



**SRM VALLIAMMAI ENGINEERING COLLEGE**  
SRM NAGAR, KATTANKULATHUR -603203



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**LAB MANUAL**

**CS3465 -OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY**

**(II YEAR CSE/ FOURTH SEMESTER)**

**(REGULATION 2023)**  
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**PREPARED BY**

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## **CS3465 -OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY COURSE OBJECTIVES :**

The student should be made to:

- To capture the requirements specification for an intended software system
- To draw the UML diagrams for the given specification
- To map the design properly to code
- To test the software system thoroughly for all scenarios
- To improve the design by applying appropriate design patterns.

## **LIST OF EXPERIMENTS**

### **UML DESIGN**

1. To develop a problem statement.
2. Identify Use Cases and develop the Use Case model.
3. Identify the conceptual classes and develop a domain model with UML Class diagram.
4. Using the identified scenarios, find the interaction between objects and represent them using UML Sequence diagrams.
5. Draw relevant state charts and activity diagrams.
6. Identify the User Interface, Domain objects, and Technical services. Draw the partial layered, logical architecture diagram with UML package diagram notation.
7. Develop and test the Technical services layer.
8. Develop and test the Domain objects layer.
9. Develop and test the User interface layer

### **Suggested domains for Mini-Project ( any 3 can done):**

1. Passport automation system.
2. Exam Registration
3. Stock maintenance system.
4. Online course reservation system
5. Software personnel management system
6. Recruitment system
7. Conference Management System
8. BPO Management System
9. Library Management System

**TOTAL : 60 PERIODS**

## **COURSE OUTCOMES :**

**At the end of the course, the student should be able to**

- Perform OO analysis and design for a given problem specification.
- Identify and map basic software requirements in UML mapping.
- Use the UML analysis and design diagrams.
- Improve the software quality using design patterns and to explain the rationale behind applying specific design patterns
- Create code from design.

**HARDWARE REQUIREMENTS** :Standard PC  
**SOFTWARE REQUIREMENTS**

1. Windows 7 or higher
2. ArgoUML that supports UML 1.4 and higher
3. Selenium, JUnit or Apache JMeter

**Ex.No:1**                      **PASSPORT AUTOMATIONSYSTEM**

**DATE:**

**AIM**

To develop a Passport Automation System project using argouml tool.

**PROBLEM STATEMENT**

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. The core of the system is to get the registration form 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. The administrator will be provided with an option to display the current status of application to the applicant, which they can view in their online interface. After all the necessary criteria have been met, the original information is added to the database and the passport is sent to the applicant.

**SOFTWARE REQUIREMENT SPECIFICATION**

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  - 1.3 Documentconventions
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  - 2.1 ProductPerspective
  - 2.2 ProductFunctions
  - 2.3 Tools to beused
3. ExternalInterface
  - 3.1 HardwareInterface
  - 3.2 SoftwareInterface

- 4. SystemFeatures
  - 4.1 Applying forPassport
    - 4.1.1 System Description andPriority
    - 4.1.2 Stimulus/responseSequence
    - 4.1.3 FunctionalRequirements
- 5. Other non-functionalrequirements
  - 5.1 PerformanceRequirements
  - 5.2 SafetyRequirements
  - 5.3 SecurityRequirements

## **1. INTRODUCTION**

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.

### **1.1. PURPOSE**

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.

### **1.2. SCOPE**

The system provides a communication platform between the applicant and the administrator. This will help both the applicant and issuer by reducing the time and workload.

### **1.3 DOCUMENT CONVENTIONS, ACRONYMS AND ABBREVIATIONS**

- Administrator - Refers to the super user who is the Central Authority who has been vested with the privilege to manage the entire system.
- Applicant - One who wishes to obtain the Passport.
- PAS - Passport Automation System.

### **1.4. REFERENCES**

[www.passport.tn.nic.in](http://www.passport.tn.nic.in)

[www.india.gov.in](http://www.india.gov.in)

## **2.0 OVERALL DESCRIPTION**

### **2.1 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.

## **2.2 PRODUCTFUNCTIONS**

**Front-End:** The area of the interface in which the applicants will see their status.**Back- End:** The area of the interface in which the administrator verifies the details of the applicant.

## **2.3. TOOLS TO BE USED**

Visual Basic and Microsoft Access

## **3. EXTERNAL INTERFACEREQUIREMENTS**

### **3.1 HARDWAREINTERFACES**

The system should have good hardware support. The processor should have high speed and must be of high efficiency.

### **3.2 SOFTWAREINTERFACE**

The system uses ODBC drive to connect and control the database.

## **4 SYSTEMFEATURES**

### **4.1 APPLYING FORPASSPORT**

#### **4.1.1 DESCRIPTION ANDPRIORITY**

This system allows the applicant to apply for the passport through the interface.

#### **4.1.2 STIMULUS/RESPONSESEQUENCE**

When the applicant submits all the required details, his status will be updated in his/her account.

#### **4.1.3 FUNCTIONALREQUIREMENTS**

REQ 1: The applicant must have a registered account.

REQ 2: The applicant must submit only the valid information.

## **5 OTHER NONFUNCTIONALREQUIREMENTS**

### **5.1 PERFORMANCEREQUIREMENTS**

To increase performance and to free up database resources for other tasks, the default features are written to cache files on their initial load, and consequent accesses to them result in parsing a flat file for data.

