport Automation System with respect to the already existing information in the database.
3. This forms the first and foremost step in the processing of passport application. After the first round of verification done by the system, the information is in turn forwarded to the regional administrator's (Ministry of External Affairs) office.
4. The application is then processed manually based on the report given by the system, and any forfeiting identified can make the applicant liable to penalty as per the law.
5. The system forwards the necessary details to the police for its separate verification whose report is then presented to the administrator. After all the necessary criteria have been met, the original information is added to the database and the passport is sent to the applicant.

<b>1.0 INTRODUCTION</b>		
Passport Automation System	is an interface between the Applicant and	the

Authority responsible for the Issue of Passport. It aims at improving the efficiency in the Issue of Passport and reduces the complexities involved in it to the maximum possible extent.

## PURPOSE

If the entire process of 'Issue of Passport' is done in a manual manner then it would take several months for the passport to reach the applicant. Considering the fact that the number of applicants for passport is increasing every year, an Automated System becomes essential to meet the demand. So this system uses several programming and database techniques to elucidate the work involved in this process. As this is a matter of National Security, the system has been carefully verified and validated in order to satisfy it.

## SCOPE

The System provides an online interface to the user where they can fill in their personal details. The authority concerned with the issue of passport can use this system to reduce his workload and process the application in a speedy manner. Provide a communication platform between the applicant and the administrator. Transfer of data between the Passport Issuing Authority and the Local Police for verification of applicant's information.

## DEFINITIONS, ACRONYMS AND THE ABBREVIATIONS

1. Administrator - Refers to the super user who is the Central Authority who has been vested with the privilege to manage the entire system. It can be any higher official in the Regional Passport Office of Ministry of External Affairs.
2. Applicant - One who wishes to obtain the Passport.
3. PAS - Refers to this Passport Automation System.

## TECHNOLOGIES TO BE USED • Microsoft Visual Basic 6.0

## TOOLS TO BE USED • Rational Rose tool or StarUML (for developing UML Patterns)

## OVERVIEW

SRS includes two sections overall description and specific requirements - Overall description will describe major role of the system components and inter- connections. Specific requirements will describe roles & functions of the actors.

## OVERALL DESCRIPTION

## PRODUCT PERSPECTIVE

The PAS acts as an interface between the 'applicant' and the 'administrator'. This system tries to make the interface as simple as possible and at the same time not risking the security of data stored in. This minimizes the time duration in which the user receives the passport.

## SOFTWARE INTERFACE

1. **Front End Client** - The applicant and Administrator online interface is built using Microsoft Visual Basic 6.0.
2. **Back End** – MS Access database

## HARDWARE INTERFACE

The server is directly connected to the client systems. The client systems have access to the database in the server.

## SYSTEM FUNCTIONS

3. Secure Registration of information by the Applicants.
4. Message box for Passport Application Status Display by the Administrator.
5. Administrator can generate reports from the information and is the only authorized personnel to add the eligible application information to the database.

## USER CHARACTERISTICS

1. Applicant - They are the people who desires to obtain the passport and submit the information to the database.
2. Administrator - He has the certain privileges to add the passport status and to approve the issue of passport. He may contain a group of persons under him to verify the documents and give suggestion whether or not to approve the dispatch of passport.
3. Police - He is the person who upon receiving intimation from the PAS, perform a personal verification of the applicant and see if he has any criminal case against him before or at present. He has been vetoed with the power to decline an application by suggesting it to the Administrator if he finds any discrepancy with the applicant. He communicates via this PAS.

## CONSTRAINTS

1. The applicants require a computer to submit their information.
2. Although the security is given high importance, there is always a chance of intrusion in the web world which requires constant monitoring.
3. The user has to be careful while submitting the information. Much care is required.

## ASSUMPTIONS AND DEPENDENCIES

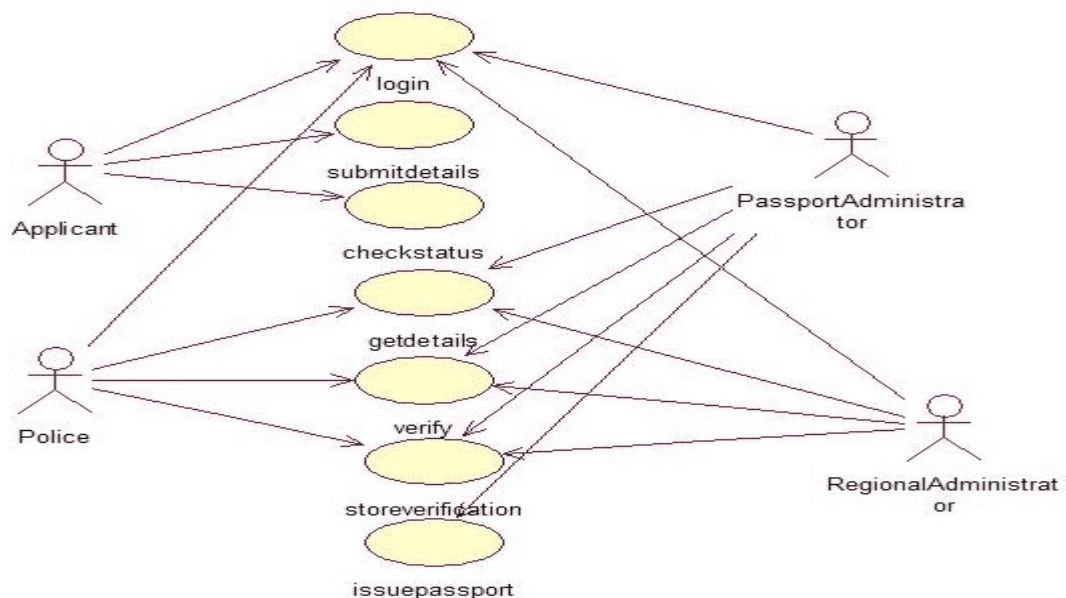
1. The Applicants and Administrator must have basic knowledge of computers and English Language.
2. The applicants may be required to scan the documents and send.

## UML DIAGRAMS

Sno

UML DIAGRAMS

- |    |                       |
|----|-----------------------|
| 1  | Use Case diagram      |
| 2  | Class diagram         |
| 3  | Interaction diagram   |
| 4  | Sequence diagram      |
| 5  | Collaboration diagram |
| 6  | State Chart diagram   |
| 7  | Activity diagram      |
| 8  | Component diagram     |
| 9  | Deployment diagram    |
| 10 | Package diagram       |



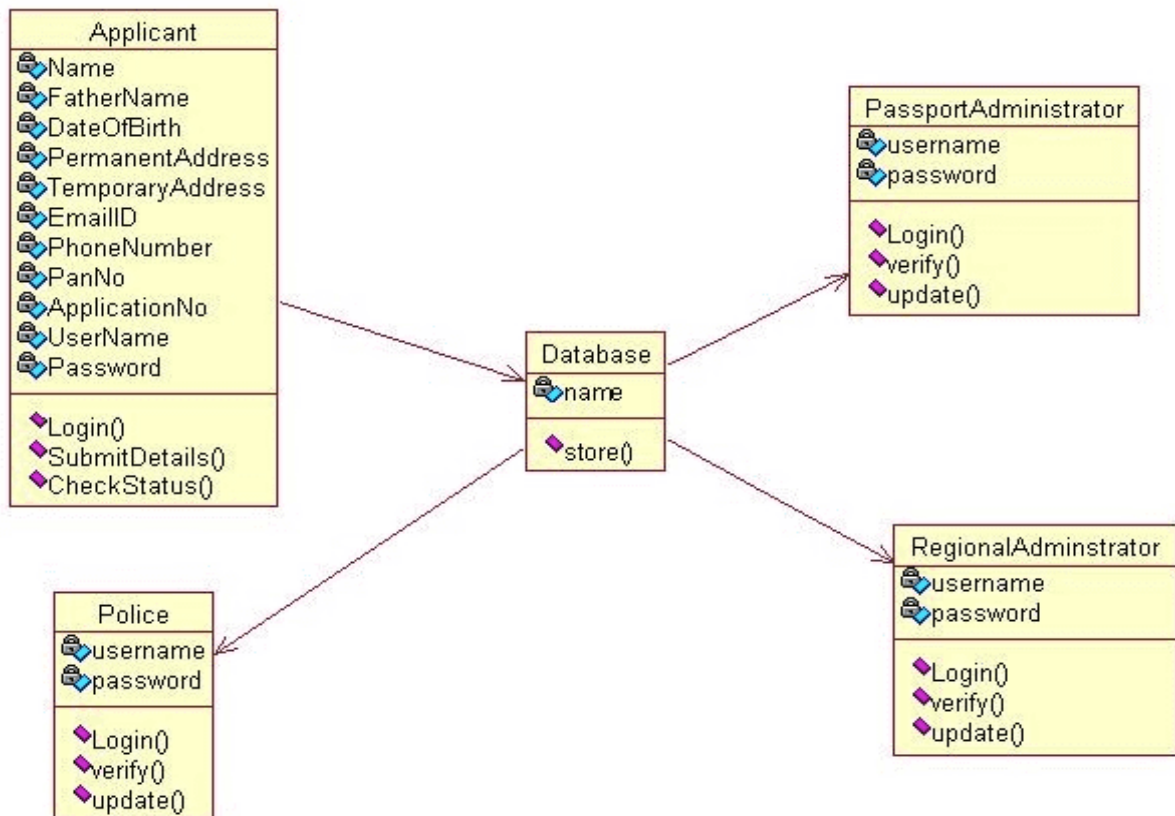


## DOCUMENTATION OF USECASE DIAGRAM

- a. The actors in use case diagram are Applicant, regional administrator, database, passport Administrator, Police.
  - b. The use cases are Login, give details, logout, collect details, verification, issue.
  - c. The actors use the use case are denoted by the arrow
  - d. The login use case checks the username and password for applicant, regional administrator, passport administrator and police.
  - e. The submit details use case is used by the applicant for submitting his details
  - f. The check status use case is used by the applicant for checking the status of the application process.
  - g. The get details, verify and store verification use case is used by passport administrator, regional administrator, and police.
  - h. The details use case is used for getting the details form the database for verification
2. The verify use case is used for verifying the details by comparing the data in the database.
    - a. The store verification use case is to update the data in the database
    - b. And finally the issue passport use case is used by the passport administrator for issuing passport who's application verified successfully by all the actor .

## CLASSDIAGRAM

A class is drawn as rectangle box with three compartments or components separated by horizontal lines. The top compartment holds the class name and middle compartment holds the attribute and bottom compartment holds list of operations.



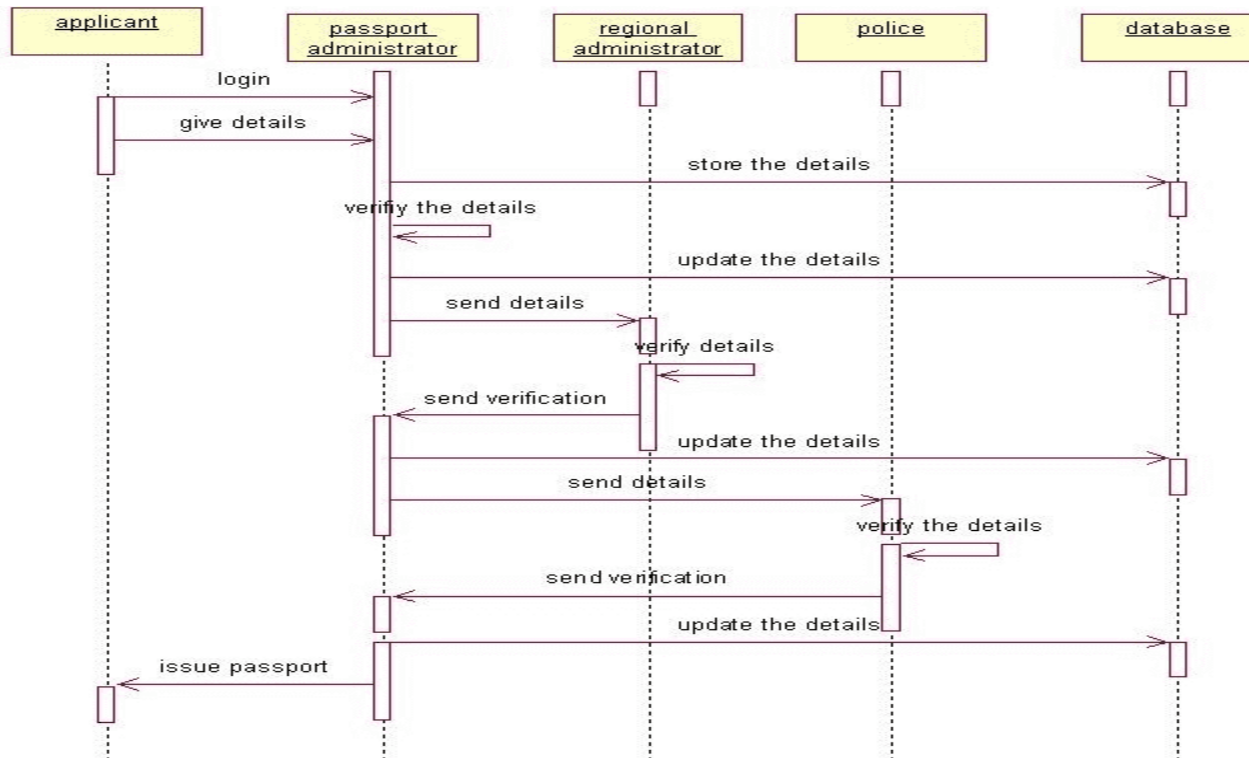
## DOCUMENTATION OF CLASS DIAGRAM

- APPLICANT**-The applicant has attribute such as name and password and operations are login, give details and logout. The applicant login and fill the details that are required for applying the passport .After applying the person can view the status of the passport verification process
- THE DATABASE**-The database has attributed such as name and operation is store. The purpose is to store the data.
- REGIONAL ADMINISTRATOR**- The regional administrator has attribute such as name and operation are get details, verify details and send. The regional administrator get the details form database and verify with their database
- PASSPORT ADMINISTRATOR**-The passport administrator has attributed such as name and operation are get details, verify details and issue. The passport administrator get the details form database and verify with their database , update the verification and issue the passport
- THE POLICE**-The police has attribute such as name and operation are get details, verify details and send. The police get the details form database and verify with their database , update the verification in the database

## SEQUENCE DIAGRAM

A sequence diagram shows an interaction arranged in time sequence,

It shows object participating in interaction by their lifeline by the message they exchange arranged in time sequence. Vertical dimension represent time and horizontal dimension represent object.



## DOCUMENTATION OF SEQUENCE DIAGRAM.

- The applicant login the database and give his details and database store the details.
- The passport administrator get the details from the database and do verification and the forward to regional administrator.
- The regional administrator get details form passport administrator and perform verification and send report to passport administrator.
- The police get the details form passport administrator and perform verification and send report to passport administrator

## COLLABORATION DIAGRAM

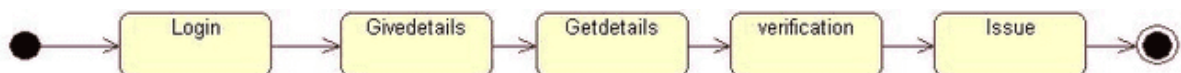
A collaboration diagram is similar to sequence diagram but the message in number format. In a collaboration diagram sequence diagram is indicated by the numbering the message. A collaboration diagram, also called a communication diagram or interaction diagram, A sophisticated modeling tool can easily convert a collaboration diagram into a sequence diagram and the vice versa. A collaboration diagram resembles a flowchart that portrays the roles, functionality and behavior of individual objects as well as the overall operation of the system in real time

## DOCUMENTATION OF COLLABORATION DIAGRAM

- The applicant, passport administrator, regional administrator, police and database functions are show in sequence number
- The applicant first login the passport automation system and submit his details the passport administrator, regional administrator and police verification are denoted.

## STATE CHART DIAGRAM

The state chart diagram contains the states in the rectangle boxes and starts in indicated by the dot and finish is indicated by dot encircled. The purpose of state chart diagram is to understand the algorithm in the performing method.



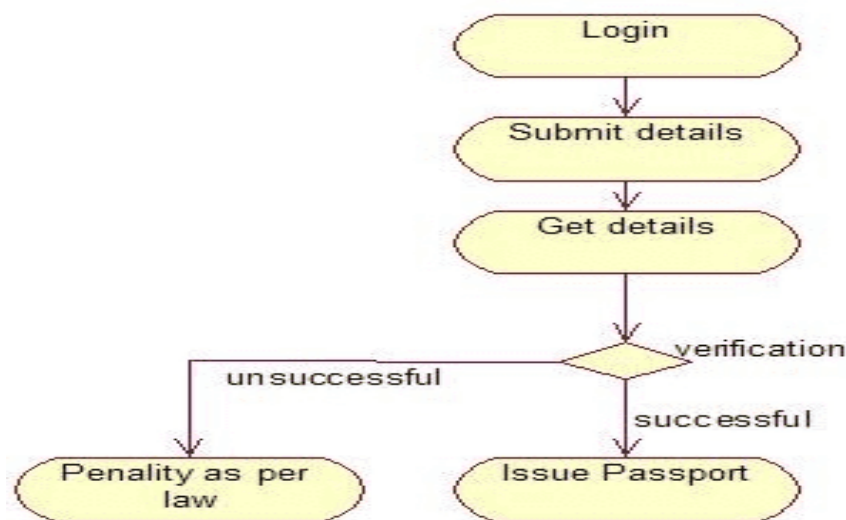
## DOCUMENTATION OF STATE CHART DIAGRAM

- a. The states of the passport automation system are denoted in the state chart diagram
- b. Login state represent authentication for login the passport automation system.
- c. In this state, it checks whether the applicant has provided all the

- d. Police, regional administrator and passport administrator get necessary details and verification of the applicant are denoted from the Get detail state and verification state

## ACTIVITY DIAGRAM

An activity diagram is a variation or special case of a state machine in which the states or activity representing the performance of operation and transitions are triggered by the completion of operation. The purpose is to provide view of close and what is going on inside a use case or among several classes. An activity is shown as rounded box containing the name of operation.



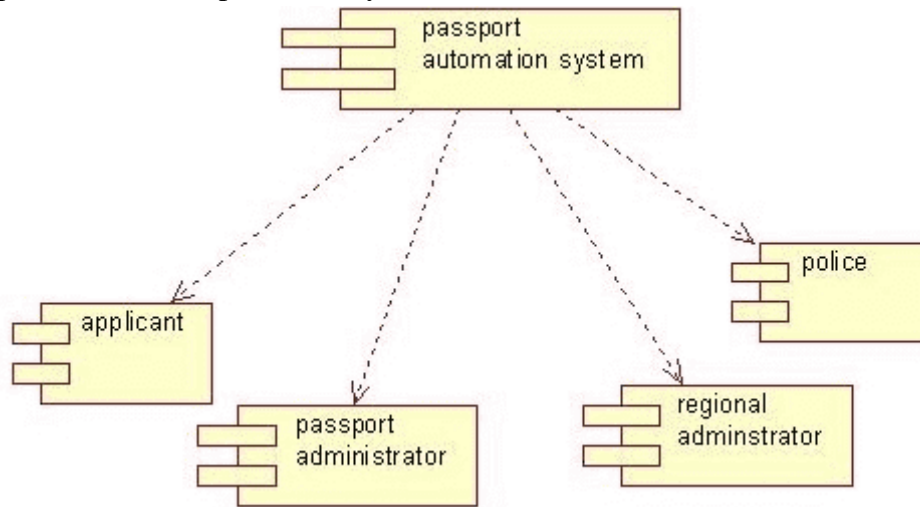
## DOCUMENTATION OF ACTIVITY DIAGRAM

- a. The activities in the passport automation system are login, submit details, get details, issue passport and penalty and verification.
- b. In the login activity applicant give username and password and then login into the passport automation system after then fill the details that are required for application.
- c. After the verification procedure completed successfully the passport is issued to the applicant.

## COMPONENT DIAGRAM

The component diagram is represented by figure dependency and it is a graph of design of

figure dependency. The component diagram's main purpose is to show the structural relationships between the components of systems. It is represented by boxed figure. Dependencies are represented by communication association.



## DOCUMENTATION OF COMPONENT DIAGRAM

- a. The components in the passport automation system are passport automation system, applicant, passport administrator, regional administrator, and police.
- b. Applicant ,passport administrator, regional administrator and police are dependent on passport automation system are shown by the dotted arrow

## DEPLOYMENT DIAGRAM

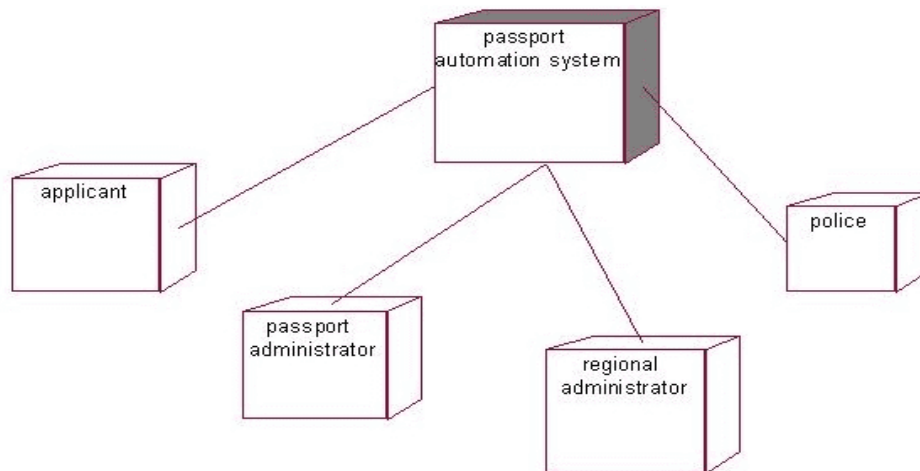
It is a graph of nodes connected by communication association. It is represented by a three dimensional box. A deployment diagram in the unified modeling language serves to model the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3-dimentional box. Dependencies are represented by communication association. The basic element of a deployment diagram is a node of two types

### DEVICE NODE–

A physical computing resource with processing and memory service to execute software, such as a typical computer or a mobile phone.

### EXECUTION ENVIRONMENT NODE

This is a software computing resource that runs within an outer node and which itself provides a service to host an execute other executable software element.



## DOCUMENTATION OF DEPLOYMENT DIAGRAM

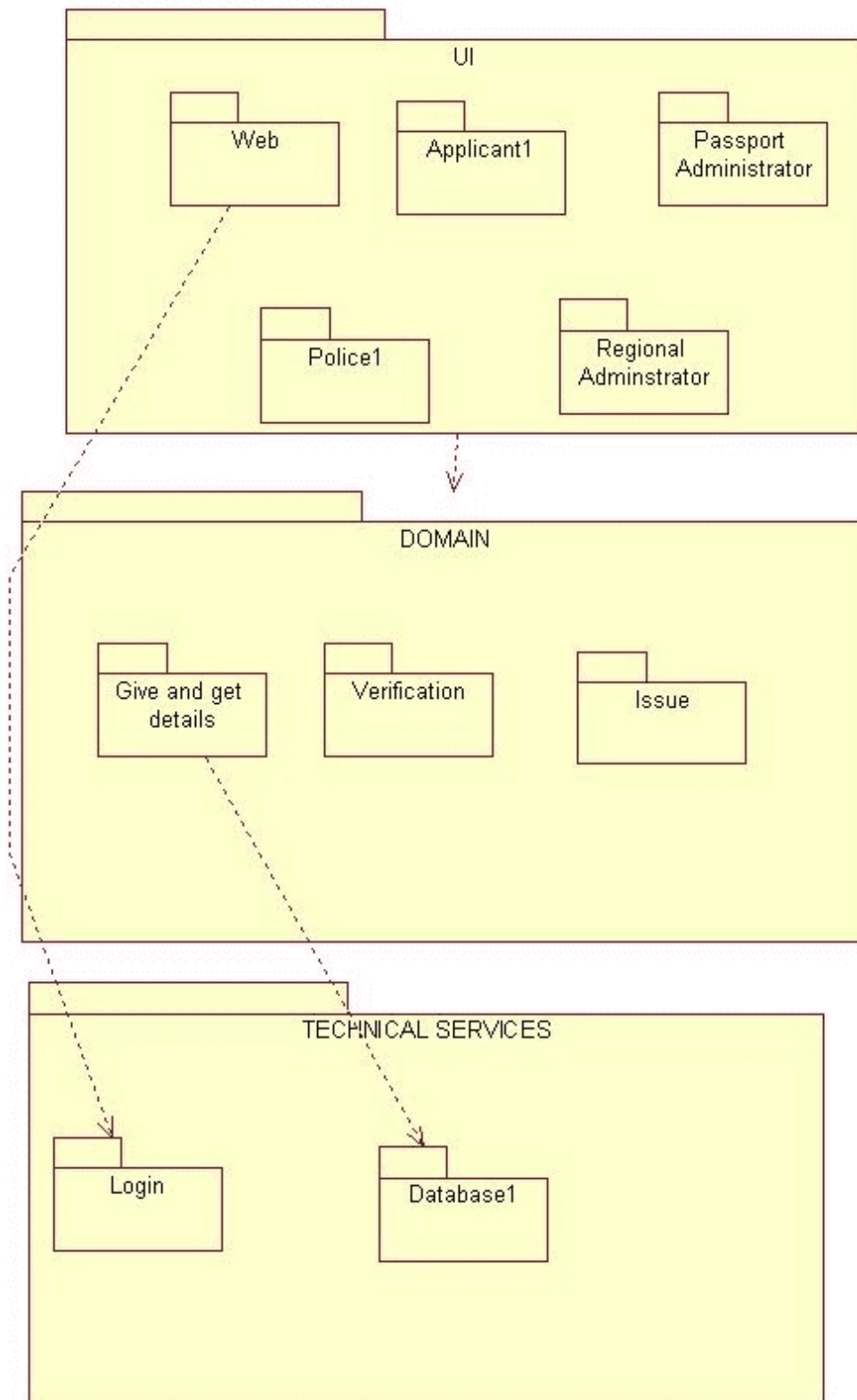
The device node is passport automation system and execution environment node are applicant passport administrator, regional administrator, and police.

## PACKAGE DIAGRAM

A package diagram is represented as a folder shown as a large rectangle with a top attached to its upper left corner. A package may contain both sub ordinate package and ordinary model elements. All uml models and diagrams are organized into package. A package diagram in unified modeling language that depicts the dependencies between the packages that make up a model. A Package Diagram (PD) shows a grouping of elements in the OO model, and is a Cradle extension to UML. PDs can be used to show groups of classes in Class Diagrams (CDs), groups of components or processes in Component Diagrams (CPDs), or groups of processors in Deployment Diagrams (DPDs).

There are three types of layer. They are

- User interface layer
- Domain layer
- Technical services layer





## DOCUMENTATION OF PACKAGE DIAGRAM

The three layer in the passport automation system are user interface layer, domain layer, technical service layer

- a. **The user interface layer-** represents the user interface components such as web, applicant, passport administrator, police, and regional administrator.
- b. **The domain layer-** has major actions such as give and get details, verification and issues.
- c. **Technical service layer-** authenticated user only can access the technical services.

**FOR  
MS:  
FOR  
M1:**

Form1

WELCOME TO ONLINE PASSPORT  
AUTOMATION SYSTEM

USERNAME

PASSWORD

APPLICANT	PASSPORT ADMINISTRATOR	REGIONAL ADMINISTRATOR	POLICE	STATUS
-----------	---------------------------	---------------------------	--------	--------

start Project1 - Microsoft V... Form1 3:31 PM

**FORM2:**

**GIVE YOUR DETAILS**

NAME	<input type="text" value="palani"/>	
FATHERNAME	<input type="text" value="parthasarathi"/>	
DATE OF BIRTH	<input type="text" value="27/2/1990"/>	<input type="button" value="SUBMIT"/>
PERMANENT ADDRESS	<input type="text" value="neelangarai"/>	<input type="button" value="CANCEL"/>
TEMPORARY ADDRESS	<input type="text" value="neelangarai"/>	
PHONE NO	<input type="text" value="9445310441"/>	
EMAILID	<input type="text" value="palani@gmail.c"/>	<input type="button" value="Data1"/>
PAN	<input type="text" value="1000"/>	

**FORM3:**

Form3

# PASSPORT ADMINISTRATOR

APPLICATION NO: 1

PAN: 1000 NAME: palani

NAME: palani FATHER NAME: sarathi

FATHER NAME: sarathi

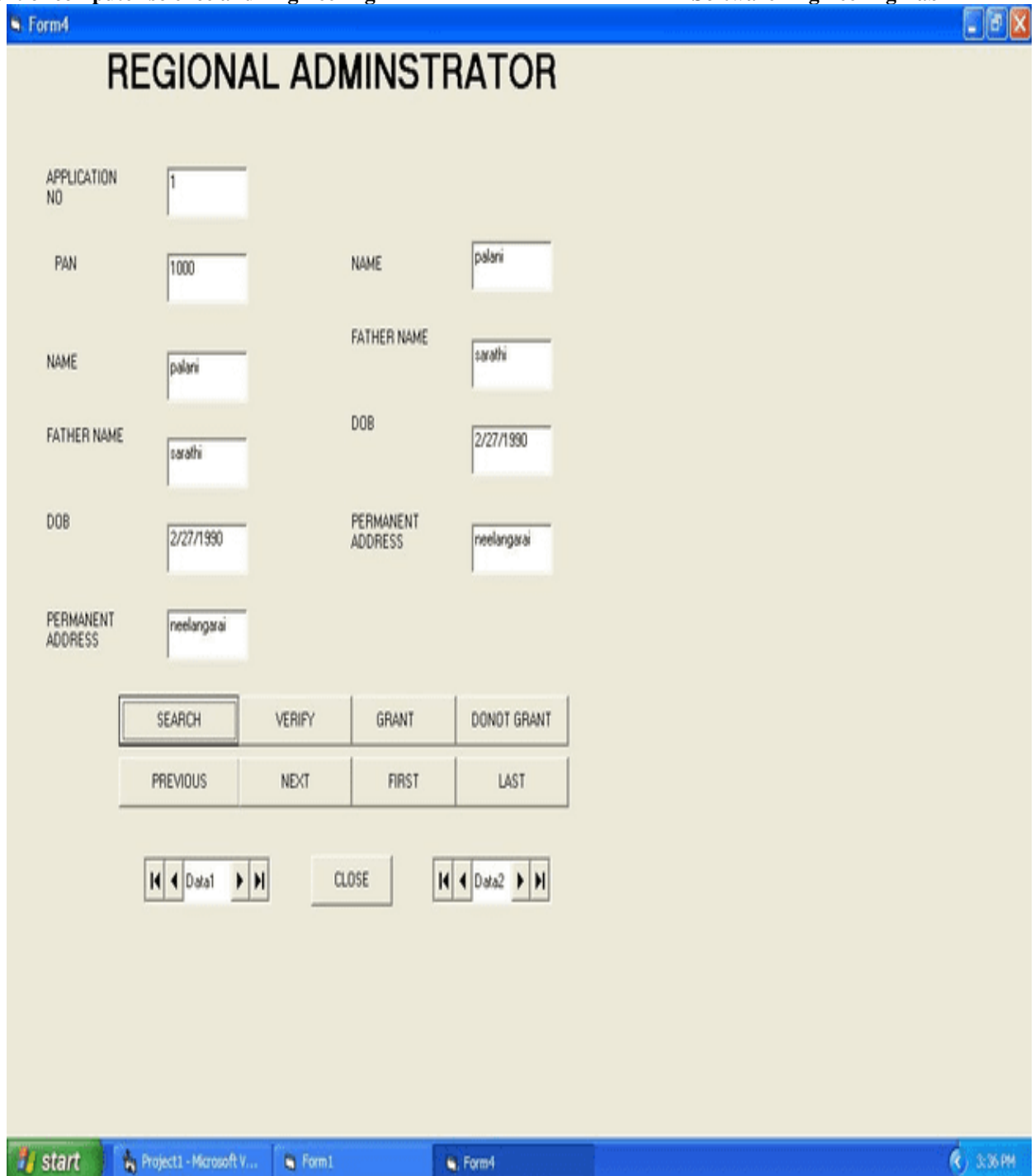
DOB: 2/27/1990

PERMANENT ADDRESS: neelagarai

Navigation: Data1, Data2, SEARCH, VERIFY, GRANT, DONOT GRANT, PREVIOUS, NEXT, FIRST, LAST, CLOSE

Windows Taskbar: start, Project1 - Microsoft V..., Form1, Form3, 3:35 PM

**FORM4:**



**Form4**

## REGIONAL ADMINISTRATOR

APPLICATION NO: 1

PAN: 1000 NAME: palani

NAME: palani FATHER NAME: sarathi

FATHER NAME: sarathi DOB: 2/27/1990

DOB: 2/27/1990 PERMANENT ADDRESS: neelagarai

PERMANENT ADDRESS: neelagarai

SEARCH VERIFY GRANT DONOT GRANT

PREVIOUS NEXT FIRST LAST

« Data1 » « Data2 »

CLOSE

start Project1 - Microsoft V... Form1 Form4 3:36 PM

**FORM5:**

Form5

# POLICE

PAN  APPLICATION NO

NAME

PanNo	Name	FatherName	DateOfBirth	PermanentA	FIR
1000	palani	parthasarath	2/27/1990	neelangarai	Allowed
1001	natraj	murali	11/2/1990	mambalam	Allowed
1002	pandi	raja	4/3/1990	madurai	Allowed
1003	prem	murugan	8/9/1991	ennore	Allowed
1004	karthi	rajendran	3/28/1990	madipakam	Allowed
1005	anand	sathish	8/6/1990	kovai	Notallowed

SEARCH GRANT DONT GRANT

PREVIOUS NEXT FIRST LAST

CLOSE

Navigation icons: << < > >> << < > >>

start Project1 - Microsoft V... Form1 Form5 3:45 PM

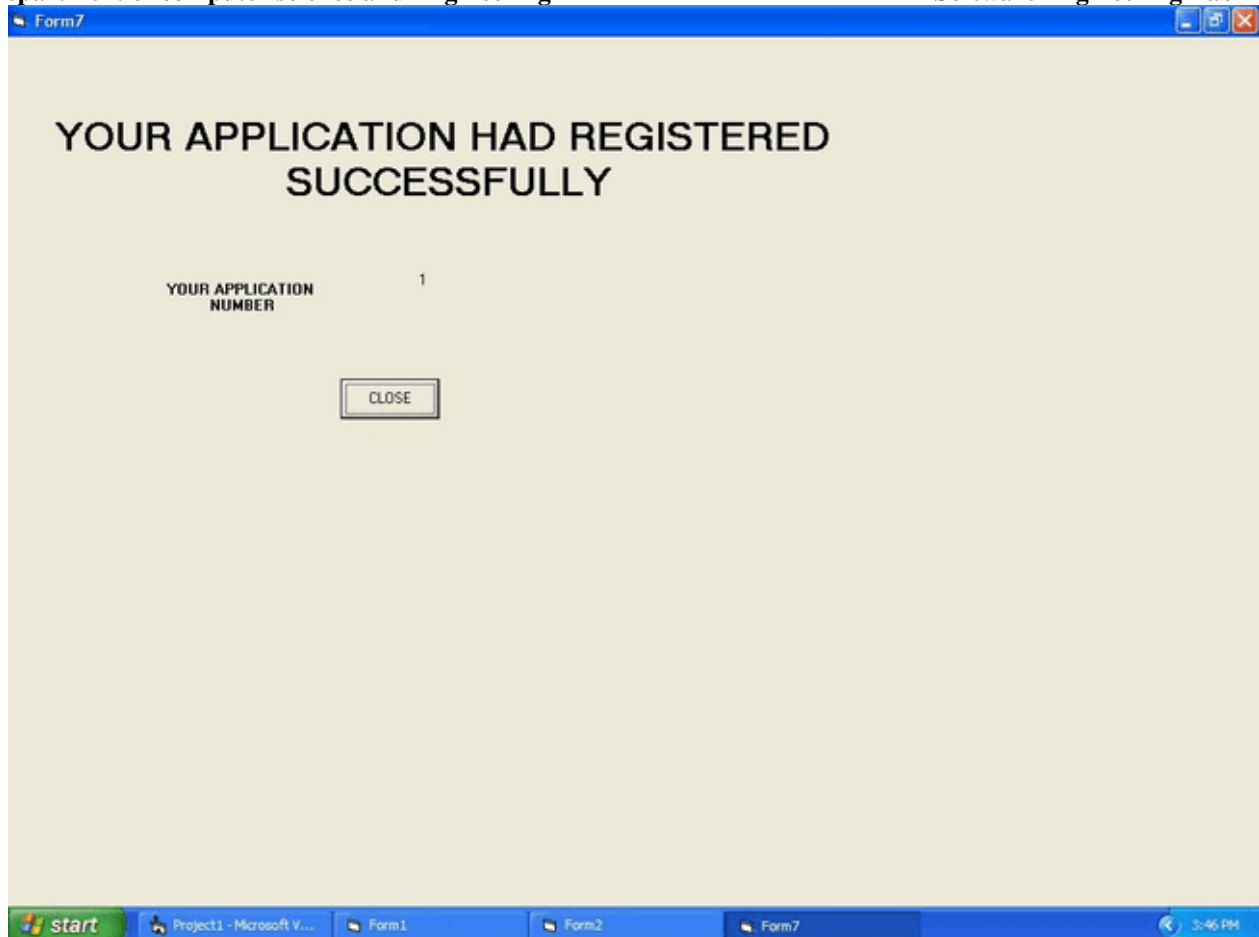
**FORM6:**

**STATUS OF THE PASSPORT**

APPLICATION NO	1	SUBMIT
NAME	palani	
PASSPORT ADMINISTRATOR	successful	
REGIONAL ADMINISTRATOR	successful	
POICE	successful	

Navigation: << Data1 >>> EXIT

**FORM7:**



## RESULT:

Thus the project to develop passport automation system was developed using Rational Rose Software and to implement the software in Visual Basic is done successfully.

**Experiment: 1b****PASSPORT AUTOMATION  
SYSTEM****AIM**

To develop the Passport Automation System using rational rose tools/StarUML

**PROBLEM ANALYSIS AND PROJECT PLAN**

To simplify the process of applying passport, software has been created by designing through rational rose tool, using visual basic as a front end and Microsoft access as a back end. Initially the applicant login the passport automation system and submits his details. These details are stored in the database and verification process done by the passport administrator, regional administrator and police the passport is issued to the applicant.

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## INTRODUCTION

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## SOFTWARE INTERFACE

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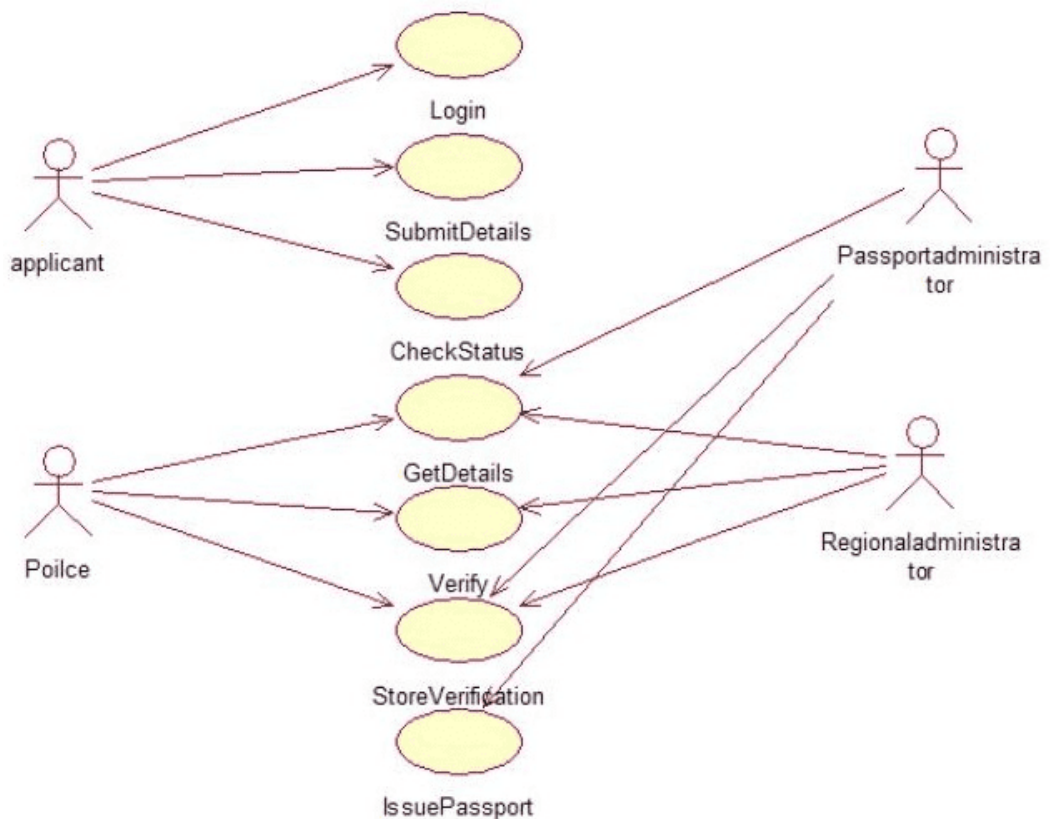
- The applicants may be required to scan the documents and send.

## UML DIAGRAMS

Sno	UML DIAGRAMS
1	Use Case diagram
2	Class diagram
3	Interaction diagram
4	Sequence diagram
5	Collaboration diagram
6	State Chart diagram
7	Activity diagram
8	Component diagram
9	Deployment diagram
10	Package diagram

## USE CASE DIAGRAM

Use case is shown as an ellipse containing the name of use case .An actor is shown as a stick figure with the name below it. Use case diagram is a graph of actors.

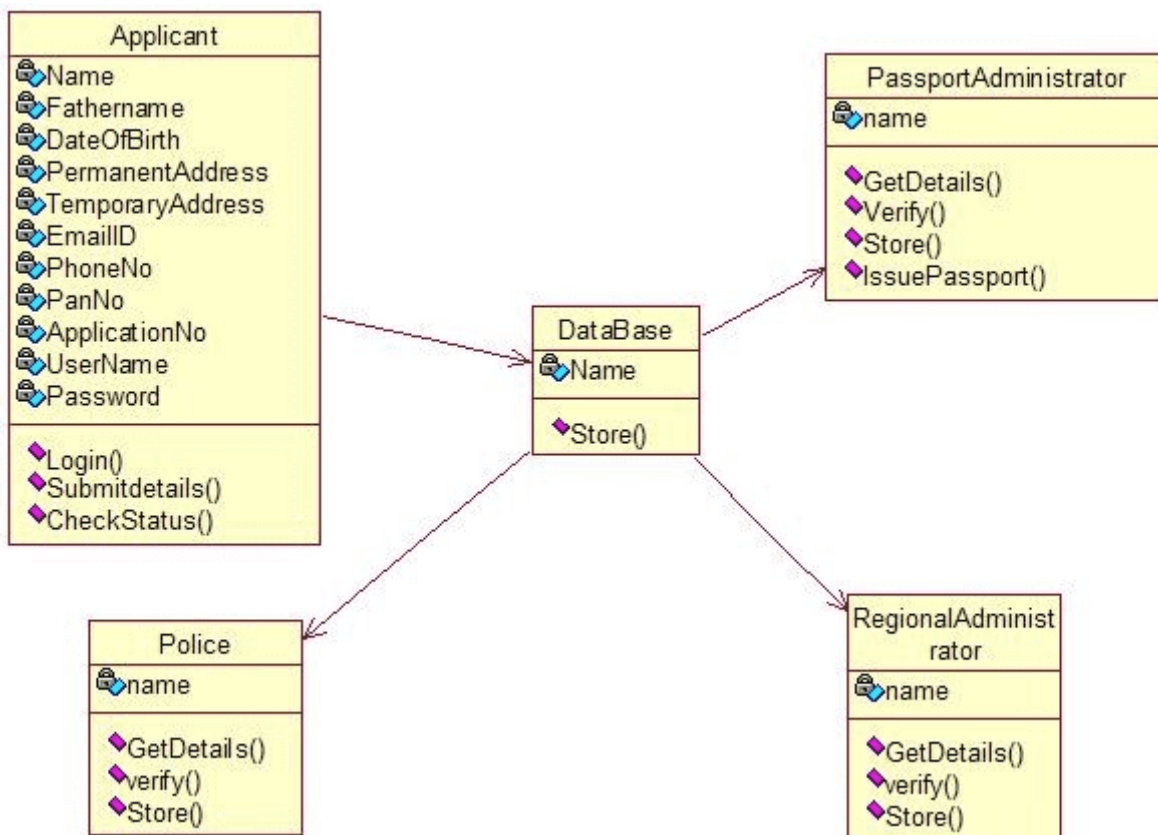


## DOCUMENTATION OF USECASE DIAGRAM

- The actors in use case diagram are Applicant, regional administrator, database, passport Administrator, Police.
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## CLASSDIAGRAM

A class is drawn as rectangle box with three compartments or components separated by horizontal lines. The top compartment holds the class name and middle compartment holds the attribute and bottom compartment holds list of operations.



## DOCUMENTATION OF CLASS DIAGRAM

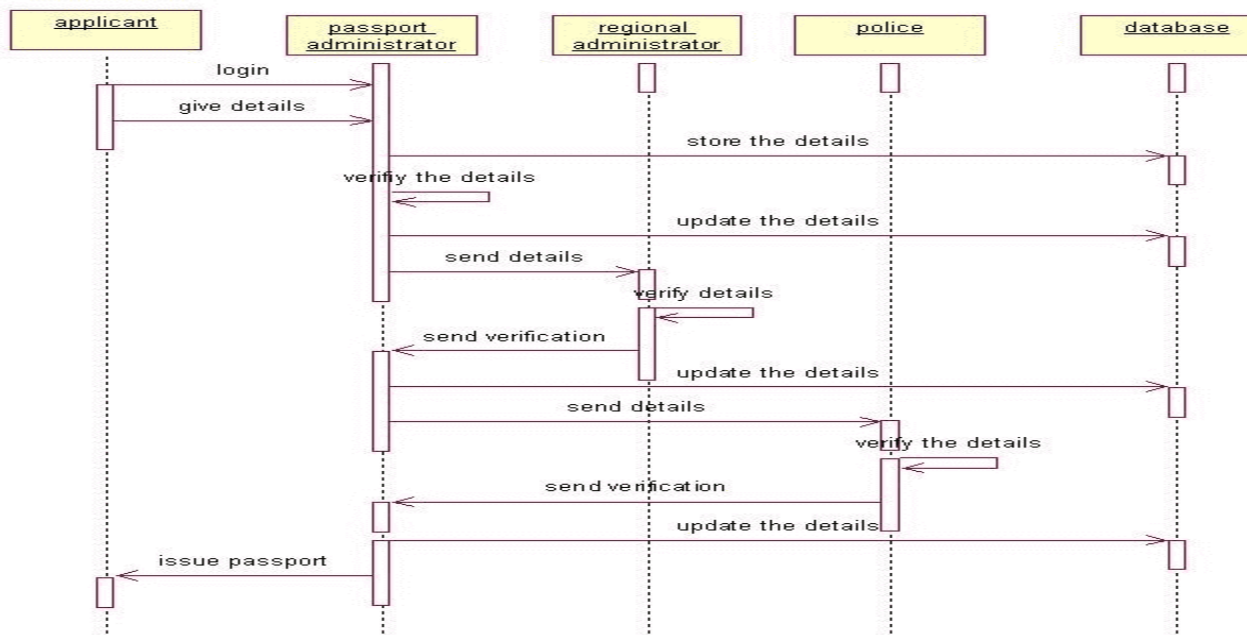
- The classes are Applicant, database, regional administrator, passport administrator, and police.
- The applicant has attribute such as name and password and operations are login, givedetails and logout.

- The database has attribute such as name and operation is store.
- The regional administrator has attribute such as name and operation are get details, verify details and send.
- The passport administrator has attribute such as name and operation are get details, verify details and issue.
- The police has attribute such as name and operation are get details, verify details and send.

## SEQUENCE DIAGRAM

A sequence diagram shows an interaction arranged in time sequence,

It shows object participating in interaction by their lifeline by the message they exchange arranged in time sequence. Vertical dimension represent time and horizontal dimension represent object.



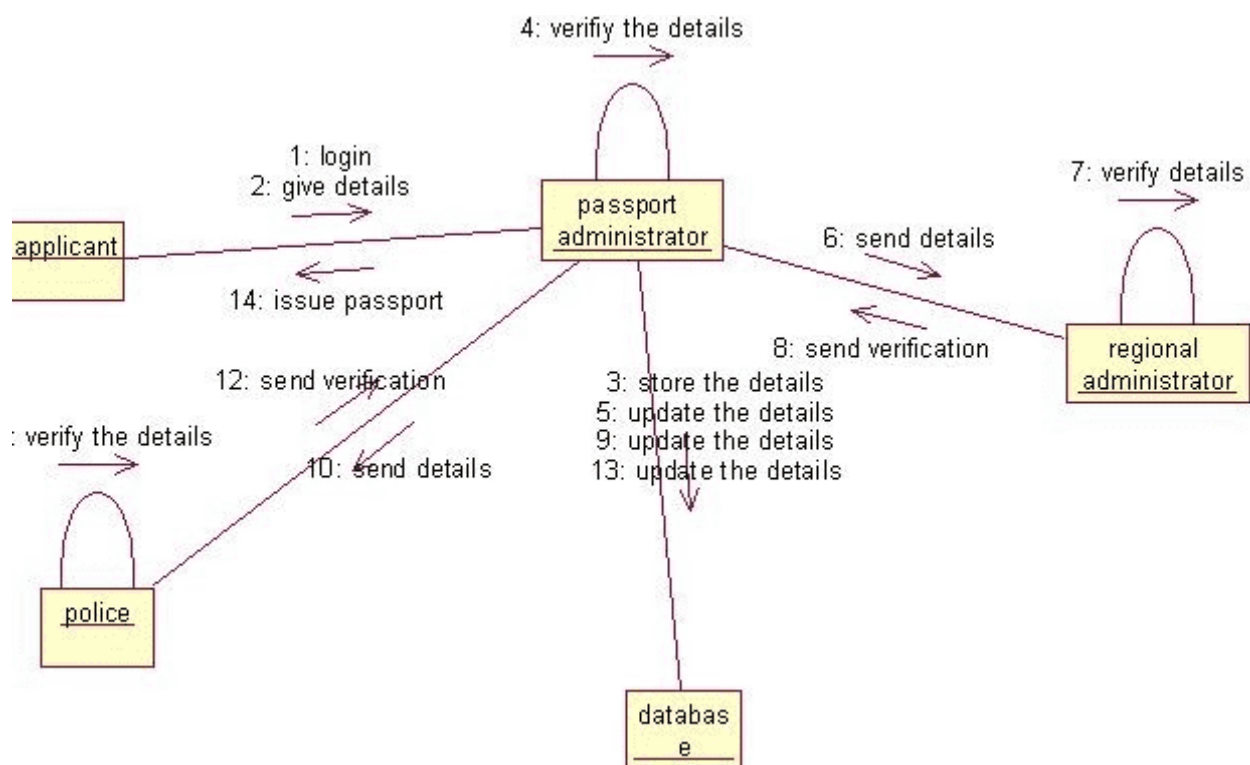
## DOCUMENTATION OF SEQUENCE DIAGRAM.

- The applicant login the database and give his details and database store the details.
- The passport administrator get the details from the database and do verification and the forward to regional administrator.

- The regional administrator get details form passport administrator and perform verification and send report to passport administrator.
- The police get the details form passport administrator and perform verification and send report to passport administrator.

## COLLABORATION DIAGRAM

A collaboration diagram is similar to sequence diagram but the message in number format. In a collaboration diagram sequence diagram is indicated by the numbering the message



## DOCUMENTATION OF COLLABORATION DIAGRAM

- The applicant, passport administrator, regional administrator, police and database functions are shown in sequence number
- The applicant first login the passport automation system and submit his details the passport administrator, regional administrator and police verification are denoted.

## STATE CHART DIAGRAM

The state chart diagram contains the states in the rectangle boxes and starts in indicated by the dot and finish is indicated by dot encircled. The purpose of state chart diagram is to



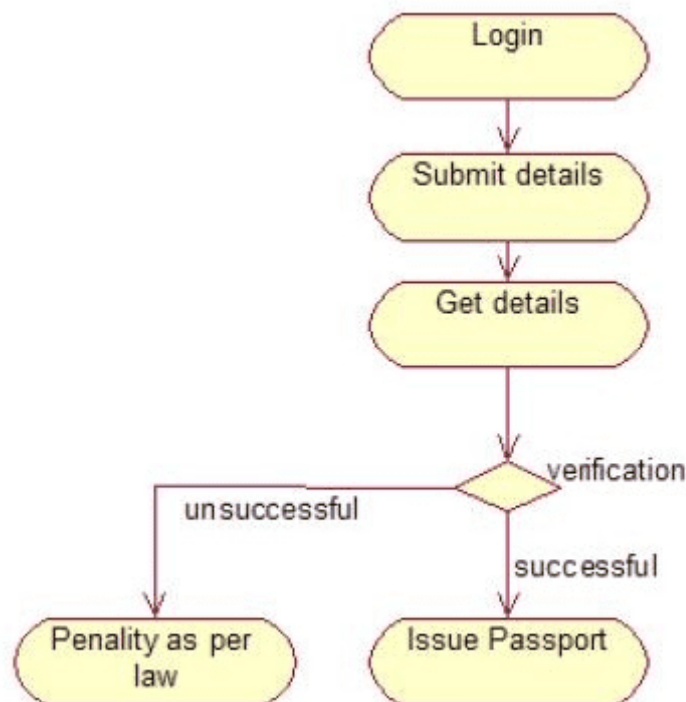
## DOCUMENTATION OF STATE CHART DIAGRAM

- The states of the passport automation system are denoted in the state chart diagram
- Login state represent authentication for login the passport automation system.
- In this state, it checks whether the applicant has provided all the details that is required.
- Police, regional administrator and passport administrator get necessary details and verification of the applicant are denoted from the Get detail state and verification state

## ACTIVITY DIAGRAM

An activity diagram is a variation or special case of a state machine in which the states or activity representing the performance of operation and transitions are triggered by the completion of operation.

The purpose is to provide view of close and what is going on inside a use case or among several classes. An activity is shown as rounded box containing the name of operation.



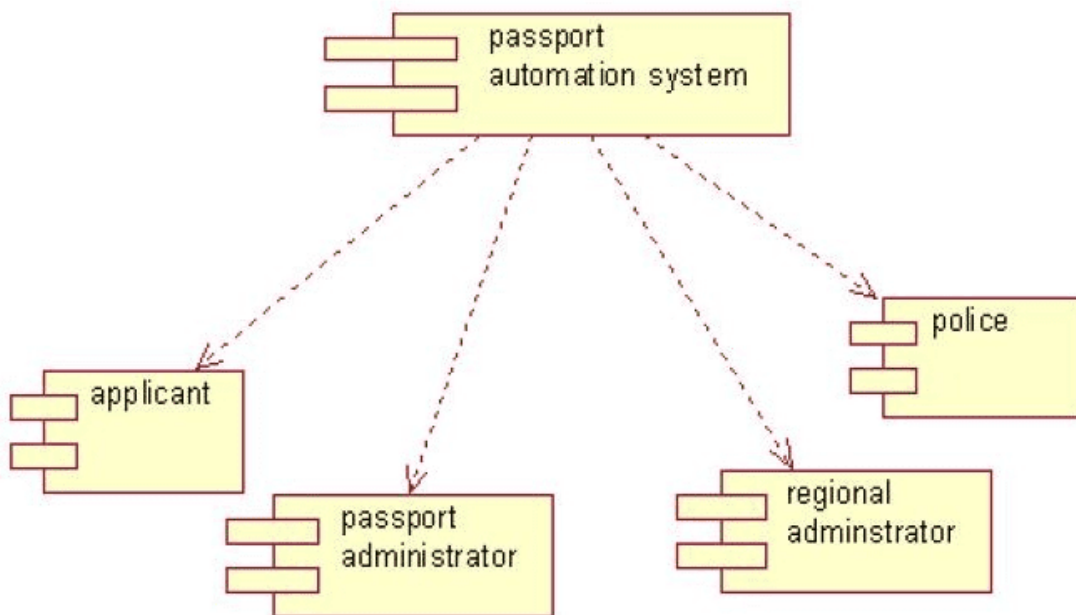
## DOCUMENTATION OF ACTIVITY DIAGRAM

- The activities in the passport automation system are login, submit details, get details, issue passport and penalty and verification.

- b. In the login activity applicant give username and password and then login into the passport automation system after then fill the details that are required for application.
- c. After the verification procedure completed successfully the passport is issued to the applicant.

## COMPONENT DIAGRAM

The component diagram is represented by figure dependency and it is a graph of design of figure dependency.



## DOCUMENTATION OF COMPONENT DIAGRAM

- a. The components in the passport automation system are passport automation system, applicant, passport administrator, regional administrator, and police.
- b. Applicant, passport administrator, regional administrator and police are dependent on passport automation system as shown by the dotted arrow.

## DEPLOYMENT DIAGRAM

It is a graph of nodes connected by communication association. It is represented by a three-dimensional box. The basic element of a deployment diagram is a node of two types

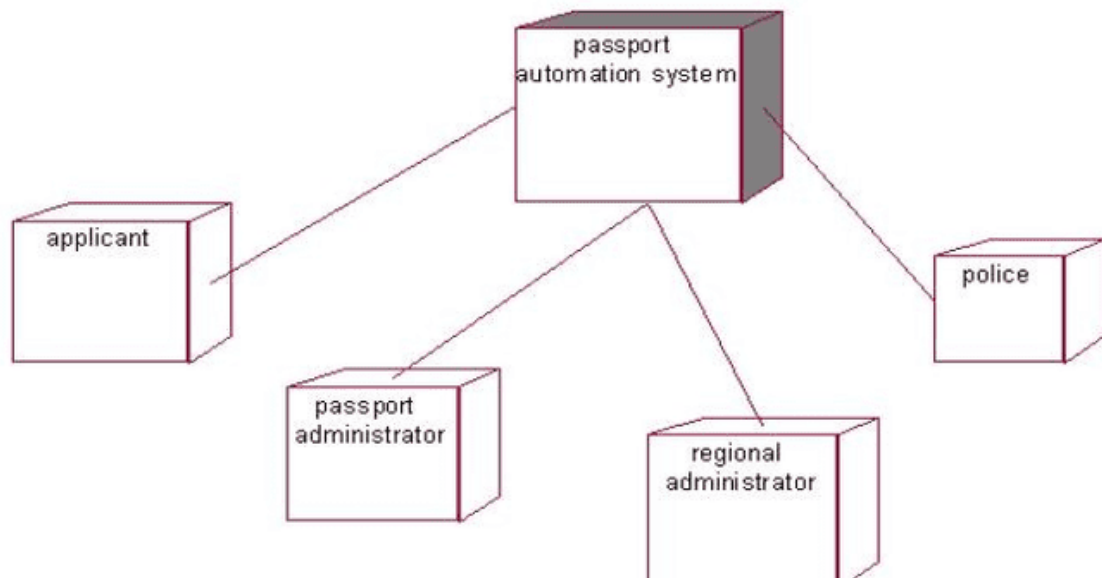
### DEVICE NODE

A physical computing resource with processing and memory service to execute software, such as a typical computer or a mobile phone.



## EXECUTION ENVIRONMENT NODE

This is a software computing resource that runs within an outer node and which itself provides a service to host an execute other executable software element.

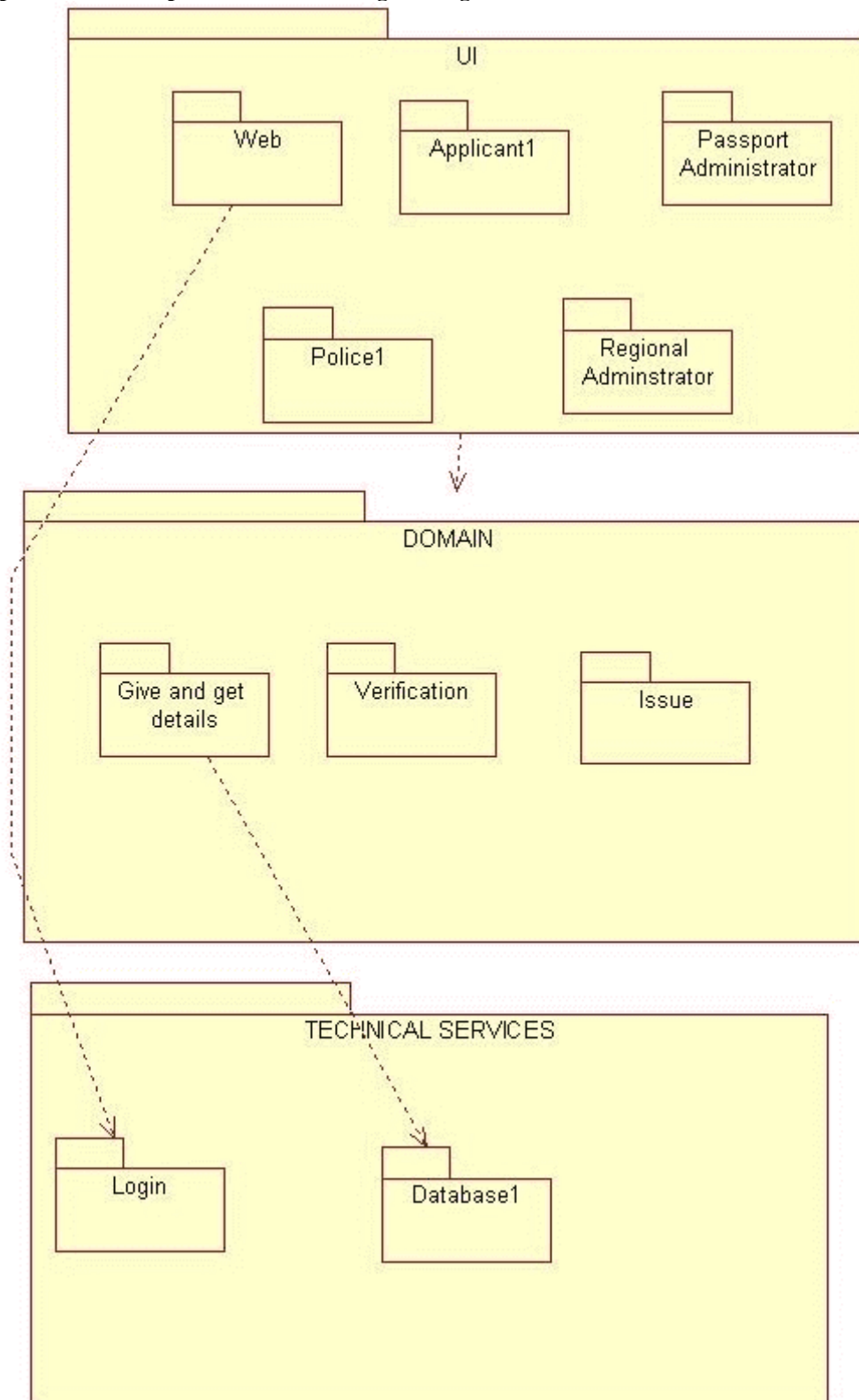


## DOCUMENTATION OF DEPLOYMENT DIAGRAM

The device node is passport automation system and execution environment node are applicant passport administrator, regional administrator, and police.

## PACKAGE DIAGRAM

A package diagram is represented as a folder shown as a large rectangle with a top attached to its upper left corner. A package may contain both sub ordinate package and ordinary model elements. All uml models and diagrams are organized into package

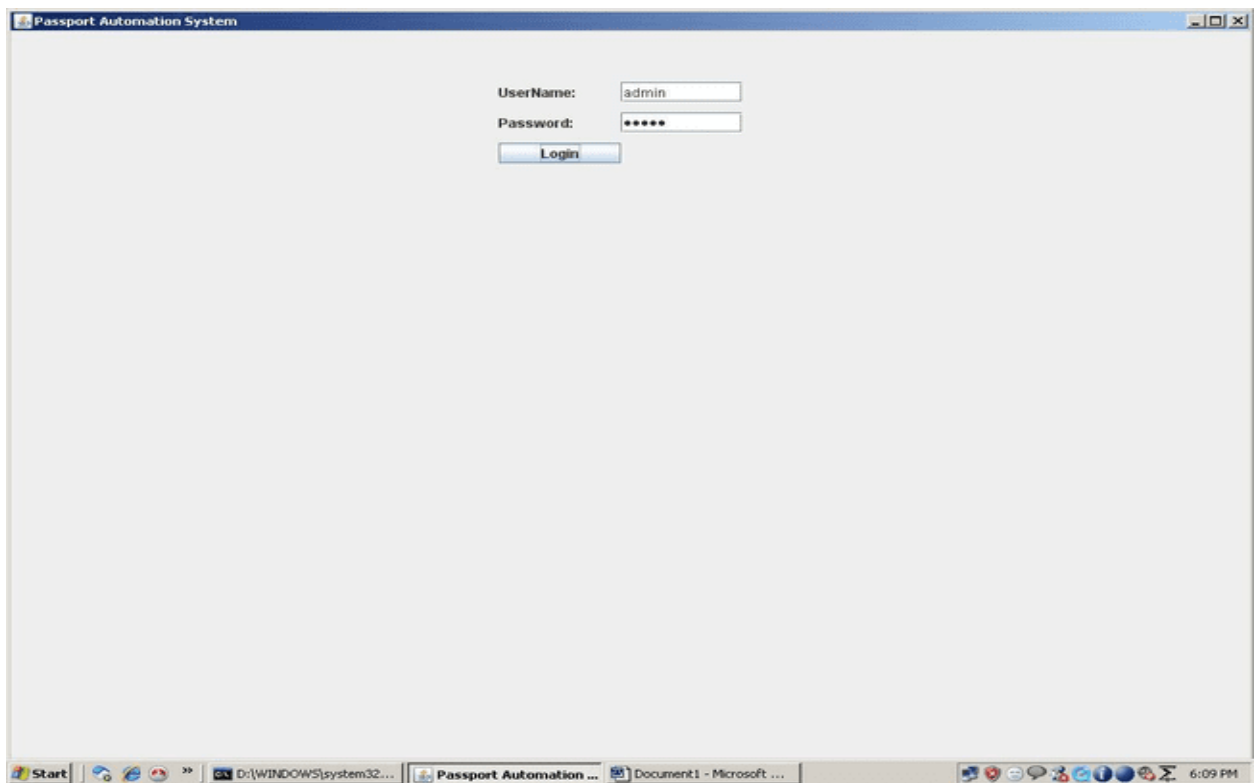


## DOCUMENTATION OF PACKAGE DIAGRAM

- a. The three layer in the passport automation system are user interface layer, domain layer, technical service layer
- b. The user interface layer represents the user interface components such as web, applicant, passport administrator, police, and regional administrator.
- c. The domain layer has major actions such as give and get details, verification and issues.
- d. Technical service layer, authenticated user only can access the technical services.

## FORMS

### FORM 1



The screenshot shows a Windows desktop environment. The active window is titled "Passport Automation System". It contains a login form with the following elements:

- A label "UserName:" followed by a text input field containing the text "admin".
- A label "Password:" followed by a password input field containing six asterisks "\*\*\*\*\*".
- A "Login" button located below the password field.

The Windows taskbar at the bottom shows the Start button, several icons, and the taskbar itself with open applications: "D:\WINDOWS\system32...", "Passport Automation ...", and "Document1 - Microsoft ...". The system clock in the bottom right corner displays "6:09 PM".

### FORM 2

Passport Automation System Data Entry

Name	Ramu
Fathername	Raj
D.O.B	08-09-1990
Gender	male
Permanent Address	tamabaram
Temporary Address	tambaram
Proof	pan/089
Contact Number	988745678
Emailid	gaty.ram@gmail.com

admin  
\*\*\*\*\*

Save Verification

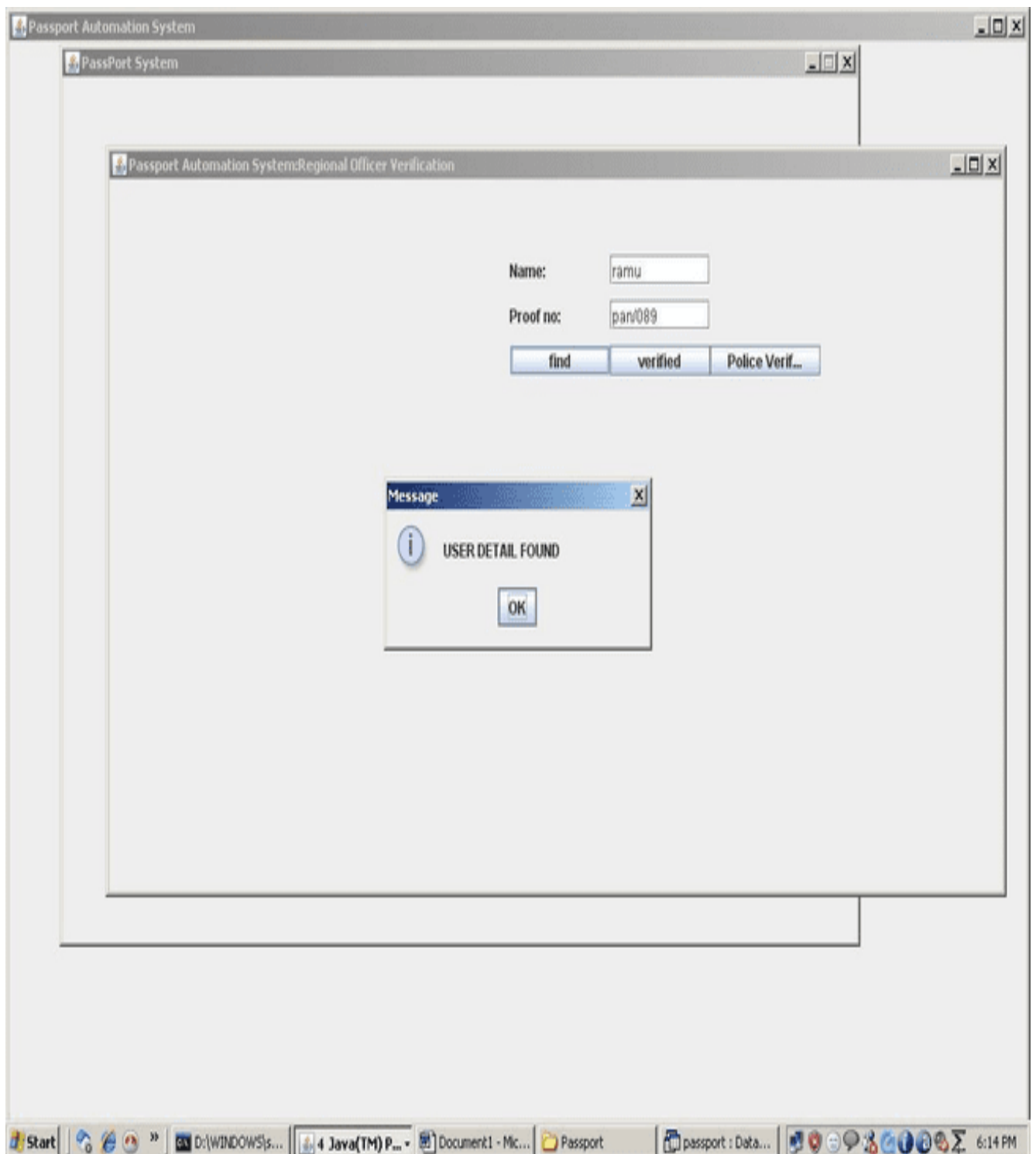
Reset

Message  
Data is successfully inserted  
OK

Start | D:\WINDOWS\system... | Passport Automation S... | Passport Automatio... | Document1 - Microsoft... | 6:10 PM

[illegible]

**FORM 4**[illegible]

**FORM 5**

**FORM 6**

The screenshot displays a Windows application window titled "Passport Automation System:Police Verification". Inside the window, there are three text input fields: "Name:" with the value "ramu", "permanentaddr..." with the value "tambaram", and "temporaryaddr..." with the value "tambaram". Below these fields are two buttons: "find" and "verified". A "Message" dialog box is open in the center, displaying an information icon, the text "USER DETAIL FOUND", and an "OK" button. The Windows taskbar at the bottom shows the Start button, several icons, and open application windows including "D:\WINDOWS\p...", "5 Java(TM) P...", "Document1 - Mic...", "Passport", and "passport : Data...". The system clock indicates 6:15 PM.



[illegible]

**RESULT:**

Thus the project to implement Passport Automation System using java has been successfully designed.

## **EXPERIMENT :2**

### **BOOK BANK**

#### **AIM**

To develop a project of Book bank management system using Rational Rose Software /StarUML

#### **PROBLEM ANALYSIS AND PROJECT DESIGN**

The book bank management system is an software in which a member can register themselves and then he can borrow books from the book bank. It mainly concentrates on providing books for engineering students.

#### **PROBLEM STATEMENT**

The process of members registering and purchasing books from the book bank are described sequentially through following steps:

- a. First the member registers himself if he was new to the book bank.
- b. Old members will directly select old member button..
- c. They select their corresponding year.
- d. After selecting the year they fill the necessary details and select the book and he will be directed towards administrator
- e. The administrator will verify the status and issue the book.

#### **1. INTRODUCTION**

This system would be used by members who are students of any college to check the availability of the books and borrow the books, and then the databases are updated. The purpose of this document is to analyze and elaborate on the high- level needs and features of the book bank management system. It also tells the usability, reliability defined in use case specification.

#### **2. OBJECTIVE**

The main objective of the system are was to design an online book-bank monitoring system to enable a central monitoring mechanism of the book-bank be more faster and less error prone. Apart from this,

- a. To help the students acquire the right books for the syllabus at the right time.
- b. To ensure availability of basic textbooks to students against limited funds and To develop students ability to handle property loaned to them

### 3. OVERVIEW

The overview of this project is to design a tool for book bank so that it can be used by any book banks to lend their books as well as colleges.

### 4. GLOSSARY

TERMS	DESCRIPTION
MEMBER	The one who registers himself and purchase books from the bank.
DATABASE	Database is used to store the details of members and books.
ADMINISTRATOR	The one who verifies the availability of book and issue them
USER	Member

### SOFTWARE REQUIREMENT SPECIFICATION

This software specification documents full set of features and function for online recruitment system that is performed in company website.

### 5. PURPOSE

The purpose of the book bank management system is to reduce the manual intervention .

### 6. SCOPE

The scope of this book bank management system is to act as a tool for book bank administrator for quick reference, availability of the books.

### 7. FUNCTIONALITY

Many members will be waiting to take the book from the book bank at a single day. To serve all the members

### 8. USABILITY

User interface makes the Recruitment system to be efficient. That is the system will help the member to register easily and helps them to get their books easily. The system should be user friendly.

### 9. PERFORMANCE

It describes the capability of the system to perform the recruitment process of the applicant without any error and performing it efficiently.

## **10. RELIABILITY**

The book bank management system should be able to serve the applicant with correct information and day-to-day update of information.

## **11. FUNCTIONAL REQUIREMENTS**

Functional requirements are those refer to the functionality of the system. That is the services that are provided to the member who borrows book.

## **12. EXTERNAL INTERFACE**

### **REQUIREMENTS SOFTWARE**

#### **REQUIREMENTS**

1. **Front end:** IBM rational rose enterprise edition.
2. **Back end:** visual basic 8.0.

#### **HARDWARE REQUIREMENTS**

1. **Processor :** pentium 4.
2. **RAM :** 256 mb
3. **Operating system :** Microsoft windows xp.
4. **Free disk space :** 1gb

### **UML DIAGRAMS**

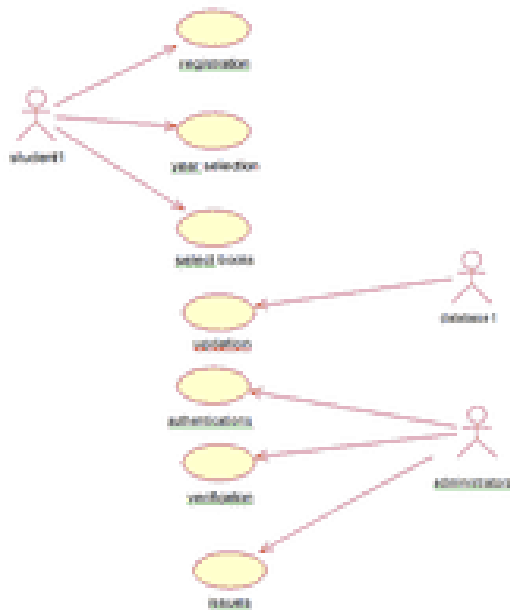
The following UML diagrams describe the process involved in the online recruitment system

- a. Use case diagram
- b. Class diagram
- c. Sequence diagram
- d. Collaboration diagram
- e. State chart diagram
- f. Activity diagram
- g. Component diagram
- h. Deployment diagram
- i. Package diagram

## USE CASE DIAGRAM

A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. The use case is made up of a set of possible sequences of interactions between systems and users in a particular environment and related to a particular goal. It is represented using ellipse.

Actor is any external entity that makes use of the system being modeled. It is represented using stick figure.



## DOCUMENTATION OF USE CASE DIAGRAM

The actors in this use case diagram are member and database. The use cases are the activities performed by actors.

- a. The member will register himself in the book bank.
- b. After registration he will select the year to which he belongs
- c. After selecting he will select books
- d. Database will verify the status of book and the books will be given.

## CLASS DIAGRAM

A class diagram in the unified modeling language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, and the relationships between the classes. It is represented using a rectangle with three compartments. Top compartment have the class name, middle compartments the attributes and the bottom compartment with operations.



## DOCUMENTATION OF CLASS DIAGRAM

This class diagram has 8 classes:

- **Member details class-** is the class name. Its attributes are name, father
- **Administrator-** is the class name. Its attributes are name, address, phone, mail id. Its operations are authentication, verification and issue books.
- **Year-** is the class name. Its attribute is year selection. Its operations are 1st year, 2nd year, 3rd year, 4th year.
- **Issue for 1st year-** is the class name. Its attributes are member code, member name, book code, book name, and quantity. Its operation is issue

**Issue for 2nd year-** is the class name. Its attributes are member code, member name, book code, book name, and quantity. Its operation is issue

- **Issue for 3rd year-** is the class name. Its attributes are member code, member name, book code, book name, and quantity. Its operation is issue

## SEQUENCE DIAGRAM

A sequence diagram in Unified Modeling Language (UML) is a kind of interaction diagram that shows how processes operate with one another and in what order. It is a construct of a Message Sequence Chart. There are two dimensions.

1. Vertical dimension-represent time.
2. Horizontal dimension-represent different objects.



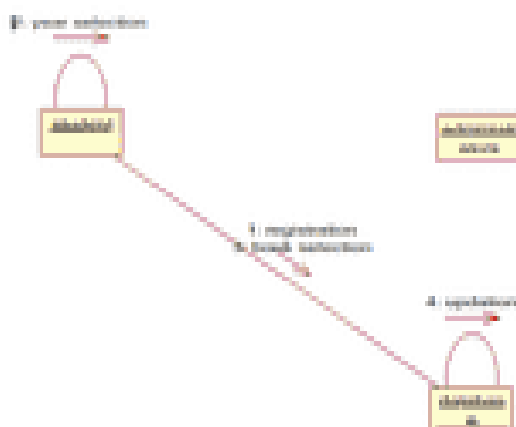
## DOCUMENTATION OF SEQUENCE DIAGRAM

The sequence diagram describes the sequence of steps to show

- The member registers himself in book bank
- He will select the year
- He select the books given and the database will update the status of book.
- Then administrator will log in and verify the status of books.
- If the book is available he will issue the book.

## COLLABRATION DIAGRAM

A collaboration diagram, also called a communication diagram or interaction diagram,. A sophisticated modeling tool can easily convert a collaboration diagram into a sequence diagram and the vice versa. A collaboration diagram resembles a flowchart that portrays the roles, functionality and behavior of individual objects as well as the overall operation of the system in real time



## **DOCUMENTATION OF COLLABORATION DIAGRAM**

The collaboration diagram is to show how the member registers himself and borrow the book from the book bank. Here the sequence is numbered according to the flow of execution.

## **STATE CHART DIAGRAM**

The purpose of state chart diagram is to understand the algorithm involved in performing a method. It is also called as state diagram. A state is represented as a round box, which may contain one or more compartments. An initial state is represented as small dot. An final state is represented as circle surrounding a small dot.

## **DOCUMENTATION OF STATE CHART DIAGRAM**

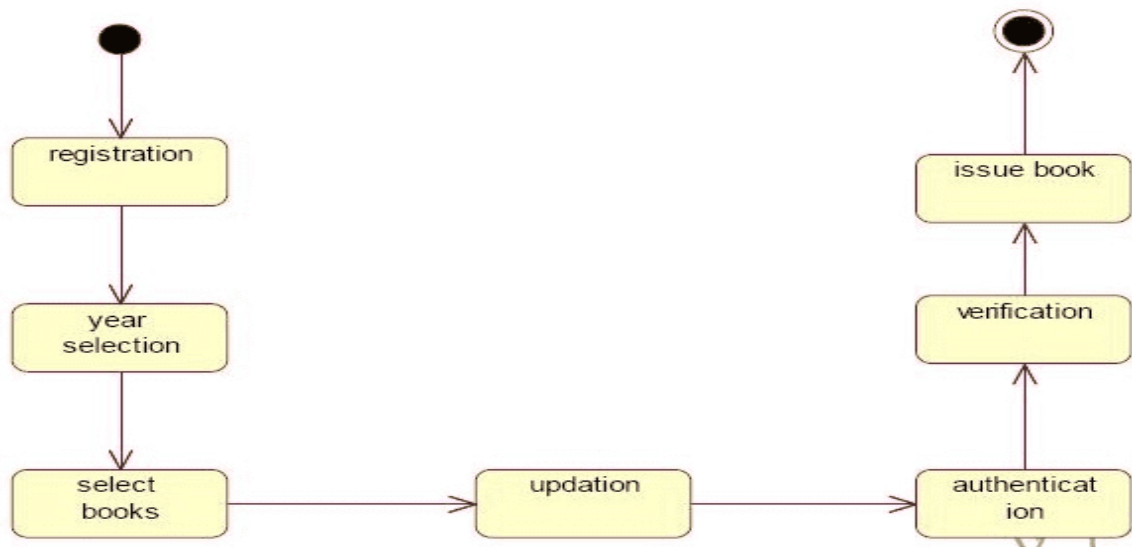
This state diagram describes the behavior of the system.

- a. In the first state the member registers himself in book bank
- b. After that he will select the year in next state.
- c. In the next state he will select the books.
- d. In the next state database will update the status of book.
- e. In the next state administrator will log in.
- f. After authentication he will verify the availability of book.
- g. If available he will issue the book.

## **ACTIVITY DIAGRAM**

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control. An activity is shown as an rounded box containing the name of the operation





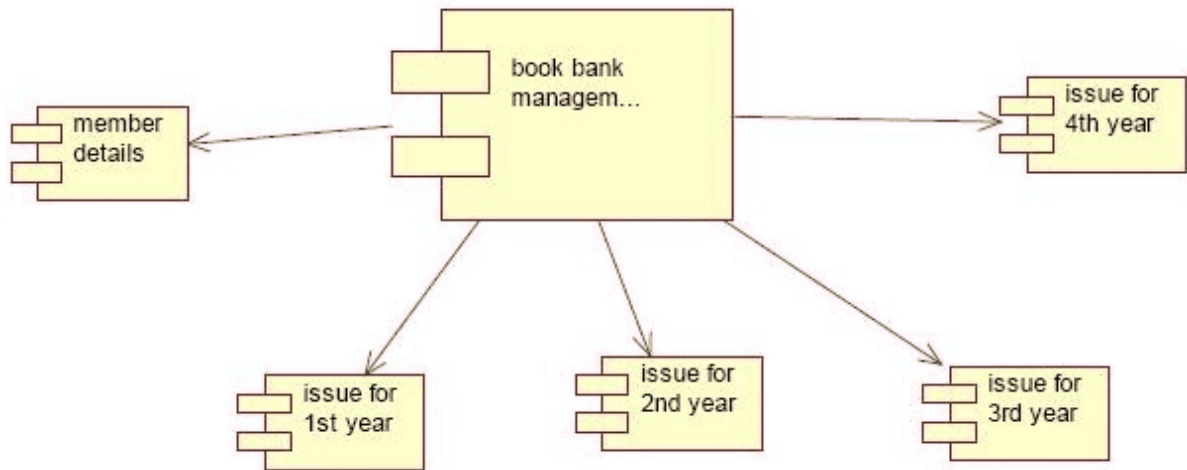
## DOCUMENTATION OF ACTIVITY DIAGRAM

This activity diagram flow of stepwise activities performed in book bank management system.

- a. The member registers himself in book bank
- b. After that he will select the year.
- c. He will select the books.
- d. Database will update the status of book.
- e. Database will update the details
- f. Then the administrator will log in to his account.
- g. After authentication he will verify the availability of book.
- h. If available he will issue the book.

## COMPONENT DIAGRAM

The component diagram's main purpose is to show the structural relationships between the components of a system. It is represented by boxed figure. Dependencies are represented by communication association

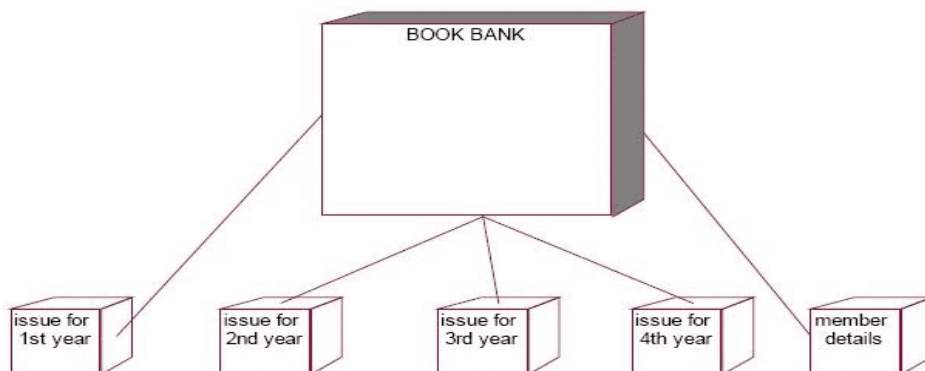


## DOCUMENTATION OF COMPONENT DIAGRAM

The main component in this component diagram is online book bank management systems. And member details, issue for first year, issue for second year issue for third year and issue for fourth year are components comes under the main component

## DEPLOYMENT DIAGRAM

A deployment diagram in the unified modeling language serves to model the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3-dimentional box. Dependencies are represented by communication association.



## DOCUMENTATION OF DEPLOYMENT DIAGRAM

The processor in this deployment diagram is the book bank which is the main part and which are the some of the main activities performed in the system. And issue for first year, issue for second year issue for third year and issue for fourth year are some activities performed in this system.

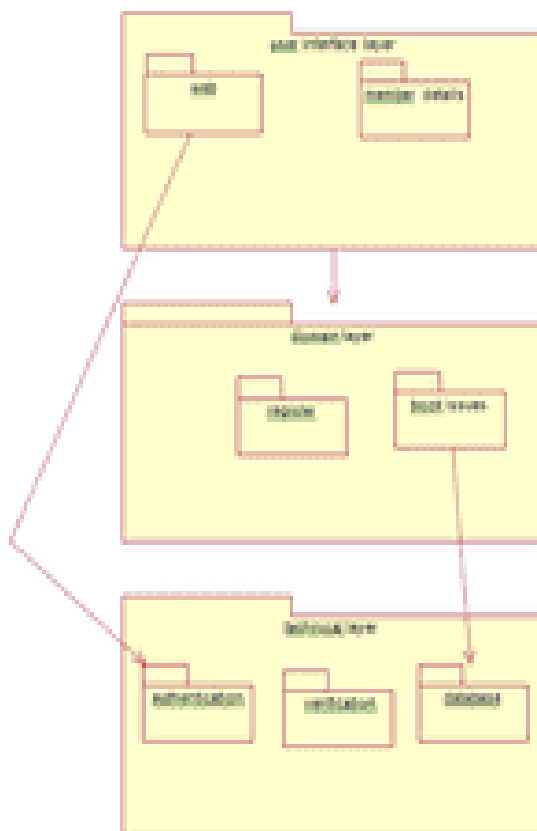
## PACKAGE DIAGRAM

A package diagram in unified modeling language that depicts the dependencies between the packages that make up a model. A Package Diagram (PD) shows a grouping of elements in

the OO model, and is a Cradle extension to UML. PDs can be used to show groups of classes in Class Diagrams (CDs), groups of components or processes in Component Diagrams (CPDs), or groups of processors in Deployment Diagrams (DPDs).

There are three types of layer. They are

- User interface layer
- Domain layer
- Technical services layer



## DOCUMENTATION OF PACKAGE DIAGRAM

The three layers in the online recruitment system are

- The User interface layer** - consists of the web and member details. This layer describes how the member goes to book bank and registers himself..
- The Domain layer** – shows the activities that are performed in the book bank management system. The activities are register and book issues..
- The Technical service layer** - the member details and verification details are stored in the database.

**FOR**

**MS**

**FOR**

**M 1**

MEMBERSHIP FORM

NAME	nataj
FATHER NAME	murali
DATE OF BIRTH	02-11-1991
ADDRESS	t nagar
PHONE NUMBER	9677297890
MEMBER ID	201
COLLEGE NAME	sm
DEGREE AND COURSE	be cse
SEMESTER	4

ADD SUBMIT

Navigation: Data1

**FORM 2**

The image shows a screenshot of a Windows XP desktop environment. A window titled 'Form5' is open, displaying a 'YEAR SELECTION' form. The form has a light blue background and a central orange rectangular area containing three buttons labeled '1ST YEAR', '2ND YEAR', and '3RD YEAR'. The Windows taskbar at the bottom shows the Start button, Control Panel, BOOK BANK, and several open applications including Microsoft Word and Project1 - Mi... The system tray on the right indicates the user is RAGAVAN and the time is 12:35 PM.

**FORM 3**

Form4

ISSUE FOR 1ST YEAR

MEMBER ID: 100

MEMBER NAME: rajat

BOOK NAME: maths

AVAILABLE BOOKS:

- chemistry
- physics
- maths
- EG

SUBMIT ADD

NUMBER OF BOOKS: 1

NUMBER OF TRIES: 4

Data1

## FORM 4

Form1

ISSUE FOR 1ST YEAR

MEMBER ID

MEMBER NAME

BOOK NAME

AVAILABLE BOOKS

chemistry  
physics  
maths  
EG

SUBMIT

ADD

NUMBER OF BOOKS

NUMBER OF TRIES

5

Project1

only four books can be selected

OK

Data1

start

4 Visual Basic

RAJAN says ...