### **5.2 SAFETY REQUIREMENTS**

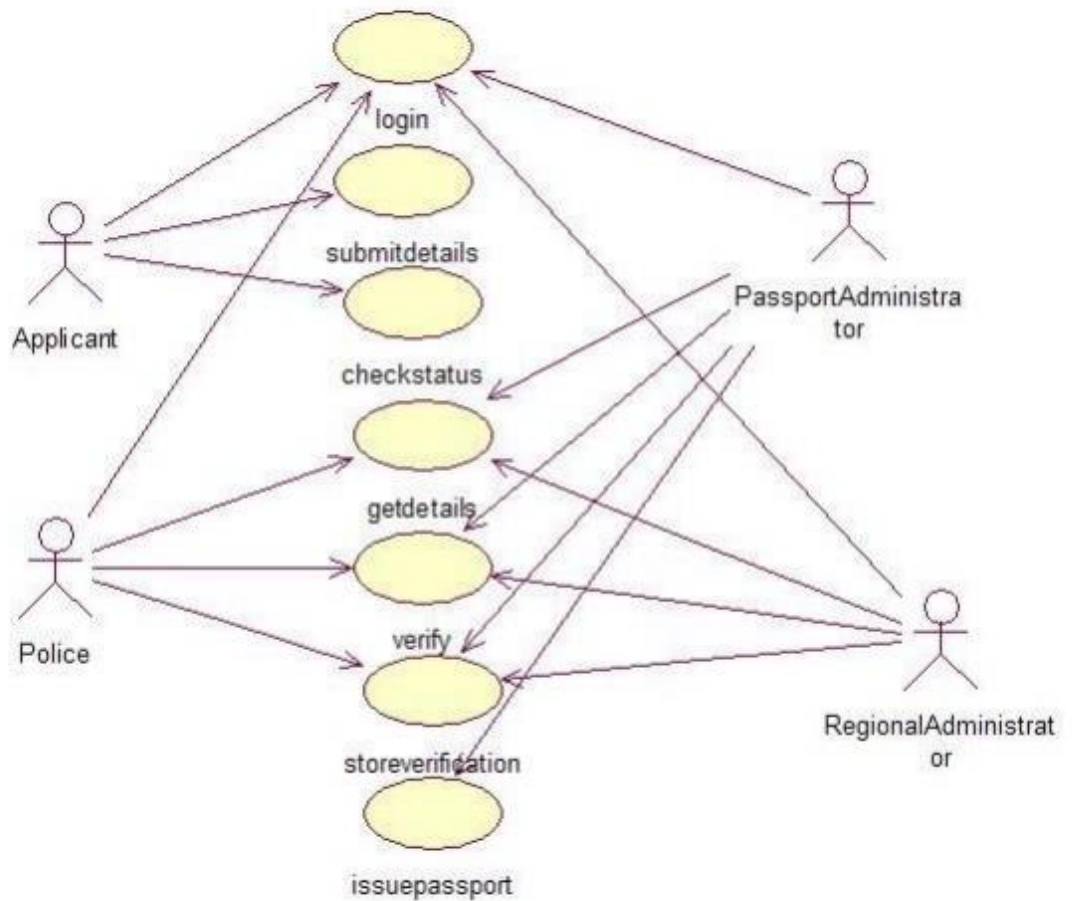
The database must be maintained effectively and the administrator must maintain the interface properly. The user has to be careful while submitting the information.

### 5.3 SECURITY REQUIREMENTS

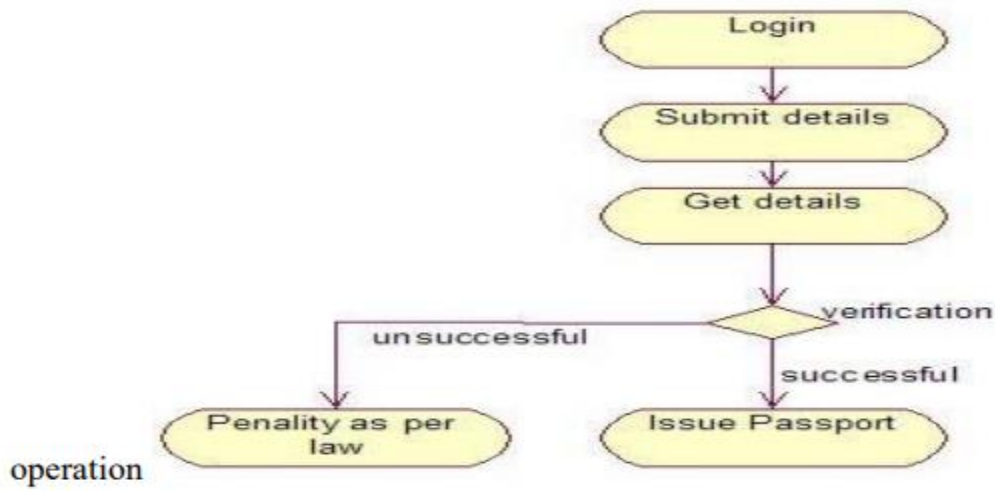
Passwords for registered accounts are stored as a hash in the database. Only the administrator can have access to the main database. The database must be protected from hacking the details of the applicants