New Folder

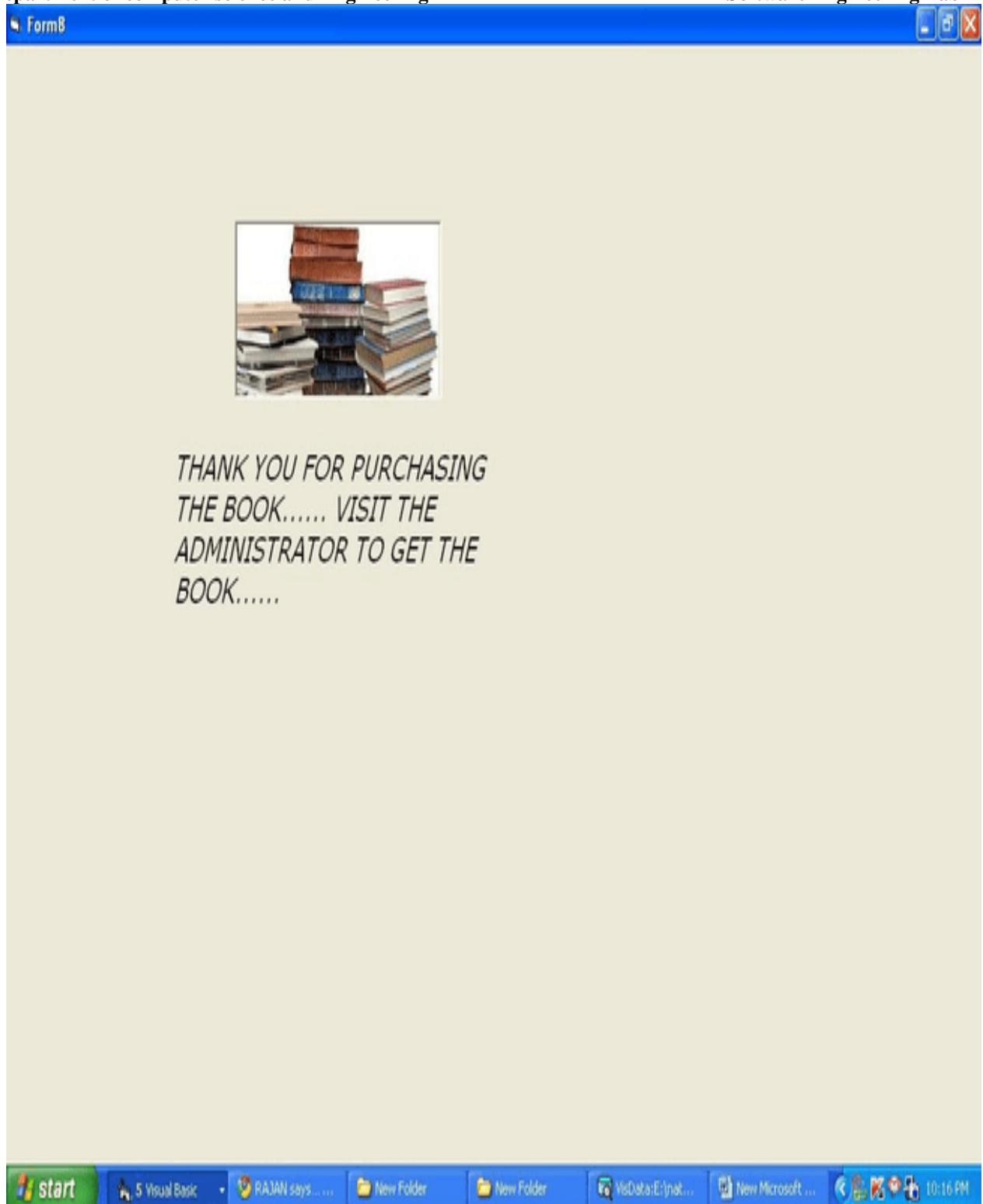
New Folder

ViaData.E:\nat...

New Microsoft ...

10:15 PM

## FORM 5



## FORM 6



Form6

ISSUE FOR 2ND YEAR

MEMBER ID: 200

MEMBER NAME: pandi

BOOK NAME: data structures

AVAILABLE BOOKS:

- operating system
- dbms
- maths 3
- data structures
- oops
- adc
- dpad
- coa
- maths 4

SUBMIT ADD

NUMBER OF BOOKS: 1

NUMBER OF TRIES: 4

Data1

start 4 Visual Basic gayathri.sparklings... 2 Windows Explorer VisData:E:\natu pro... New Microsoft Wor... 10:25 PM

## FORM 7

Form7

ISSUE FOR 3rd YEAR

MEMBER ID: 309

MEMBER NAME: shyam

BOOK NAME: computer networks

AVAILABLE BOOKS:

- computer networks
- advanced database
- artificial intelligence
- aca
- oad
- web technology
- compler
- pat

SUBMIT ADD

NUMBER OF BOOKS: 1

NUMBER OF TRIES: 4

Data1

start 4 Visual Basic Gmail - Inbox (18) - ... 2 Windows Explorer VsData:E:\natu pro... New Microsoft Wor ... 10:27 PM

**FORM 8**



## RESULT

Thus the project to develop book bank management system using Rational Rose Software and to implement the software in Visual Basic was done successfully

## **EXPERIMENT 3**

### **ONLINE EXAM REGISTRATION**

#### **AIM**

To develop a project Exam Registration using Rational Rose Software and to implement the software in Visual Basic.

#### **PROBLEM ANALYSIS AND PROJECT PLANNING**

The Exam Registration is an application in which applicant can register themselves for the exam. The details of the students who have registered for the examination will be stored in a database and will be maintained. The registered details can then be verified for any fraudulent or duplication and can be removed if found so. The database which is verified can be used to issue hall tickets and other necessary materials to the eligible students.

#### **PROBLEM STATEMENT**

The process of students accessing the registration application and applying for the examination by filling out the form with proper details and then the authorities verify those details given for truth and correctness are sequenced through steps

- a. The students access exam registration application.
- b. They fill out the form with correct and eligible details.
- c. They complete the payment process.
- d. The authorities verify or check the details.
- e. After all verification the exam registration database is finalized.

#### **1. INTRODUCTION**

Exam Registration application is an interface between the Student and the Authority responsible for the Exams. It aims at improving the efficiency in the registration of exams and reduces the complexities involved in it to the maximum possible extent.

#### **2. OBJECTIVE**

The main objective of Exam Registration System is to make applicants register themselves and apply for the exam. Exam Registration System provides easy interface to all the users to apply for the exam easily.

#### **3. OVERVIEW**

The overview of the project is to design an exam registration tool for the registration process

which makes the work easy for the applicant as well as the Authorities of Exam. Authorities of the exam can keep track of and maintain the database of the registered applicants for the exams.

## 4. GLOSSARY

### TERMS

### DESCRIPTION

APPLICANT OR STUDENT

Applicant can register himself by filling out the registration form and finally paying the payment for attending the exam.

DATABASE

Database is used to maintain and store the details of registered applicants.

SOFTWARE REQUIREMENT

SPECIFICATION

This software specification documents full set of features and function for online recruitment system that is performed in company website.

## 5. PURPOSE

The purpose of exam registration system is to register for the exam in an easier way and to maintain the registered details in an effective manner.

## 6. SCOPE

The scope of this Exam Registration process is to provide an easy interface to the applicants where they can fill their details and the authorities maintain those details in an easy and effective way.

## 7. FUNCTIONALITY

The main functionality of registration system is to make the registration and database for it to be maintained in an efficient manner.

## 8. USABILITY

User interface makes the Exam Registration system to be efficient. That is the system will help the applicant to register easily and helps the authorities to maintain details effectively. The system should be user friendly.

## 9. PERFORMANCE

It describes the capability of the system to perform the registration process of the applicant without any error and performing it efficiently.

## 10. RELIABILITY

The Exam Registration system should be able to serve the applicant with correct information

## 11. FUNCTIONAL REQUIREMENTS

Functional requirements are those refer to the functionality of the system. That is the services that are provided to the applicant who apply for the Exam.

## 12. EXTERNAL INTERFACE

### REQUIREMENTS SOFTWARE

### REQUIREMENTS

1. **Front end:** IBM rational rose enterprise edition.
2. **Back end:** visual basic 8.0.

### HARDWARE REQUIREMENTS

1. **Processor :** pentium 4.
2. **RAM :** 256 mb
3. **Operating syatem :** Microsoft windows xp.
4. **Free disk space :** 1gb UML

### DIAGRAMS

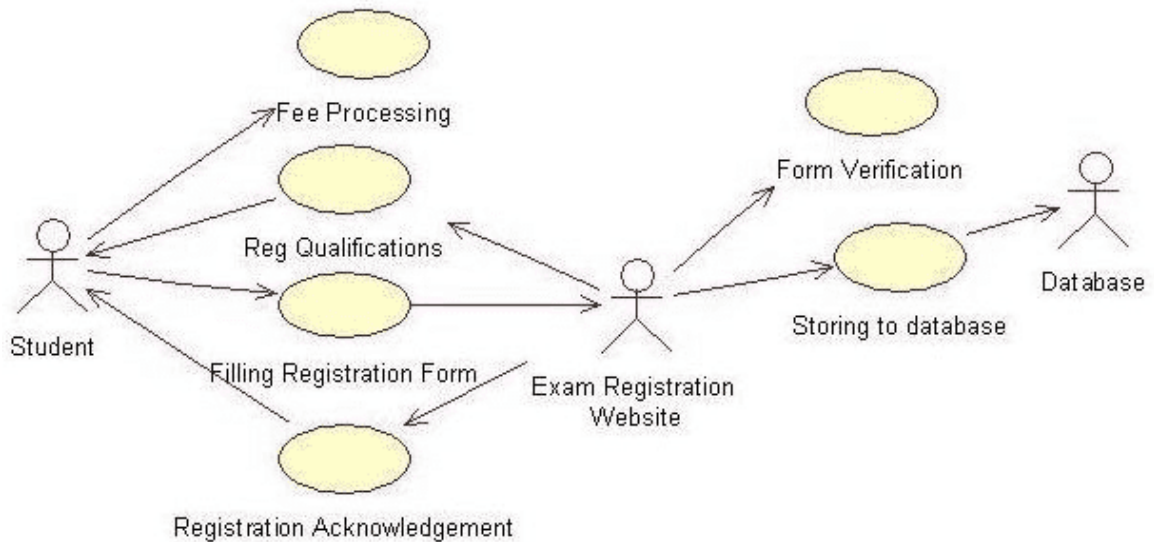
The following UML diagrams describe the process involved in the online recruitment system

- a. Use case diagram
- b. Class diagram
- c. Sequence diagram
- d. Collaboration diagram
- e. State chart diagram
- f. Activity diagram
- g. Component diagram
- h. Deployment diagram
- i. Package diagram

### USE CASE DIAGRAM

A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. The use case is made up of a set of possible sequences of interactions between systems and users in a particular environment and related to a particular goal. It is represented using ellipse.

Actor is any external entity that makes use of the system being modelled. It is represented using stick figure



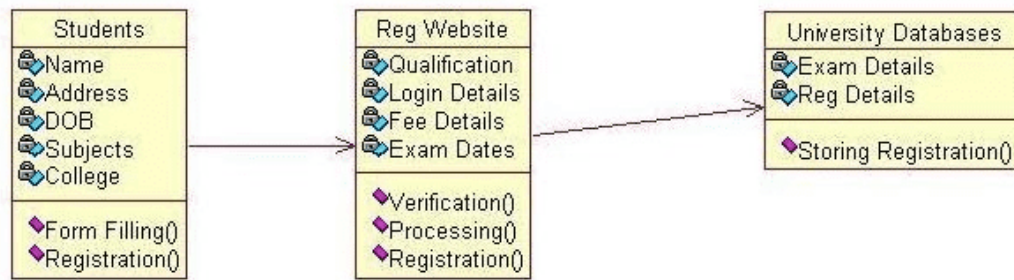
## DOCUMENTATION OF USE CASE DIAGRAM

The actors in this use case diagram are Student, Interface and Database. The usecases are the activities performed by actors.

- Student Fills out the form in the form filling process.
- The interface checks and validates registered details.
- Then the database is searched for details and verified.
- Database stores the details and returns acknowledgement.
- 

## CLASS DIAGRAM

A class diagram in the unified modeling language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, and the relationships between the classes. It is represented using a rectangle with three compartments. Top compartment have the class name, middle compartment the attributes and the bottom compartment with operations.



## DOCUMENTATION OF CLASS DIAGRAM

This class diagram has three classes applicant, recruiter and database.

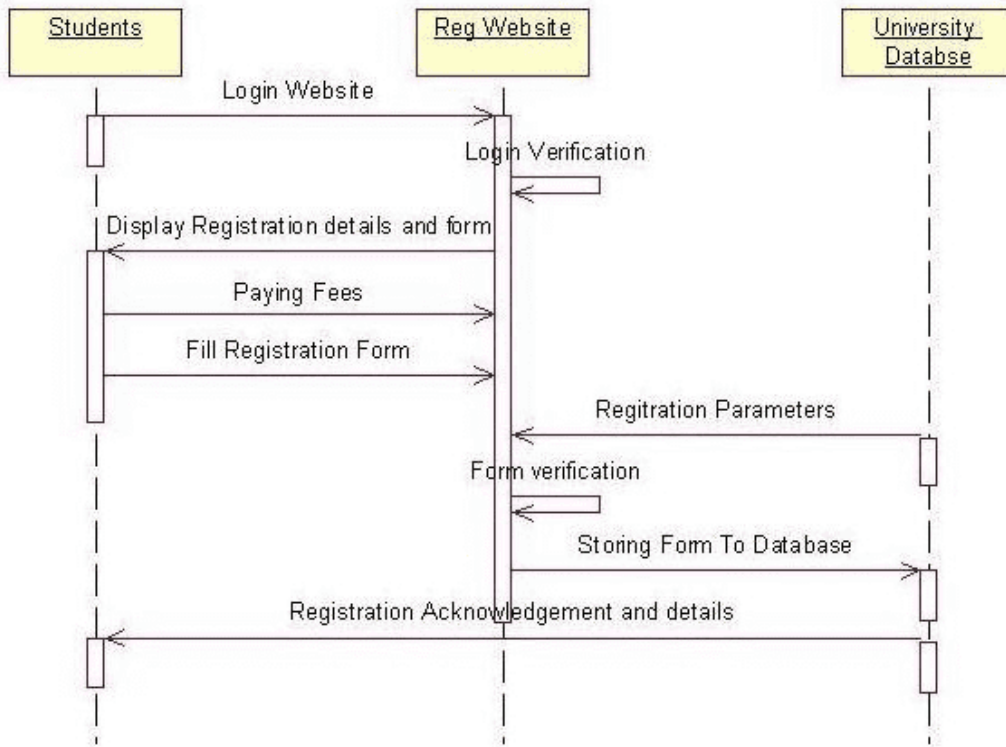
- a. **Students** – is the class name. Its attributes are name, Address, DOB, Gender, College, Subjects, Semester, Year, Degree, Branch and Payment. The operations performed in the students class are form filling, search database and receiving acknowledgement.
- b. **Registrations Interface** – is the class name. Its attributes are Login, Password and database. The operations performed are form verification, store in database and send acknowledgement.
- c. **Database** – is the class name. The operations performed are storing Search and storing the values.

## SEQUENCE DIAGRAM

A sequence diagram in Unified Modeling Language (UML) is a kind of interaction diagram that shows how processes operate with one another and in what order. It is a construct of a Message Sequence Chart. There are two dimensions.

1. Vertical dimension-represent time.
2. Horizontal dimension-represent different objects.





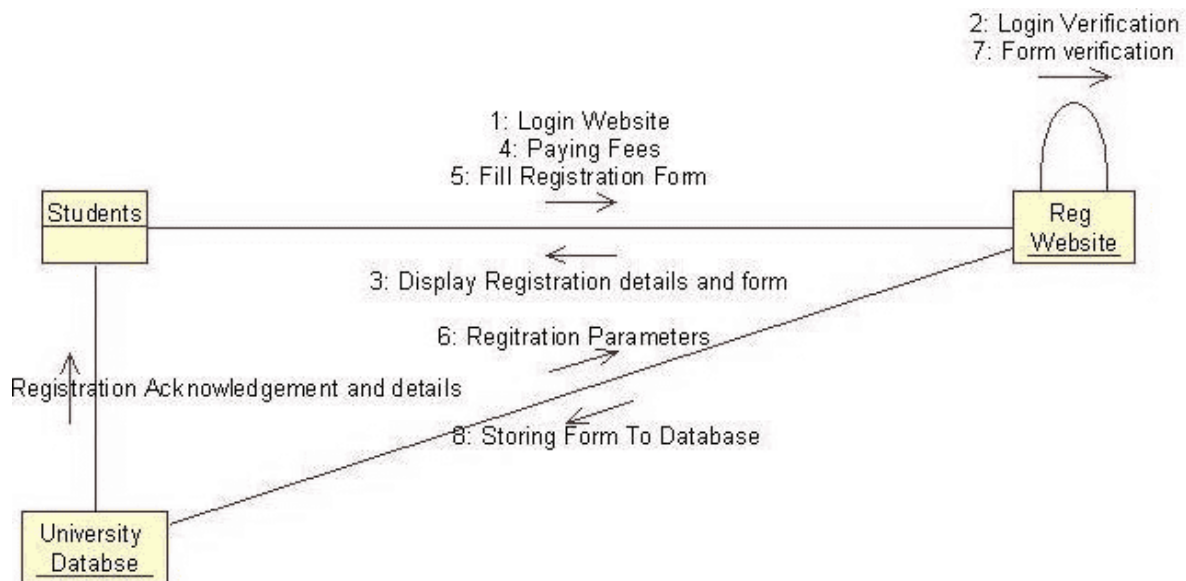
## DOCUMENTATION OF SEQUENCE DIAGRAM

The sequence diagram describes the sequence of steps to show

- The applicant filling form and registering for exam.
- The verification done by the interface and sending acknowledgement for registration.
- Searching the database with login and displaying it for maintenance.

## COLLABRATION DIAGRAM

A collaboration diagram, also called a communication diagram or interaction diagram,. A sophisticated modeling tool can easily convert a collaboration diagram into a sequence diagram and the vice versa. A collaboration diagram resembles a flowchart that portrays the roles, functionality and behavior of individual objects as well as the overall operation of the system in real time

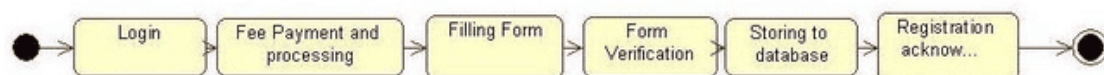


## DOCUMENTATION OF COLLABORATION DIAGRAM

The collaboration diagram is to show how the Student registers and the authorities maintains the details of the registered students in the registration system. Here the sequence is numbered according to the flow of execution.

## STATE CHART DIAGRAM

The purpose of state chart diagram is to understand the algorithm involved in performing a method. It is also called as state diagram. A state is represented as a round box, which may contain one or more compartments. An initial state is represented as small dot. A final state is represented as circle surrounding a small dot.



## DOCUMENTATION OF STATE CHART DIAGRAM

This state diagram describes the behaviour of the system.

- a. First state is form filling where the student fill the form to registration system.
- b. The next state is form verification by the interface.
- c. Then store the details in the database.
- d. The student receives acknowledgement for registering.
- e. Search database with login information.
- f. Display the searched data in the interface.

## ACTIVITY DIAGRAM

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control. An activity is shown as an rounded box containing the name of the operation.



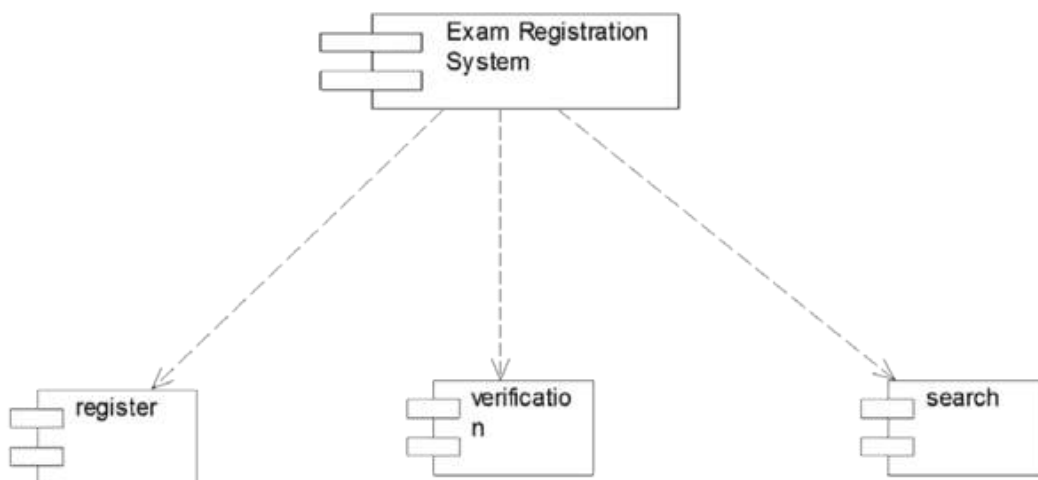
## DOCUMENTATION OF ACTIVITY DIAGRAM

This activity diagram flow of stepwise activities performed in recruitmnet system.

- a. First the student fills the form.
- b. The student details are verified and stored in database.
- c. Acknowledgement sent is received by student.
- d. Search database with login and if data present in the database.
- e. The searched data is displayed if available.

## COMPONENT DIAGRAM

The component diagram's main purpose is to show the structural relationships between the components of a system. It is represented by boxed figure. Dependencies are represented by communication association.



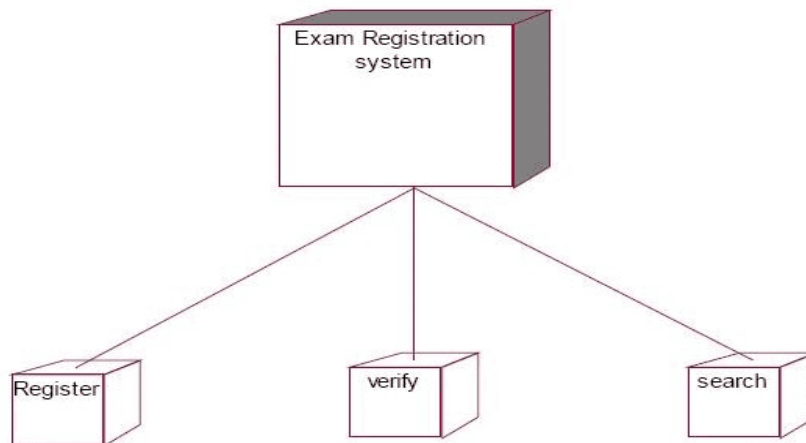
## DOCUMENTATION OF COMPONENT DIAGRAM

The main component in this component diagram is Exam Registration system. And register, verification and search details are the components comes under the main component.

## DEPLOYMENT DIAGRAM

A deployment diagram in the unified modeling language serves to model the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3-

dimensional box. Dependencies are represented by communication association.



## DOCUMENTATION OF DEPLOYMENT DIAGRAM

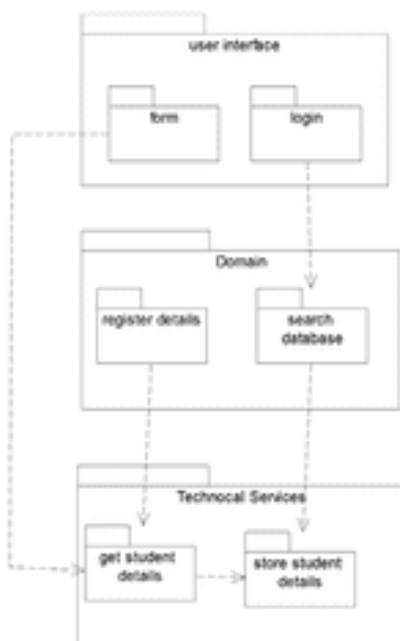
The processor in this deployment diagram is the Exam Registration system which is the main part and the devices are the register, verify and search which are the some of the main activities performed in the system.

## PACKAGE DIAGRAM

A package diagram in unified modeling language that depicts the dependencies between the packages that make up a model. A Package Diagram (PD) shows a grouping of elements in the OO model, and is a Cradle extension to UML. PDs can be used to show groups of classes in Class Diagrams (CDs), groups of components or processes in Component Diagrams (CPDs), or groups of processors in Deployment Diagrams (DPDs).

There are three types of layer. They are

- User interface layer
- Domain layer
- Technical services layer



## DOCUMENTATION OF PACKAGE DIAGRAM

The three layers in the online recruitment system are

- The User interface layer** - consists of the form and login. This layer describes how the applicant logs in to the search and apply for the exam.
- The Domain layer** – shows the activities that are performed in the Exam Registration system. The activities are register and search the database.
- The Technical service layer** – get student details and the selected applicant details are stored in the database.

## FORMS

Form1

NAME:

ADDRESS:

D.O.B:

GENDER:

COLLEGE NAME:

SUBJECTS:

BRANCH:  DEGREE:  YEAR:  SEMESTER:

PAYMENT:

NEW SAVE DELETE NEXT PREVIOUS

## RESULT

Thus the project to develop Exam Registration system using Rational Rose Software and to implement the software in Visual Basic is done successfully.

**EXPERIMENT 3b****EXAM REGISTRATION  
SYSTEM****AIM**

To develop a project Exam Registration using Rational Rose Software and to implement the software in Java.

**PROBLEM ANALYSIS AND PROJECT PLANNING**

The Exam Registration is an application in which applicant can register themselves for the exam. The details of the students who have registered for the examination will be stored in a database and will be maintained. The registered details can then be verified for any fraudulent or duplication and can be removed if found so. The database which is verified can be used to issue hall tickets and other necessary materials to the eligible students.

**PROBLEM STATEMENT**

The process of students accessing the registration application and applying for the examination by filling out the form with proper details and then the authorities verify those details given for truth and correctness are sequenced through steps

- The students access exam registration application.
- They fill out the form with correct and eligible details.
- They complete the payment process.
- The authorities verify or check the details.
- After all verification the exam registration database is finalized.

**SOFTWARE REQUIREMENT  
SPECIFICATION****1. INTRODUCTION**

Exam Registration application is an interface between the Student and the Authority responsible for the Exams. It aims at improving the efficiency in the registration of exams and reduces the complexities involved in it to the maximum possible extent.



## 2. OBJECTIVE

The main objective of Exam Registration System is to make applicants register themselves and apply for the exam. Exam Registration System provides easy interface to all the users to apply for the exam easily.

## 3. OVERVIEW

The overview of the project is to design an exam registration tool for the registration process which makes the work easy for the applicant as well as the Authorities of Exam. Authorities of the exam can keep track of and maintain the database of the registered applicants for the exams.

## 4. GLOSSARY TERMS

APPLICANT OR STUDENT

### DESCRIPTION

Applicant can register himself by filling out the registration form and finally paying the payment for attending the exam.

DATABASE

Database is used to maintain and store the details of registered applicants.

SOFTWARE REQUIREMENT  
SPECIFICATION

This software specification documents full set of features and function for online recruitment system that is performed in company website.

## 5. PURPOSE

The purpose of exam registration system is to register for the exam in an easier way and to maintain the registered details in an effective manner.

## 6. SCOPE

The scope of this Exam Registration process is to provide an easy interface to the applicants where they can fill their details and the authorities maintain those details in an easy and effective way.

## 7. FUNCTIONALITY

The main functionality of registration system is to make the registration and database for it to be maintained in an efficient manner.

## 8. USABILITY

User interface makes the Exam Registration system to be efficient. That is the system will

help the applicant to register easily and helps the authorities to maintain details effectively.  
The system should be user friendly.

## **9. PERFORMANCE**

It describes the capability of the system to perform the registration process of the applicant without any error and performing it efficiently.

## **10. RELIABILITY**

The Exam Registration system should be able to serve the applicant with correct information and day-to-day update of information.

## **11. FUNCTIONAL REQUIREMENTS**

Functional requirements are those refer to the functionality of the system. That is the services that are provided to the applicant who apply for the Exam.

## **UML DIAGRAMS**

The following UML diagrams describe the process involved in the online recruitment system

- a. Use case diagram
- b. Class diagram
- c. Sequence diagram
- d. Collaboration diagram
- e. State chart diagram
- f. Activity diagram
- g. Component diagram
- h. Deployment diagram
- i. Package diagram

## **USE CASE DIAGRAM**

A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. The use case is made up of a set of possible sequences of interactions between systems and users in a particular environment and related to a particular goal. It is represented using ellipse.

Actor is any external entity that makes use of the system being modelled. It is represented using stick figure.

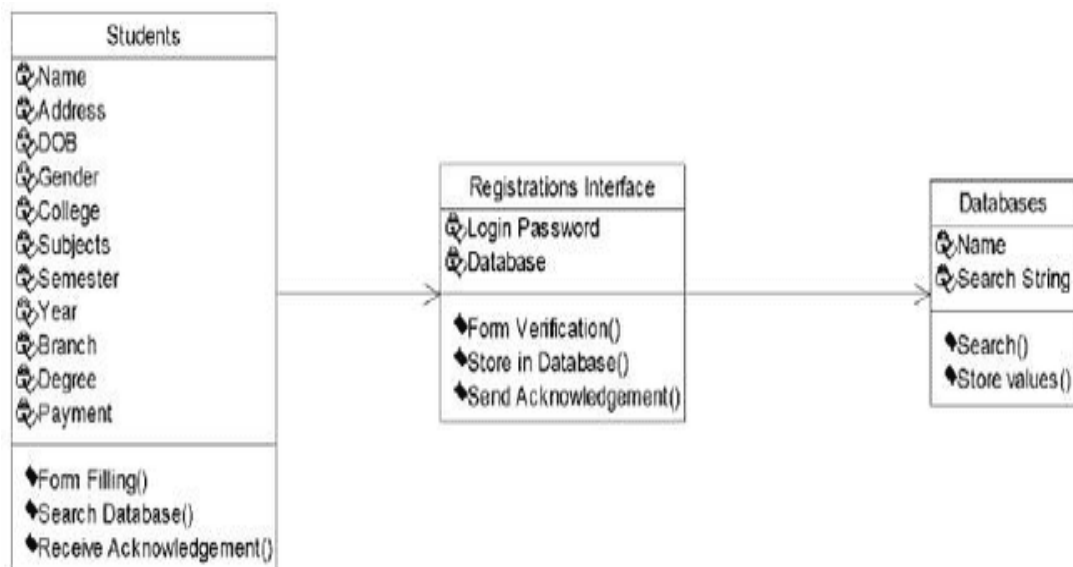
## DOCUMENTATION OF USE CASE DIAGRAM

The actors in this use case diagram are Student, Interface and Database. The usecases are the activities performed by actors.

- Student Fills out the form in the form filling process.
- The interface checks and validates registered details.
- Then the database is searched for details and verified.
- Database stores the details and returns acknowledgement.

## CLASS DIAGRAM

A class diagram in the unified modeling language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, and the relationships between the classes. It is represented using a rectangle with three compartments. Top compartment have the class name, middle compartment the attributes and the bottom compartment with operations.



## DOCUMENTATION OF CLASS DIAGRAM

This class diagram has three classes applicant, recruiter and database.

- a. **Students** – is the class name. Its attributes are name, Address, DOB, Gender, College, Subjects, Semester, Year, Degree, Branch and Payment. The operations performed in the students class are form filling, search database and receiving acknowledgement.
- b. **Registrations Interface** – is the class name. Its attributes are Login, Password and database. The operations performed are form verification, store in database and send acknowledgement.
- c. **Database** – is the class name. The operations performed are storing Search and storing the values.

## SEQUENCE DIAGRAM

A sequence diagram in Unified Modeling Language (UML) is a kind of interaction diagram that shows how processes operate with one another and in what order. It is a construct of a Message Sequence Chart. There are two dimensions.

1. Vertical dimension-represent time.
2. Horizontal dimension-represent different objects.

## DOCUMENTATION OF SEQUENCE DIAGRAM

The sequence diagram describes the sequence of steps to show

- a. The applicant filling form and registering for exam.
- b. The verification done by the interface and sending acknowledgement for registration.
- c. Searching the database with login and displaying it for maintenance.

## COLLABORATION DIAGRAM

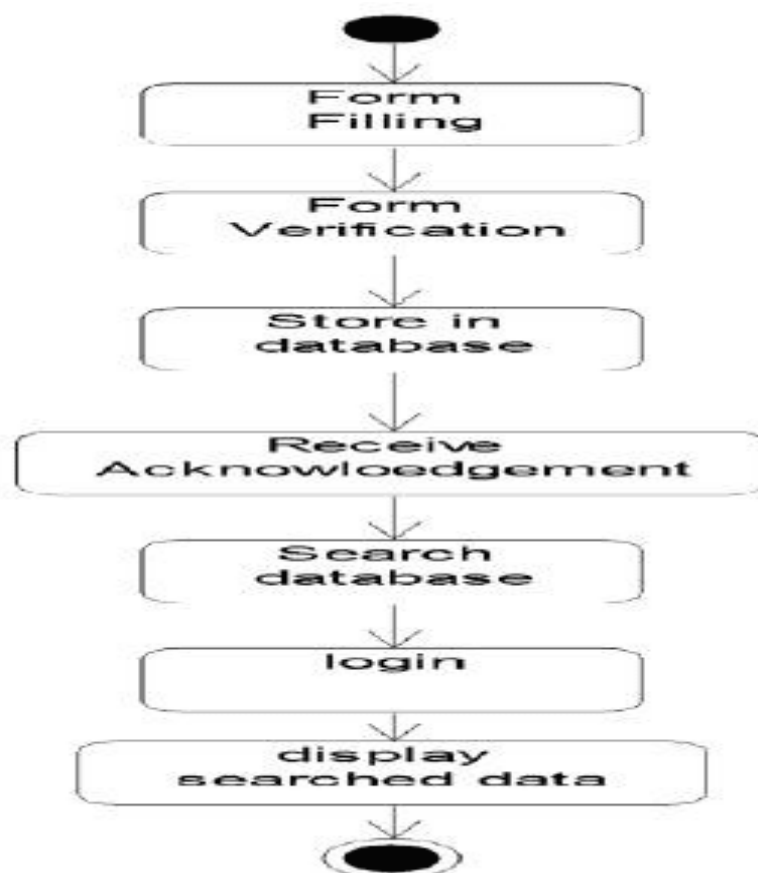
A collaboration diagram, also called a communication diagram or interaction diagram,. A sophisticated modeling tool can easily convert a collaboration diagram into a sequence diagram and the vice versa. A collaboration diagram resembles a flowchart that portrays the roles, functionality and behavior of individual objects as well as the overall operation of the system in real time

## DOCUMENTATION OF COLLABRATION DIAGRAM

The collaboration diagram is to show how the Student registers and the authorities maintains the details of the registered students in the registration system. Here the sequence is numbered according to the flow of execution.

## STATE CHART DIAGRAM

The purpose of state chart diagram is to understand the algorithm involved in performing a method. It is also called as state diagram. A state is represented as a round box, which may contain one or more compartments. An initial state is represented as small dot. A final state is represented as circle surrounding a small dot.



## DOCUMENTATION OF STATE CHART DIAGRAM

This state diagram describes the behaviour of the system.

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## ACTIVITY DIAGRAM

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control. An activity is shown as an rounded box containing the name of the operation.

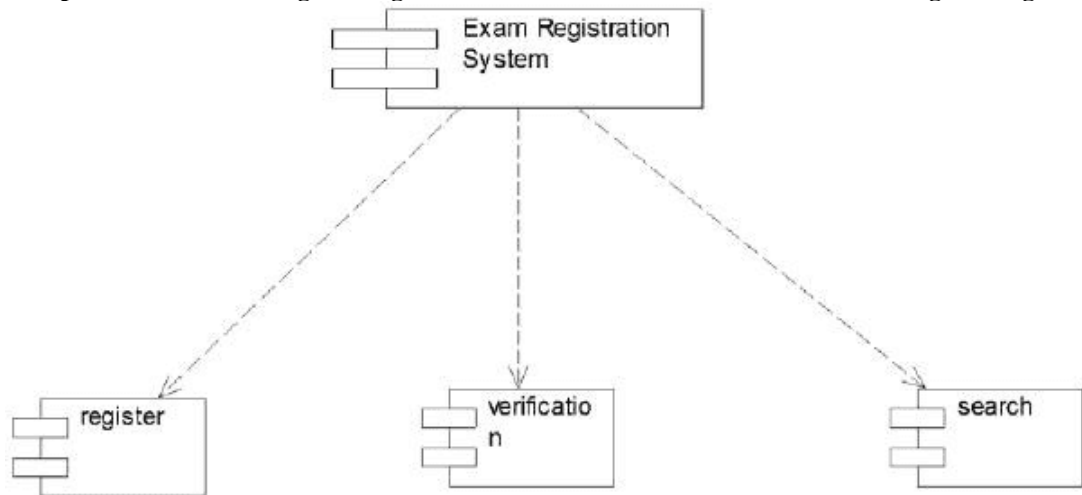
## DOCUMENTATION OF ACTIVITY DIAGRAM

This activity diagram flow of stepwise activities performed in recruitmnet system.

- a. First the student fills the form.
- b. The student details are verified and stored in database.
- c. Acknowledgement sent is received by student.
- d. Search database with login and if data present in the database.
- e. The searched data is displayed if available.

## COMPONENT DIAGRAM

The component diagram's main purpose is to show the structural relationships between the components of a system. It is represented by boxed figure. Dependencies are represented by communication association.



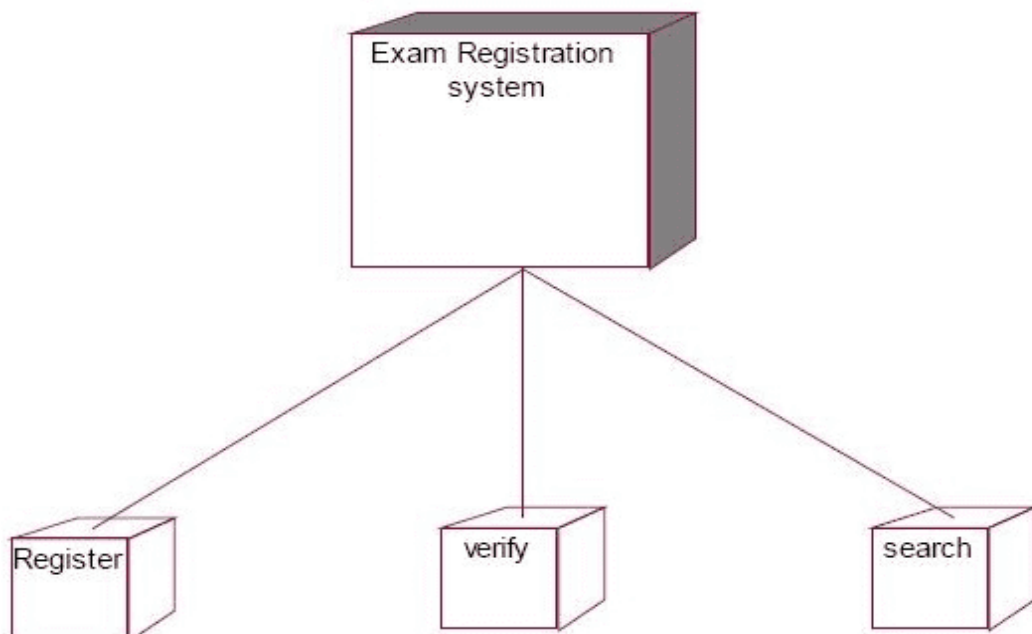
## DOCUMENTATION OF COMPONENT DIAGRAM

The main component in this component diagram is Exam Registration system. And register, verification and search details are the components comes under the main component.

## DEPLOYMENT DIAGRAM

A deployment diagram in the unified modeling language serves to model the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3-dimensional box. Dependencies are represented by communication association.

Exam Registration system Register verify search





## DOCUMENTATION OF DEPLOYMENT DIAGRAM

The processor in this deployment diagram is the Exam Registration system which is the main part and the devices are the register, verify and search which are the some of the main activities performed in the system.

## PACKAGE DIAGRAM

A package diagram in unified modeling language that depicts the dependencies between the packages that make up a model. A Package Diagram (PD) shows a grouping of elements in the OO model, and is a Cradle extension to UML. PDs can be used to show groups of classes in Class Diagrams (CDs), groups of components or processes in Component Diagrams (CPDs), or groups of processors in Deployment Diagrams (DPDs).

There are three types of layer. They are

- User interface layer
- Domain layer
- Technical services layer

## DOCUMENTATION OF PACKAGE DIAGRAM

The three layers in the online recruitment system are

- a. **The User interface layer** - consists of the form and login. This layer describes how the applicant logs in to the search and apply for the exam.
- b. **The Domain layer** – shows the activities that are performed in the Exam Registration system. The activities are register and search the database.
- c. **The Technical service layer** – get student details and the selected applicant details are stored in the database.

## FORMS

### FORM 1



The image shows a screenshot of a web application window titled "Exam Registration". Inside the window, the title "EXAM REGISTRATION FORM" is centered at the top. The form contains several input fields and buttons. The fields are: "Name:" (a single-line text box), "Address:" (a multi-line text area), "D.O.B:" (a single-line text box with a hint "Format:DD/MM/YYYY" below it), "Gender:" (two radio buttons labeled "Male" and "Female"), "College:" (a single-line text box), "Subjects:" (two rows of five single-line text boxes each), "Degree:" (a single-line text box), "Branch:" (a single-line text box), "Semester:" (a single-line text box), "Year:" (a single-line text box), and "Payment:" (a single-line text box). At the bottom of the form, there are three buttons: "Register", "Reset", and "Search".

Exam Registration

EXAM REGISTRATION FORM

Name:

Address:

D.O.B:   
Format:DD/MM/YYYY

Gender: ☐ Male ☐ Female

College:

Subjects:

Degree:  Branch:  Semester:  Year:

Payment:

## FORM 2

The image shows a software application window titled "Exam Registration". Inside the window, the title "EXAM REGISTRATION FORM" is centered at the top. The form contains several input fields and labels: "Name:" with a text box, "Address:" with a larger text box, "D.O.B:" with a text box and the instruction "Format:DD/MM/YYYY" below it, "Gender:" with radio buttons for "Male" (selected) and "Female", "College:" with a text box, "Subjects:" with two text boxes, "Degree:" with a text box, "Branch:" with a text box, "Semester:" with a text box, "Year:" with a text box, and "Payment:" with a text box. At the bottom of the form are three buttons: "Register", "Reset", and "Search". Overlaid on the right side of the form is a smaller dialog box titled "Staff Login". This dialog box has a label "Enter Password" next to a password input field, and "OK" and "Cancel" buttons at the bottom.

**FORM 3**

Exam Registration

EXAM REGISTRATION FORM

Name:

Address:

D.O.B:   
Format:DD/MM/YYYY

Gender: ☒ Male ☐ Female

College:

Subjects:

Degree:  Branch:  Semester:  Year:

Payment:

Password Error

INVALID PASSWORD.

OK

**FORM 4**

Exam Registration

EXAM REGISTRATION FORM

Name:

Address:

D.O.B:   
Format:DD/MM/YYYY

Gender: ☒ Male ☐ Female

College:


Subjects:

Degree:  Branch:  Semester:  Year:

Payment:

Register Reset Search

Login Successfull

 You are successfully Logged In

OK

**FORM 5**

Search Database

Search Parameters

Name ▼ Dinesh

Name	Addr...	DOB	Gen...	Coll...	sub1	sub2	sub3	sub4	sub5	sub6	sub7	sub8	sub9	Degr...	Bran...	Sem...	Year	Pay...

Search

## RESULT

Thus the project to develop Exam Registration system using Rational Rose Software and to implement the software in Java is done successfully.

**EXPERIMENT 4****STOCK MAINTENANCE****SYSTEM****AIM**

To develop a project stock maintenance system using Rational Rose Software and to implement the software in Visual Basic.

**PROBLEM ANALYSIS AND PROJECT PLANNING**

The Stock Maintenance System, initial requirement to develop the project about the mechanism of the Stock Maintenance System is caught from the customer. The requirement are analyzed and refined which enables the end users to efficiently use Stock Maintenance System. The complete project is developed after the whole project analysis explaining about the scope and the project statement is prepared.

**PROBLEM STATEMENT**

The process of stock maintenance system is that the customer login to the particular site to place the order for the customer product. The stock maintenance system are described sequentially through steps

- a. The customer login to the particular site.
- b. They fill the customer details.
- c. They place the orders for their product.
- d. The vendor login and views the customer details and orders.

**1. INTRODUCTION**

This software specification documents full set of features and function for online stock maintenance system that is performed in company website. In this we give specification about the customer orders. It tells the usability, reliability defined in use case specification.

**2. OBJECTIVE**

The main objective of the stock maintenance system is to maintain the stock. It provides the vendor to maintain the stock in an precise manner.

**3. OVERVIEW**

The overview of the project is to design an online tool for the recruitment process which eases the work for the customer as well as the companies. Companies can create their company forms according to their wish in which the applicant can register.

## 4. GLOSSARY

### TERMS

### DESCRIPTION

CUSTOMER

The customer can have the username and password after login to the system. After login they directed to fill the customer details. And the customer places their order. After placing orders they lead to verify all the details in a single form. Then they places the order successfully.

VENDOR

Vendor has the login id. After login vendor verify the customer details and orders. And maintain the stocks.

DATABASE

Database is used to verify the customer details and orders.

SOFTWARE REQUIREMENT  
SPECIFICATION

This software specification documents full set of features and function for stock maintenance system that is performed in company website.

## 5. PURPOSE

The purpose of stock maintenance system is to maintain the stock in an precise manner.

## 6. SCOPE

The scope of this stock maintenance system is to maintain the stock.

## 7. FUNCTIONALITY

The main functionality of the stock maintenance system is to maintain the stock.

## 8. USABILITY

User interface makes the stock maintenance system to be efficient. That is the system will help the customer to place the details and orders easily and helps the vendor to maintain the stock accurate. The system should be user friendly.

## 9. PERFORMANCE

It describes the capability of the system to maintain the stock without any loss of stock and performing it efficiently.



## 10. RELIABILITY

The stock maintenance system should be able to maintain the stock with correct updates from day to day placement of new orders from customer.

## 11. FUNCTIONAL REQUIREMENTS

Functional requirements are those refer to the functionality of the system. That is the services that are provided to the customer who places the orders.

## UML DIAGRAMS

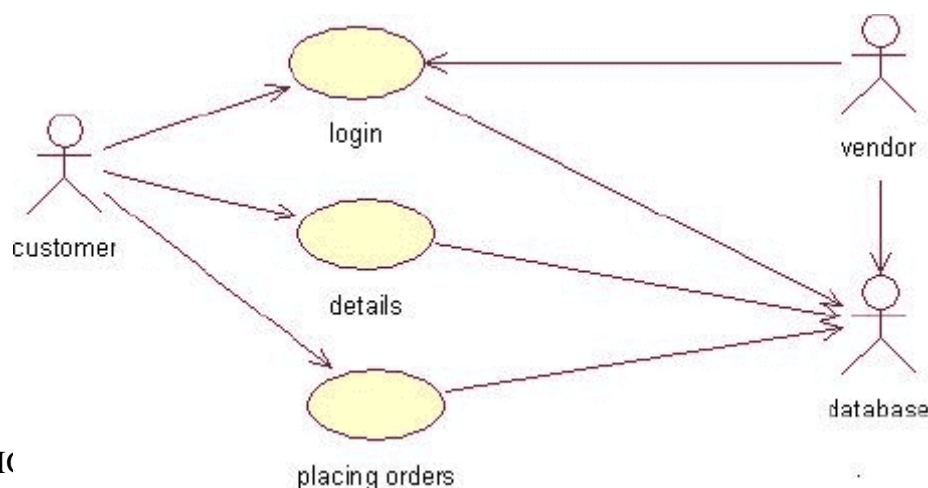
The following UML diagrams describe the process involved in the online recruitment system

- a. Use case diagram
- b. Class diagram
- c. Sequence diagram
- d. Collaboration diagram
- e. State chart diagram
- f. Activity diagram
- g. Component diagram
- h. Deployment diagram
- i. Package diagram

## USE CASE DIAGRAM

A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. The use case is made up of a set of possible sequences of interactions between systems and users in a particular environment and related to a particular goal. It is represented using ellipse.

Actor is any external entity that makes use of the system being modeled. It is represented using stick figure.



## DOCUMENTATION OF USE CASE DIAGRAM

The actors in this use case diagram are customer, vendor and database. The use cases are the activities performed by actors.

### 1. CUSTOMER:

- a. Customer logs in to the particular system and fills the customer details and places the orders.

### 2. DATABASE:

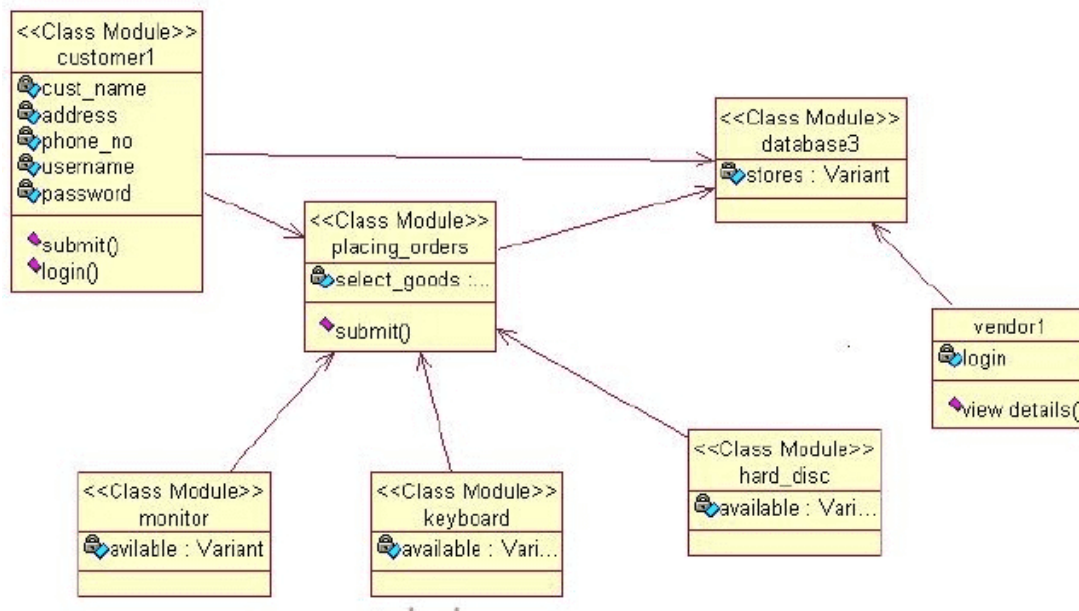
- a. All the details and orders given by customer are updated in the database.

### 3. VENDOR:

- a. Vendor logs in and verify the customer orders and the stock details.

## CLASS DIAGRAM

A class diagram in the unified modeling language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, and the relationships between the classes. It is represented using a rectangle with three compartments. Top compartment have the class name, middle compartment the attributes and the bottom compartment with operations.



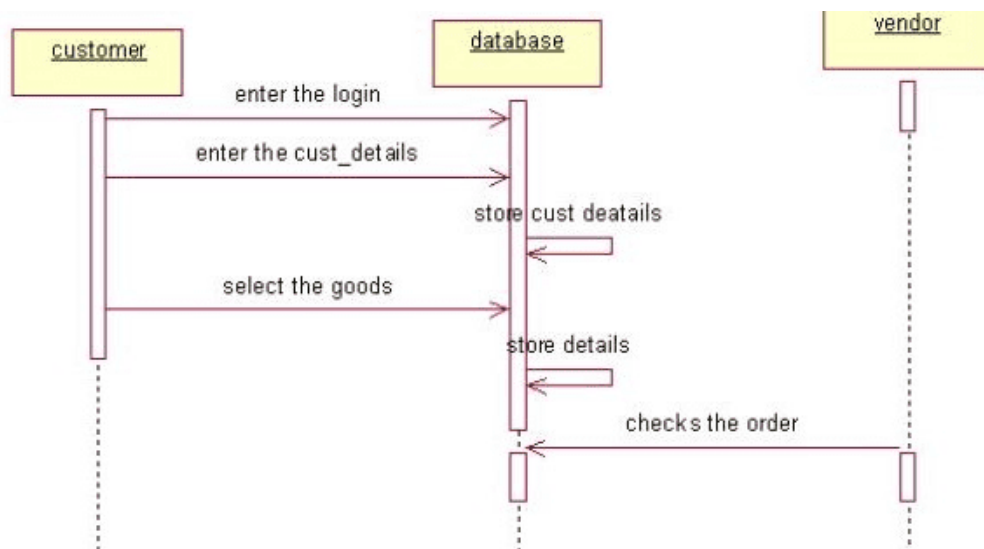
## DOCUMENTATION OF CLASS DIAGRAM

1. This class diagram has three classes' customer, vendor and database.
  - a. **Customer** – is the class name. Its attributes are username, password, name, phone no and address. The operations performed in the customer class are login and places the orders.
  - b. **Vendor** – is the class name. Its attributes are views the database.
  - c. **Database** – is the class name. The operations performed are storing customer details, and their orders.

## SEQUENCE DIAGRAM

A sequence diagram in Unified Modeling Language (UML) is a kind of interaction diagram that shows how processes operate with one another and in what order. It is a construct of a Message Sequence Chart. There are two dimensions.

1. Vertical dimension-represent time.
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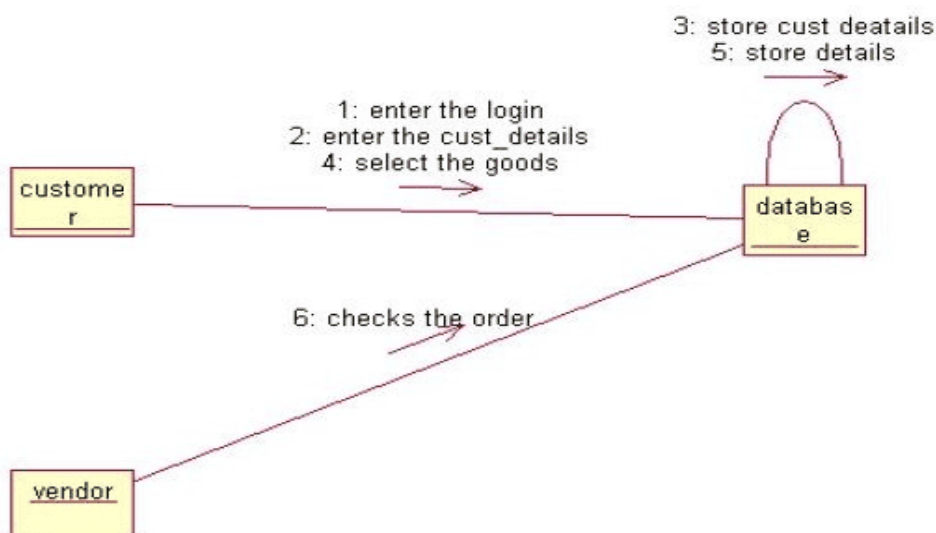
## DOCUMENTATION OF SEQUENCE DIAGRAM

The sequence diagram describes the sequence of steps to show

- The customer login in to the system and fills the customer details.
- Then the customer places the order. It updated to the database.
- The vendor login to the system and views the customer orders and the stock details.

## COLLABRATION DIAGRAM

A collaboration diagram, also called a communication diagram or interaction diagram,. A sophisticated modeling tool can easily convert a collaboration diagram into a sequence diagram and the vice versa. A collaboration diagram resembles a flowchart that portrays the roles, functionality and behavior of individual objects as well as the overall operation of the system in real time

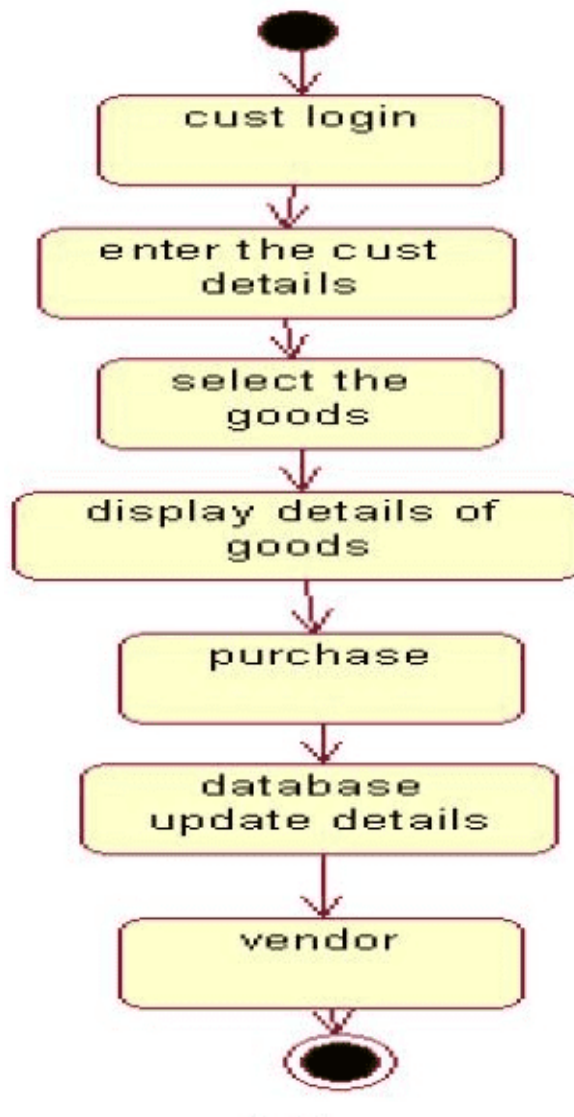


## DOCUMENTATION OF COLLABRATION DIAGRAM

The collaboration diagram is to show how the customer login and places the orders in the system. Here the sequence is numbered according to the flow of execution.

## STATE CHART DIAGRAM

The purpose of state chart diagram is to understand the algorithm involved in performing a method. It is also called as state diagram. A state is represented as a round box, which may contain one or more compartments. An initial state is represented as small dot. An final state is represented as circle surrounding a small dot.



## DOCUMENTATION OF STATE CHART DIAGRAM

This state diagram describes the behavior of the system.

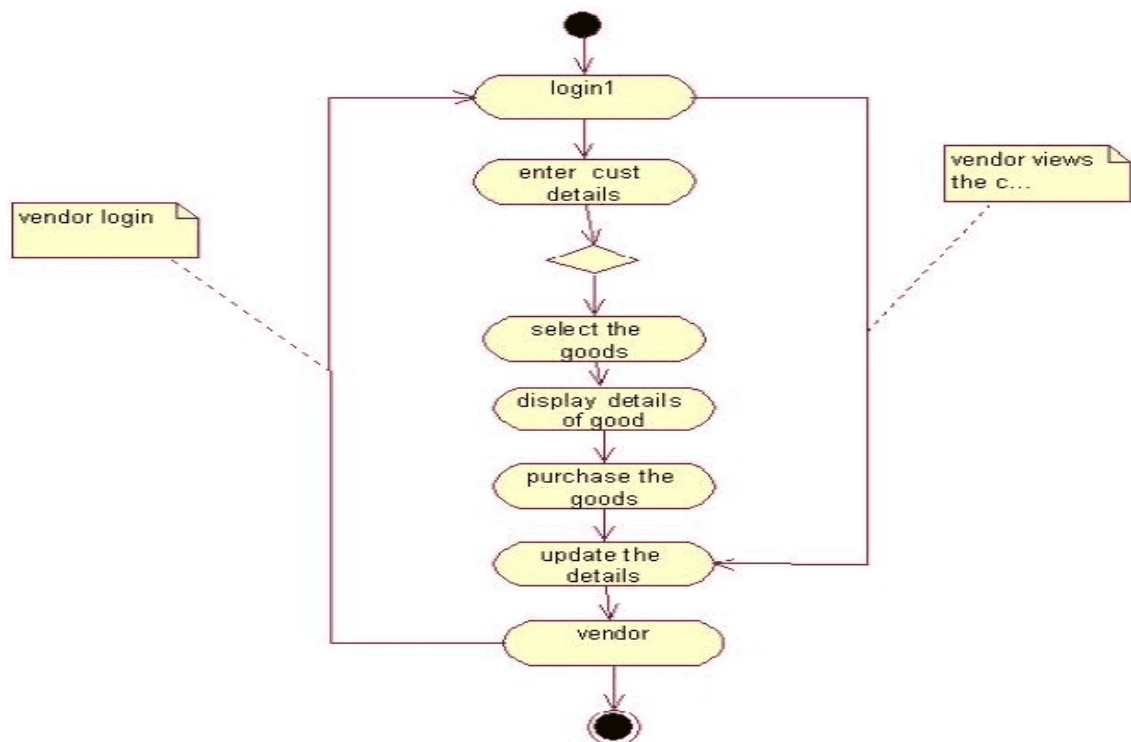
- First state is login where the customer login to the system.
- The next state is to fill the customer details.
- And the next state is to place the orders.

Update database with the orders and details of customer

## ACTIVITY DIAGRAM

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control.

An activity is shown as an rounded box containing the name of the operation.



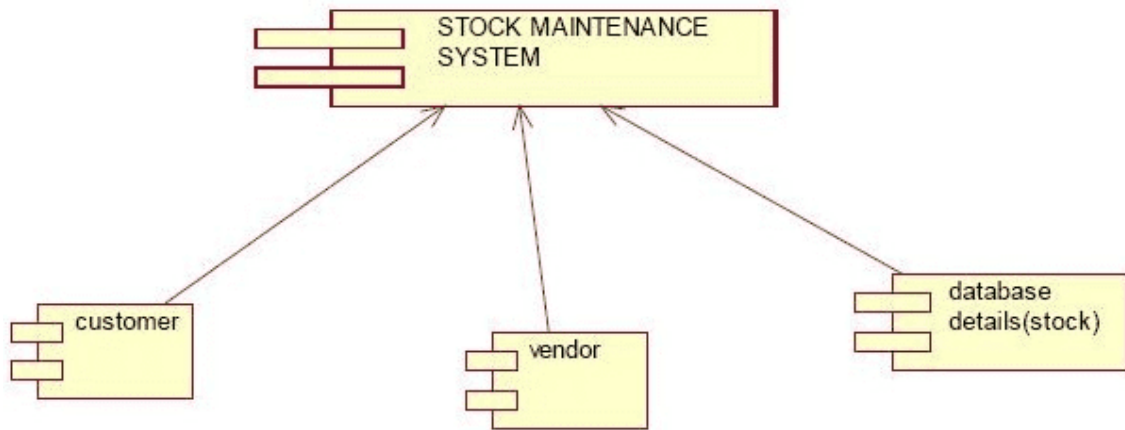
## DOCUMENTATION OF ACTIVITY DIAGRAM

This activity diagram flow of stepwise activities performed in stock maintenance system. First the customer login then fills the details.

- The customer places the order according to their needs.
- After placing the order the database is updated.
- Vendor login to the system and verifies the customer orders and stock details.

## COMPONENT DIAGRAM

The component diagram's main purpose is to show the structural relationships between the components of a systems. It is represented by boxed figure. Dependencies are represented by communication association.



## DOCUMENTATION OF COMPONENT DIAGRAM

The main component in this component diagram is stock maintenance systems. And customer database details and update database then vendor views the database are the components comes under the main component.

## DEPLOYMENT DIAGRAM

A deployment diagram in the unified modeling language serves to model the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3-dimensional box. Dependencies are represented by communication association.

## DOCUMENTATION OF DEPLOYMENT DIAGRAM

The processor in this deployment diagram is the stock maintenance system which is the main part and the devices are the filling customer details and placing orders then vendor views which are the some of the main activities performed in the system.



## PACKAGE DIAGRAM

A package diagram in unified modeling language that depicts the dependencies between the packages that make up a model. A Package Diagram (PD) shows a grouping of elements in the OO model, and is a Cradle extension to UML. PDs can be used to show groups of classes in Class Diagrams (CDs), groups of components or processes in Component Diagrams (CPDs), or groups of processors in Deployment Diagrams (DPDs).

There are three types of layer. They are

### 1. User interface layer

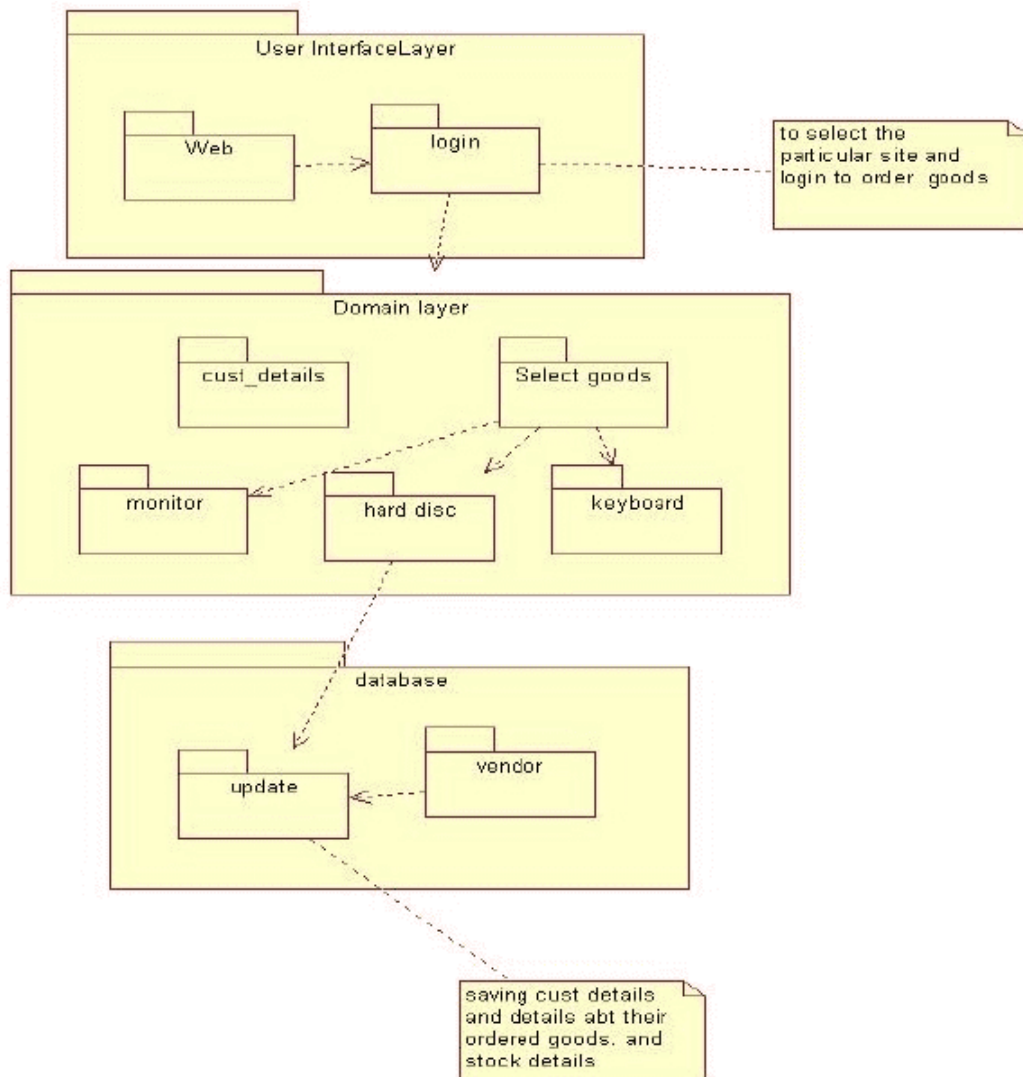
Software objects representing domain concepts that fulfill application requirements, such as calculation of a sale total.

## 2. Domain layer

Layer that contains domain objects to handle application logic work

## 3. Technical services layer

General purpose object and sub system that provide supporting technical services, such as interfacing with a database logging





## DOCUMENTATION OF PACKAGE DIAGRAM

The three layers in the online recruitment system are

- **The User interface layer** - consists of the web and login. This layer describes how the applicant logs in to the website and places the order.
- **The Domain layer** – shows the activities that are performed by the customer to place the orders.
- **The Technical service layer** - the vendor logs in and verifies the customer orders and stock details

FOR  
MS  
FOR  
M 1

The screenshot shows a Windows-style window titled "Form9". The background is a light beige color. At the top center, the word "LOGIN" is displayed in a large, black, sans-serif font. Below this, there are two input fields. The first is labeled "USER NAME" on the left and contains the text "prem". The second is labeled "PASS WORD" on the left and contains the text "password". Below the input fields, there are three buttons arranged horizontally: "VENDOR", "CUSTOMER", and "EXIT". Each button is a light beige rectangle with a thin black border. The window has a blue title bar with standard Windows window controls (minimize, maximize, close) on the right side.

**FORM 2**

The image shows a screenshot of a Windows application window titled "Form1". The window has a blue title bar with standard minimize, maximize, and close buttons. The main content area has a light beige background and is titled "CUSTOMER DETAILS" in a large, bold, italicized black font. Below the title, there are three input fields arranged vertically. The first field is labeled "CUSTOMER NAME" and contains the text "pre". The second field is labeled "ADDRESS" and contains the text "Ennore". The third field is labeled "PHONE NUMBER" and contains the text "984073421". At the bottom of the form, there are two buttons: "SUBMIT" on the left and "EXIT" on the right.

<b><i>CUSTOMER DETAILS</i></b>	
CUSTOMER NAME	pre
ADDRESS	Ennore
PHONE NUMBER	984073421
<div><div>SUBMIT</div><div>EXIT</div></div>	

**FORM 3**

The screenshot shows a Windows-style window titled "Form3" with a blue title bar. The main area is a light beige form titled "MONITOR" in large black letters. Below the title, there are two columns: "AVAILABLE" and "REQUIRED".

	AVAILABLE	REQUIRED	
ACER	<input type="text" value="50"/>	<input type="text" value="5"/>	<input type="button" value="DONE"/>
SAMSUNG	<input type="text" value="50"/>	<input type="text" value="5"/>	<input type="button" value="DONE"/>

At the bottom left, there is a navigation bar with four arrows (left, right, first, last) and the text "Adodc1". At the bottom center, there is a  button.

**FORM 4**

Form4

## HARD DISC

	AVAILABLE	REQUIRED	
TRANSCEND	<input type="text" value="50"/>	<input type="text" value="5"/>	<input type="button" value="DONE"/>
KINGSTON	<input type="text" value="50"/>	<input type="text" value="5"/>	<input type="button" value="DONE"/>

Adodc1

**FORM 5**

Form5

# KEYBOARD

	AVAILABLE	REQUIRED	
LOGITECH	50	5	DONE
LG	50	5	DONE

Adodc1

BACK

**FORM 6**

**Form6**

CUSTOMER NAME	<input type="text" value="prem"/>
ADDRESS	<input type="text" value="ennur"/>
PHONE NO	<input type="text" value="9840743280"/>
GOODS NAME	<input type="text" value="HARD DISC"/>
COMPANY NAME	<input type="text" value="KINGSTON"/>
QUANTITY	<input type="text" value="5"/>

## FORM 7

Form7

*ORDERED SUCCESSFULLY*

EXIT

## FORM 8

Form8

STOCK MAINTANENCE

GOODS	COMPANY NAME	TOTAL STOCK	AVAILABLE STOCK	PRICE
MONITOR	ACER	50	45	10,000
MONITOR	SAMSUNG	50	45	9,000
HARDDISC	TRANSEND	50	45	5,000
HARDDISC	KINGSTON	50	45	6,000
KEYBOARD	LOGITECH	50	45	400
KEYBOARD	LG	50	45	450

EXIT

Adodc1 Adodc2 Adodc3

## RESULT

Thus the project stock maintenance system using Rational Rose Software and implement the software in Visual Basic is executed successfully.

**EXPERIMENT 4b****STOCK MAINTENANCE SYSTEM****AIM**

To develop a project Stock Maintenance system using Rational Rose Software and to implement the software in Java.

**PROBLEM ANALYSIS AND PROJECT PLANNING**

Stock Maintenance gives an idea about how products are maintained in the particular concern. The products that are to be purchased, the products that are to be sold are maintained here. This project also gives idea about the faults in the purchased product and the products that are to be replaced also been given. Further some additional details of the current stock that is available in the store are also given. Stock maintenance in this project is done in an authorized way. The password and user id has been set here. As a whole the marketing process can be improved if the stock is maintained properly.

**PROBLEM STATEMENT**

The stock has to be maintained properly since the whole marketing process can be improved. Stock maintenance in this project gives the idea about how products are maintained in a particular concern. The stock details which includes the amount of stock available, the stock is to be purchased, the date or the time it is being bought or delivered, the amount that is already available are maintained in this project. Stock maintenance system the stock maintenance in this project is understood by going through the modules that is being involved. The whole economic status is being improved properly if stock is maintained.

**SOFTWARE REQUIREMENT SPECIFICATION****1. INTRODUCTION**

Stock Maintenance gives an idea about how products are maintained in the particular concern. The products that are to be purchased, the products that are to be sold are maintained here. This project also gives idea about the faults in the purchased product and the products that are to be replaced also been given. Further some additional details of the current stock that is available in the store is also given. Stock maintenance in this project is done in an authorized way.

**2. OBJECTIVE**

The main objective of this project is to overcome the work load and time consumption which makes the maintenance of the stock in an organization as a tedious process. This project provides complete information about the details of the stock to the users. This project identifies the amount of stock available, the product that is purchased faults in the product, products that are replaced, products that have been sold, and the date at which the products are bought and sold in a particular concern. Separate modules have been created for



### 3. OVERVIEW

The overview of the project is to Storing of information about the stock values and updating the stock values for each organization which is using this system, keeps track of all the information about the stock exchange that are made by the customers, having registration feature of adding up new customers to the organization are provided in this system.

### 4. GLOSSARY

#### TERMS

#### DESCRIPTION

#### SUPPLIER

Supplier will get order from the store keeper and he will supply the stock as ordered.

#### STORE KEEPER

Store keeper will purchase the supplies from the supplier and will be updating the stock details in the database.

#### DATABASE

Database is used to store the details of stock.

#### ADMIN

Handles all the support features and the technical works in the application.

#### SOFTWARE REQUIREMENT SPECIFICATION

This software specification documents full set of features and function for stock management system that is performed in application.

### 5. PURPOSE

The purpose of stock management system is to store and maintain the stock details in a store effectively.

## **6. SCOPE**

The scope of this Stock maintenance is to maintain the stock details after the purchase and re stocking from the supplier.

## **7. FUNCTIONALITY**

The main functionality of stock maintenance system is to store the stock details for a store.

## **8. USABILITY**

User interface makes the stock maintenance system to be efficient. That is the system will help the admin to maintain stock details easily and helps the store to handle the stocks effectively. The system should be user friendly.

## **9. PERFORMANCE**

It describes the capability of the system to perform the stock maintenance system of the store without any error and performing it efficiently.

## **10. RELIABILITY**

The stock maintenance system should be able to serve the store keeper with correct information and day-to-day update of stock details.

## **11. FUNCTIONAL REQUIREMENTS**

Functional requirements are those refer to the functionality of the system. That is the services that are provided to the storekeeper who maintains stocks in a store.

## **UML DIAGRAMS**

The following UML diagrams describe the process involved in the stock maintenance system

- a. Use case diagram
- b. Class diagram
- c. Sequence diagram

- d. Collaboration diagram
- e. State chart diagram
- f. Activity diagram
- g. Component diagram
- h. Deployment diagram
- i. Package diagram

## USE CASE DIAGRAM

A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. The use case is made up of a set of possible sequences of interactions between systems and users in a particular environment and related to a particular goal. It is represented using ellipse.

Actor is any external entity that makes use of the system being modelled. It is represented using stick figure.

## DOCUMENTATION OF USE CASE DIAGRAM

The actors in this use case diagram are Supplier, Store Keeper and Database. The usecases are the activities performed by actors.

- a. Supplier will supply the items according to the quotation which will be purchased by the store keeper.
  - b. Store keeper will login and update the stock in the database.
  - c. The database will be updated according to the purchase done and it will be up to date.
2. The use cases in the use case diagram are Quotation & Purchase, login, stock, purchase.
- a. Quotation & Purchase will gives us the status of the quotation details and the purchase order details
  - b. Login will gives us the entry for the user of this project.
  - c. Stock will gives us the details about the total stock available.
  - d. Purchase will gives us the details about the details and the history of items purchased.

## CLASS DIAGRAM

A class diagram in the unified modeling language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, and the relationships between the classes. It is represented using a rectangle with three

compartments. Top compartment have the class name, middle compartment the attributes and the bottom compartment with operations.

## DOCUMENTATION OF CLASS DIAGRAM

1. This class diagram has three classes applicant, recruiter and database.
  - a. **Supplier** – is the class name. Its attributes are id, name, address and payment mode. The operations performed in the Supplier class are get order, supply goods and get money.
  - b. **Storekeeper** – is the class name. Its attributes are id, name, Dob, Designation, salary, user id and password. The operations performed are check stock, give order, receive goods and give money.
  - c. **Database** – is the class name. Its attributes are product name, license, expiry date and updates. The operations performed are store details, update, insert, delete, verify and display.
  - d. **Admin** – is the class name. Its attributes are id, name, Dob, user id and password. The operations performed are update the s/w, troubleshoot and manage the queries.

## SEQUENCE DIAGRAM

A sequence diagram in Unified Modeling Language (UML) is a kind of interaction diagram that shows how processes operate with one another and in what order. It is a construct of a Message Sequence Chart. There are two dimensions.

1. Vertical dimension-represent time.
2. Horizontal dimension-represent different objects.

## DOCUMENTATION OF SEQUENCE DIAGRAM

The sequence diagram describes the sequence of steps to show

- a. The store keeper checks the stock.
- b. Gives order to the supplier.
- c. Supplier supplies the goods.
- d. Store keeper checks the goods.
- e. Database provides user id and pass.
- f. Store keeper updates the stock and stores it in database.
- g. Pay money to the Supplier.

## COLLABORATION DIAGRAM

A collaboration diagram, also called a communication diagram or interaction diagram,. A sophisticated modeling tool can easily convert a collaboration diagram into a sequence diagram and the vice versa. A collaboration diagram resembles a flowchart that portrays the roles, functionality and behavior of individual objects as well as the overall operation of the system in real time

## DOCUMENTATION OF COLLABORATION DIAGRAM

The first collaboration diagram is to show how the applicant login and storing stock details in the stock maintenance system. Here the sequence is numbered according to the flow of execution.

## STATE CHART DIAGRAM

The purpose of state chart diagram is to understand the algorithm involved in performing a method. It is also called as state diagram. A state is represented as a round box, which may contain one or more compartments. An initial state is represented as small dot. A final state is represented as circle surrounding a small dot.



## DOCUMENTATION OF STATE CHART DIAGRAM

This state diagram describes the behavior of the system.

- a. First state is login where the storekeeper login to the stock maintenance system.
- b. The next state is check the stock followed by giving order.
- c. Then purchase the goods.
- d. The store keeper check the goods.
- e. Update database with goods purchased.
- f. Pay money for the purchased goods.

## ACTIVITY DIAGRAM

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified

Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control. An activity is shown as an rounded box containing the name of the operation.

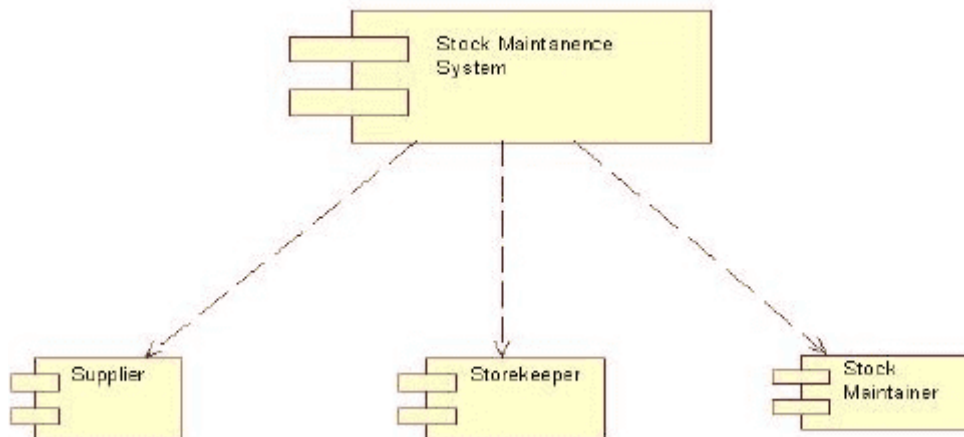
## DOCUMENTATION OF ACTIVITY DIAGRAM

This activity diagram flow of stepwise activities performed in recruitment system.

- a. First the storekeeper login then checks stock.
- b. The stock details are verified and the order is given.
- c. Goods are purchased.
- d. Products are checked.
- e. Update the stock details in the database.

## COMPONENT DIAGRAM

The component diagram's main purpose is to show the structural relationships between the components of a systems. It is represented by boxed figure. Dependencies are represented by communication association.



Stock Maintenance system purchase verify store

## DOCUMENTATION OF COMPONENT DIAGRAM

The main component in this component diagram is stock maintenance systems. And Supplier, storekeeper and database are the components come under the main component.

## DEPLOYMENT DIAGRAM

A deployment diagram in the unified modeling language serves to model the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3-dimensional box. Dependencies are represented by communication association.

## DOCUMENTATION OF DEPLOYMENT DIAGRAM

The processor in this deployment diagram is the stock maintenance system which is the main part and the devices are the purchase, verify and store which are the some of the main activities performed in the system.

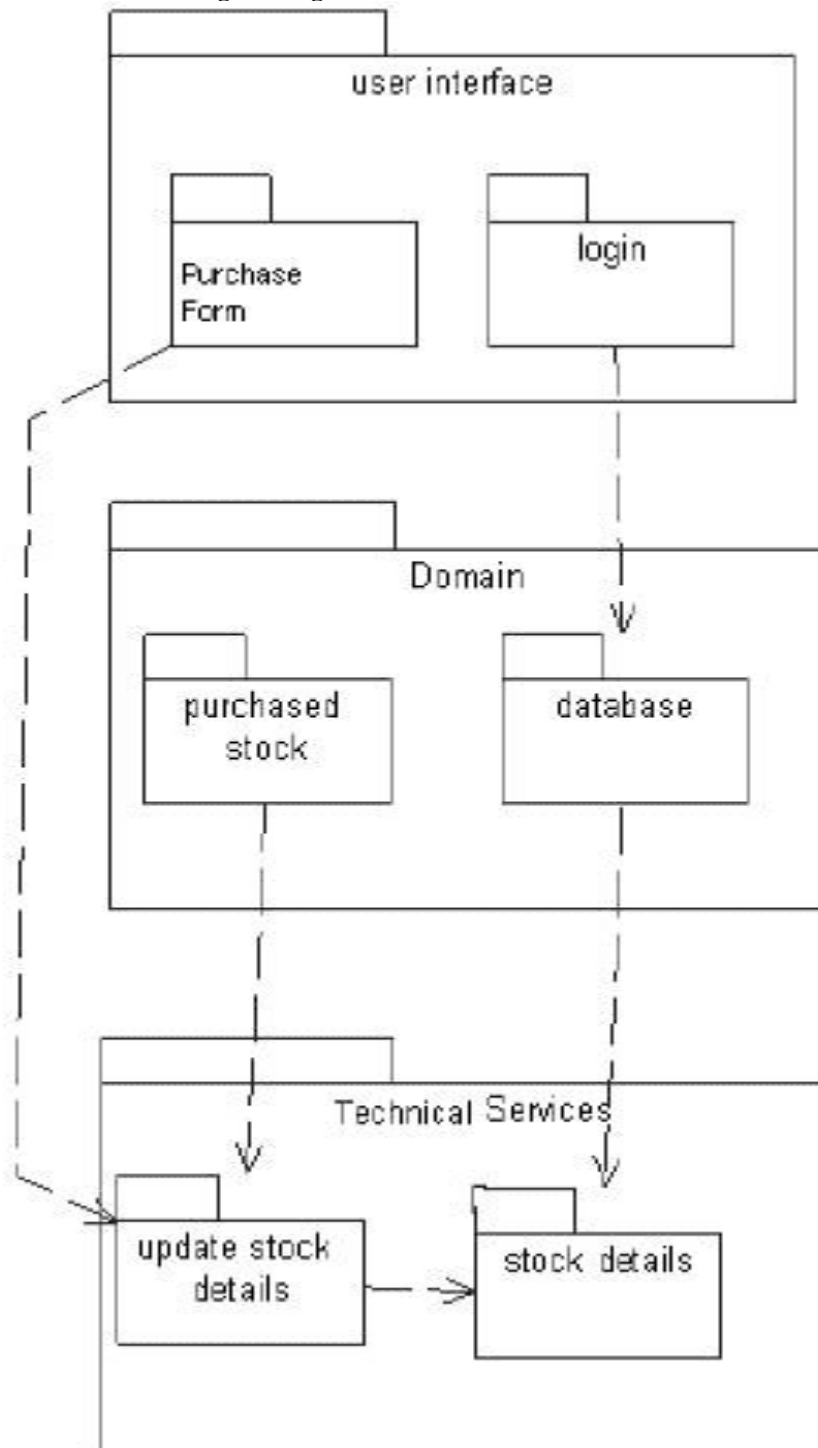
## PACKAGE DIAGRAM

A package diagram in unified modeling language that depicts the dependencies between the packages that make up a model. A Package Diagram (PD) shows a grouping of elements in the OO model, and is a Cradle extension to UML. PDs can be used to show groups of classes in Class Diagrams (CDs), groups of components or processes in Component Diagrams (CPDs), or groups of processors in Deployment Diagrams (DPDs).

There are three types of layer. They are

- a. **User interface layer:** consists of the form and login. This layer describes how the storekeeper logins and maintains the stock.
- b. **Domain layer:** shows the activities that are performed in the stock maintenance system. The activities are purchased stock, database verification.
- c. **Technical services layer:** the update stock details, verification stock details and stored in the database.



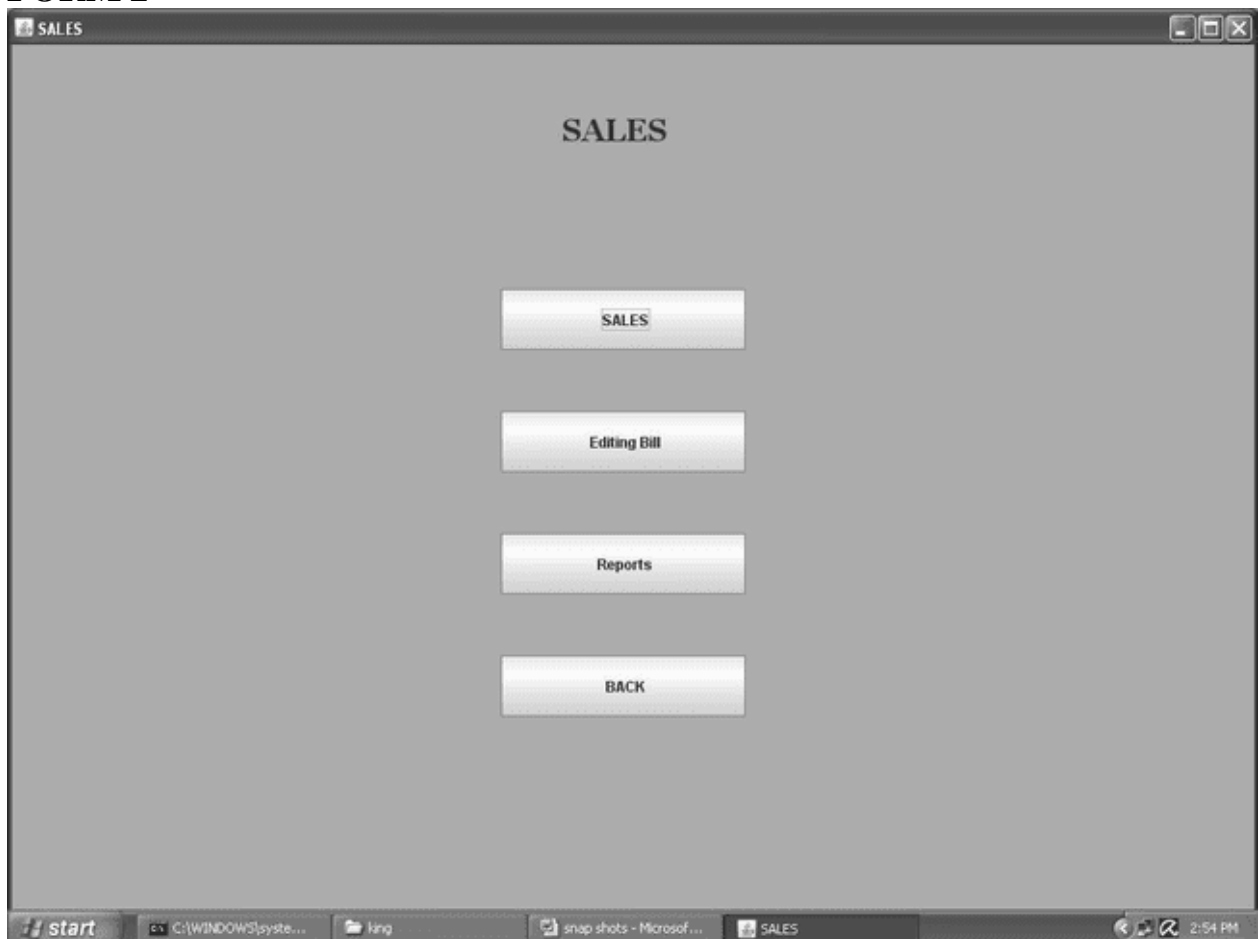


## FORMS

### FORM 1




The screenshot shows a window titled "STOCK MAINTENANCE SYSTEM". The main area is labeled "HOME". Below this, there are two radio buttons: "SALES" (which is selected) and "PURCHASING". At the bottom, there are two buttons: "EXIT" and "NEXT".

**FORM 2**

The screenshot shows a window titled "SALES". The main area is labeled "SALES". Below this, there are four buttons arranged vertically: "SALES", "Editing Bill", "Reports", and "BACK". The Windows taskbar at the bottom shows the start button, several open applications (including "C:\WINDOWS\system...", "king", "snap shots - Microsof...", and "SALES"), and the system clock showing "2:54 PM".

**FORM 3**

[illegible]**FORM 4**[illegible]**FORM 5**

[illegible]**FORM 6**

**PURCHASING**

## PURCHASING DETAILS

- LAPTOP**
- DESKTOP
- PHERIPERLS
- REPORTS
- BACK

start C:\WINDOWS\... sms snap shots - M... Notepad Database (...) PURCHASING 3:03 PM

**FORM 7**

**REPORTS**

**REPORT FOR PURCHASING**

SELECT ANY ONE WISE: **By STOCK**

TYPE: **PHERE**

Enter The Model: **lcd**

**BACK** **Generate** **New Report**

## FORM 8

**Report**

**Report By Stock for peripherals**

Model	Stock
lcd	20

**Print** **New Report**

## RESULT

Thus the project to develop Stock Maintenance system using Rational Rose Software and to implement the software in Java is done successfully.

## **EXPERIMENT 5**

### **ONLINE COURSE RESERVATION SYSTEM**

#### **AIM**

To design an object oriented model for course reservation system.

#### **PROBLEM ANALYSIS AND PROJECT PLANNING:**

The requirement form the customer is got and the requirements about the course registration are defined. The requirements are analyzed and defined so that is enables the student to efficiency select a course through registration system. The project scope is identified and the problem statement is prepared.