## PASSPORT AUTOMATION SYSTEM

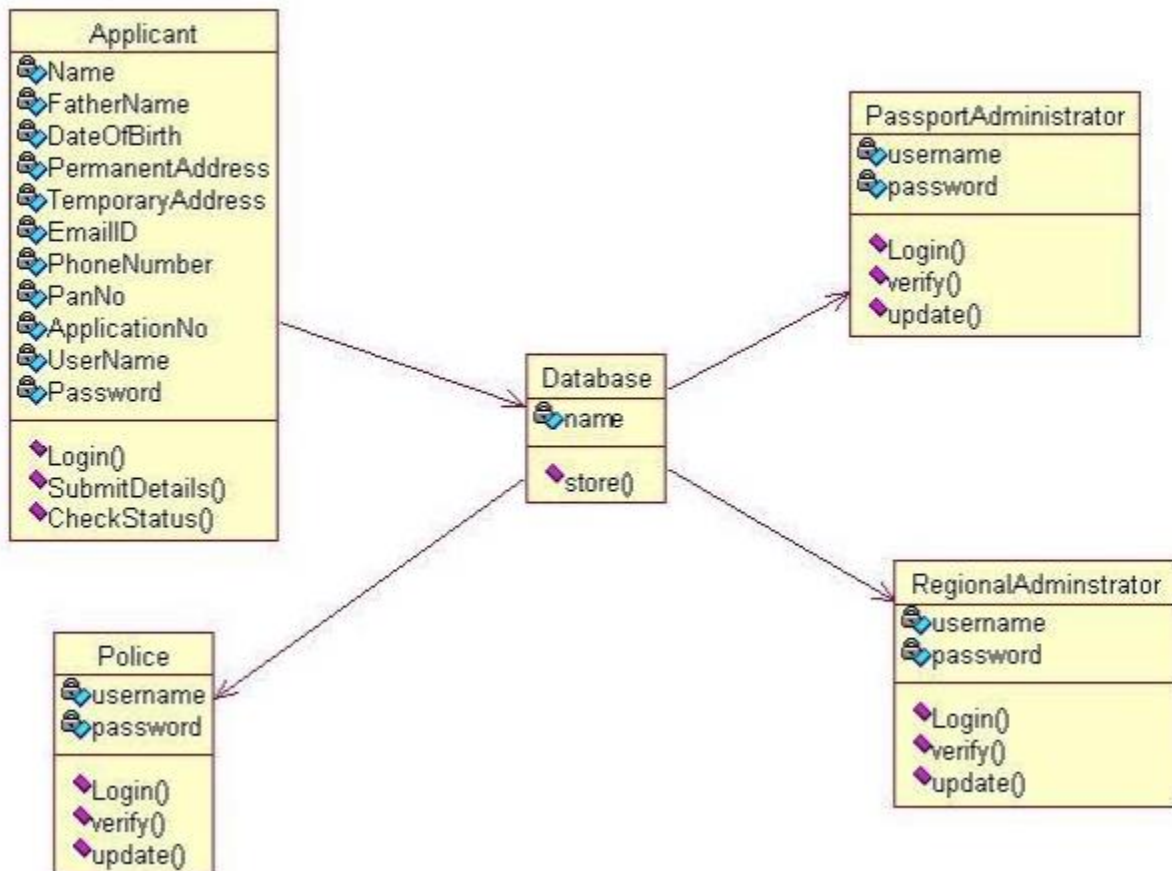
### 1. Use Case Diagram :



## 2. Activity Diagram :

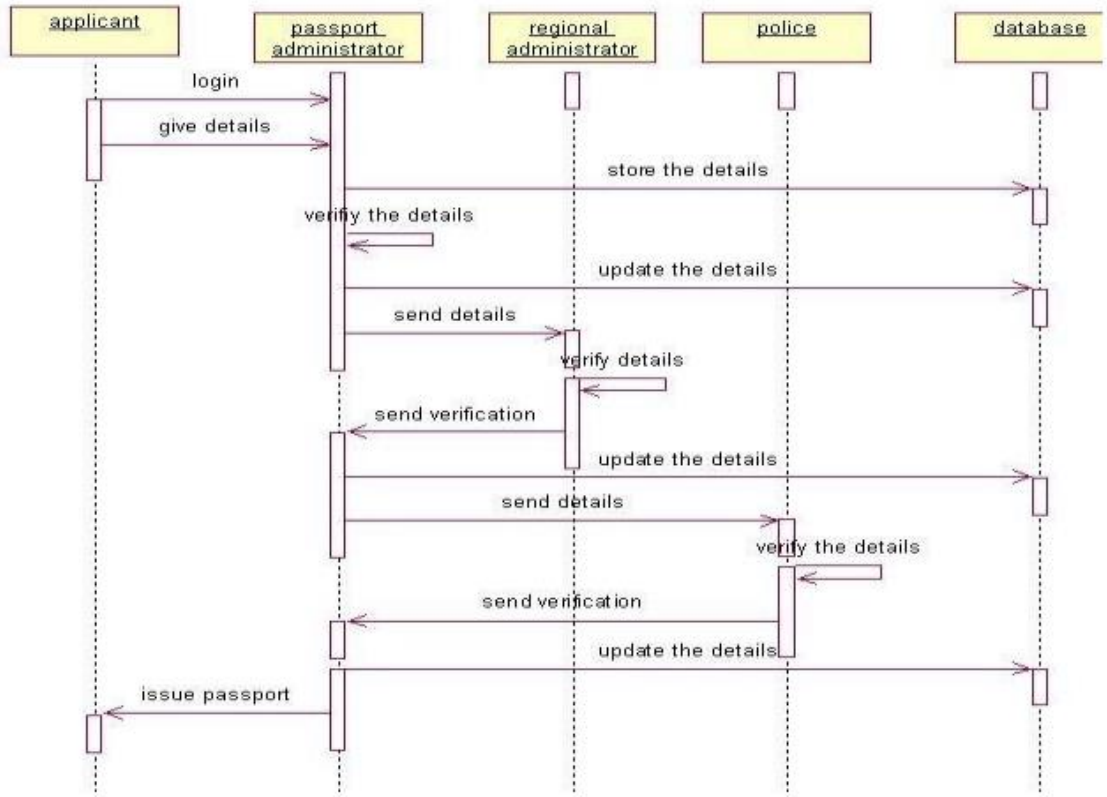


## 3. Class Diagram:



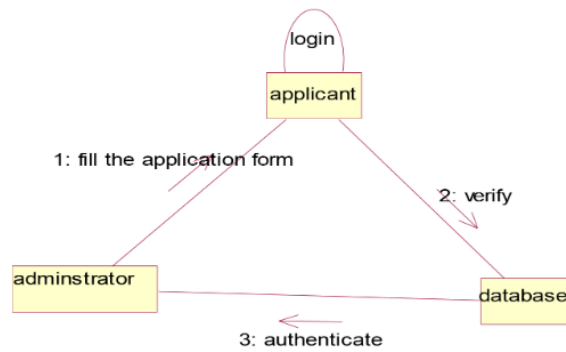
#### 4. Interaction Diagram:

##### (i) Sequence Diagram



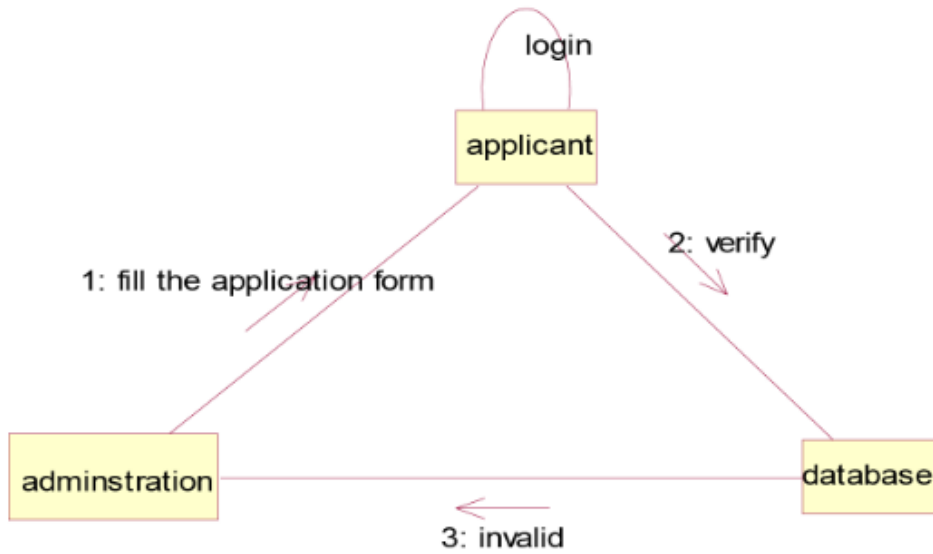
##### (ii) Collaboration Diagram :

Valid Passport Pin:

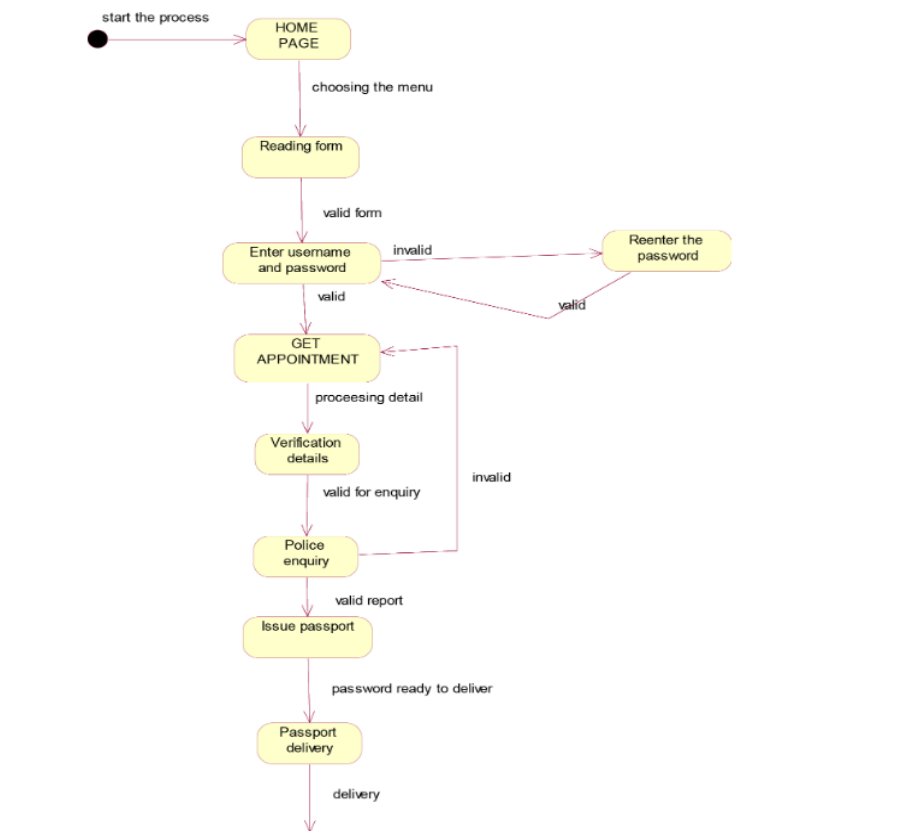




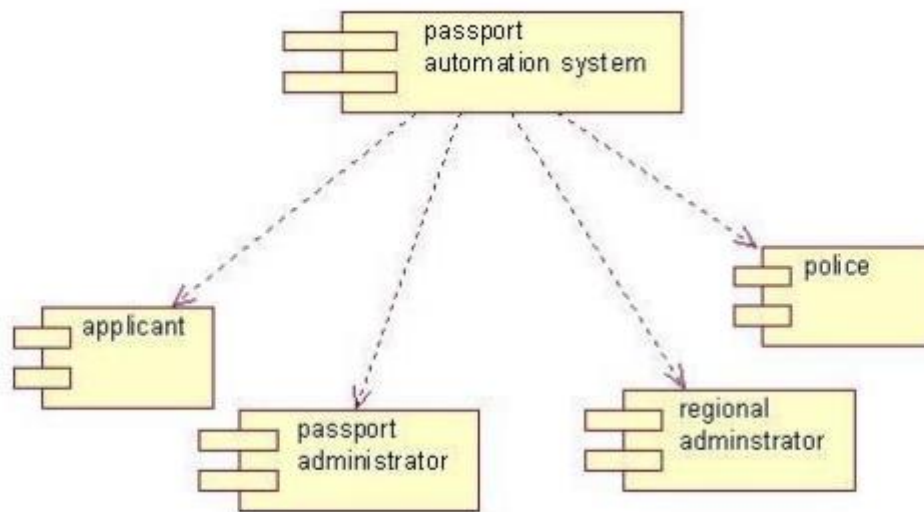
## Invalid Passport Pin :



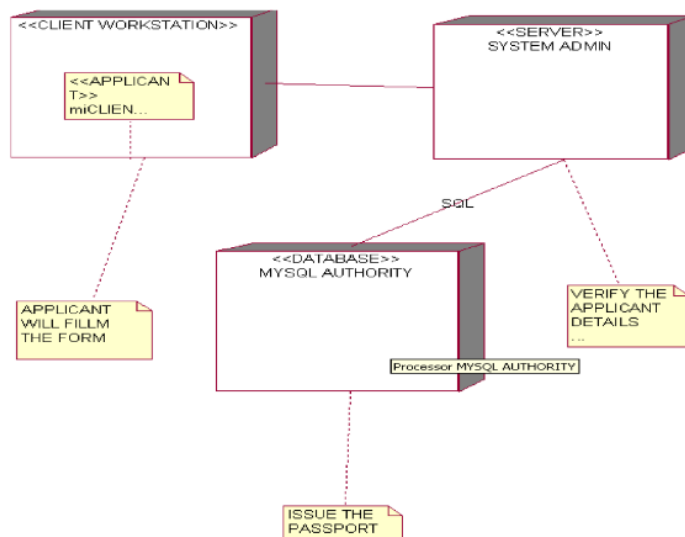
## 5.State Chart Diagram



## 6.Component Diagram:



## 7.Deployment Diagram:



## Result:

Thus the UML diagrams has been successfully completed for Passport automation system.

## **Ex.No: 2**

## **EXAM REGISTRATION SYSTEM**

### **DATE:**

### **AIM**

To develop a Exam registration system project using argouml tool.

### **PROBLEM STATEMENT:**

Exam registration system is the process of enrolling for exams through online. Enrolling students into the general associate course examination is a very difficult and important process. In case of degree courses, the exam is held two times per annum and students are required to pass in the exam to get their degrees. The main outcome is to computerize everything related to associate course/degree examination. Student can enter their details in a form and information related to examination such as venue, date, time, etc., are displayed in a web page. The registration number and other related information will be sent through e-mail.

## **SOFTWARE REQUIREMENT SPECIFICATION**

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  - 3.2 Software Interface
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  - 4.1 Applying for Passport
    - 4.1.1 System Description and Priority
    - 4.1.2 Stimulus/response Sequence
    - 4.1.3 Functional Requirements
5. Other non-functional requirements
  - 5.1 Performance Requirements
  - 5.2 Safety Requirements
  - 5.3 Security Requirements

### **1. INTRODUCTION:**

Exam registration system is an interface between the applicant/student and the authority responsible for issuing the hall ticket.

#### **1.1. PURPOSE**

If the exam registration is done in conventional method, it would require more time and it would contain lots of error in it. So this system uses online registration system which minimizes

error in conventional system.

## **1.2. PRODUCT SCOPE**

The scope of this system involves the development and maintenance of the online examination registration that integrates all support modules after suitable evaluation and acceptance and appropriate ASP(Application Service Provider) hosting solutions.

## **1.3. DOCUMENT CONVENTIONS**

- Applicant-The person who registers for exam.

## **1.4. REFERENCE**

<http://en.wikipedia.org/wiki/examregistrationsystem>.

## **2. OVERALL DESCRIPTION**

### **2.1 PRODUCT PERSPECTIVE**

The form acts as an interface between the student and administrator. It makes the registration process simple as it involves the registration system.

### **2.2. PRODUCT FUNCTIONS**

System separate registration forms for students. Management of exam from one central location and providing for printing the hall ticket/professional certificate online.

### **2.3 TOOLS TO BE USED**

Visual basic and Microsoft Access

## **3. EXTERNAL INTERFACES**

### **3.1 HARDWARE INTERFACES**

The system should have good hardware support. The processor should have high speed and must be of high efficiency.

### **3.2 SOFTWARE INTERFACE**

The system uses ODBC drive to connect and control the database.

## **4. SYSTEM FEATURES**

### **4.1. FILING THE FORM**

#### **4.1.1. DESCRIPTION AND PRIORITY:**

The system allows the user to fill the registration form.

#### **4.1.2. STIMULUS/RESPONSE SEQUENCE:**

The user must fill the form as per the requirements to get selected for exam.

#### **4.1.3. FUNCTIONAL REQUIREMENTS**

The member should be authenticated by means of unique login id and password.

## **5. OTHER NON-FUNCTIONAL REQUIREMENTS**

### **5.1. PERFORMANCE REQUIREMENTS**

To improve the performance, the database resources should be freed frequently.

### **5.2. SAFETY REQUIREMENTS:**

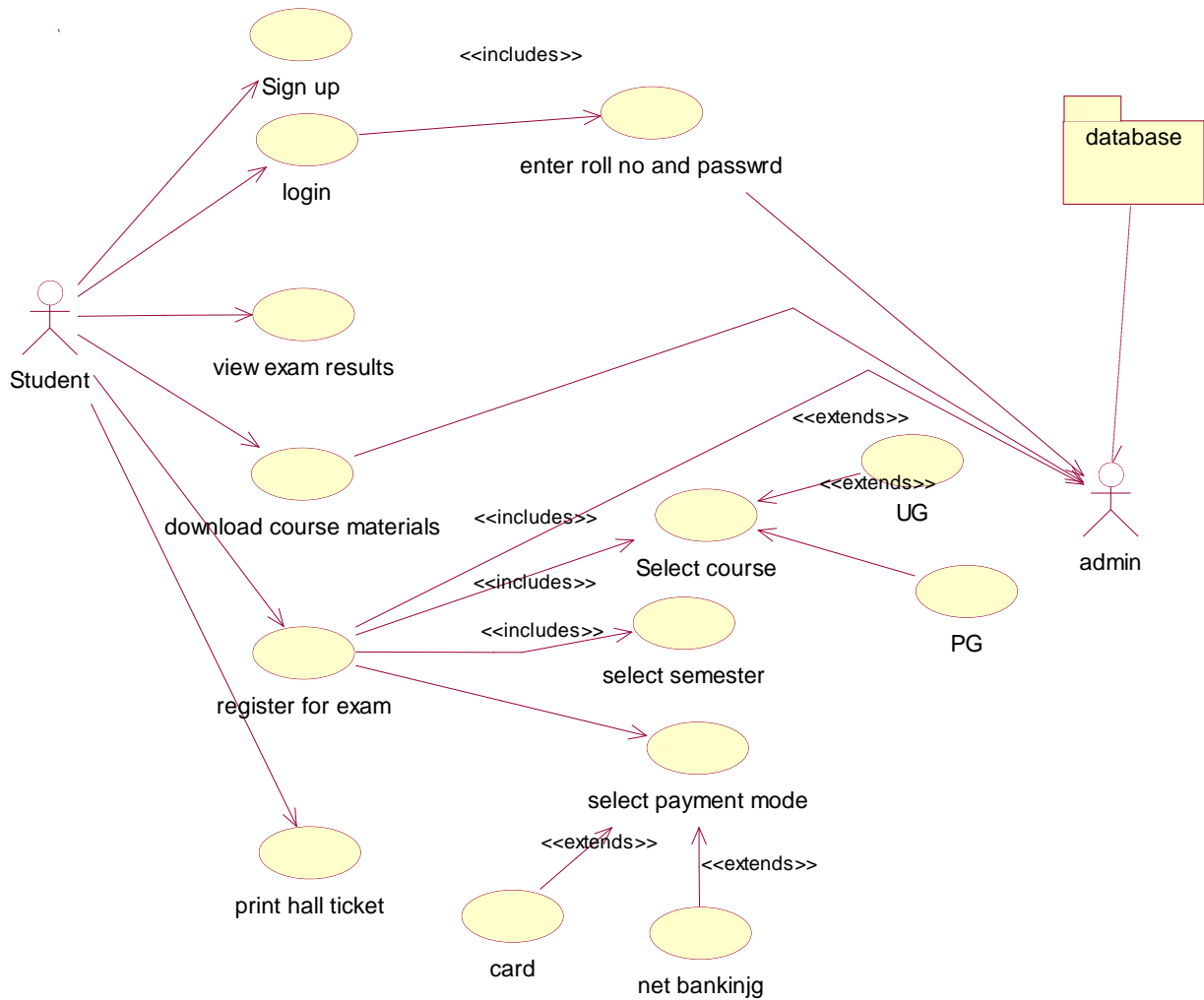
The database must be maintained and monitored frequently to prevent the attack of virus.