#### **PROBLEM STATEMENT**

- a. Whenever the student comes to join the course he/she should be provided with the list of course available in the college.
- b. The system should maintain a list of professor who is teaching the course. At the end of the course the student must be provided with the certificate for the completion of the course.

#### **SYSTEM REQUIREMENT SPECIFICATION**

##### **GLOSSARY**

Generally a glossary is performed to define the entire domain used in the problem. It defines about the storage items that are familiar to the uses it provided these definitions and information about the attribute we are using in the particular project to the use,

##### **DEFINITIONS**

The glossary contain the working definition for the key concept in the course registration system

##### **COURSE**

The course which are offered by the institution

##### **COURSE CATALOG**

The un a bridged for all the course offered by the institution.

##### **GRADE**

The ranking of a particular student for a particular course offered

##### **PROFESSOR**

A person who reaches the course

## **CERTIFICATE**

It is the proof for the completion the course

## **REGISTER**

One who register the course for the student

## **OBJECTIVES**

- a. The main purpose of creating the document about the software is to know about the list of the requirement in the software project part of the project to be developed.
- b. It specifies the requirement to develop a processing software part that completes the set of requirement.

## **SCOPE**

- a. In this specification, we define about the system requirements that are about from the functionality of the system.
- b. It tells the users about the reliability defined in usecase specification

## **FUNCTIONALITY**

Many members of the process line to check for its occurrences and transaction, we are have to carry over at sometimes

## **USABILITY**

The user interface to make the transaction should be effectively

## **PERFORMANCE**

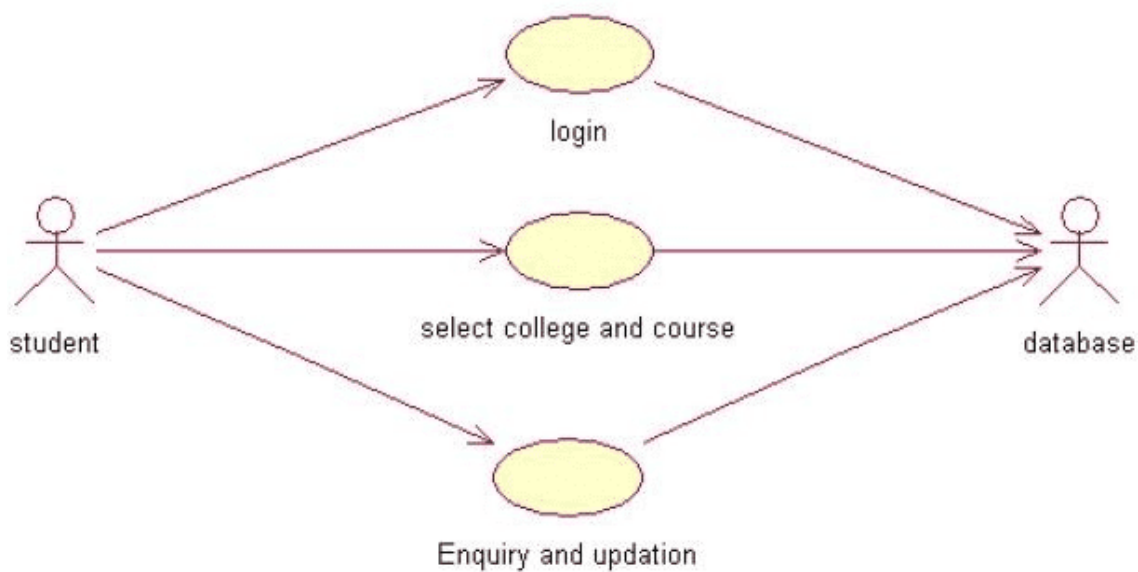
It is the capability about which it can performed function for many user at sometimes efficiently (ie) without any ever occurrences

## **RELIABILITY**

The system should be able to the user through the day to day transaction

## USERCASE DIAGRAM

- Use case is a sequence of transaction in a system whose task is to yield result of measurable value to individual author of the system
- Use case is a set of scenarios together by a common user goal
- A scenario is a sequence of step describing as interaction between a user and a system





## **DOCUMENTATION FOR USE CASE DIAGRAM**

The use case diagram in the course registration system illustrates the sequence of steps followed in the system related to the actions of the system

### **LOGIN**

This usecase gives a entry to the student,professor and the register

### **SELECT COLLEGE AND COURSE**

This use case list out the various courses offered by the institution

### **SUBMIT GRADES**

This usecase given the marks scored by the system

### **MAINTAIN PROFESSOR INFORMATION**

This usecase maintain the information about professor in the system

### **MAINTAIN STUDENT INFORMATION**

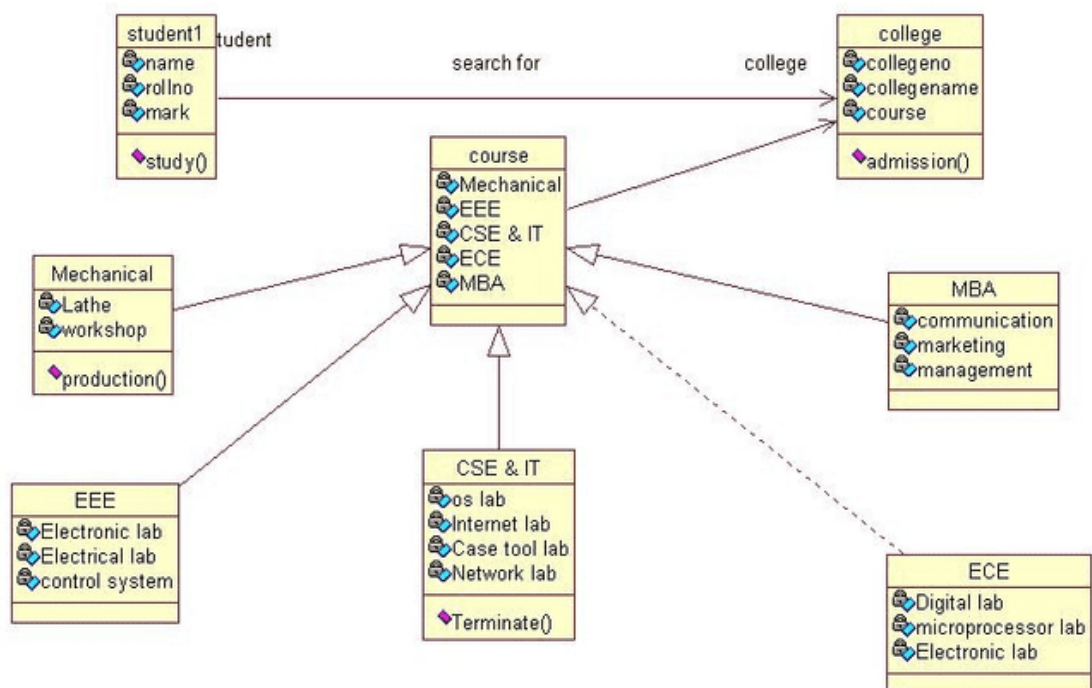
This usecase maintain the information about the professor in the system

### **CLOSE REGISTRATION**

This usecase describes the certification of the student when he/she finishes the course

## CLASS DIAGRAM:

A class diagram describes the type of objects in the system the various kinds of static relationship that exist among them.

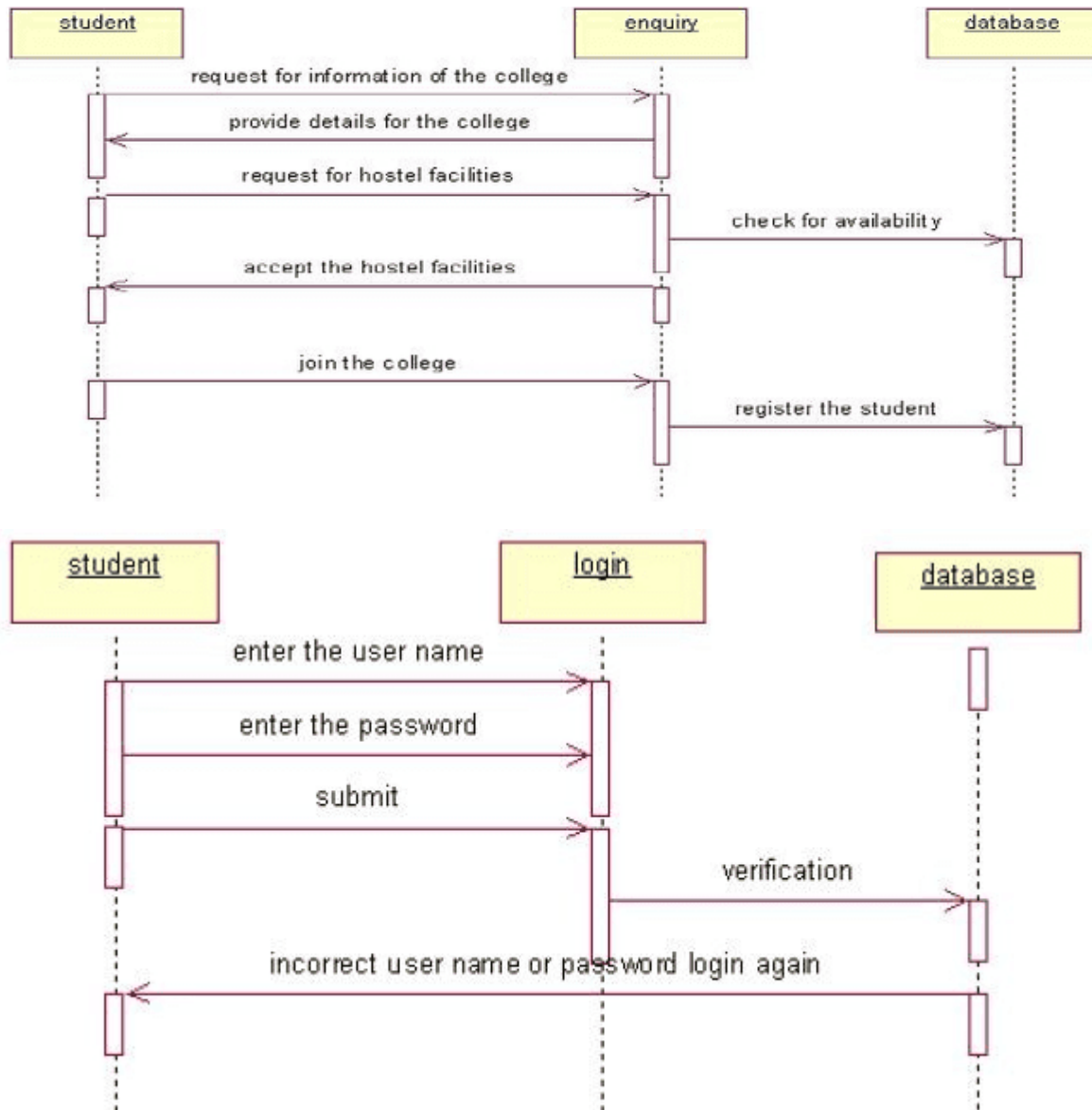


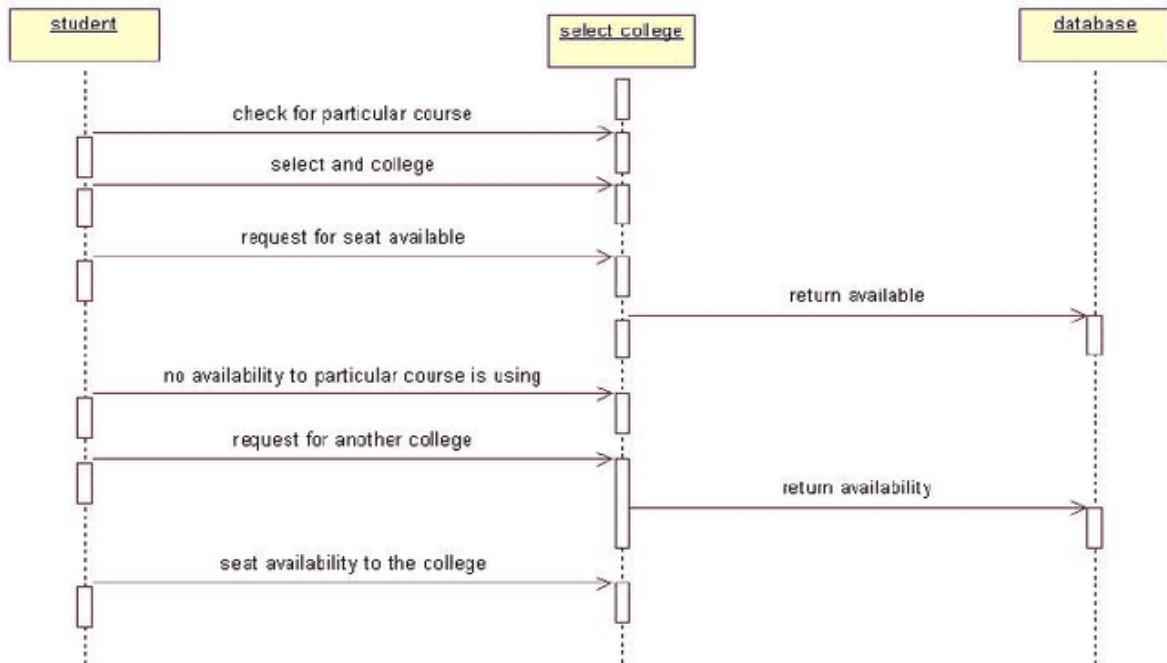
## DOCUMENTATION OF CLASS DIAGRAM

- The various classes involved in the system are registered student record, professor record all administration grade and close registration
- The student register for the course
- After the course gets over each student will be asked to write a test
- Test mark are analyzed for the issue grade sheet after certification the registration of the student in closes.

## SEQUENCE DIAGRAM

A sequence diagram is one that includes the object of the projects and tells the lifetimes and also various action performed between objects.



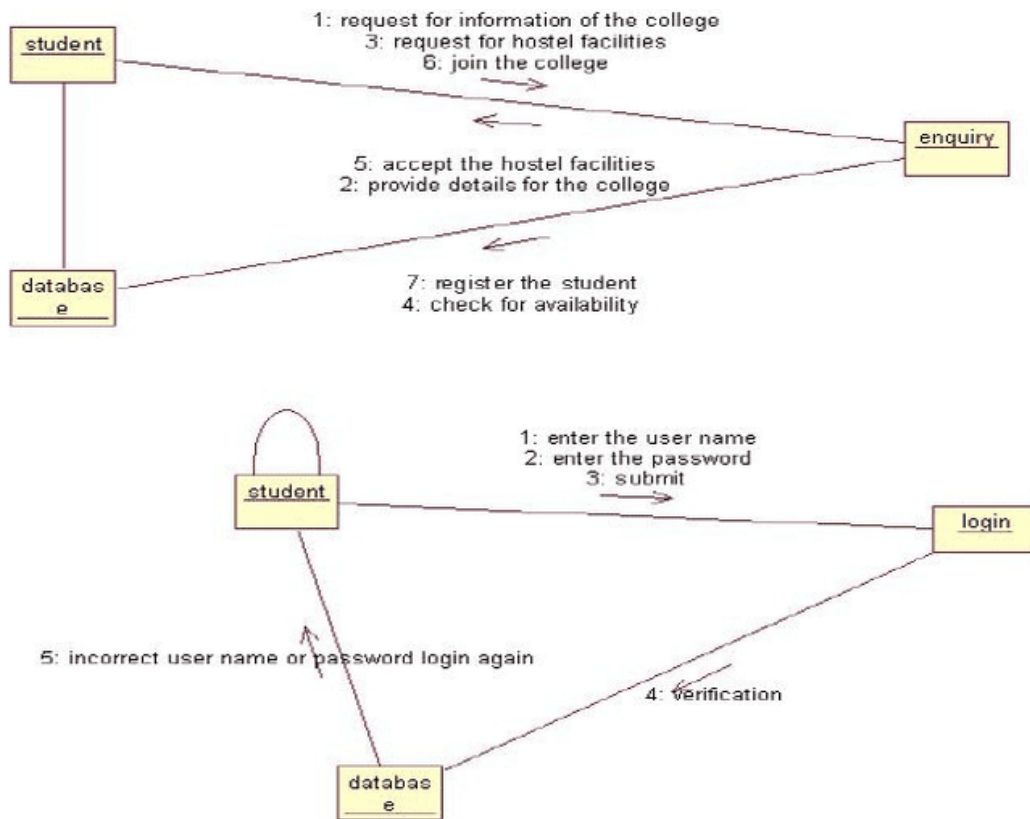


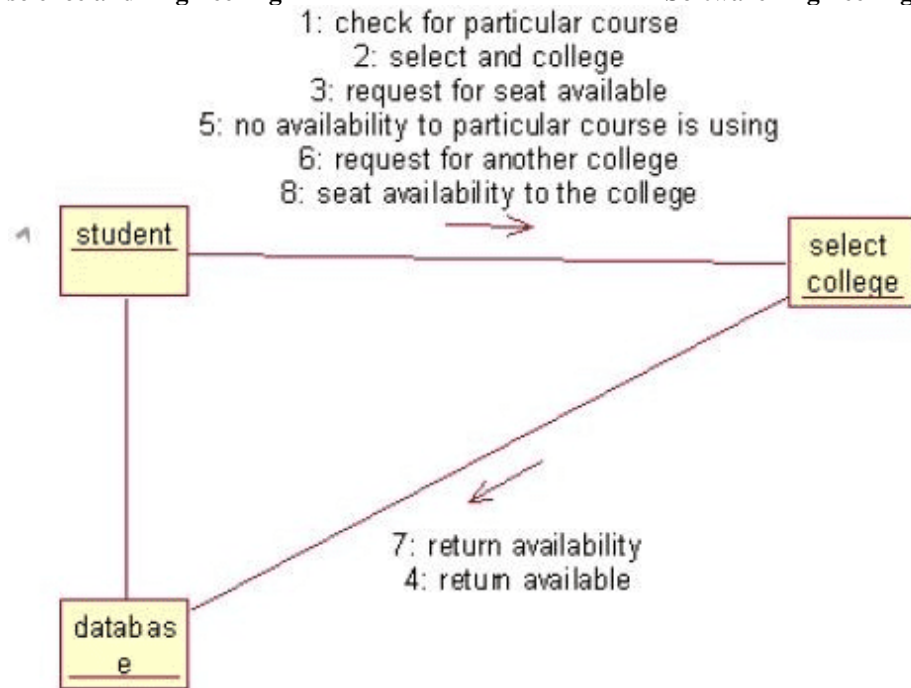
## DOCUMENTATION OF SEQUECE DIAGRAM

- The single use case in the course registration is taken and sequence of operation followed in the usecase
- In the registration for the course usecase diagram illustration on the process of registering and select a course
- The student enters the institution and gets a catalog about the list of course offered by the system
- The student can select a particular usecase and registration for the course
- In the record usecase submit grade at the end of each course each student will be asked to write a test. The result will evaluavate for the issue of grade sheet and the grade are submitted

## COLLABORATION DIAGRAM

It is same as the sequence diagram that involved the project with the only difference that we give the project with the only difference that we give sequence number to each process.



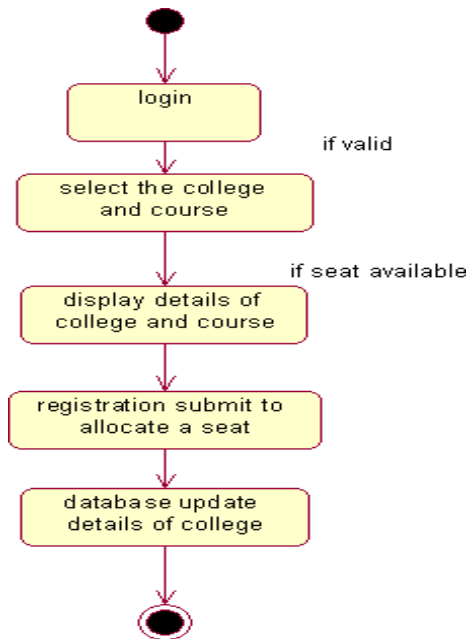


## DOCUMENTATION OF COLLOBORATION DIAGRAM

- The diagram is also similar to sequence diagram but the difference is the various operations involves in the particular use case will be numbered. In this diagram the sequence of steps.
- Getting the catalog to now about the course
- Selecting the course to study
- The final step is to register for the selected course
- In this submit garde usecase the sequence of step is:
- At the end of the course the student will write a test
- The test marks is validated to issue grade sheet
- The certification is done to the student for the particular courses.

## STATE DIAGRAM

It is a technique to describe the behavior of the system. It describes all the possible states that a particular object gets into the object oriented technique. State diagram are drawn for a single class to show to the lifetime behaviour of a single objects

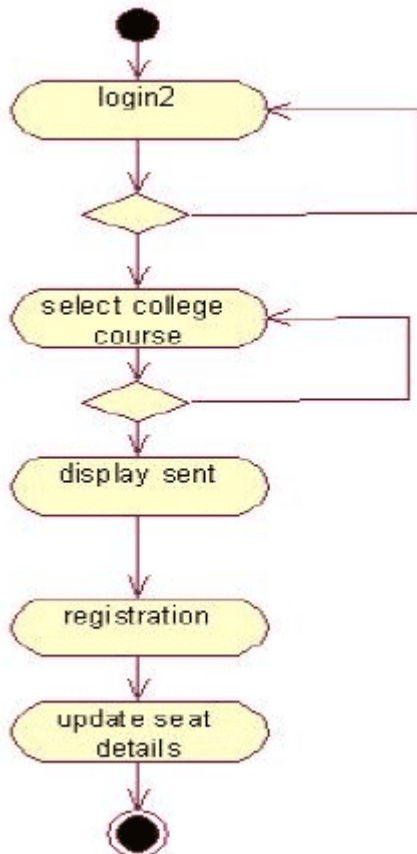


## DOCUMENTATION OF THE STATE DIAGRAM

1. The various states are login student, register for course, maintain student and professor record, submit grade and close registration
2. The state diagram describes the behaviour of the system
3. The main purpose of the system is to register the student for a course
4. After the student enrolls the course maintain the record for the student and professor
5. After the test being conducted each student mark will be analysed for the grade sheet purpose
6. After the certification the registration is closed

## ACTIVIY DIAGRAM

It includes all the activities of particular project and various steps using join and forks



## DOCUMENTATION OF ACTIVITY DIAGRAM

- a. The user login in to the course registration system
- b. He/she select a particular course form the list of available course
- c. After the student register into the course the institution start the bill operation and record is maintain
- d. The professor also start maintains the student record
- e. At the end of the course based on the result grade the grade sheet or certificate is issued to the student
- f. The registration is closed for the particular student

## SOFTWARE DEVELOPMENT AND DEBUGGING

- a. Using rational rose software the software development and debugging is done
- b. This gives the over view of the project by the generation of defition and implementation of packages classes with all the relationship method and constructor



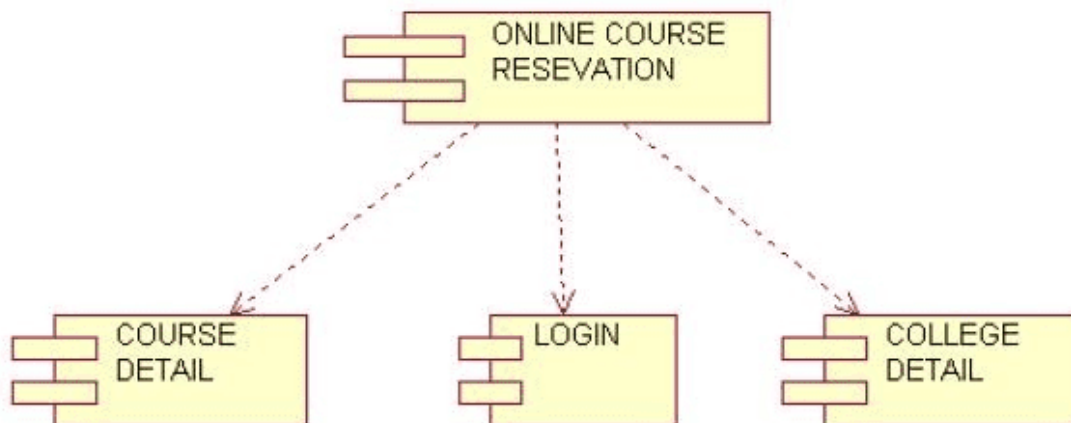
- c. We debug the diagram using log file and rectify the immoral relationship that exist among them and finally produce the project perfect diagram which gives exact print of the project

## SOFTWARE TESTING

- a. In this step we prepare there plan for testing the diagram
- b. We perform the validation for the various data involved into the projects

## COMPONENT DIAGRAM

The component diagram is represented by figure dependency and it is a graph of design of figure dependency. The component diagram's main purpose is to show the structural relationships between the components of a systems. It is represented by boxed figure. Dependencies are represented by communication association



## DOCUMENTATION OF COMPONENT DIAGRAM

- a. The components of the online course reservation are course details, login, and college details
- b. The course details, login and college details are dependent on the online course reservation are show by the dotted arrows

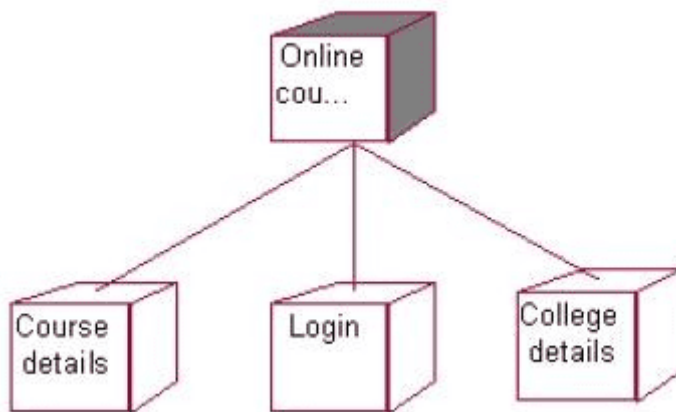
## DEPLOYMENT DIAGRAM

It is a graph of nodes connected by communication association. It is represented by a three dimensional box. A deployment diagram in the unified modeling language serves to model SMGOIH

the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3-dimensional box. Dependencies are represented by communication association. The basic element of a deployment diagram is a node of two types

**DEVICE NODE** – A physical computing resource with processing and memory service to execute software, such as a typical computer or a mobile phone.

**EXECUTION ENVIRONMENT NODE**-- This is a software computing resource that runs within an outer node and which itself provides a service to host an execute other executable software element.



## DOCUMENTATION OF DEPLOYMENT DIAGRAM

The device node is online course reservation and execution nodes are course details, login and college details

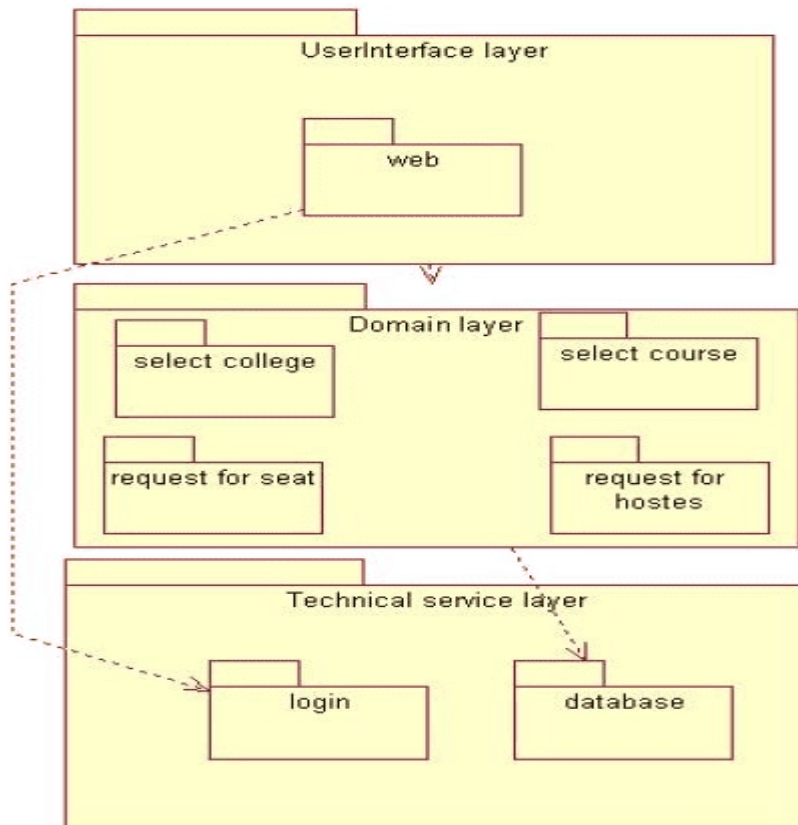
## PACKAGE DIAGRAM

A package diagram is represented as a folder shown as a large rectangle with a top attached to its upper left corner. A package may contain both sub ordinate package

and ordinary model elements. All uml models and diagrams are organized into package. A package diagram in unified modeling language that depicts the dependencies between the packages that make up a model. A Package Diagram (PD) shows a grouping of elements in the OO model, and is a Cradle extension to UML. PDs can be used to show groups of classes in Class Diagrams (CDs), groups of components or processes in Component Diagrams (CPDs), or groups of processors in Deployment Diagrams (DPDs).

There are three types of layer. They are

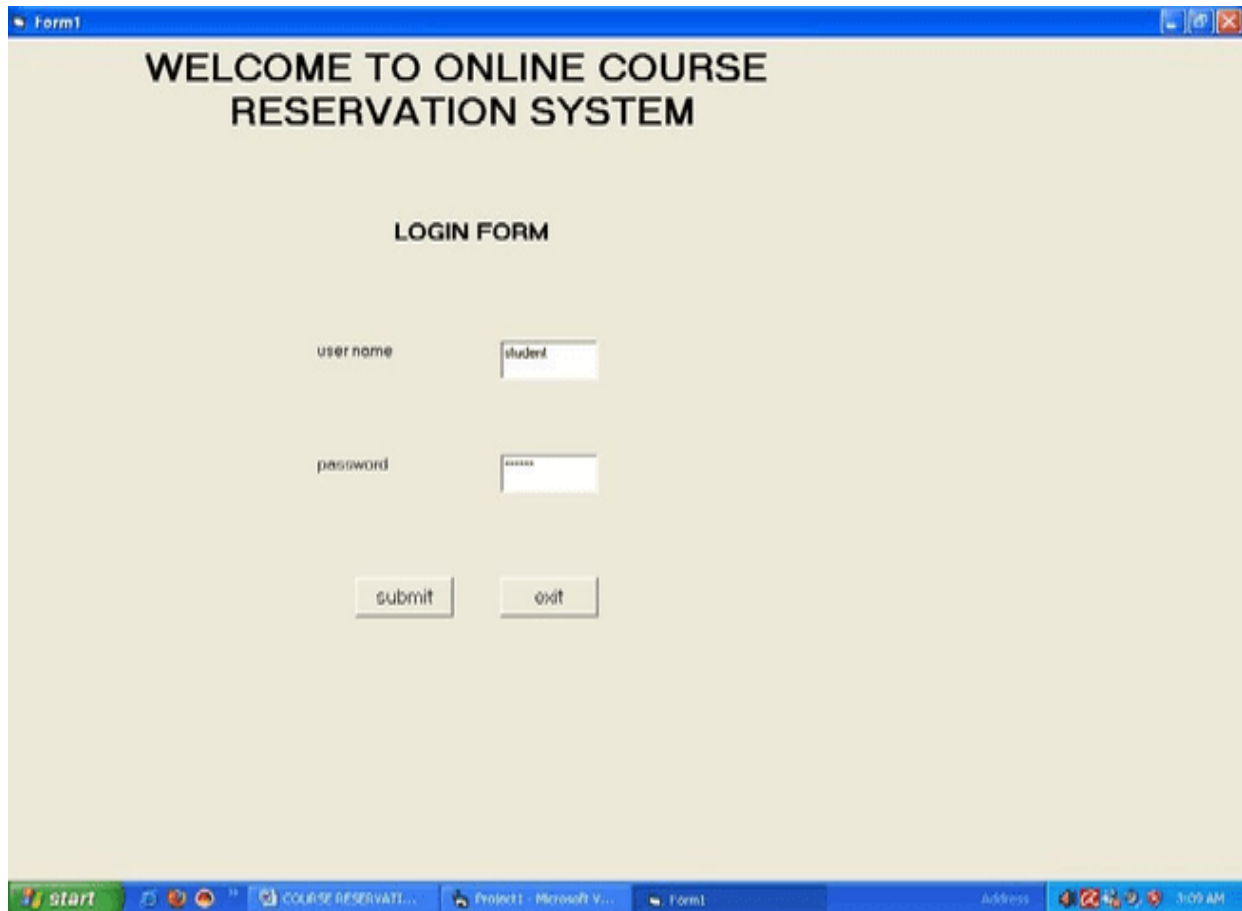
- a. User interface layer
- b. Domain layer
- c. Technical services layer



## DOCUMENTATION OF PACKAGE DIAGRAM

- The three layer of online course reservation are user interface layer, domain layer and technical service layer
  - a. **The user interface layer-** represent the user interface component such as web where the student login
  - b. **The domain layer-** has the major action such as select college, select course, request for seat and request for hostel.
  - c. **Technical service layer-**only authenticated user can access the technical service

# RMS FOR M1



The screenshot displays a Windows desktop environment. A web browser window titled "Form1" is open, showing a login interface. The page has a light beige background. At the top, it says "WELCOME TO ONLINE COURSE RESERVATION SYSTEM". Below this, the text "LOGIN FORM" is centered. There are two input fields: "user name" with the text "student" entered, and "password" with masked characters "\*\*\*\*\*". Below the input fields are two buttons: "submit" and "exit". The Windows taskbar at the bottom shows the "start" button, several icons, and open applications including "COURSE RESERVATI...", "Project1 - Microsoft V...", and "Form1". The system clock shows "1:09 AM".

Form1

WELCOME TO ONLINE COURSE  
RESERVATION SYSTEM

LOGIN FORM

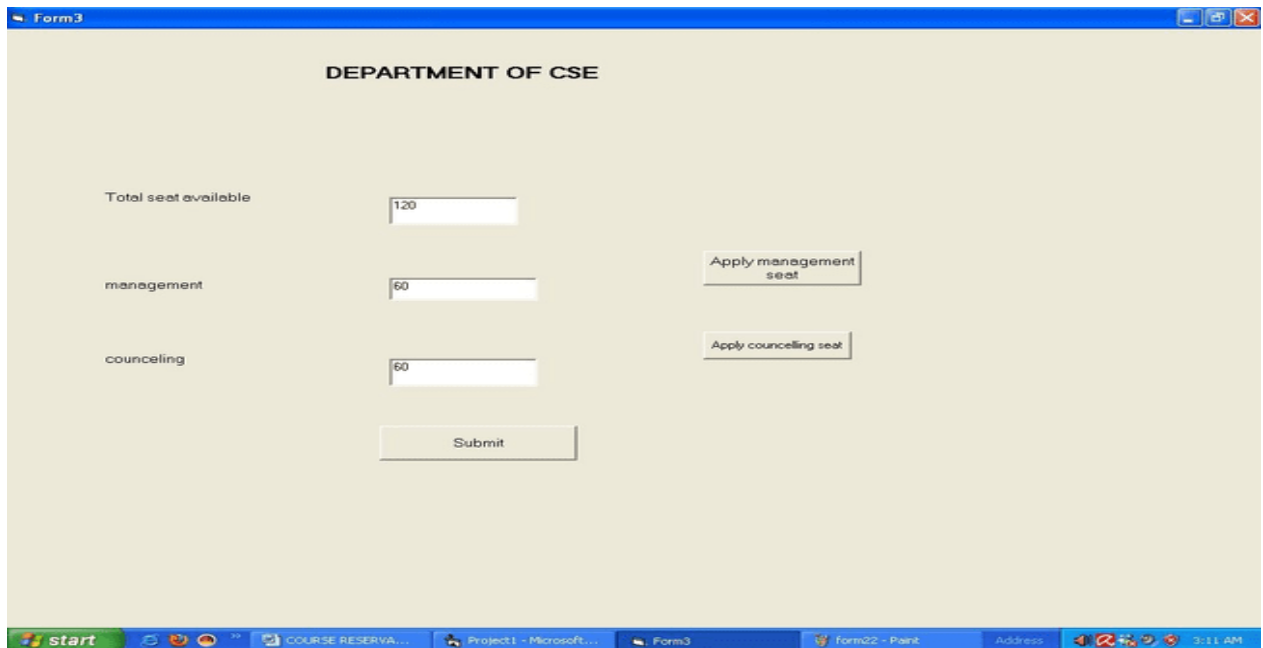
user name student

password \*\*\*\*\*

submit exit

start [taskbar icons] COURSE RESERVATI... Project1 - Microsoft V... Form1 Address 1:09 AM

## FORM 3

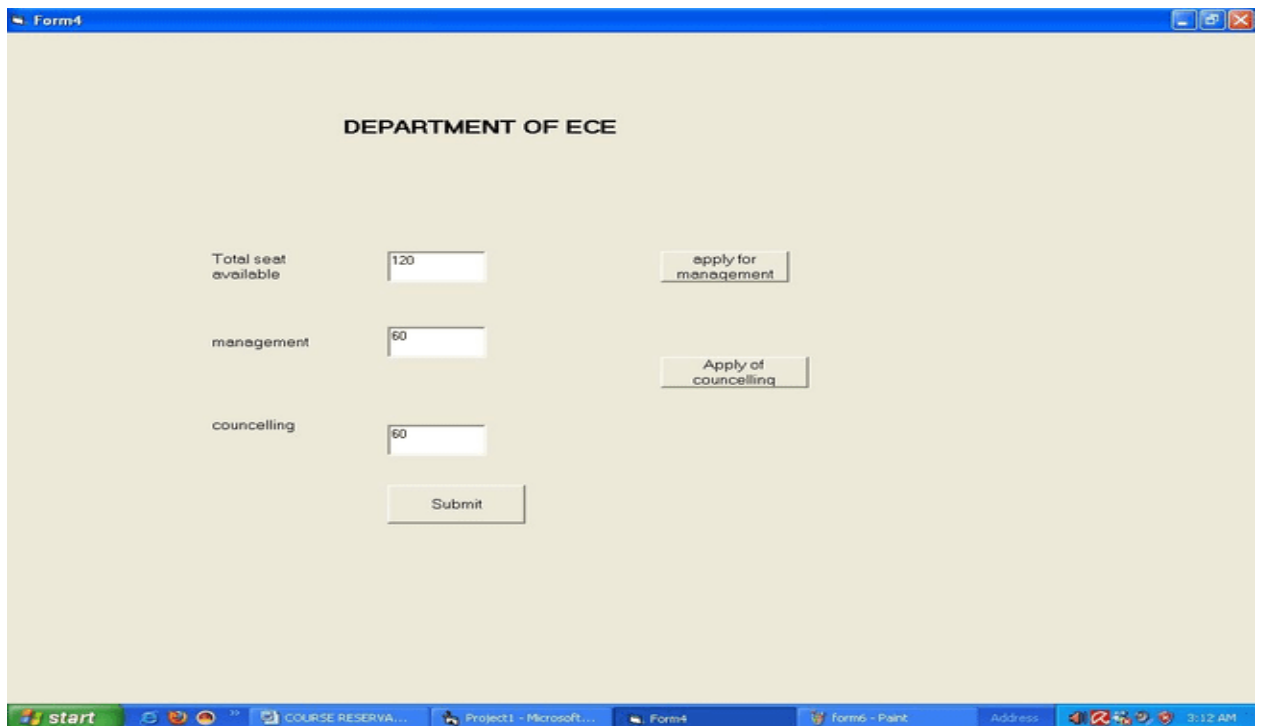


The screenshot shows a Windows application window titled "Form3". The main content area has a light beige background and is titled "DEPARTMENT OF CSE". It contains three input fields for seat reservations: "Total seat available" with the value "120", "management" with the value "60", and "counceling" with the value "60". To the right of the "management" field is a button labeled "Apply management seat", and to the right of the "counceling" field is a button labeled "Apply counceling seat". At the bottom center is a "Submit" button. The Windows taskbar at the bottom shows the "start" button, several open applications including "COURSE RESERVA...", "Project1 - Microsoft...", "Form3", "Form22 - Paint", and "Address", and a system clock showing "3:11 AM".

Field	Value	Action Button
Total seat available	120	
management	60	Apply management seat
counceling	60	Apply counceling seat

Submit

## FORM 4



The screenshot shows a Windows application window titled "Form4". The main content area has a light beige background and is titled "DEPARTMENT OF ECE". It contains three input fields for seat reservations: "Total seat available" with the value "120", "management" with the value "60", and "councelling" with the value "60". To the right of the "management" field is a button labeled "apply for management", and to the right of the "councelling" field is a button labeled "Apply of councelling". At the bottom center is a "Submit" button. The Windows taskbar at the bottom shows the "start" button, several open applications including "COURSE RESERVA...", "Project1 - Microsoft...", "Form4", "form6 - Paint", and "Address", and a system clock showing "3:12 AM".

Field	Value	Action Button
Total seat available	120	
management	60	apply for management
councelling	60	Apply of councelling

Submit

## FORM 5

The screenshot shows a Windows application window titled "DEPARTMENT OF EEE". The form contains three rows of input fields and buttons. The first row has a label "Total no of seat" and a text box containing "120", with an "Apply for management" button to its right. The second row has a label "management" and a text box containing "60", with an "Apply for counselling" button to its right. The third row has a label "counselling" and a text box containing "60", with a "Submit" button centered below it. The Windows taskbar at the bottom shows the Start button, several icons, and open applications including "COURSE RESERVA...", "Project1 - Microsoft V...", "Form6 - Paint", and "Address". The system clock shows 3:13 AM.

Category	Value	Action
Total no of seat	120	Apply for management
management	60	Apply for counselling
counselling	60	Submit

## FORM6

The screenshot shows a Windows application window titled "Form6". The form displays the word "CONGRATULATION" in large, bold, black capital letters. Below it is a single button labeled "EXIT". The Windows taskbar at the bottom shows the Start button, several icons, and open applications including "COURSE RESERVATI...", "Project1 - Microsoft V...", "Form6", and "Address". The system clock shows 3:16 AM.

Message	Action
CONGRATULATION	EXIT

## RESULT

Thus the project to develop online course reservation system was developed using Rational Rose Software and to implement the software in Visual Basic is done successfully.

## EXPERIMENT 6

### E-TICKETING

#### AIM

To develop the E-Ticketing System using Rational Rose Software and to implement the software in visual basic.

#### PROBLEM ANALYSIS AND PROJECT PLANNING

In the E-Ticketing system the main process is a applicant have to login the database then the database verifies that particular username and password then the user must fill the details about their personal details then selecting the flight and the database books the ticket then send it to the applicant then searching the flight or else cancelling the process.

#### PROBLEM STATEMENT

The E-Ticketing system is the initial requirement to develop the project about the mechanism of the E-ticketing system what the process do at all.

- a. The requirement are analyzed and refined which enables the end users to efficiently use the E-ticketing system.
- b. The complete project is developed after the whole project analysis explaining about scope and project statement is prepared.
- c. The main scope for this project is the applicant should reserved for the flight ticket.
- d. First the applicant wants to login to the database after that the person wants to fill their details.
- e. Then the database will seach for ticket or else the person will cancelled the ticket if he/she no need.

## 1. INTRODUCTION

### 1.1Purpose

The applicant should login to the database for reserving the ticket. In the specification use define about the system requirements that are part from the functionality of the system. It tells the usability, reliability defined in the use case specification.

#### Technology To Be Used Microsoft Visual Basic 6.0

**Tools Be Used** Rational Rose tool or StarUML (for developing UML Patterns)

## Overview

SRS includes two sections overall description and specific requirements - Overall description will describe major role of the system components and inter- connections. Specific requirements will describe roles & functions of the actors.

## 2. OVERALL DESCRIPTION

### Functionality

The database should be act as an main role of the e-ticketing system it can be booking the ticket in easy way.

### Usability

The User interface makes the Credit Card Processing System to be efficient.

### Performance

It is of the capacities about which it can perform function for many users at the same times efficiently that are without any error occurrence.

### Reliability

The system should be able to process the user for their corresponding request.

## UML DIAGRAMS

The project can be explained diagrammatically using the following diagrams.

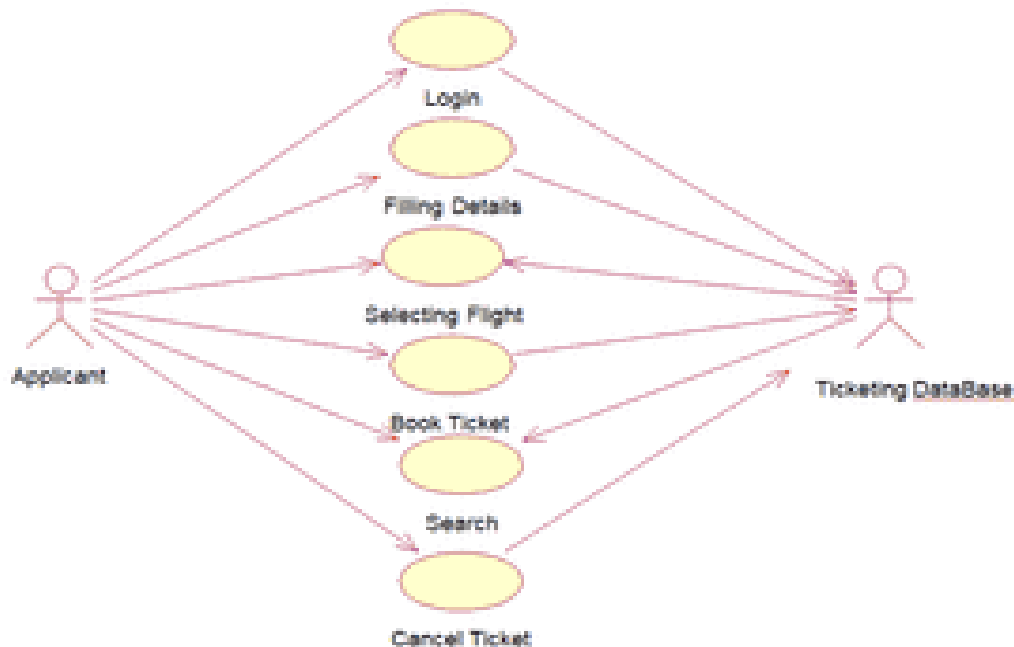
- a. Use case diagram
- b. Class diagram
- c. Sequence diagram
- d. Collaboration diagram
- e. State chart diagram
- f. Activity diagram
- g. Component diagram
- h. Deployment diagram
- i. Package diagram

## USE CASE DIAGRAM



A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. The use case is made up of a set of possible sequences of interactions between systems and users in a particular environment and related to a particular goal. It is represented using ellipse.