### 5.3. SECURITY REQUIREMENTS:

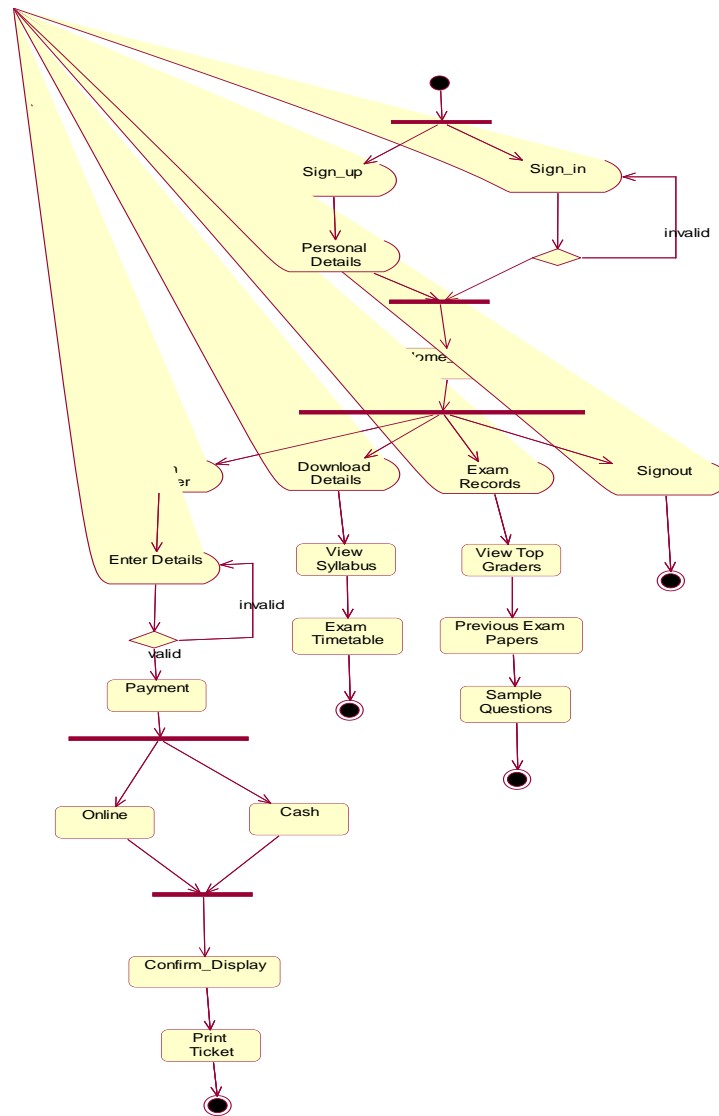
The proof of the applicants must be kept securely in the database and only administrator can access.

## EXAM REGISTRATION SYSTEM

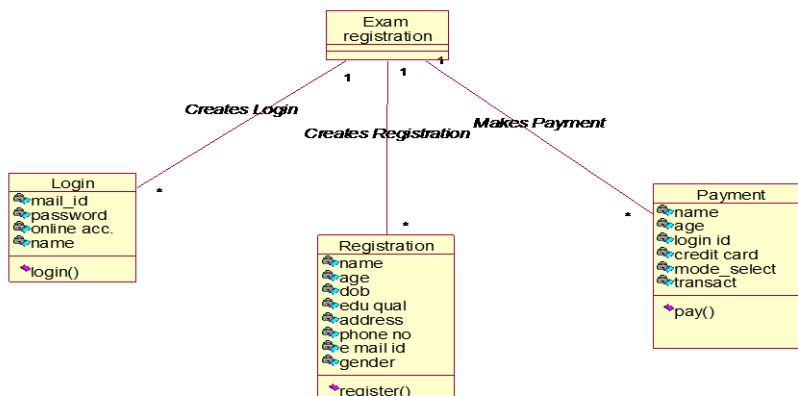
### 1. Use Case Diagram :



## 2. Activity Diagram :



## 3. Class Diagram:

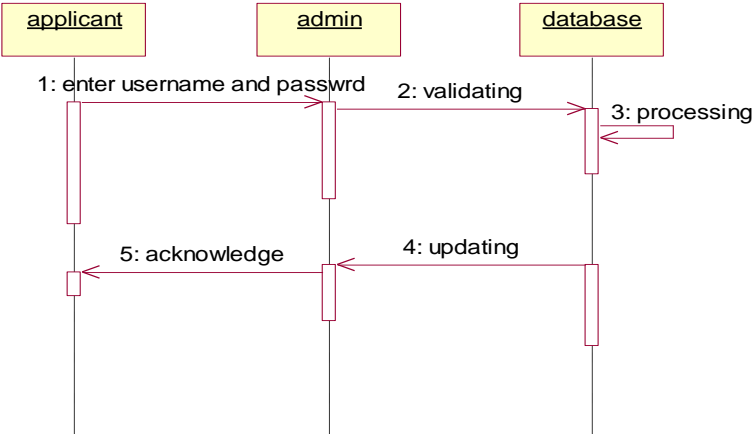


## 4. Interaction Diagram:

(i) Sequence Diagram :