Actor is any external entity that makes use of the system being modelled. It is represented using stick figure



## DOCUMENTATION OF USE CASE DIAGRAM

The actors in this use case diagram are applicant, and E-ticketing DataBase. The use cases are the activities performed by actors.

The actors in this use case diagram are

- Applicant** - logs in the E-Ticketing and filling the required data fields.
- E-Ticketing DataBase**-verify the login and filling the details and selected applicant details are stored in it.

The use cases in this use case diagram are

**Login** - applicant enter their username and password to enter in to the E-Ticketing form.

**Filling Details** –applicants are used to enter the details in the requiredForm.

**Selecting Flight** –it is used to selecting the flight for the applicants.

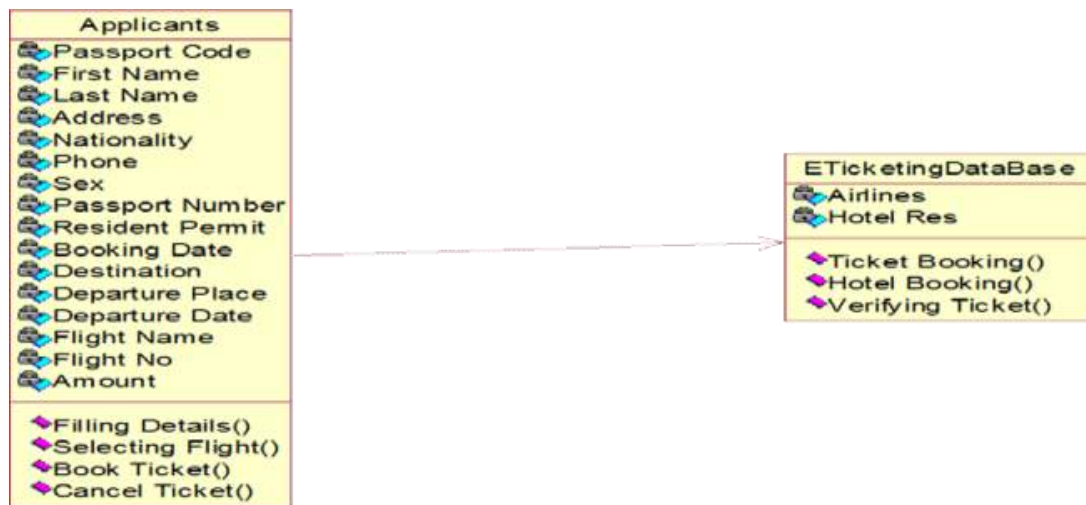
**Book Ticket** – it is used to book the ticket through the E-Ticketing database.

**Search** –it is used to search the flight details.

**Cancel Ticket-** it is used to cancel the ticket through the E-Ticketing DataBase.

## CLASS DIAGRAM

A class diagram in the unified modeling language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, and the relationships between the classes. It is represented using a rectangle with three compartments. Top compartment have the classname, middle compartment the attributes and the bottom compartment with operations.



## DOCUMENTATION OF CLASS DIAGRAM

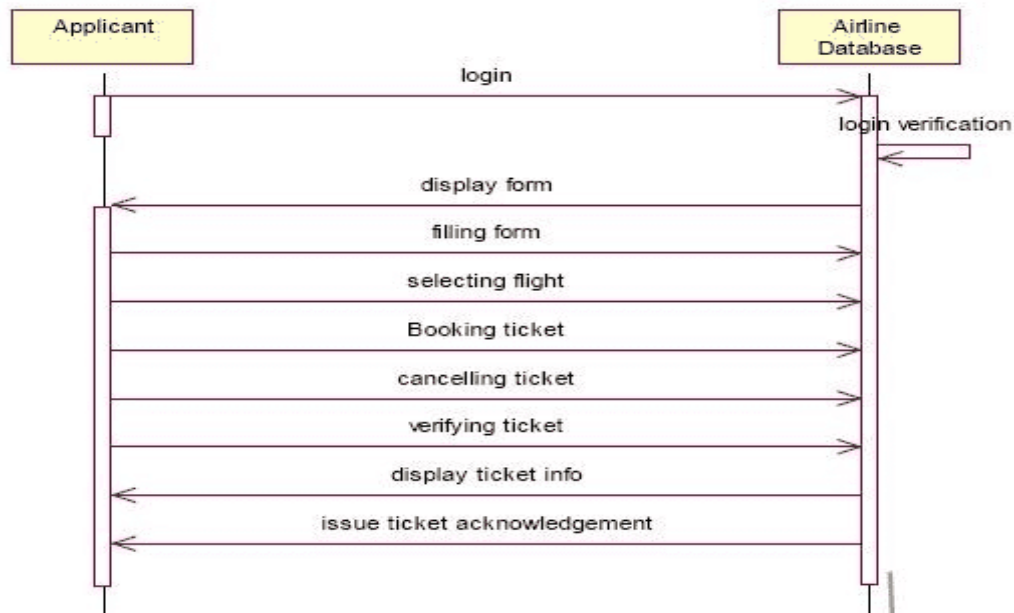
This class diagram has two classes applicant, E-Ticketing DataBase.

- a. **Applicant** - logins the E-Ticketing and filling the required data fields.
- b. **E-Ticketing DataBase**-verify the login and filling the details and selected applicant details are stored in it.

## SEQUENCE DIAGRAM

A sequence diagram in Unified Modeling Language (UML) is a kind of interaction diagram that shows how processes operate with one another and in what order. It is a construct of a Message Sequence Chart. There are two dimensions.

1. Vertical dimension-represent time.
2. Horizontal dimension-represent different objects.



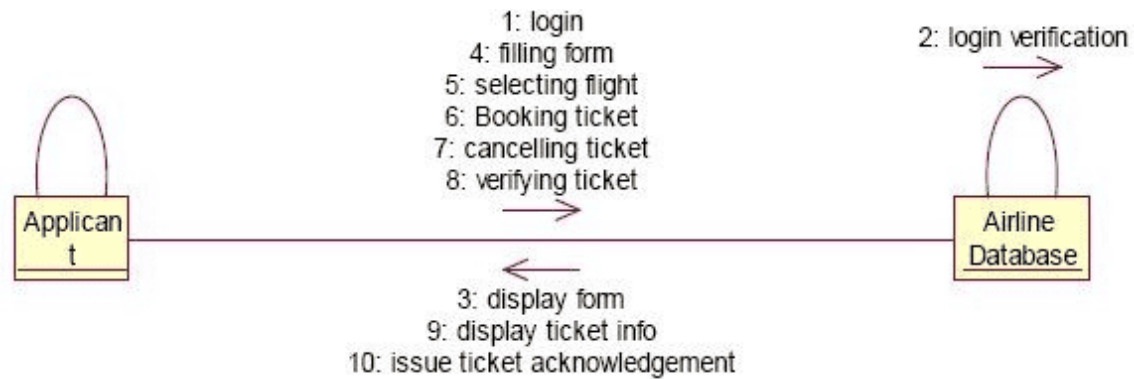
## DOCUMENTATION OF SEQUENCE DIAGRAM

This sequence diagram describes the sequence of steps to show

- Applicants are used to login the form. And then its verify the username and password.
- If the password and username are correct then applicants are used to login the filling details.
- Applicants are used to selecting the flights and book the tickets.
- Now the E-Ticketing DataBase verify the filling Details.
- And then the E-Ticketing DataBase display the ticket information.
- Incase of any sudden change of the plan, the applicant can cancel the ticket.

## COLLABRATION DIAGRAM

A collaboration diagram, also called a communication diagram or interaction diagram,. A sophisticated modeling tool can easily convert a collaboration diagram into a sequence diagram and the vice versa. A collaboration diagram resembles a flowchart that portrays the roles, functionality and behavior of individual objects as well as the overall operation of the system in real time.

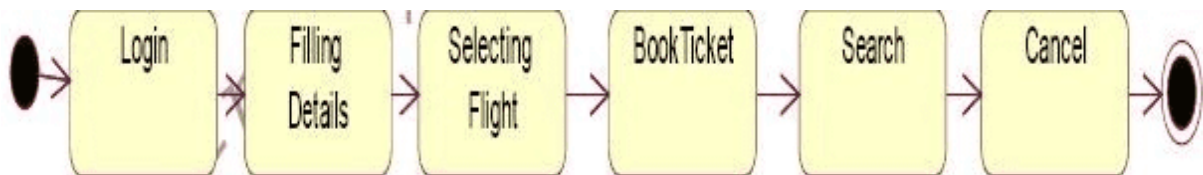


## DOCUMENTATION OF COLLABORATION DIAGRAM

This collaboration diagram is to show how the applicant login and register in the E-Ticketing system. Here the sequence is numbered according to the flow of execution. This collaboration diagram is to show the selection process of the applicant for the ticket booking. The flow of execution of this selection process is represented using the numbers.

## STATE CHART DIAGRAM

The purpose of state chart diagram is to understand the algorithm involved in performing a method. It is also called as state diagram. A state is represented as a round box, which may contain one or more compartments. An initial state is represented as small dot. A final state is represented as circle surrounding a small dot.



## DOCUMENTATION OF STATE CHART DIAGRAM

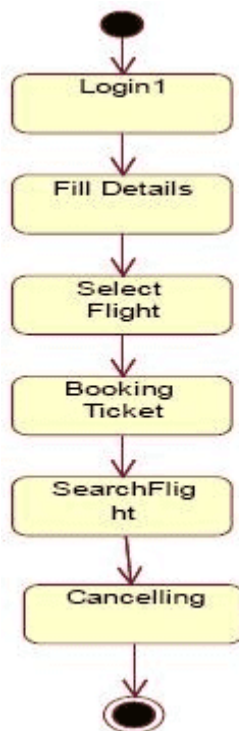
This state diagram describes the behaviour of the system.

- First state is login where the applicant login to the E-Ticketing system.
- The next state is filling details the applicant are used to fill the form.
- Then applicant used to selecting the flight.

- The applicant appears for book ticket and search details from E-Ticketing DataBase.

## ACTIVITY DIAGRAM

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control. An activity is shown as an rounded box containing the name of the operation.



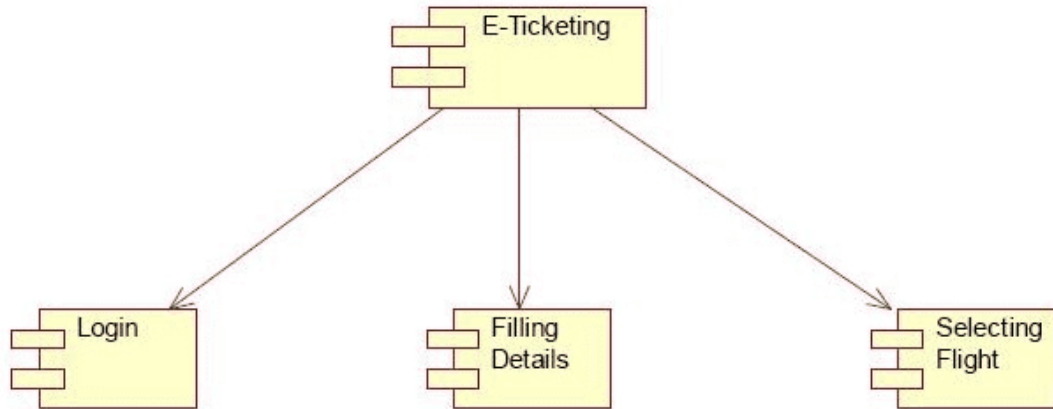
## DOCUMENTATION OF ACTIVITY DIAGRAM

This activity diagram describes the behaviour of the system.

- a. First state is login where the applicant login to the E-Ticketing system.
- b. The next state is filling details the applicant are used to fill the form.
- c. Then applicant used to selecting the flight.
- d. The applicant appears for book ticket and search details from E-

## COMPONENT DIAGRAM

The component diagram's main purpose is to show the structural relationships between the components of a system. It is represented by boxed figure. Dependencies are represented by communication association.

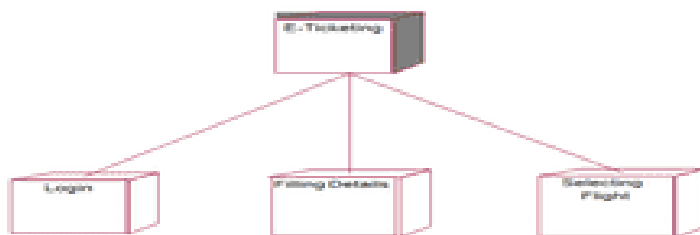


## DOCUMENTATION OF COMPONENT DIAGRAM

The main component in this component diagram is E-Ticketing systems. And Login, Filling Details and selecting flights applicants are the components comes under the main component.

## DEPLOYMENT DIAGRAM

A deployment diagram in the unified modeling language serves to model the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3-dimensional box. Dependencies are represented by communication association.



## DOCUMENTATION OF DEPLOYMENT DIAGRAM

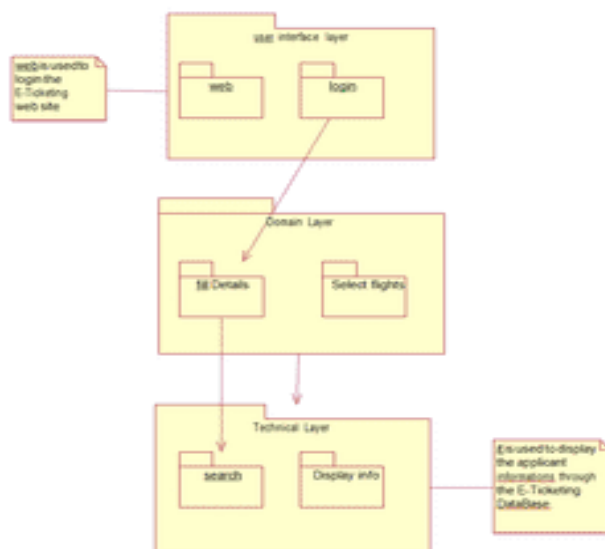
The processor in this deployment diagram is the E-Ticketing system which is the main part and the devices are the login, appear for the filling details and selecting flights applicant which are the some of the main activities performed in the system.

## PACKAGE DIAGRAM

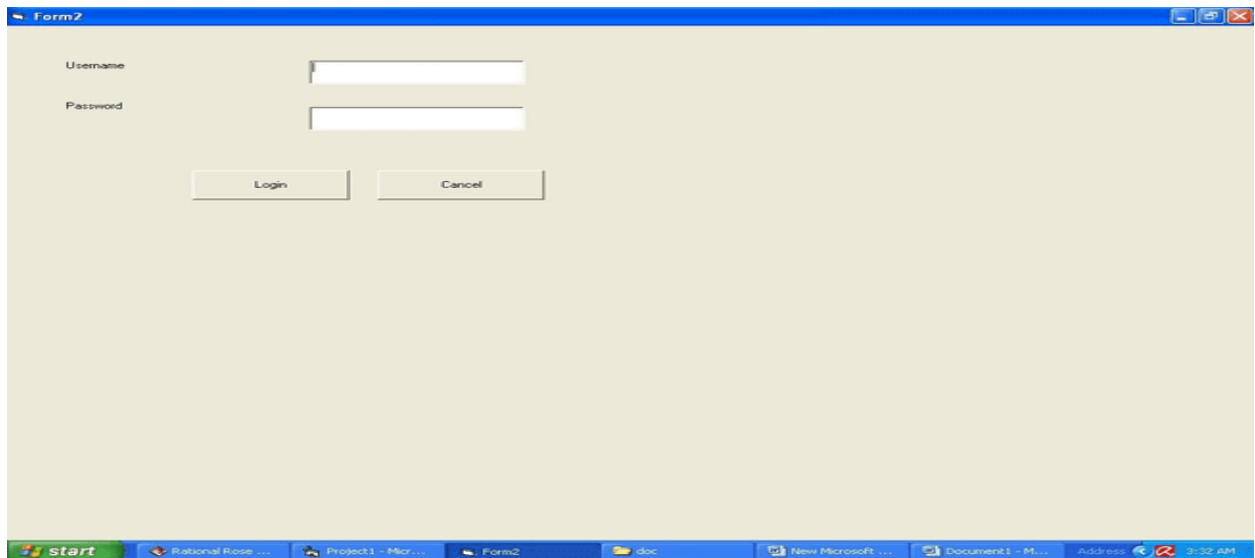
A package diagram in unified modeling language that depicts the dependencies between the packages that make up a model. A Package Diagram (PD) shows a grouping of elements in the OO model, and is a Cradle extension to UML. PDs can be used to show groups of classes in Class Diagrams (CDs), groups of components or processes in Component Diagrams (CPDs), or groups of processors in Deployment Diagrams (DPDs).

There are three types of layer. They are

- a. User interface layer -
- b. Domain layer
- c. Technical services layer

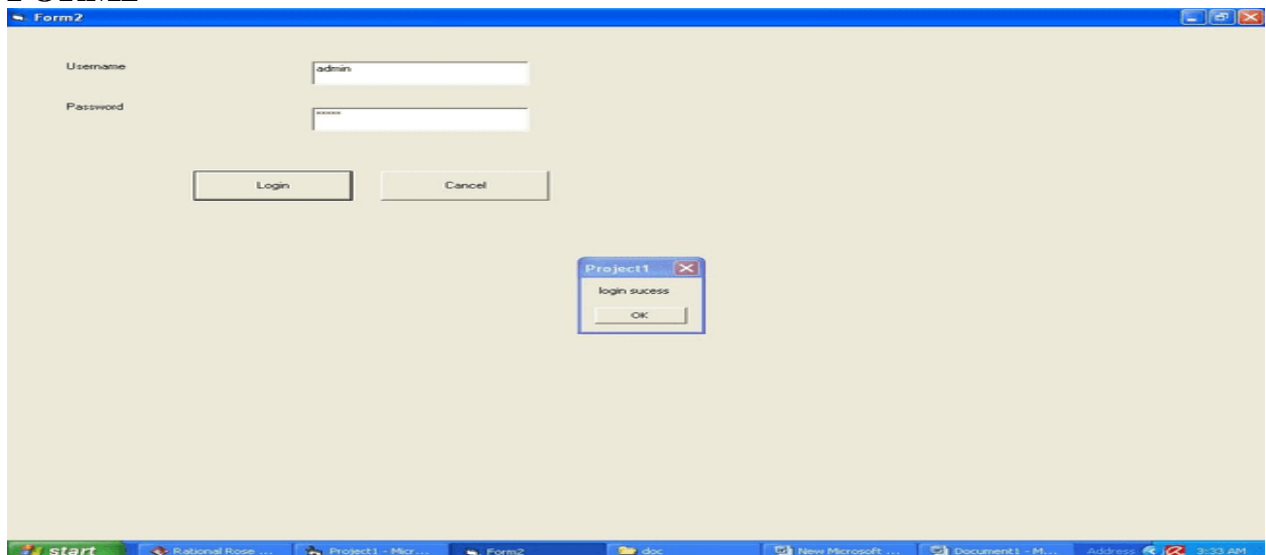


**FO  
RMS  
FOR  
M1**



A screenshot of a Windows desktop environment. The main window, titled 'Form2', has a light beige background. It contains two text input fields: 'Username' and 'Password'. Below these fields are two buttons: 'Login' and 'Cancel'. The Windows taskbar at the bottom shows the 'start' button, several open applications including 'Rational Rose', 'Project1 - Mic...', and 'Form2', and a system tray with a clock showing 3:32 AM.

## FORM2



A screenshot of the same 'Form2' window. The 'Username' field now contains the text 'admin' and the 'Password' field contains '123456'. The 'Login' button is highlighted. A small dialog box titled 'Project1' is open in the center of the screen, displaying the message 'login success' and an 'OK' button. The taskbar and system clock (3:33 AM) are visible at the bottom.

## FORM3



**Form1**

Passport Code:  BookingDate:

FirstName:  Destination:

LastName:  Departure Place:

Address:  Departure Date:

Nationality:  FlightName:

Phone:  FlightNo:

Sex:  Amount:

PassportNumber:

ResidentPemit:

## FORM4

**Form1**

Passport Code: 2358 BookingDate: 15/2/2011

FirstName: S Destination: delhi

LastName: Ramesh Departure Place: chennai

Address: tambaram Departure Date: 20/2/2011

Nationality: indian FlightName: kingfisher

Phone: 987455456 FlightNo: 56895

Sex: Male Amount: 2000

PassportNumber: 974479

ResidentPemit: 78974

## FORM5

Form3

ResDate	<input type="text"/>	ArrivalDate	<input type="text"/>
Name	<input type="text"/>	Phone	<input type="text"/>
Sex	<input type="text"/>	Hotel Name	<input type="text"/>
Address	<input type="text"/>	Room Type	<input type="text"/>
Nationality	<input type="text"/>	Room Req	<input type="text"/>

Adodic2

Add Next Previous Last save Delete Cancel

## RESULT

Thus the project to develop E-Ticketing system using Rational Rose Software and to implement the project in Visual Basic is done successfully.

## **EXPERIMENT 7**

### **SOFTWARE PERSONNEL MANAGEMENT SYSTEM**

#### **AIM**

To develop a project management system using the Rational Rose Software/StarUML from the UML diagram and to implement the software in Visual Basic.

#### **PROJECT ANALYSIS AND PROJECT PLANNING**

The personal management system is used to manage our personnel things such as maintaining databases in offices etc. this project is easy for the CEO to handle the details. This is personally used for CEO.

#### **PROBLEM STATEMENT**

The CEO must enter the name and password to login the form and select the particular employee to view the details about that employee and maintaining the employee details personally. This process of employee management system are described sequentially through following steps,

- The CEO login to the employee management system.
- He/she search for the list of employees.
- Then select the particular employee.
- Then view the details of that employee.
- After displaying the employee details then logout.

#### **INTRODUCTION**

##### **Purpose**

The main purpose of creating the document about the software is to know about the list of requirements that is to be developed.

##### **Scope:**

It specifies the requirements to develop a processing software part that complete the set of requirements. In this specification, we define about the system requirements that are apart from the functionality of system

## Technology to Be Used

Microsoft Visual Basic 6.0

**ToolsBeUsed** Rational Rose tool/StarUML (for developing UML Patterns)

**Overview** SRS includes two sections overall description and specific requirements - Overall description will describe major role of the system components and inter-connections. Specific requirements will describe roles & functions of the actors.

## OVERALL DESCRIPTION

### Product Perspective

The SPMP acts as an interface between the user and the database. This tries to handle the personnel databases easily.

### Functionality:

Many members of the process live to check for the occurrence and transaction, we all have to carry over at sometime.

### Usability

The User interface makes the employee Management System to be efficient.

### Performance

It is the capability about which it can perform function for many users at the same time for the efficiency (i.e.) without any error occurrences.

### Reliability

The system should be able to the user through the day to day transactions.

### Assumptions and dependencies

The user must have the basic knowledge of computer and English language. The user must correctly login the database

## UML DIAGRAMS:

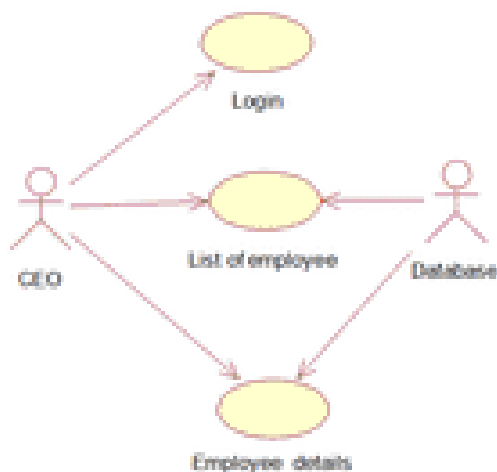
The following UML diagrams describe the process involved in the online recruitment system

- Use case diagram
- Class diagram
- Sequence diagram
- Collaboration diagram
- State chart diagram
- Activity diagram
- Component diagram
- Deployment diagram
- Package diagram

The project can be explained diagrammatically using the following diagrams.

### USE CASE DIAGRAM

The use cases are a set of scenarios to guide together by a common user goal. A scenario is the sequence of steps describing an interaction between a user and their system.



List of employee Login CEO Employee details Database

## DOCUMENTATION OF USE CASE DIAGRAM

The use case diagram in the employee management system illustrates the sequence of sequencing and describing an interaction between a CEO and a system.

### Login:

This use case gives as entry to the CEO and the database.

### List of employee:

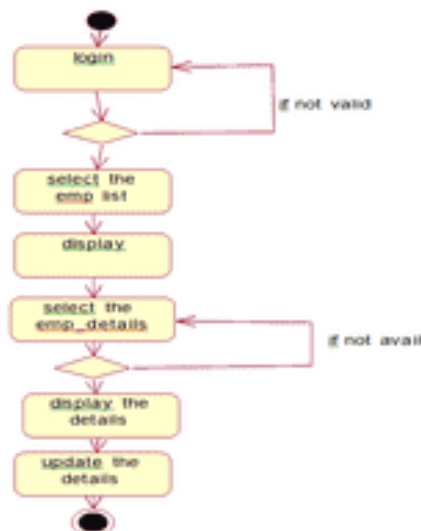
This will create the situation for the CEO to select particular employee from the available list.

### Employee details:

The CEO can able to view the details of the employee using this use case.

## ACTIVITY DIAGRAM

The Activity diagram describes the sequencing of activity will support for both conditional and parallel. An activity is a variant of state diagram.

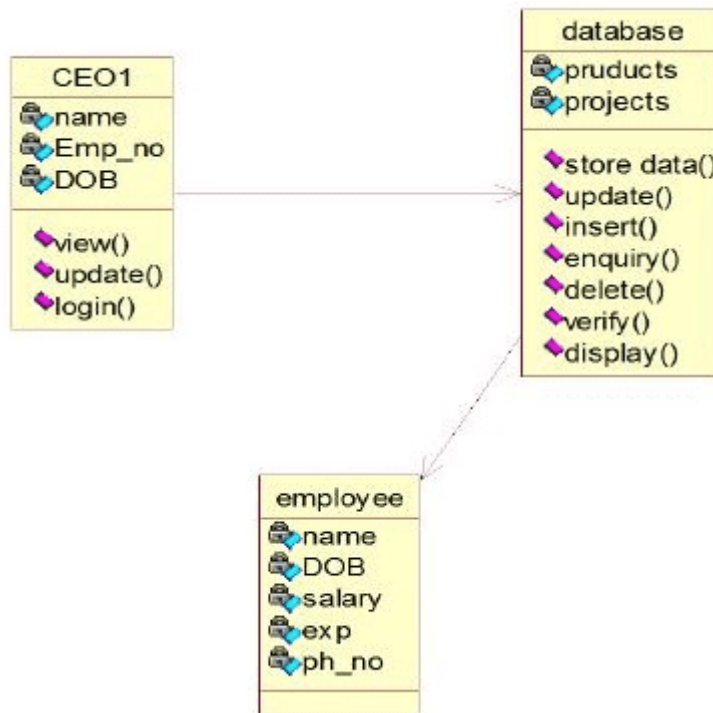


## DOCUMENTATION OF ACTIVITY DIAGRAM

The CEO Logs in to the employee management system. He/she selects a particular employee from the list of available employee. The CEO can view the details of the particular employee by clicking the respective button. After viewing the details he is logout from the system.

## CLASS DIAGRAM

The Class diagram the types of object in the system a various kinds of static relation ships that exists among them.



## DOCUMENTATION OF CLASS DIAGRAM

The Classes used in this project are

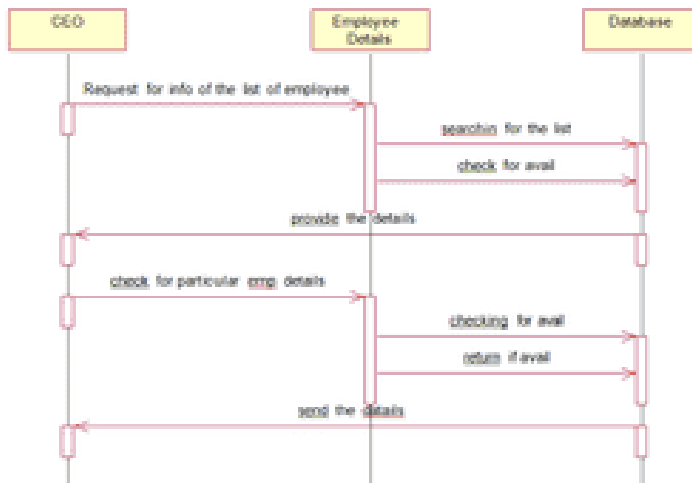
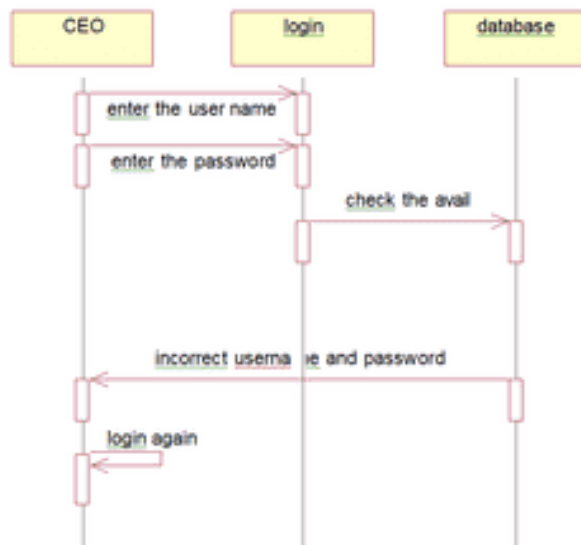
**CEO:** The CEO has to login the form by specifying the name and password of him.

**Database:** The database checks whether the CEO has given the name and password accordingly if not the error message will be displayed.

**Available employees:** The database is connects to the list of available employees and the CEO if wants then select the employee from it.

## SEQUENCE DIAGRAM:

It is a kind of interaction diagram in which an object is shown as a box at the top of the dash vertical line. This vertical line is called object life time. The life time represent the object's life during interaction object deletion is shown with a large x.



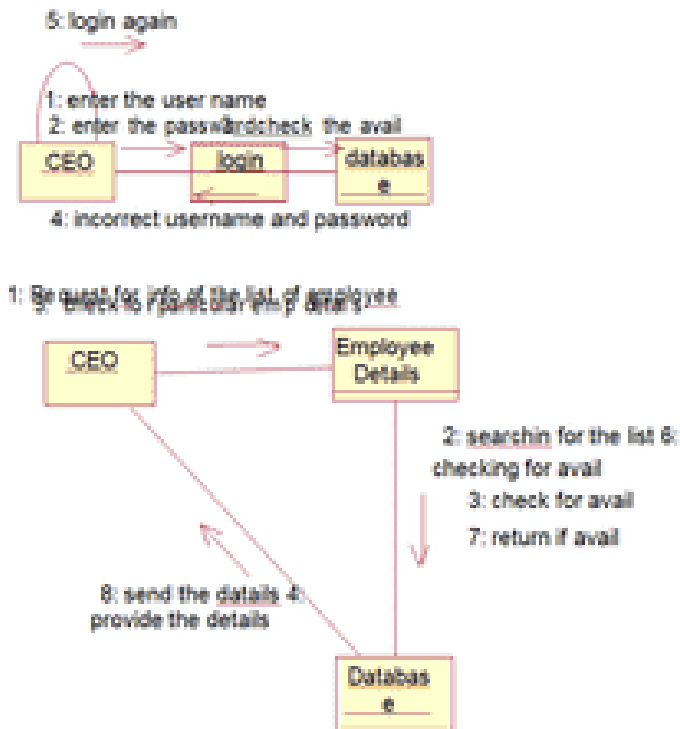
## DOCUMENTATION OF SEQUENCE DIAGRAM

The CEO must enter his name and password to login the employee management system. The verification process is undergone by the database. If the details are correct he can enter to the system otherwise error is displayed. After login the details of the particular employee is viewed by the CEO. Finally he is logged out from the system.

## COLLABORATION DIAGRAM

In a collaboration diagram objects are shown as icons as on. A collaboration diagram arrow indicates the message sent within the given use case. The sequence is indicated by numbering the messages.





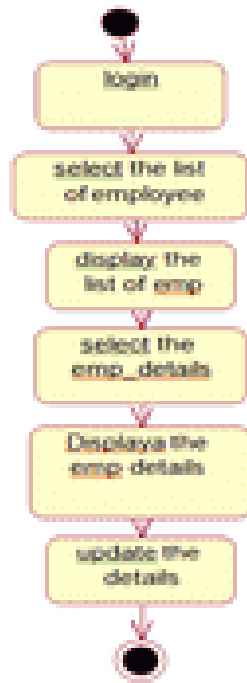
## DOCUMENTATION OF COLLABORATION DIAGRAM

It is same as the sequence diagram that involves the object of the project with the only differences that we give the sequence no to the each process

The CEO must enter his name and password to login the employee management system. The verification process is undergone by the database. If the details are correct he can enter to the system otherwise error is displayed. After login the detail of the particular employee is viewed by the CEO. Finally he is logged out from the system.

## STATE CHART DIAGRAM

It is a technique to describe the behavior of the system. It determines all the possible states as that of particular object gets into the object oriented technique. State diagrams are drawn for a single class so status to the lifetime behavior of a single object.



### DOCUMENTATION OF THE STATE CHART DIAGRAM:

The various states are the login, lists of employees, selects a employee, display the information about the employee, logout.

The state chart diagram describes the behavior of the system. The main purpose of the system is to maintain an employee details personally. For that the CEO Login to the employee management system. He/she selects a particular employee from the list of available employee. The CEO has to view the details of the particular employee by clicking the respective button. The CEO views the details then finally he is logout from the system.

### PACKAGE DIAGRAM

A package is represented as folder among shown as large rectangle with a tab attached its upper left corner. A package may contain both subordinated package both ordinary model can be organized into packages. There are three types of layers,

- a. User interface layer
- b. Domain layer
- c. Technical layer

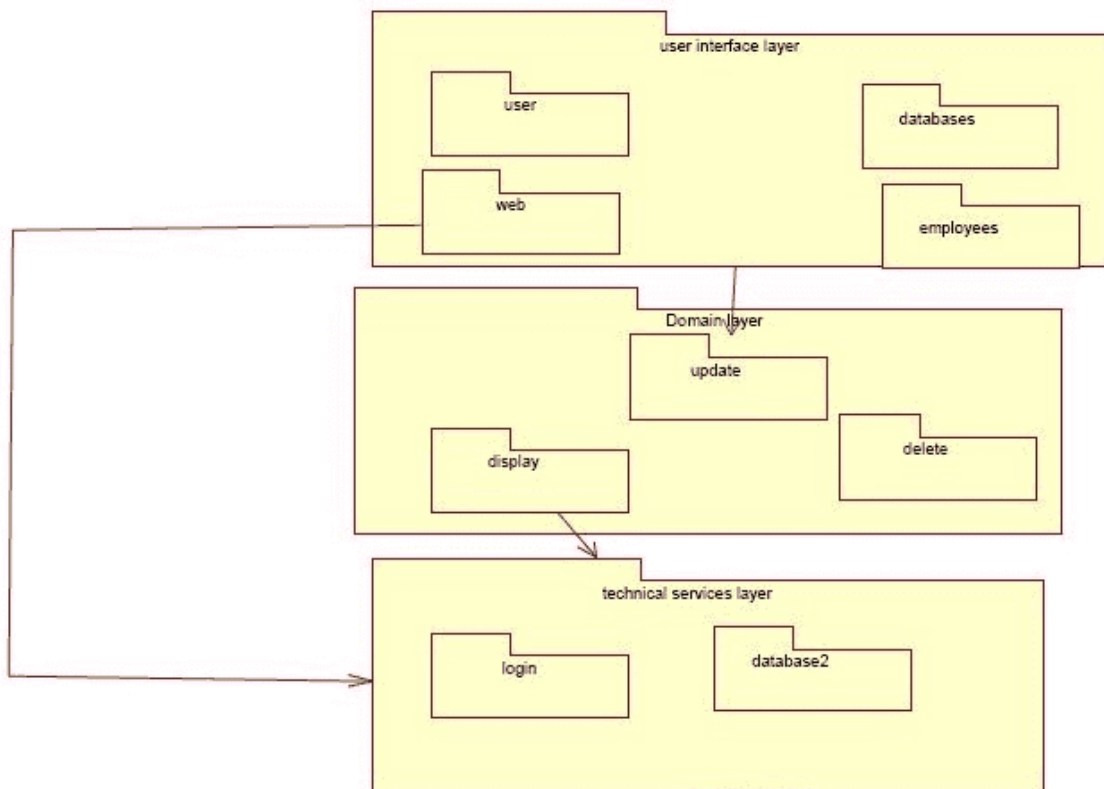
## DOCUMENTATION OF PACKAGE DIAGRAM

The three layers in the online recruitment system are

**The User interface layer** - consists of the web and login. This layer describes how the applicant logs in to the website and apply for the job.

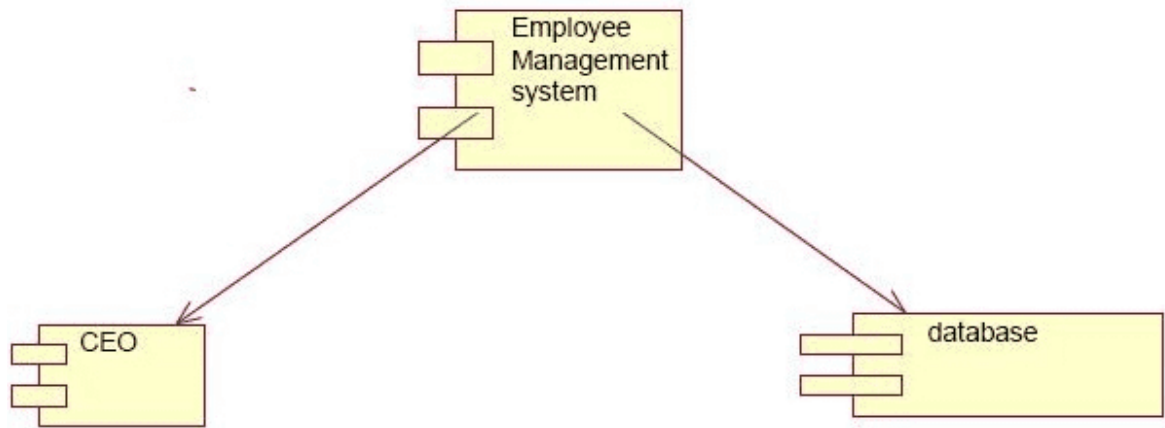
**The Domain layer** – shows the activities that are performed in the online recruitment system. The activities are register, attend test and select talented applicant.

**The Technical service layer** - the applicant details, verification details and the selected applicant details are stored in the database.



## COMPONENT DIAGRAM

Components are a slightly fuzzy concept in the UML, because both classes and components can be used to model the same thing. A component represents a modular part of a system that encapsulates its contents and whose manifestation is replaceable within its environment. A component defines its behavior in terms of provided and required interfaces. As such, a component serves as a type, whose conformance is defined by these provided and required interfaces.



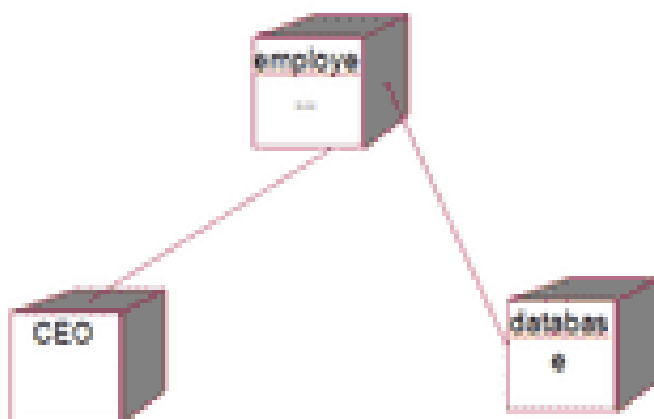
## DOCUMENTATION OF COMPONENT DIAGRAM

In this diagram there link between the actors is present in the SPMS that could be shown in diagrammatically way in the component diagram. Each every actor is having a directional link to process further details present in the system.

## DEPLOYMENT DIAGRAM

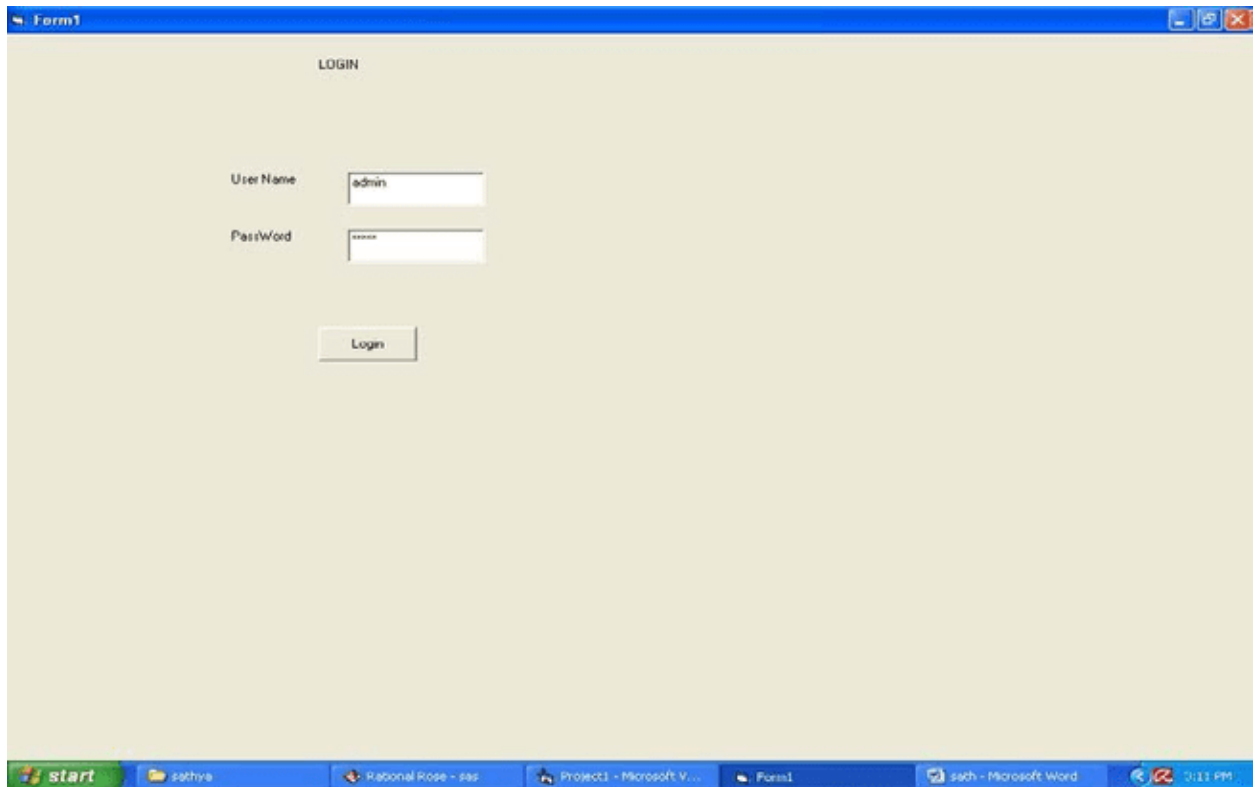
A deployment diagram shows the assignment of concrete software artifacts (such as executable files) to computational nodes (something with processing services). It shows the deployment of software elements to the physical architecture and the communication (usually on a network) between physical elements.

A deployment diagram usually shows an example set of instances (rather than classes

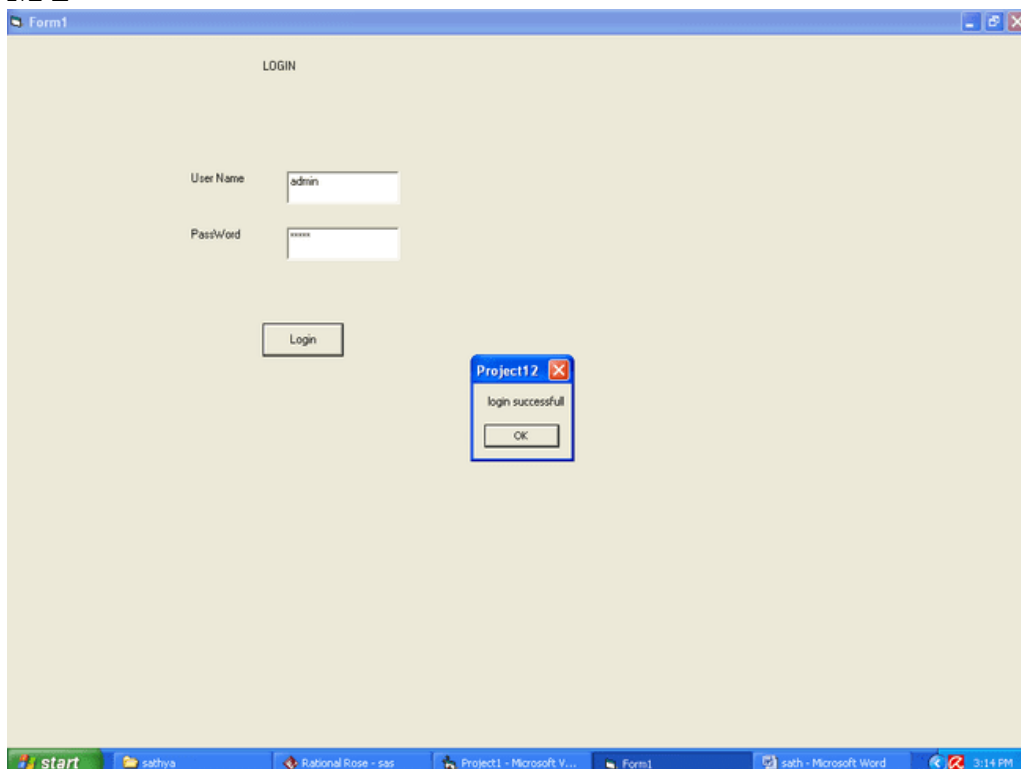


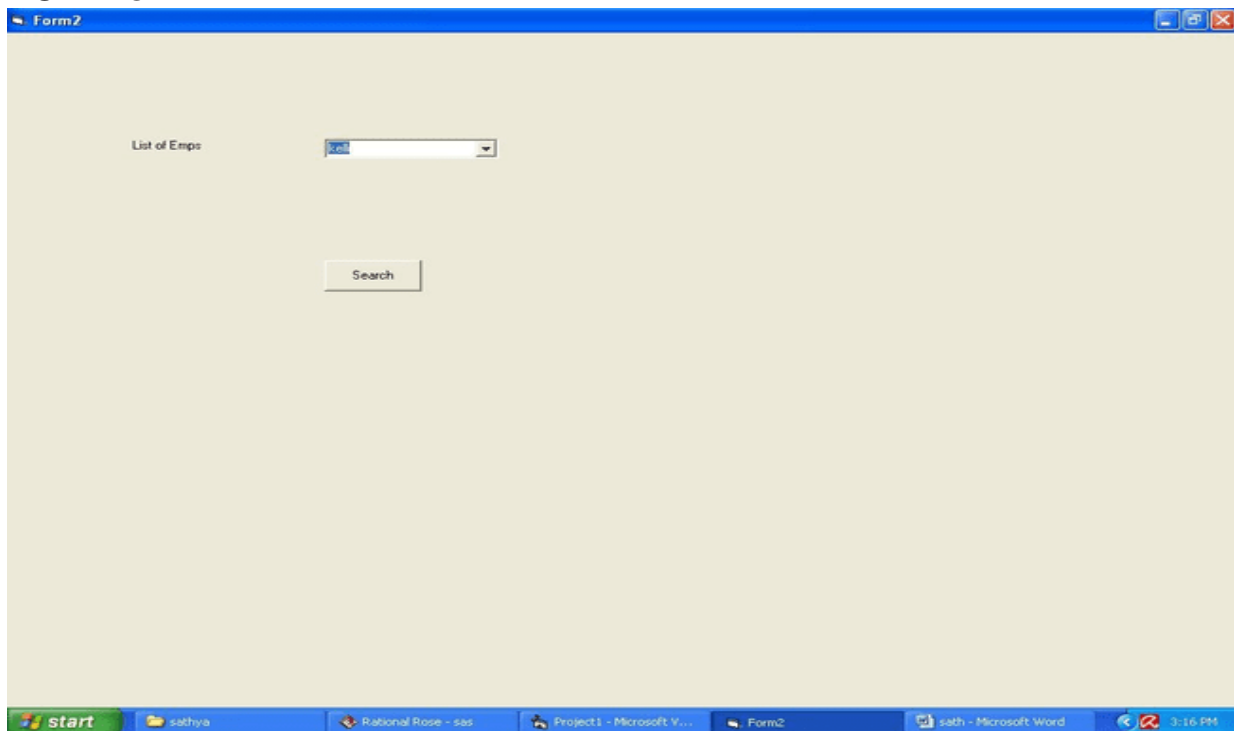
**FOR**

# MS FOR M 1

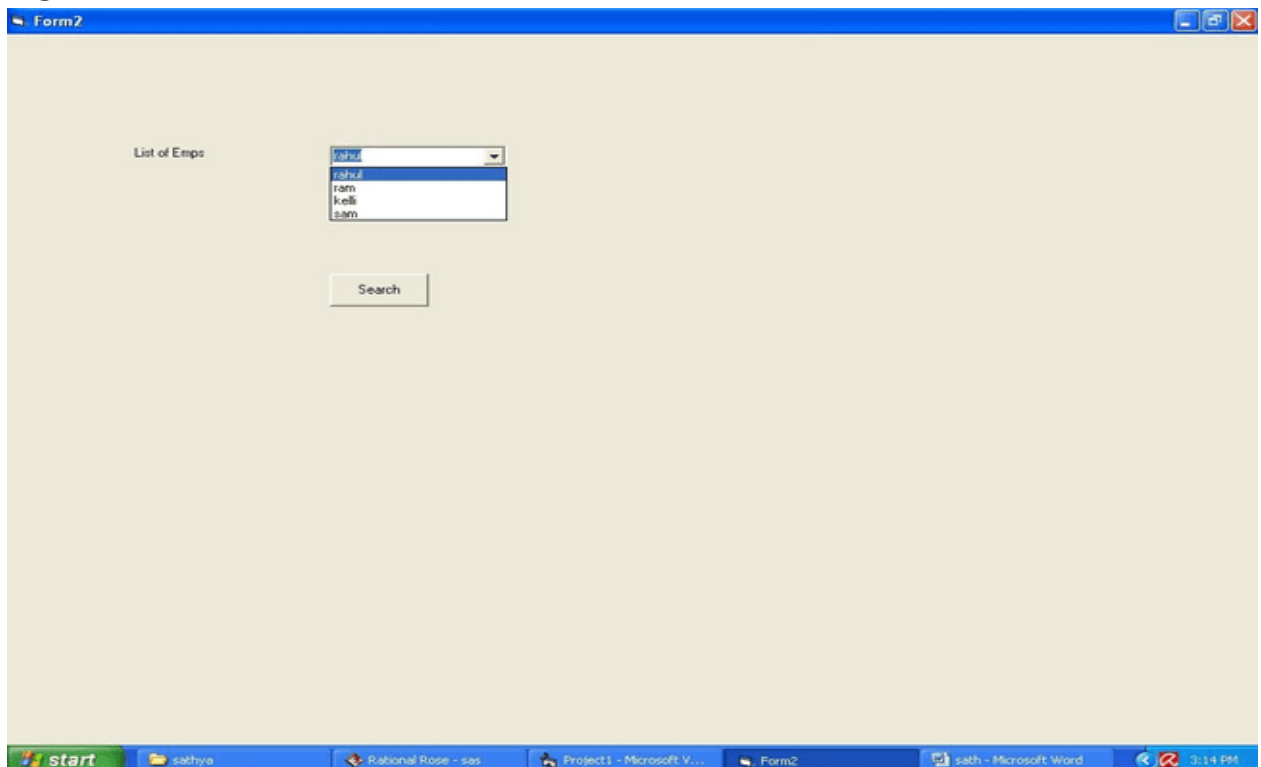


# FOR M 2



**FORM 3**

The screenshot shows a Windows XP desktop environment. The taskbar at the bottom includes the Start button, a folder named 'sathya', and several open applications: 'Rational Rose - sas', 'Project1 - Microsoft V...', 'Form2', and 'sath - Microsoft Word'. The system clock shows 3:16 PM. The 'Form2' application window is active, displaying a search interface. It has a title bar with 'Form2' and standard window controls. Inside the window, there is a label 'List of Emps' followed by a text box containing 'ram' and a dropdown arrow. Below this is a 'Search' button.

**FORM 4**

This screenshot is similar to the previous one, showing the same Windows XP desktop and taskbar. However, the 'Form2' application window now displays a list of employee names. The text box still contains 'ram', and the dropdown menu is open, showing a list with the following items: 'ram', 'kelli', and 'sam'. The 'Search' button remains below the list.

**FORM 5**

Form3

Emp_Idnum	345612
Emp_Name	rahul
Emp_Address	no:1,stream st,c
Emp_Phono	22234567
project domain name	networking
Salary	18000

ok

start | sathya | Rational Rose - sas | Project1 - Microsoft V... | Form3 | sath - Microsoft Word | 3:15 PM

## FORM 6

Form6

Emp_Idnum	227645
Emp_Name	sam
Emp_Address	no:1,stream st,c
Emp_Phono	979864321
project domain name	c++
Salary	18000

ok

start | sathya | Rational Rose - sas | Project1 - Microsoft V... | Form6 | sath - Microsoft Word | 3:21 PM

## RESULT

Thus the project is to develop an EMPLOYEE MANAGEMENT SYSTEM using the Rational Rose Software from the UML diagram and to implement the employee details and successfully executed using visual basic and rational rose.

## **EXPERIMENT 8**

### **CREDIT CARD PROCESSING**

#### **AIM**

To develop a project credit card system using the Rational Rose /StarUML from the UML diagram and to implement the software in Visual Basic

#### **PROBLEM ANALYSIS AND PROJECT PLANNING**

The Credit Card Processing System which is use to purchasing an item from any shop mall, and it is used to maintain the limitation of credit card balance and current transaction process could be update via credit card machine. This project mainly used for large amount of item can be easy to buy from anywhere and required transaction process should be maintained them.

#### **PROBLEM STATEMENT**

The customer should select the item to be purchase from the shop by using credit card payment then the vendor should give a bill for the selected item .The customer should give his card to swap and request for the kind of amount transaction. After processing the transaction, the CREDIT CARD MACHINE should give the balance print statement or receipt.

- Customer should select the item from the shop.
- Vendor makes the bill for the selected item.
- Customer gives the credit card to the vendor to swap the card.
- They required amount transaction is done by the card reader.
- Vendor will issue the balance statement to the customer.
- Customers put the signature in the receipt and return to the vendor.



## **INTRODUCTION**

### **PURPOSE**

The customer should purchase an item from the shop by using credit card payment then the vendor should give response to the customers view while a purchasing item from the shop and required processing of transaction should be done by the vendor by using a credit card reader.

In the specification use define about the system requirements that are part from the functionality of the system. It tells the usability, reliability defined in the use case specification.

### **TECHNOLOGY TO BE USED**

Microsoft Visual Basic 6.0

**TOOLS TO BE USED** Rational Rose tool (for developing UML Patterns)

### **OVERVIEW**

SRS includes two sections overall description and specific requirements - Overall description will describe major role of the system components and inter-connections. Specific requirements will describe roles & functions of the actors

.

## **2. OVERALL DESCRIPTION**

### **PRODUCT PERSPECTIVE**

The CCP acts as an interface between the 'Customer' and the 'Card Reader'. This system tries to make the transaction as simple as possible and at the same time not risking the security of data transaction process. This minimizes the time duration in which the user receives the item.

### **FUNCTIONALITY**

Many members of the process lives to checking for the occurrence and transaction we all have to carry over sometimes user interface to make the transaction to be efficient.

The User interface makes the Credit Card Processing System to be efficient.

## **PERFORMANCE**

It is of the capacities about which it can perform function for many users at the same times efficiently that are without any error occurrence.

## **RELIABILITY**

The system should be able to process the user for their corresponding request.

## **ASSUMPTION AND DEPENDENCIES**

The Vendor and Customer must have basic knowledge of computers and English Language. The vendor may be required to delivered the item purchased by the customer.

## **UML DIAGRAMS**

The following UML diagrams describe the process involved in the online recruitment system

- a. Use case diagram
- b. Class diagram
- c. Sequence diagram
- d. Collaboration diagram
- e. State chart diagram
- f. Activity diagram
- g. Component diagram
- h. Deployment diagram
- i. Package diagram

## **USE CASE DIAGRAM**

The use cases are a set of scenarios to guide together by a common user goal. A scenario is the sequence of steps describing an interaction between a user and their system.



## DOCUMENTATION OF USE CASE DIAGRAM

The actors in this use case diagram are customer, vendor and card reader. The use cases are the activities performed by actors.

The actors in this use case diagram are

- **Customer** – used to purchase some item from the shop by using credit card payment.
- **Vendor** – used to issue a bill for selected item and verify the card holder signature and then delivery the item.
- **Card reader** – its make the amount transaction for required credit card and print the balance statement.

The use cases in this use case diagram are

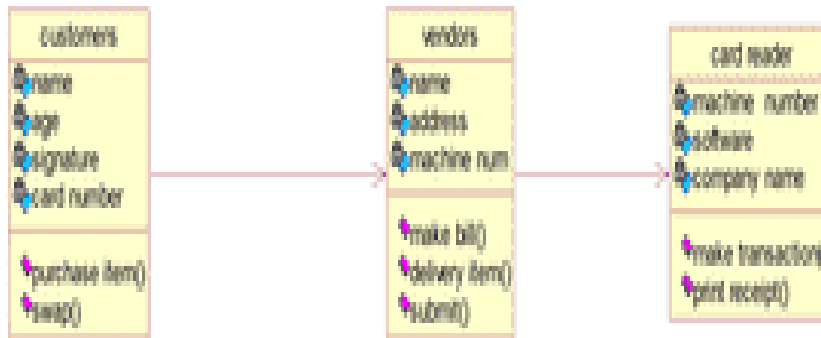
**Purchase item** – customer enter the shop to purchase some item by using credit card payment.

- **Bill issue** – vendor will make a bill for the selected item.
- **Swap the card** – vendor will swap the card.
- **Make transaction**– card reader will processes the amount transaction.
- **Print the statement** – after the transaction, balance amount should be printed.

- **Signature** – customer should put the signature and give it to vendor.
- **Deliver the item**–vendor issued to deliver a item.

## CLASS DIAGRAM

The Class diagram the types of object in the system an the various kinds of static relation ships that exists among them.



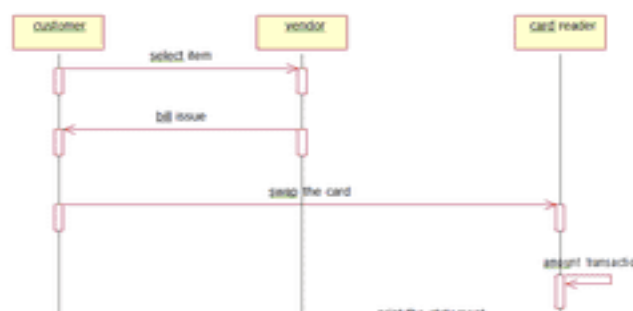
## DOCUMENTATION OF CLASS DIAGRAM

The Classes used in this project are:

- **Customer** – is the class name. Its attributes are name, age, signature, and card number. The operations performed in the customer class are purchase item and swap the credit card.
- **Vendor** – is the class name. Its attributes are name, address, and phone number. The operations performed are make bill and then delivered item purchased by the customer.
- **Card Reader** – is the class name. Its attributes are machine number, software and company. The operations performed are make the transaction and print balance statement.

## SEQUENCE DIAGRAM

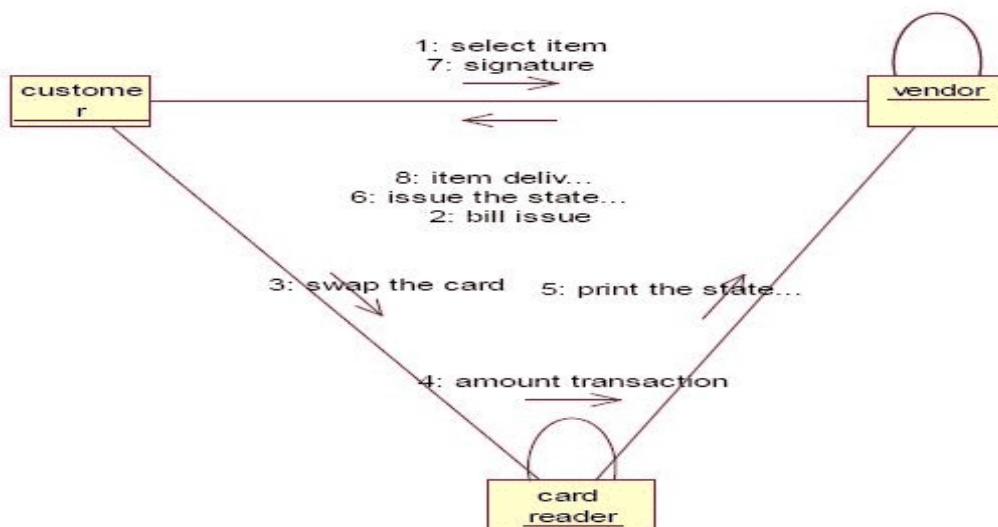
It is a kind of interaction diagram in which an object is shown as a box at the top of the dash vertical line. This vertical line is called object life time. The life time represent the object's life during interaction object deletion is shown with a large x.



## DOCUMENTATION OF SEQUENCE DIAGRAM

The customer wants to purchase some item from the shop; Vendor makes a bill for the selected item. The Customer gives the credit card to the vendor to the swap the card. The further transaction is proceeding for if the credit card is validated. Vendor will issue the required balance statement to the customer. Customer put the signature in the receipt and returns the one copy of statement to the vendor.

## COLLABORATION DIAGRAM



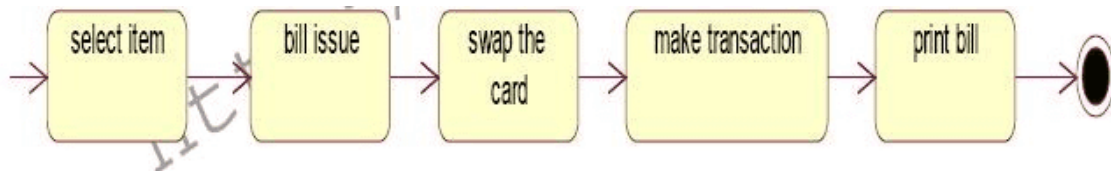
In a collaboration diagram object are shown as icons as on. A collaboration diagram arrow indicates the message send within the given use case. The sequence is indicated by numbering the messages.

## DOCUMENTAION OF COLLABORATION DIAGRAM

In this diagram there is sequence of ordered relationship should performing in the CCP, then Customer will performed a selecting item, putting signature, and deliver the item, Vendor should perform the swap the card, issue the statement and Card reader should perform amount transaction and print the balance statement.

## STATECHART DIAGRAM

It is a familiar technique to describe the behavior of the system. Events involve in the state chart diagram a purchase, make transaction, delivery the item.



## DOCUMENTAION OF STATECHART DIAGRAM

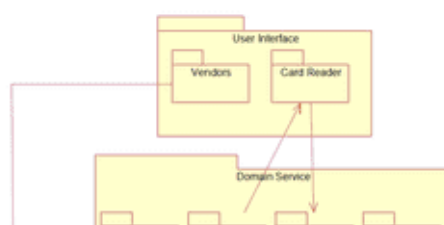
The Entire process of CCP could be shown in the start state to goal state behavior should be performed by the Customer, Vendor and Card reader in this credit card processing system.

## PACKAGE DIAGRAM

A package is represented as folder among shown as large rectangle with a tab attached its upper left corner. A package may contain both subordinated package both ordinary model can be organized into packages.

**There are three types of layers includes in package diagram:**

- User interface layer
- Domain layer
- Technical layer



## DOCUMENTATION OF PACKAGE DIAGRAM

The three layers in the credit card processing system are

**The User interface layer** - consists of the Card reader and Vendor. This layer describes how the customer is used to purchasing and makes it transaction process.

- **The Domain layer** – shows the activities that are performed in the Credit card processing system. The activities are purchase the item, make transaction and delivered item.
- **The Technical service layer** – To verify a required Customer Signature.

## COMPONENT DIAGRAM

The component diagram is represented by figure dependency and it is a graph of design of figure dependency.

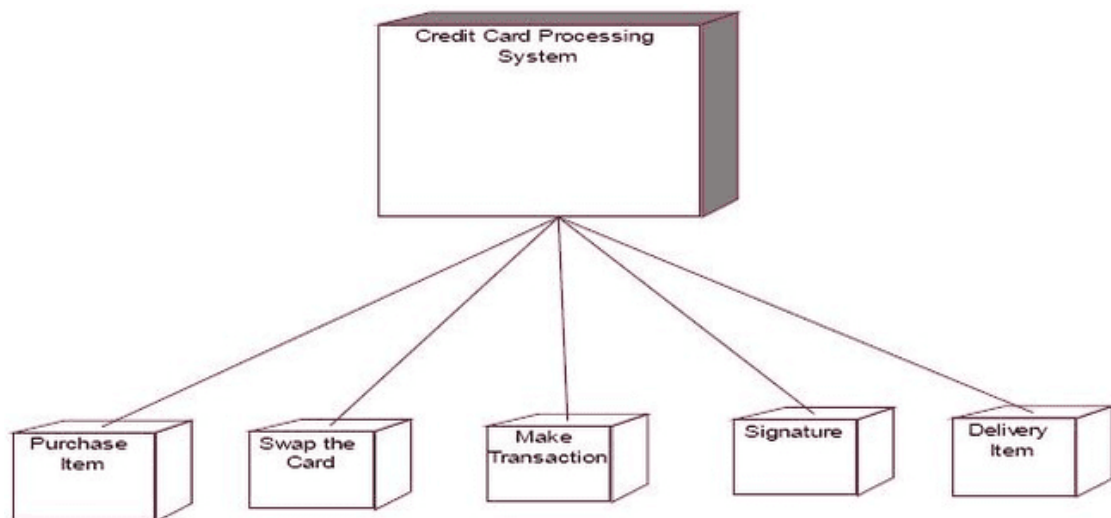
## DOCUMENTATION OF COMPONENT DIAGRAM

In this diagram there link between the actor is present in the CCP, that could be shown in diagrammatically way in the component diagram. Each every actor is having a bidirectional link to process further details present in the system.



## DEPLOYMENT DIAGRAM

A deployment diagram in the unified modeling language serves to model the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3-dimensional box. Dependencies are represented by communication association.



## DOCUMENTATION OF DEPLOYMENT DIAGRAM

The processor in this deployment diagram is the credit card processing system which is the main part and the devices are the purchase item, swap the card, make transaction, verify signature, delivery item which are the some of the main activities performed in the system.

**FOR**  
**MS:**  
**FOR**





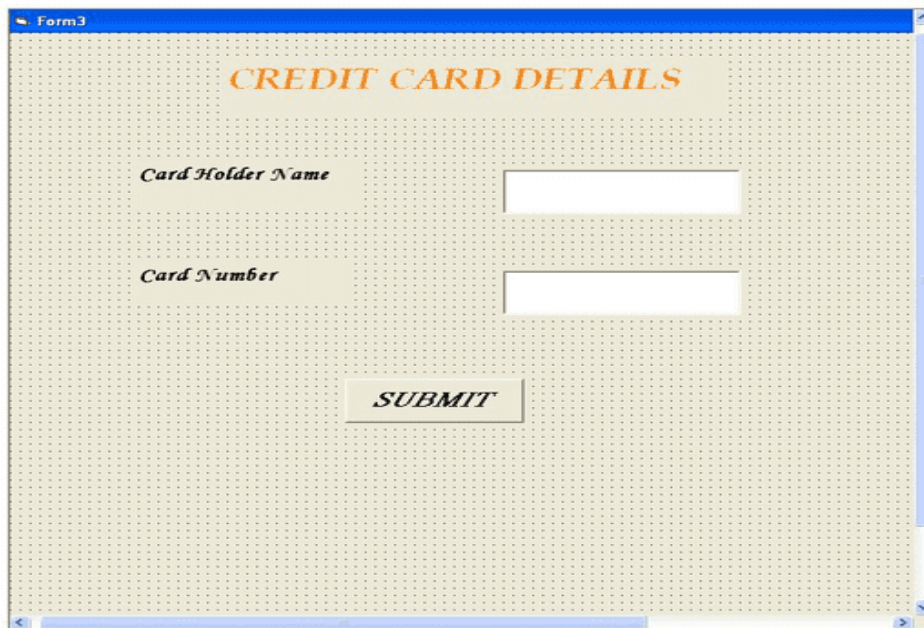
The screenshot shows a Windows-style window titled 'Form1' with a 'Toolbox' tab. The window has a light green background with a dotted grid. At the top, the title 'CALLING COMMUNICATION' is displayed in red, italicized, uppercase letters. Below the title, there are two labels: 'Item Name' and 'Item Code', both in italicized black font. To the right of each label is a dropdown menu. The 'Item Name' dropdown shows 'Select The Item' and the 'Item Code' dropdown shows 'Select The Item Code'. At the bottom of the form, there are two buttons: 'Purchase' and 'Cancel', both in italicized black font.

## FORM 2



The screenshot shows a Windows-style window titled 'Form2'. The window has a light green background with a dotted grid. At the top, the title 'PAYMENT DETAILS' is displayed in blue, italicized, uppercase letters. Below the title, there is a label 'Credit Card Type' in italicized black font. To the right of the label is a dropdown menu showing 'Select the Card'. At the bottom of the form, there are two buttons: 'OK' and 'CANCEL', both in italicized black font.

## FORM 3



A screenshot of a Windows application window titled "Form3". The window has a blue title bar and a light beige background with a dotted pattern. At the top center, the text "CREDIT CARD DETAILS" is displayed in a bold, orange, serif font. Below this, there are two input fields. The first is labeled "Card Holder Name" in a black, italicized, serif font, followed by a white rectangular text box. The second is labeled "Card Number" in the same font style, followed by another white rectangular text box. Below these fields is a button labeled "SUBMIT" in a black, italicized, serif font, enclosed in a light beige rectangular box with a thin black border. The window has standard Windows scroll bars on the right and bottom.



A screenshot of a Windows application window titled "Form4". The window has a blue title bar and a light beige background with a dotted pattern. The text is centered and displayed in a purple, italicized, serif font. The text reads: "You Are Successfully Purchase The Selected Item From The Calling Communication....." followed by "THANK YOU!" and "WELCOME AGAIN!!!!!!" on separate lines. The window has standard Windows scroll bars on the right and bottom.

**FORM 4**

## RESULT

Thus the project to develop credit card processing system using Rational Rose Software and to implement the project in Visual Basic is done successfully.

## **EXPERIMENT 9**

### **E-BOOK MANAGEMENT SYSTEM**

#### **AIM**

To develop a project E-Book Management system using Rational Rose Software and to implement the software in Java.

#### **PROBLEM ANALYSIS AND PROJECT PLANNING**

Ebook Management System gives an idea about how books are maintained in the particular websites. The books that are to be purchased, the books that are to be sold are maintained here. . Further some additional details of the current books that is available in the store are also given. Ebook Management System in this project is done in an authorized way. The password and user id has been set here.

#### **PROBLEM STATEMENT**

The website has to be maintained properly since the whole ebook purchase process can be improved. Ebook management in this project gives the idea about how ebooks are maintained in a particular concern. The book details which includes the number of books available ,no of pages and price. Ebook management system the Ebook management in this project is understood by going through the modules that is being involved.

#### **1. INTRODUCTION**

Ebook managemnt gives an idea about how ebooks are maintained in the particular concern. The ebooks that are to be purchased, the ebooks that are to be sold are maintained here. Further some additional details of the current ebook list that is available in the website is also given. Ebook management in this project is done in an authorized way.

#### **2. OBJECTIVE**

The main objective of this project is to overcome the work load and time consumption which makes the maintenance of the ebook in an organization as a tedious process. This project provides complete information about the details of the ebook to the customers. This project identifies the amount of book available, . Separate modules have been created for purchasing, viewing book details, and delivery details.

### 3. OVERVIEW

The overview of the project is to Storing of information about the ebooks and updating the ebook list for each organization which is using this system, keeps track of all the information about the ebooks purchased that are made by the customers, having registration feature of adding up new customers to the organization are provided in this system.

### 4. GLOSSARY

TERMS	DESCRIPTION
CUSTOMER	Customer will purchase the books from the Website .
DATABASE	Database is used to store the books and details of books.
ADMIN	Handles all the support features and the technical works in the application.
SOFTWARE REQUIREMENT SPECIFICATION	This software specification documents full set of features and function for ebook management system that is performed in application.

### 5. PURPOSE

The purpose of ebook management system is to store and sell the books in a website effectively.

### 6. SCOPE

The scope of this ebook management is to maintain the book details after the purchase and list of reaming books available in the same book type.

## **7. FUNCTIONALITY**

The main functionality of ebook maintenance system is to store and sell ebooks for a website.

## **8. USABILITY**

User interface makes the ebook management system to be efficient. That is the system will help the admin to maintain stock details easily and helps the store to handle the stocks effectively. The system should be user friendly.

## **9. PERFORMANCE**

It describes the capability of the system to perform the ebook management system of the store without any error and performing it efficiently.

## **10. RELIABILITY**

The ebook management system should be able to serve the customer with correct information and day-to-day update of ebook list details.

## **11. FUNCTIONAL REQUIREMENTS**

Functional requirements are those refer to the functionality of the system. That is the services that are provided to the webstie which maintains ebooks in online database.

## **UML DIAGRAMS**

The following UML diagrams describe the process involved in the stock maintenance system

Use case diagram

Class diagram

Sequence diagram

Collaboration

diagram State chart

diagram Activity

diagram

Component

diagram

Deployment

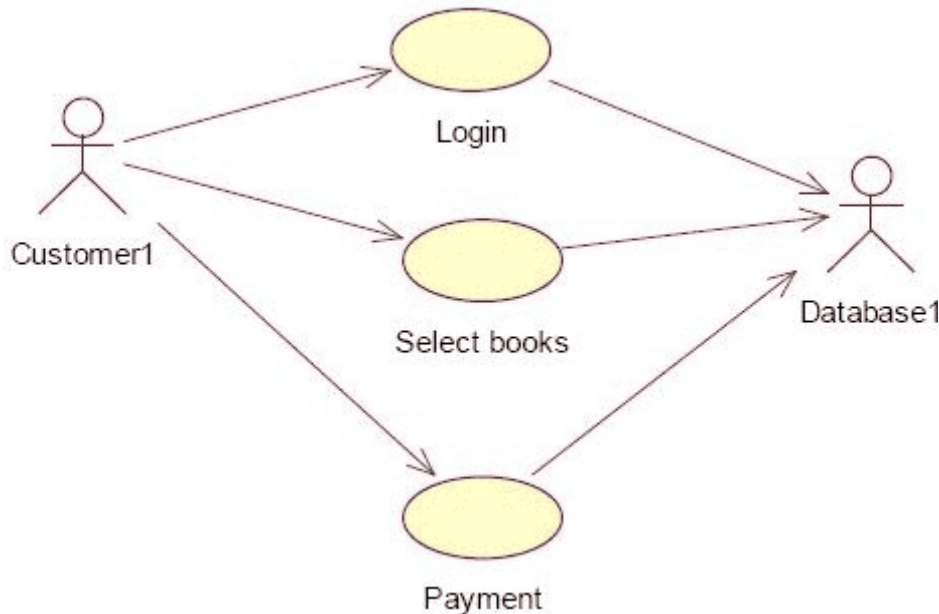
diagram Package

diagram

## USE CASE DIAGRAM

A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. The use case is made up of a set of possible sequences of interactions between systems and users in a particular environment and related to a particular goal. It is represented using ellipse.

Actor is any external entity that makes use of the system being modelled. It is represented using stick figure.



## DOCUMENTATION OF USE CASE DIAGRAM

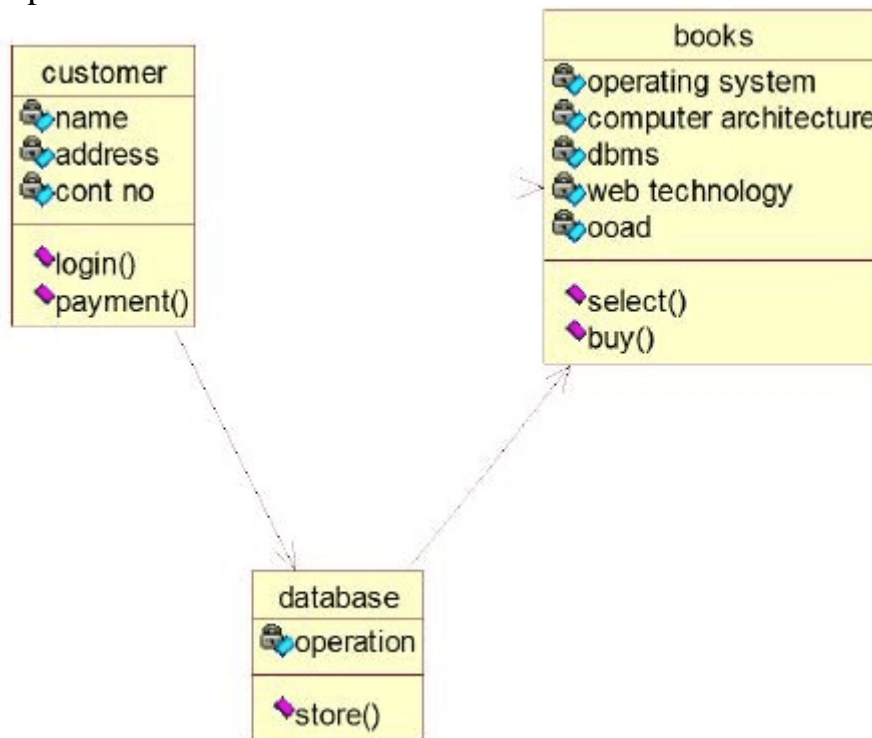
The actors in this use case diagram are Supplier, Store Keeper and Database. The usecases are the activities performed by actors.

- The website will give the books available.
- Customer will login and check the list of ebooks in the database.
- The database will be updated according to the purchase done and it will be up to date. The use cases in the use case diagram are Quotation & Purchase, login, stock, purchase.
- Select books will gives us the status of the purchasing order details
- Login will gives us the entry for the customer of this project.
- Database will gives us the details about the total ebook available.
- Purchase will gives us the details about the details and the history of ebooks purchased.



## CLASS DIAGRAM

A class diagram in the unified modeling language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, and the relationships between the classes. It is represented using a rectangle with three compartments. Top compartment have the class name, middle compartment the attributes and the bottom compartment with operations.



## DOCUMENTATION OF CLASS DIAGRAM

This class diagram has three classes applicant, recruiter and database.

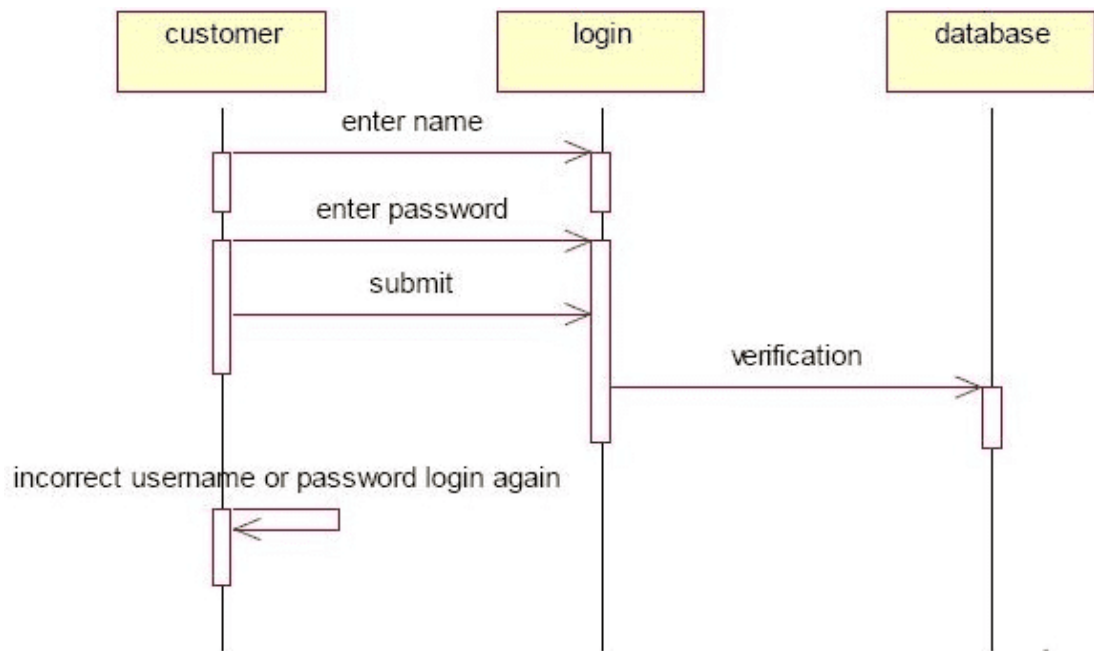
- **Customer** – is the class name. Its attributes are name, address and cont no. The operations performed in the Supplier class are get order, supply goods and get money.
- **Books** – is the class name. Its attributes are operating system, computer architecture, dbms, web technology and ooad. The operations performed are select and buy.
- **Database** – is the class name. Its attribute is operation. The operations performed is store .

## SEQUENCE DIAGRAM

A sequence diagram in Unified Modeling Language (UML) is a kind of interaction diagram that shows how processes operate with one another and in what order. It is a construct of a Message Sequence Chart. There are two dimensions.

1. Vertical dimension-represent time.

2. Horizontal dimension-represent different objects.



## DOCUMENTATION OF SEQUENCE DIAGRAM

The sequence diagram describes the sequence of steps to show

- The Customer enters the Ebook website.
- The list of books available are listed.
- Customer checks the book list.
- Database provides user id and pass.
- Customer selects the book.
- Pay money to the Website.

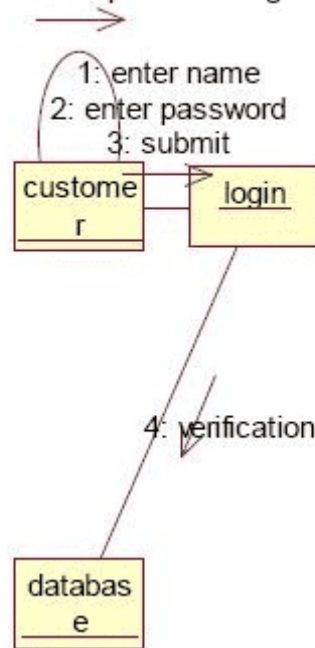
## COLLABORATION DIAGRAM

A collaboration diagram, also called a communication diagram or interaction diagram,. A sophisticated modeling tool can easily convert a collaboration diagram into a sequence diagram and the vice versa. A collaboration diagram



resembles a flowchart that portrays the roles, functionality and behavior of individual objects as well as the overall operation of the system in real time

5: incorrect username or password login again

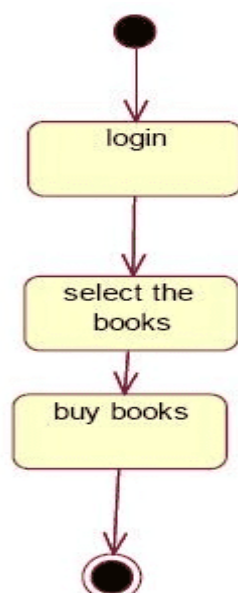


## DOCUMENTATION OF COLLABORATION DIAGRAM

The first collaboration diagram is to show how the customer login and getting details of ebooks in the ebook management system. Here the sequence is numbered according to the flow of execution.

## STATE CHART DIAGRAM

The purpose of state chart diagram is to understand the algorithm involved in performing a method. It is also called as state diagram. A state is represented as a round box, which may contain one or more compartments. An initial state is represented as small dot. A final state is represented as circle surrounding a small dot.



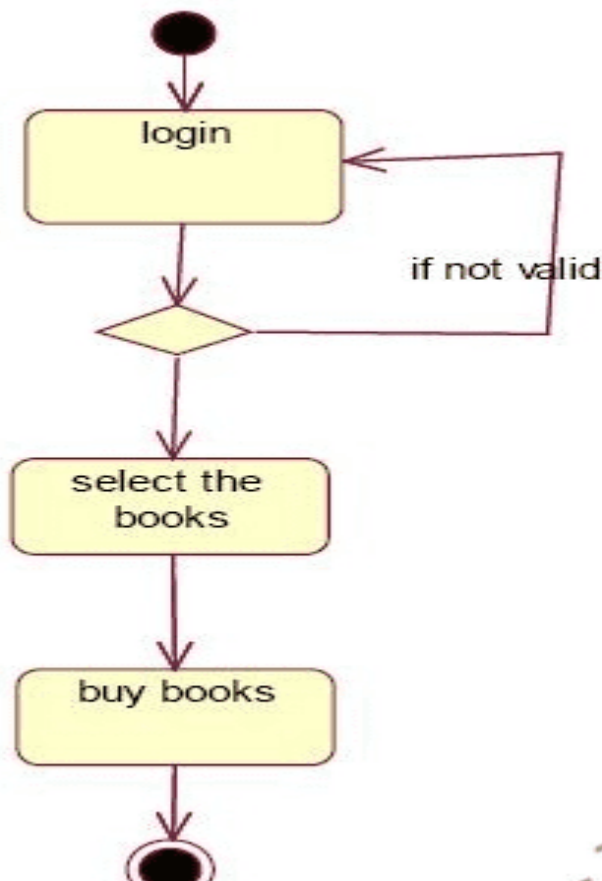
## DOCUMENTATION OF STATE CHART DIAGRAM

This state diagram describes the behavior of the system. First state is login where the customer login to the ebook management system.

- The next state is check the list of books in order.
- Then select buy the book.
- Enter the account detail and purchase the book.

## ACTIVITY DIAGRAM

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control. An activity is shown as an rounded box containing the name of the operation.



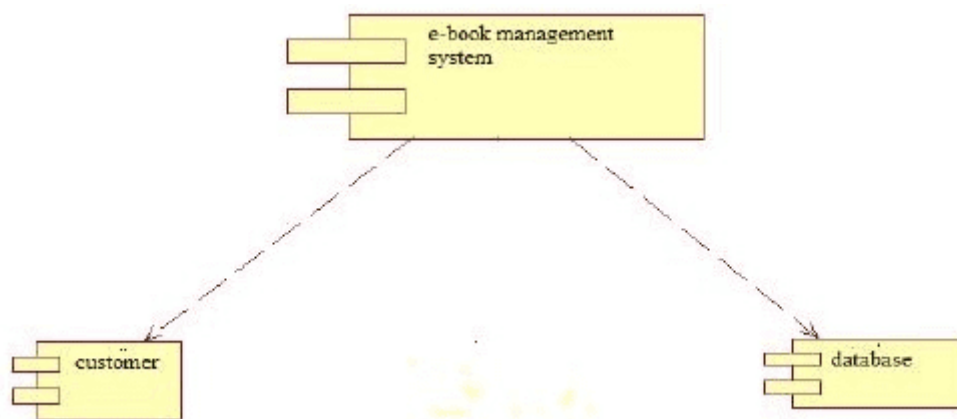
## DOCUMENTATION OF ACTIVITY DIAGRAM

This activity diagram flow of stepwise activities performed in recruitment system.

- First Customer login then checks books available.
- The book list are verified and is given in a ordered format.
- The needed book is selected.
- Enter your account details and purchase the book .

## COMPONENT DIAGRAM

The component diagram's main purpose is to show the structural relationships between the components of a systems. It is represented by boxed figure. Dependencies are represented by communication association.

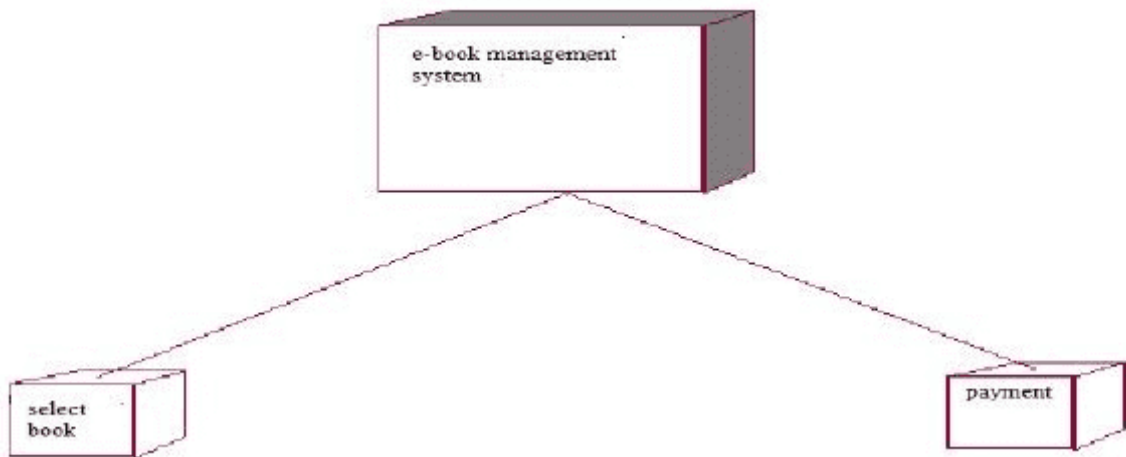


## DOCUMENTATION OF COMPONENT DIAGRAM

The main component in this component diagram is online recruitment systems. And Supplier, storekeeper and database are the components come under the main component.

## DEPLOYMENT DIAGRAM

A deployment diagram in the unified modeling language serves to model the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3-dimentional box. Dependencies are represented by communication association.

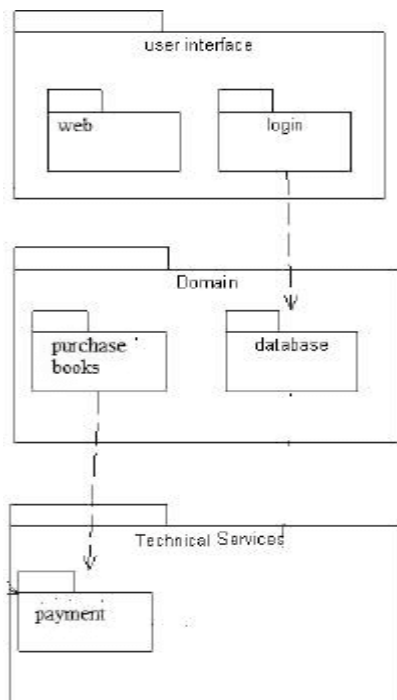


## DOCUMENTATION OF DEPLOYMENT DIAGRAM

The processor in this deployment diagram is the online recruitment system which is the main part and the devices are the select and payment which are the some of the main activities performed in the system.

## PACKAGE DIAGRAM

A package diagram in unified modeling language that depicts the dependencies between the packages that make up a model. A Package Diagram (PD) shows a grouping of elements in the OO model, and is a Cradle extension to UML.

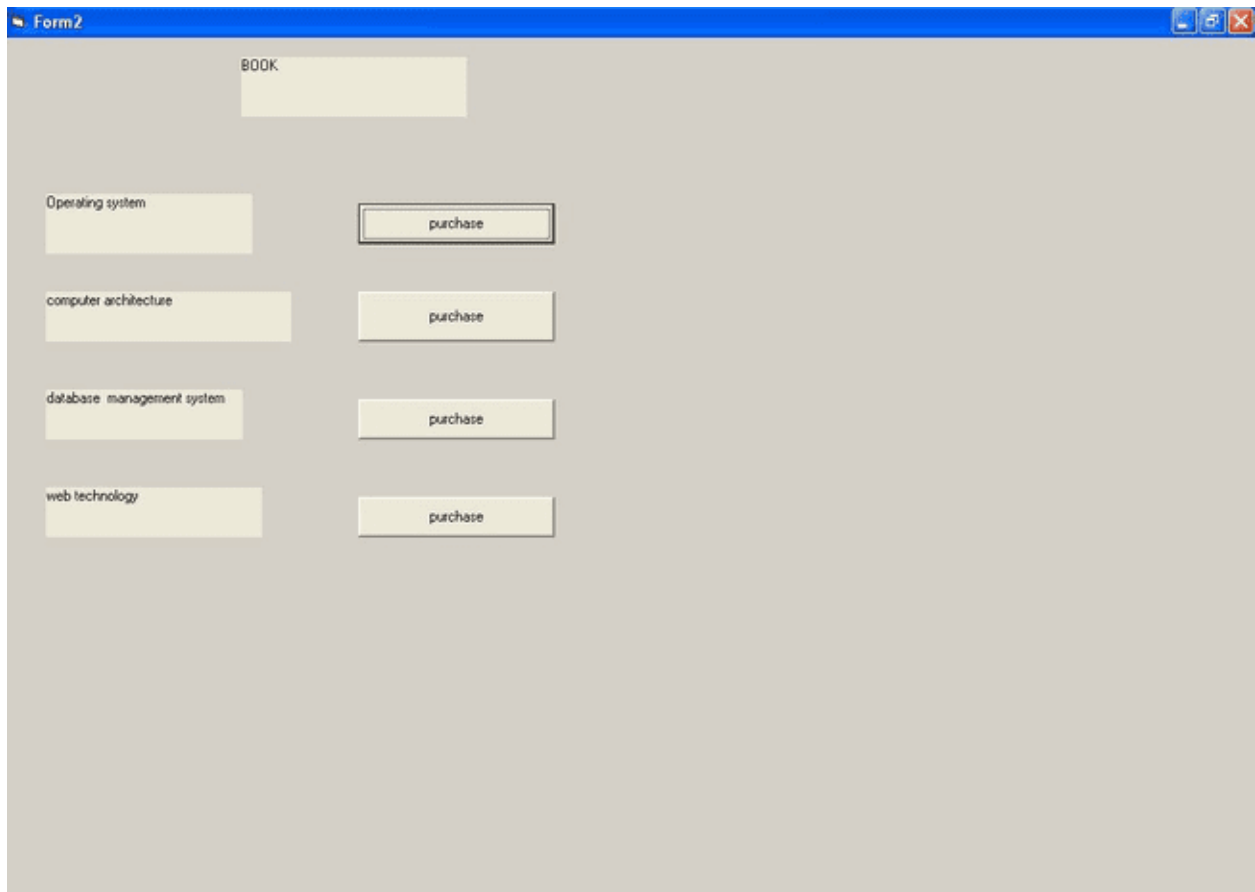


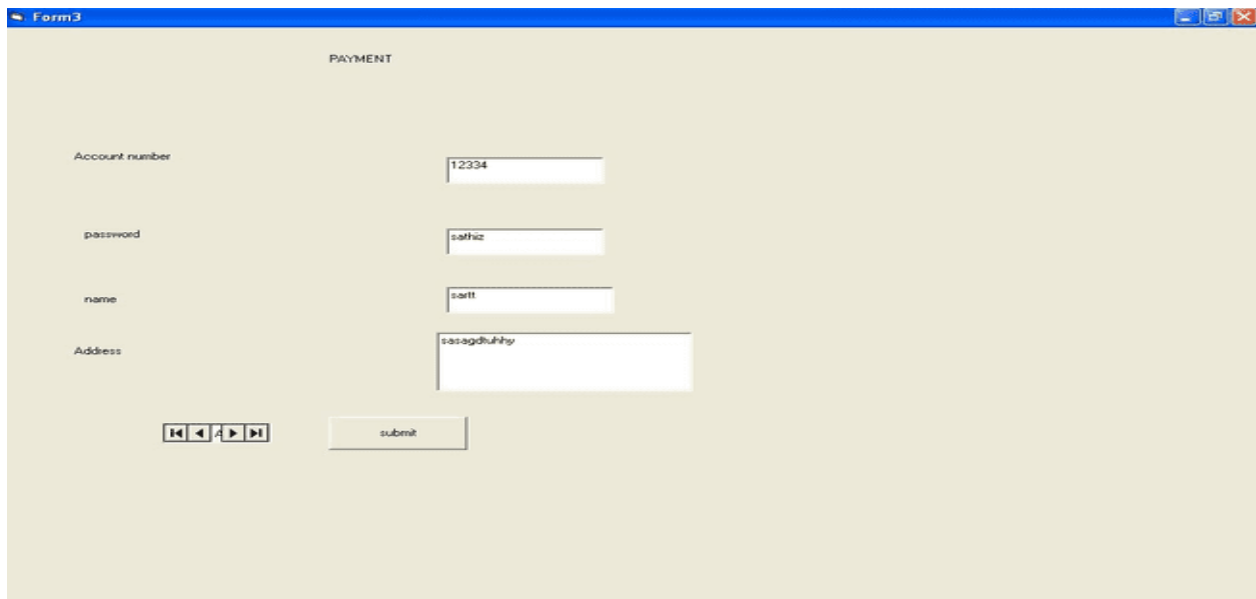
PDs can be used to show groups of classes in Class Diagrams (CDs), groups of components or processes in Component Diagrams (CPDs), or groups of processors in Deployment Diagrams (DPDs).

There are three types of layer. They are

- **User interface layer:** consists of the form and login. This layer describes how the customer logs in and books maintained in website.
- **Domain layer:** shows the activities that are performed in the ebook management system. The activities are books are purchased from the websote
- **Technical services layer:** the update the account details and buy the book by payment through the account

**FOR  
MS  
FOR  
M 1**



**FORM 2**

Form3

PAYMENT

Account number: 12334

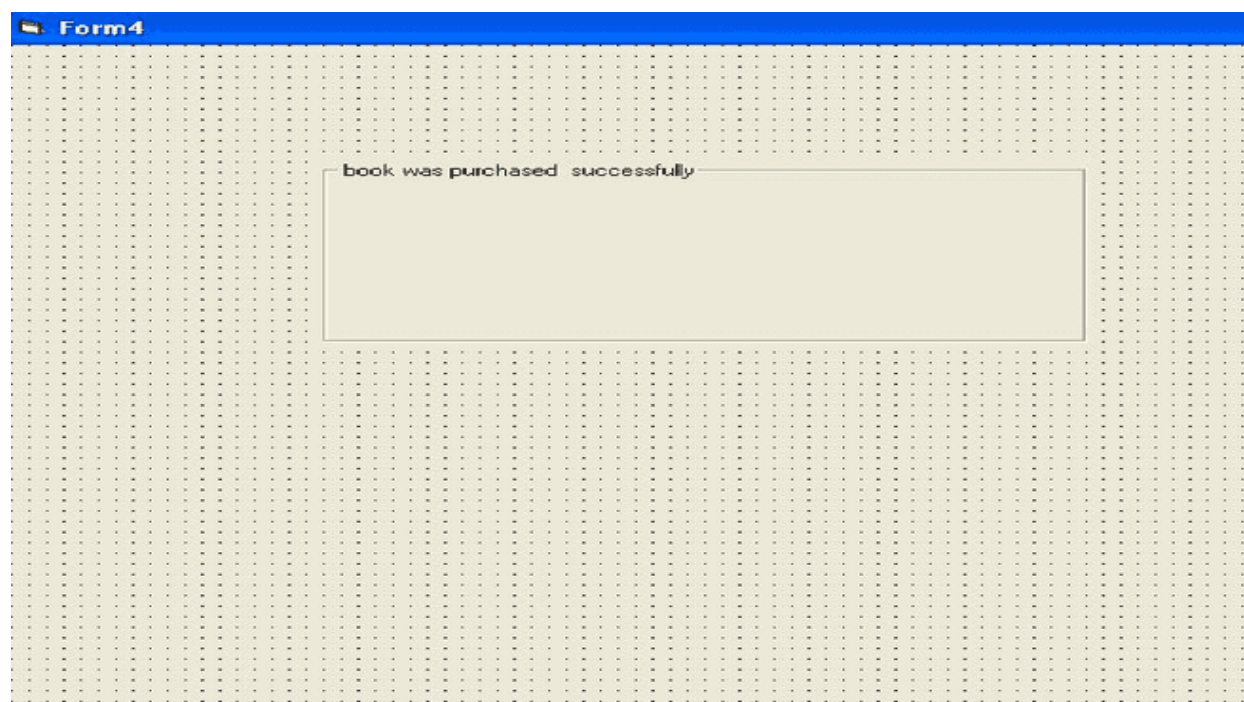
password: sathiz

name: sarit

Address: sasagduhhy

Navigation buttons: << < > >>

submit

**FORM 3**

Form4

book was purchased successfully

**RESULT**

Thus the project to develop Ebook Management System using Rational Rose Software and to implement the software in Java is done successfully.

## **EXPERIMENT 10**

### **RECRUITMENT SYSTEM**

#### **AIM**

To develop a project on online recruitment system using Rational Rose Software and to implement the project in Visual Basic.

#### **PROBLEM ANALYSIS AND PROJECT PLANNING**

The Online Recruitment System is an online website in which applicant can register themselves and then attend the exam. Examination will be conducted at some venue. The details of the examination, venue & Date of the examination will be made available to them through the website. Based on the outcome of the exam the applicant will be short listed and the best applicant is selected for the job.

#### **PROBLEM STATEMENT**

The process of applicants is login to the recruitment system and register for the job through online. The resume is processed by the company and the required applicant is called for the test. On the basis of the test marks, they are called for next level of interview. Finally the best applicant is selected for the job. This process of online recruitment system are described sequentially through following steps,

- The applicant login to the online recruitment system.
- They register to the company for the job.
- They appear for examination.
- Based on the outcome of the exam, the best applicant is selected.
- The recruiter informs the applicant about their selection.

#### **1. INTRODUCTION**

This software specification documents full set of features and function for online recruitment system that is performed in company website. In this we give specification about the system requirements that are apart from the functionality of the system to perform the recruitment of the jobseekers. It tells the usability,



## 2. OBJECTIVE

The main objective of Online Recruitment System is to make applicants register themselves online and apply for job and attend the exam. Online Recruitment System provides online help to the users all over the world.

## 3. OVERVIEW

The overview of the project is to design an online tool for the recruitment process which ease the work for the applicant as well as the companies. Companies can create their company forms according to their wish in which the applicant can register.

### GLOSSARY

#### TERMS

#### DESCRIPTION

APPLICANT

Applicant can register himself. After registration, he will be directed to his homepage. Here he can update his profile, change password and see the examination details and all.

RECRUITER

Recruiter verify applicant details and conduct examination, approve or disapprove applicant attending examination and provides results about the selected applicant.

DATABASE

Database is used to verify login and store the details of selected applicants.

READER

Anyone visiting the site to read about online recruitment system.

USER

Applicant and the reader

SOFTWARE  
SPECIFICATION

REQUIREMENT

This software specification documents full set of features and function for online recruitment system that is performed in company website.

The main functionality of recruitment system is to recruit the applicant for the job in their company.

## **8. USABILITY**

User interface makes the Recruitment system to be efficient. That is the system will help the applicant to register easily and helps the companies to recruit the applicant effectively. The system should be user friendly.

## **9. PERFORMANCE**

It describes the capability of the system to perform the recruitment process of the applicant without any error and performing it efficiently.

## **10. RELIABILITY**

The online recruitment system should be able to serve the applicant with correct information and day-to-day update of information.

## **FUNCTIONAL REQUIREMENTS**

Functional requirements are those refer to the functionality of the system. That is the services that are provided to the applicant who apply for the job.

## **UML DIAGRAMS**

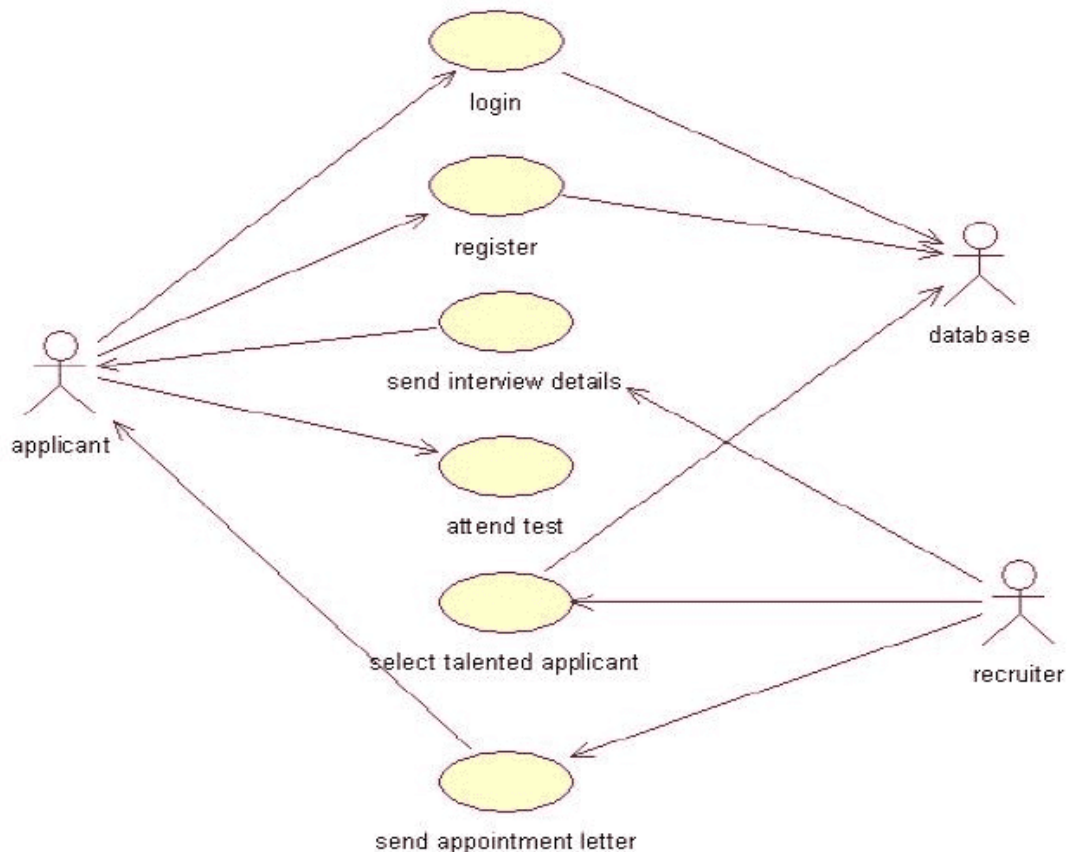
The following UML diagrams describe the process involved in the online recruitment system

- Use case diagram
- Class diagram
- Sequence diagram
- Collaboration diagram
- State chart diagram
- Activity diagram
- Component diagram
- Deployment diagram

- Package diagram

## USE CASE DIAGRAM

A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. The use case is made up of a set of possible sequences of interactions between systems and users in a particular environment and related to a particular goal. It is represented using ellipse. Actor is any external entity that makes use of the system being modelled. It is represented using stick figure.



## DOCUMENTATION OF USE CASE DIAGRAM

The actors in this use case diagram are applicant, recruiter and database. The use cases are the activities performed by actors.

The actors in this use case diagram are

- **Applicant** - logs in the recruitment system and register for the job and attend the test conducted at some venue.
- **Recruiter** - send the interview details, select talented applicant and send appointment letter to them.

**Databases** - verify the login and register details and selected applicant details

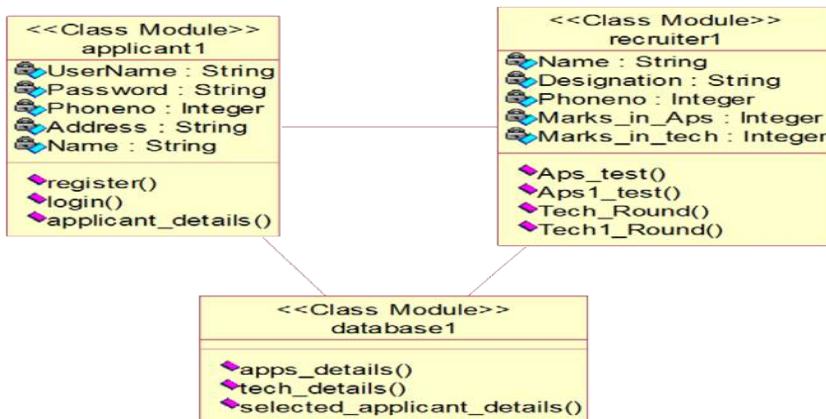
are stored in it.

The use cases in this use case diagram are

- **Login** - applicant enter their username and password to enter in to the recruitment system
- **Register** – applicant register in to the recruitment system for job.
- **Send interview details** – recruiter send interview details to the applicant.
- **Attend test** – applicant appears for the test.
- **Select talented applicant** – based on the outcome of test talented applicant is selected.
- **Send appointment letter** – appointment letter is sent to the selected applicant by recruiter.
- **CLASS DIAGRAM**

A class diagram in the unified modeling language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, and the relationships between the classes. It is represented using a rectangle with three compartments. Top compartment have the classname, middle compartment the attributes and the bottom compartment with operations.

## DOCUMENTATION OF CLASS DIAGRAM



This class diagram has three classes applicant, recruiter and database.

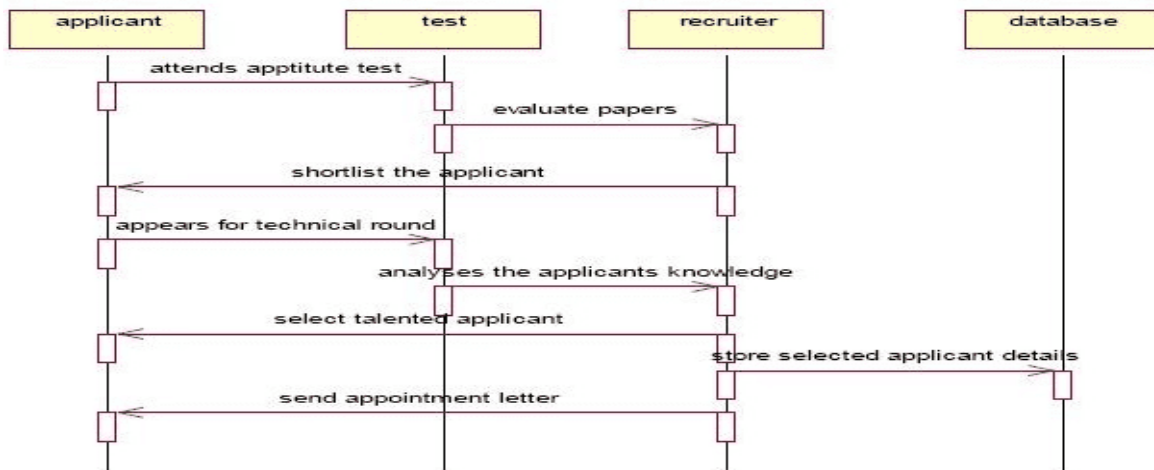
- **Applicant** – is the class name. Its attributes are username, password, name, phone no and address. The operations performed in the applicant class are login, register and giving applicant details.
- **Recruiter** – is the class name. Its attributes are name, designation, phone no, marks in apps and marks in technical. The operations performed are selecting applicants based on apps and technical.
- **Database** – is the class name. The operations performed are storing applicant details, verifying login and storing selected applicant details.

## SEQUENCE DIAGRAM

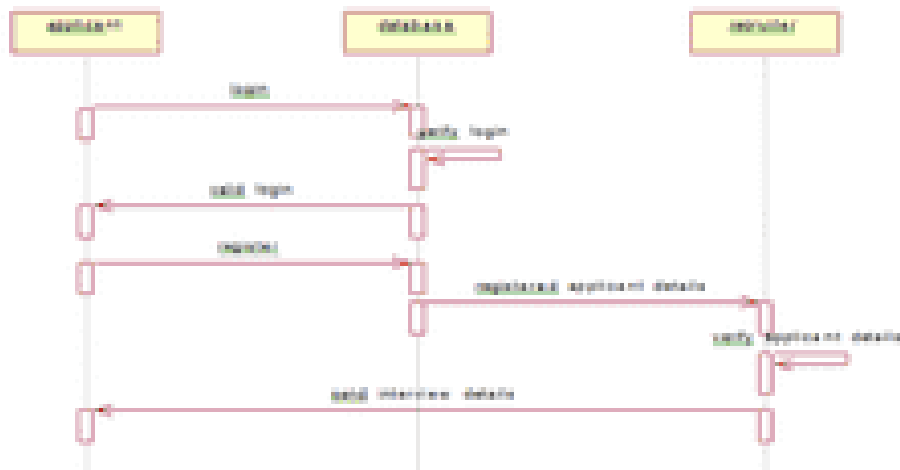
A sequence diagram in Unified Modeling Language (UML) is a kind of interaction diagram that shows how processes operate with one another and in what order. It is a construct of a Message Sequence Chart. There are two dimensions.

1. Vertical dimension-represent time.
2. Horizontal dimension-represent different objects.

## FOR SELECTING APPLICANT



## FOR REGISTER



## DOCUMENTATION OF SEQUENCE DIAGRAM

### REGISTER

This sequence diagram describes the sequence of steps to show

- The applicant login in to the recruitment system and register for job.
- The verification done in the database and recruiter
- The interview details are send to the applicant by recruiter.

### SELECTING APPLICANT

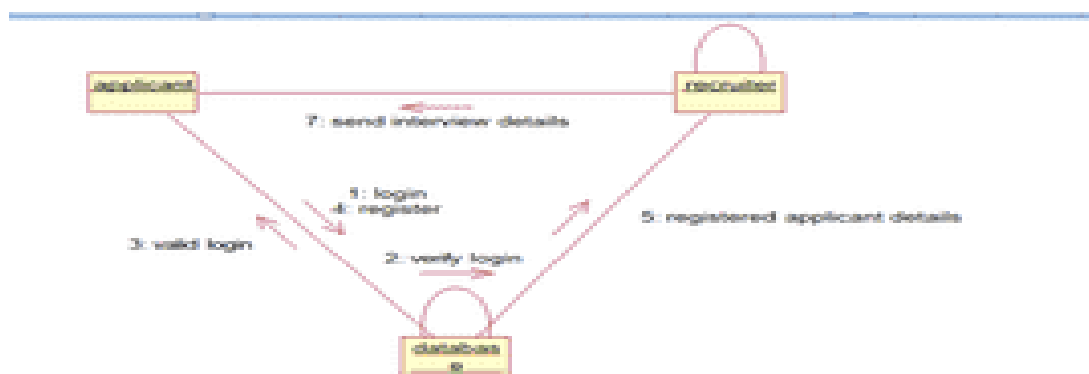
This sequence diagram shows steps to show

- The applicant attend aptitude test and they are short listed based on evaluation

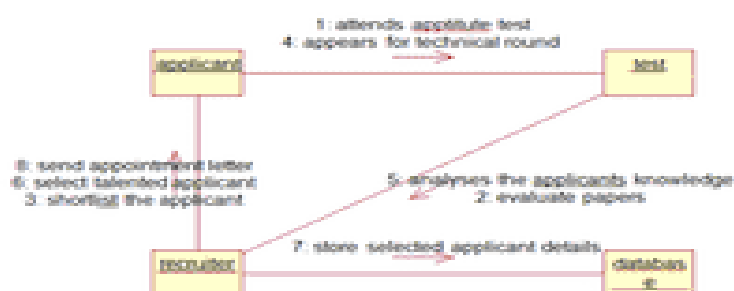
- The applicant appear for technical round
- The talented applicant is selected.
- This detail is stored in the database.

## COLLABRATION DIAGRAM

A collaboration diagram, also called a communication diagram or interaction diagram,. A sophisticated modeling tool can easily convert a collaboration diagram into a sequence diagram and the vice versa. A collaboration diagram resembles a flowchart that portrays the roles, functionality and behavior of individual objects as well as the overall operation of the system in real time



### FOR SELECTING APPLICANT



### FOR REGISTER

## DOCUMENTATION OF COLLABRATION DIAGRAM

### REGISTER

This collaboration diagram is to show how the applicant login and register in the recruitment system. Here the sequence is numbered according to the flow of execution.

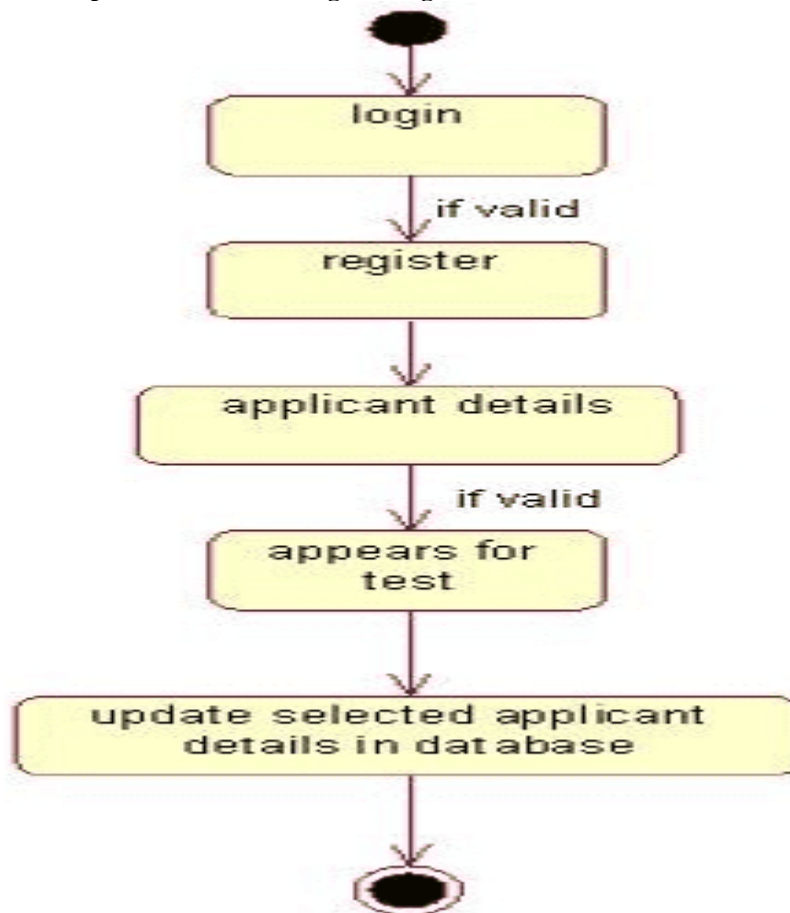
### **SELECTING APPLICANT**

This collaboration diagram is to show the selection process of the applicant for the job. The flow of execution of this selection process is represented using the numbers.

### **STATE CHART DIAGRAM**

The purpose of state chart diagram is to understand the algorithm involved in performing a method. It is also called as state diagram. A state is represented as a round box, which may contain one or more compartments. An initial state is represented as small dot. A final state is represented as circle surrounding a small dot.





## DOCUMENTATION OF STATE CHART DIAGRAM

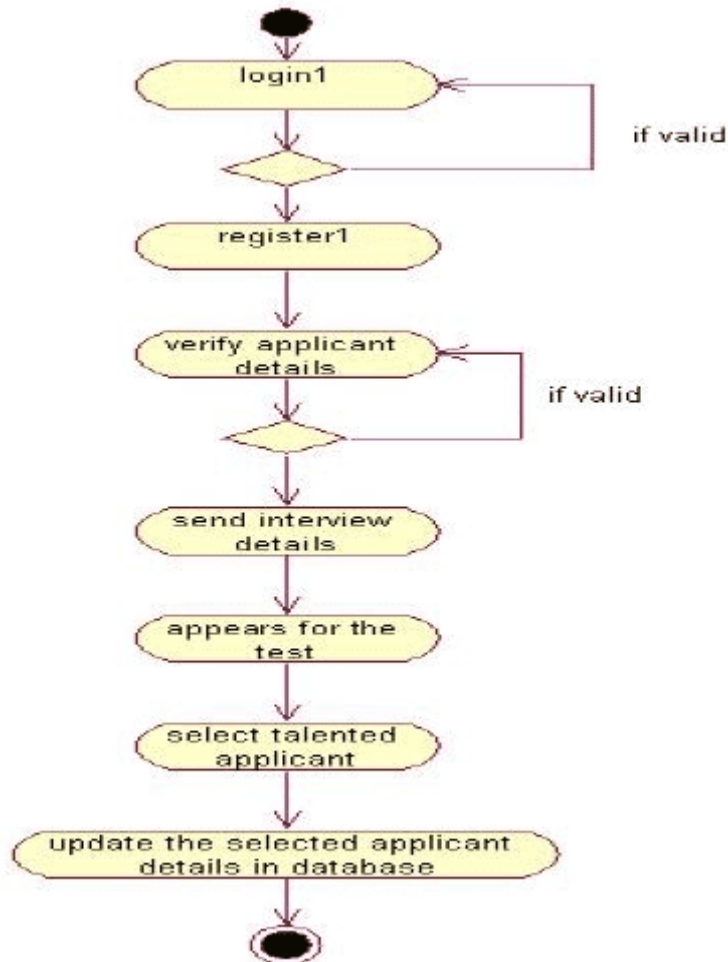
This state diagram describes the behaviour of the system.

- First state is login where the applicant login to the recruitment system.
- The next state is register where the applicant register for job.
- Then verify the applicant details and sent interview details.
- The applicant appears for test.
- Update database with details of selected applicant.

## ACTIVITY DIAGRAM

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control. An activity is shown as an

rounded box containing the name of the operation.



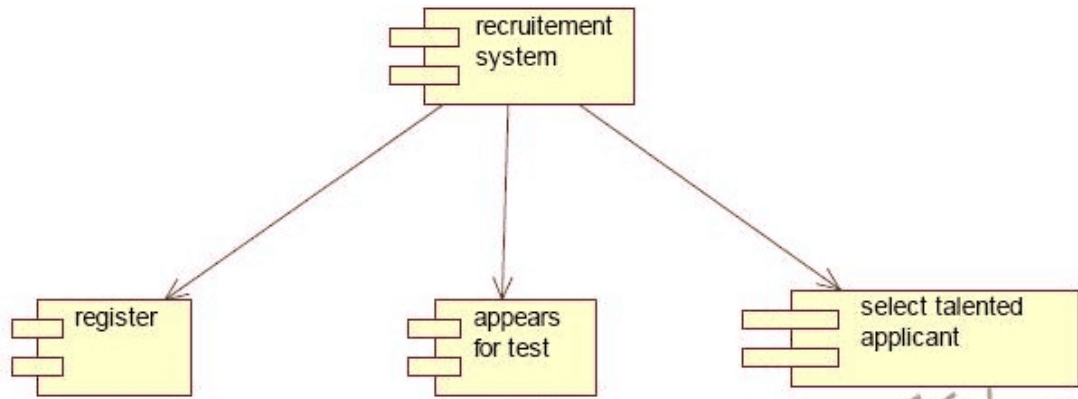
## DOCUMENTATION OF ACTIVITY DIAGRAM

This activity diagram flow of stepwise activities performed in recruitment system.

- First the applicant login then registers.
- The applicant details are verified and interview details are send to applicant by recruiter.
- Applicants appear for test.
- Recruiter select talented applicant.
- Update the selected applicant details in the database.

## COMPONENT DIAGRAM

The component diagram's main purpose is to show the structural relationships between the components of a system. It is represented by boxed figure. Dependencies are represented by communication association.

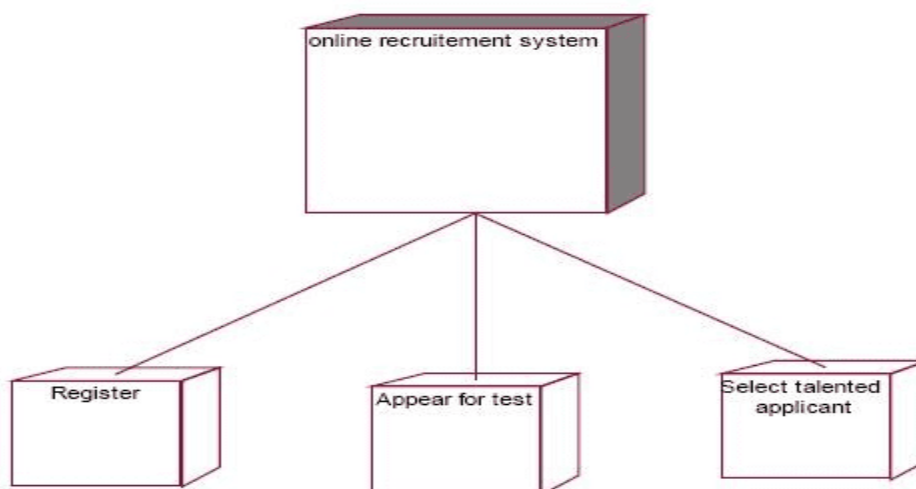


## DOCUMENTATION OF COMPONENT DIAGRAM

The main component in this component diagram is online recruitment systems. And register, attend test and select talented applicants are the components comes under the main component.

## DEPLOYMENT DIAGRAM

A deployment diagram in the unified modeling language serves to model the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3-dimensional box. Dependencies are represented by communication association.



## DOCUMENTATION OF DEPLOYMENT DIAGRAM

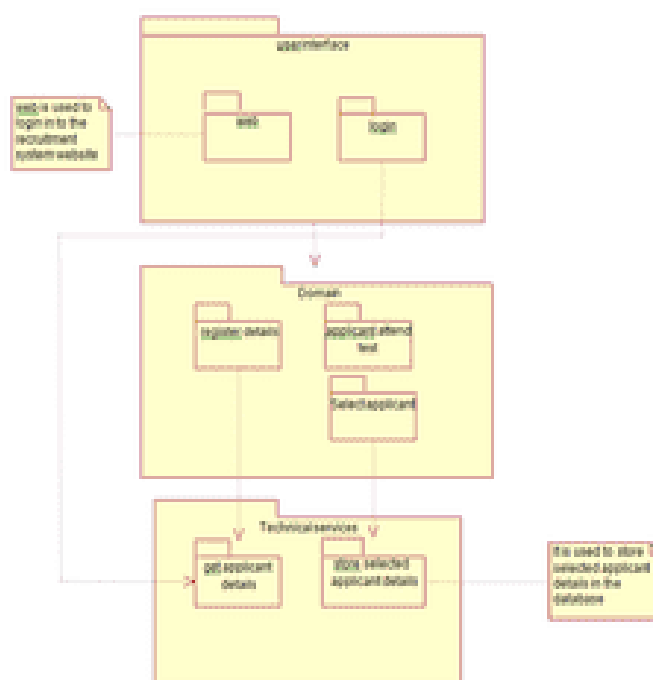
The processor in this deployment diagram is the online recruitment system which is the main part and the devices are the register, appear for test and select talented applicant which are the some of the main activities performed in the system.

### PACKAGE DIAGRAM

A package diagram in unified modeling language that depicts the dependencies between the packages that make up a model. A Package Diagram (PD) shows a grouping of elements in the OO model, and is a Cradle extension to UML. PDs can be used to show groups of classes in Class Diagrams (CDs), groups of components or processes in Component Diagrams (CPDs), or groups of processors in Deployment Diagrams (DPDs).

There are three types of layer. They are

- **User interface layer** - software objects representing domain concepts that fulfill application requirements, such as calculation a sale total.
- **Domain layer** – layer that contains domain objects to handle application logic work.
- **Technical services layer** – general purpose objects and subsystems that provide supporting technical services, such as interfacing with a database or error logging.

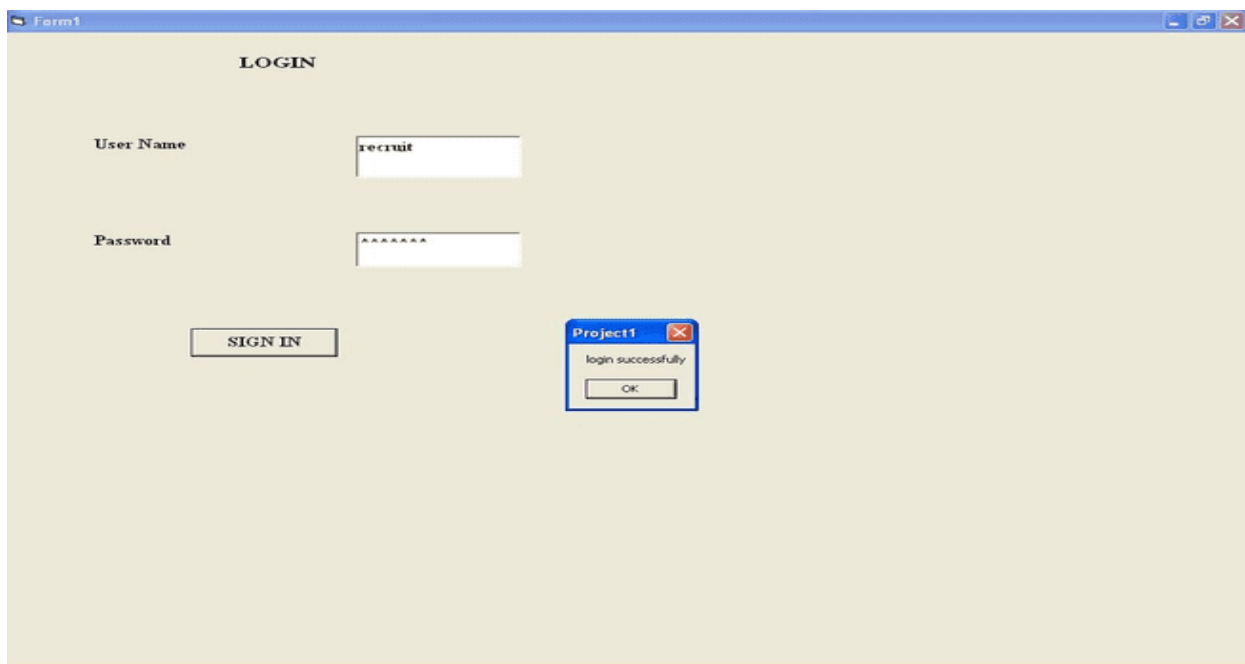


## DOCUMENTATION OF PACKAGE DIAGRAM

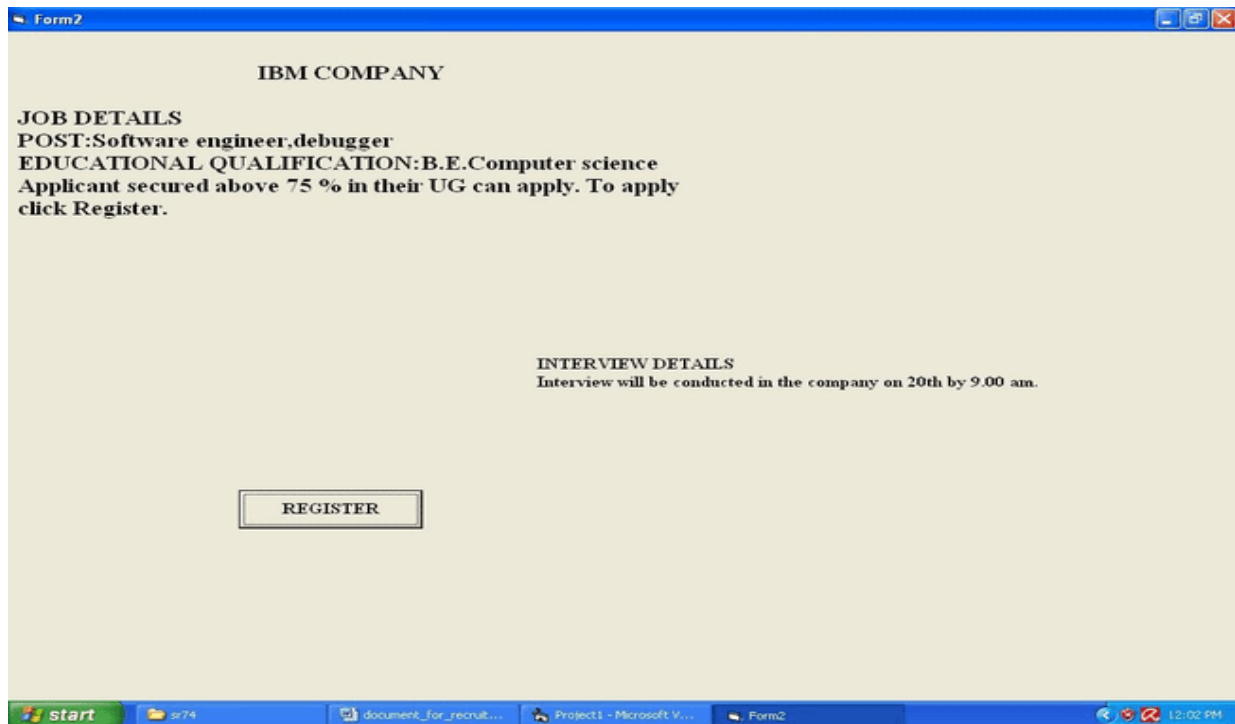
The three layers in the online recruitment system are

- **The User interface layer** - consists of the web and login. This layer describes how the applicant logs in to the website and apply for the job.
- **The Domain layer** – shows the activities that are performed in the online recruitment system. The activities are register, attend test and select talented applicant.
- **The Technical service layer** - the applicant details, verification details and the selected applicant details are stored in the database.

FO  
RMS  
FO  
RM1



## FORM2



**IBM COMPANY**

**JOB DETAILS**  
**POST:Software engineer,debugger**  
**EDUCATIONAL QUALIFICATION:B.E.Computer science**  
Applicant secured above 75 % in their UG can apply. To apply click Register.

**INTERVIEW DETAILS**  
Interview will be conducted in the company on 20th by 9.00 am.

**REGISTER**

## FORM3

**PERSONAL DETAILS**

Name:

Address:

Phone no:

Educational Qualification:

Percentage in UG:

Post:

**Project1**  
you are registered successfully

## FORM4

**APPTITUDE TEST DETAILS**

Name	Aptest
anu	85
arun	75
anitha	90
babu	80
babitha	60
dinesh	78
raja	89
ravi	65
sekar	40

TO SEE THE APPLICANT WHO ARE SELECTED FOR TECHNICAL ROUND.CLICK SHOW

Navigation:

## FORM5

Form5

APPLICANTS SELECTED FOR TECHNICAL ROUND

Name	Agtest
anu	85
anitha	90
babu	80
dinesh	78
raja	89

TO SEE TECHNICAL ROUND DETAILS.CLICK SHOW

SHOW

Adodc1

start sr74 document\_for\_recruit... Project1 - Microsoft V... Form4 Form5 3:31 PM

## FORM6

Form6

TECHNICAL ROUND DETAILS

Name	Tech. n
anu	90
anitha	92
babu	88
dinesh	75
raja	95

TO SEE THE APPLICANT WHO ARE SELECTED AFTER TECHNICAL ROUND.CLICK SHOW

SHOW

Adodc1

start sr74 document\_for\_r... Project1 - Micro... Form4 Form5 Form6 3:32 PM

## FORM7



**Form7**

**SELECTED APPLICANT DETAILS**

Name
anu
anitha
raja

CONGRATULATIONS FOR THE SELECTED APPLICANTS....

Navigation buttons: << < > >>

Windows taskbar: start, 3274, document\_f..., Project1 - M..., Form4, Form5, Form6, Form7, 3:32 PM

## FORM 8

**Microsoft Access - [apps : Table]**

File Edit View Insert Format Records Tools Window Help

Type a question for help

Name	Aptest
anu	85
arun	75
anitha	90
babu	80
babitha	60
dinesh	78
raja	89
ravi	65
sekar	40
smitha	70

Record: 14 of 10

Datasheet View

## RESULT

Thus the project to develop online recruitment system using Rational Rose Software and to implement the project in Visual Basic is done successfully.