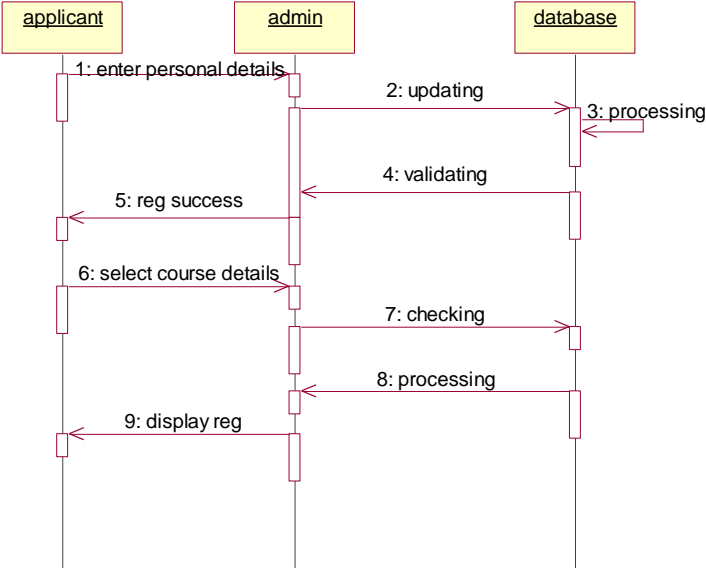
Login:

**Login sequence**

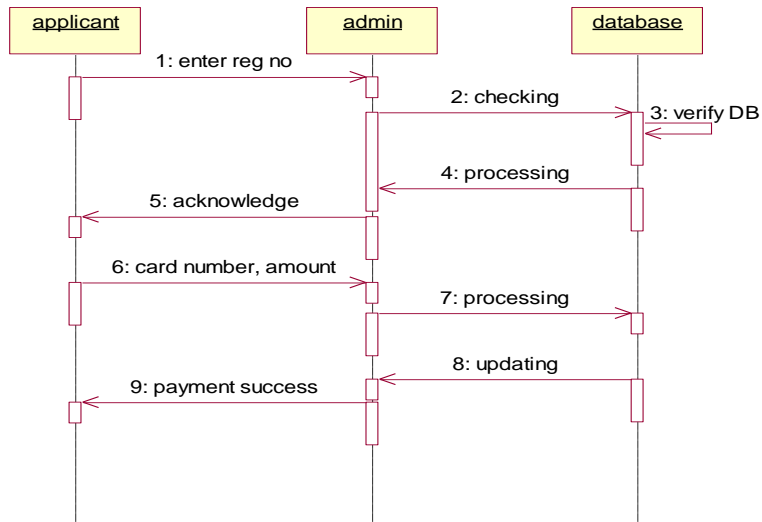


**Registration:**

**Registration Routine**



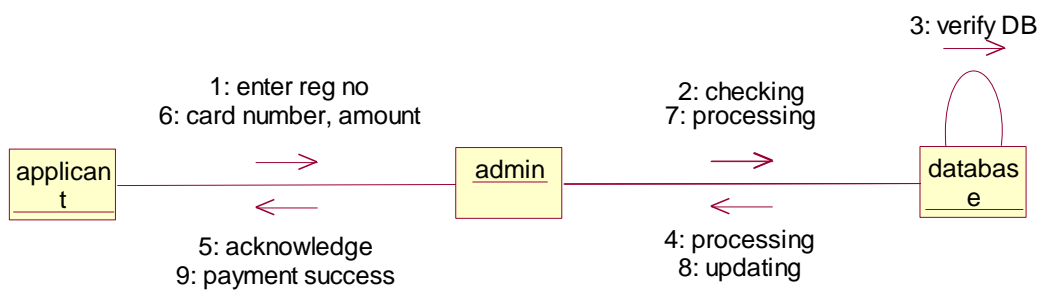
**Payment:**



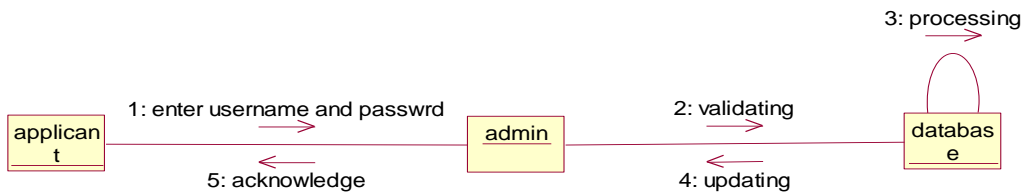
**Payment procedure**

**(ii) Collaboration: Diagram :**

**Login:**

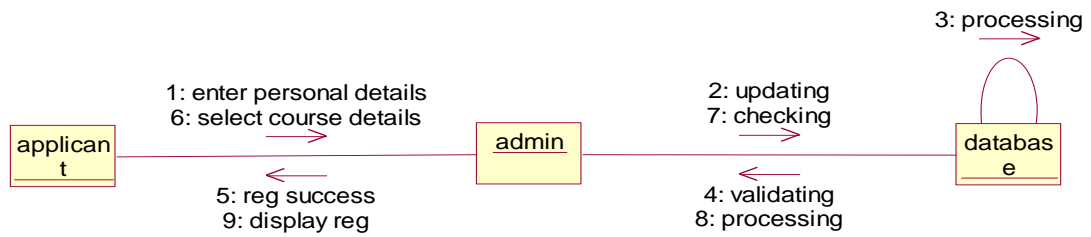


**Registration:**



**Payment:**

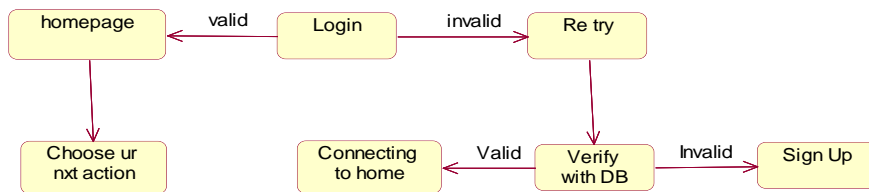




**5.State chart Diagram :**

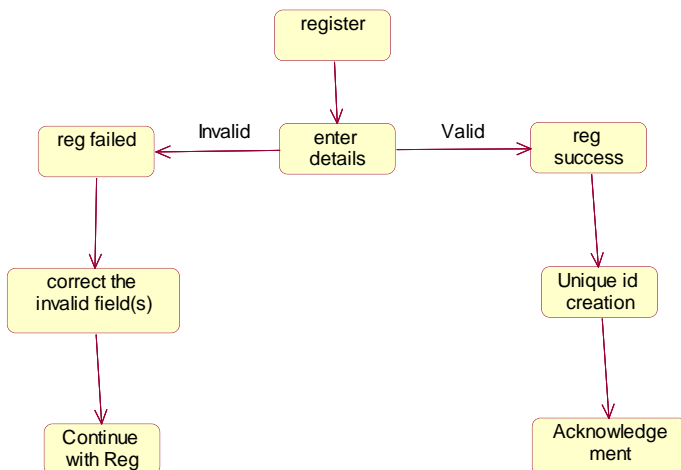
**Login:**

Login state



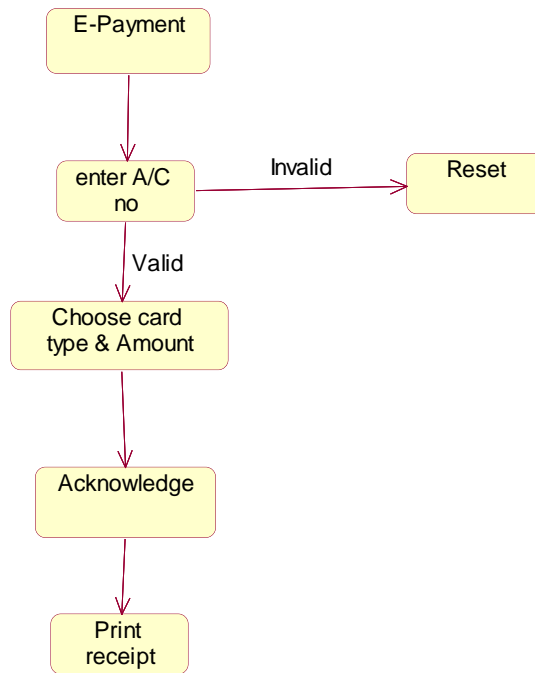
**Registration:**

Registration state



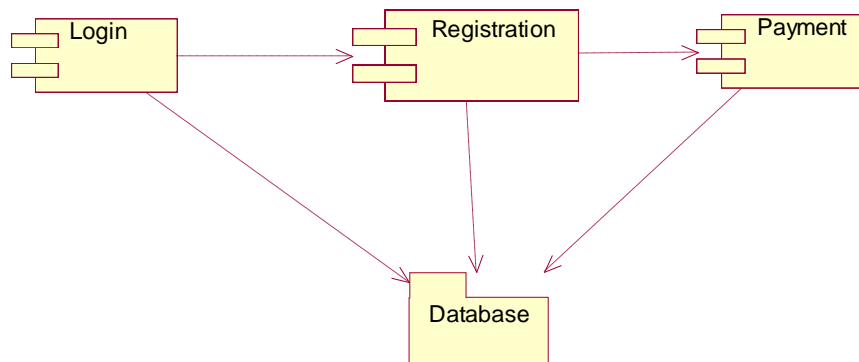
**Payment:**

**Pay state**



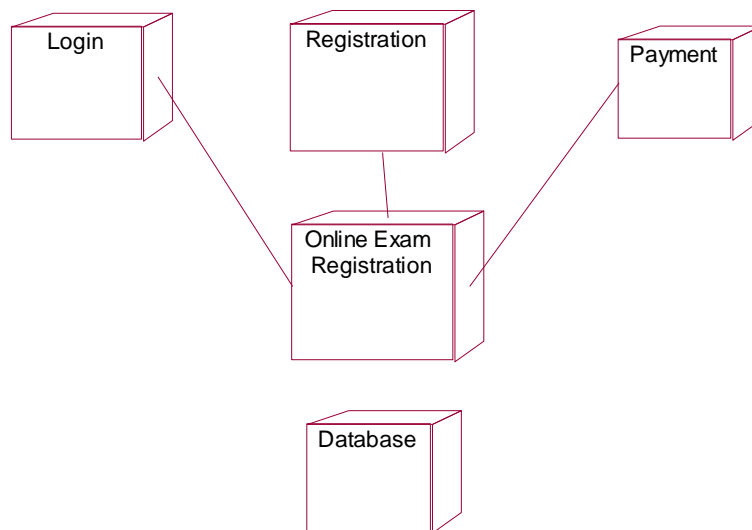
**6.Component Diagram:**

*Component diagram*



**7.Deployment Diagram:**

### Online Exam Registration - An Overview



#### **Result:**

Thus the UML diagrams has been successfully completed for Library management system.

**Ex.No: 3**

### **STOCK MAINTENANCE SYSTEM**

**DATE:**

**AIM**

To develop a Stock Maintenance system project using argouml tool.

#### **PROBLEM STATEMENT**

In any organization the records about stock are maintained manually. Since these activities are done manually and need regular updates to these records there is much probability of error occurrence, moreover this work is a tedious work process. The various activities involved in these types of systems are adding stock, deleting stock, updating stock, and searching stock. The system access is given to the accountant, stock manager.

#### **SOFTWARE REQUIREMENT SPECIFICATION**

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  - 3.1 Hardware Interface

- 3.2 Software Interface
- 4. System Features
  - 4.1 Applying for Passport
    - 4.1.1 System Description and Priority
    - 4.1.2 Stimulus/response Sequence
    - 4.1.3 Functional Requirements
- 5. Other non-functional requirements
  - 5.1 Performance Requirements
  - 5.2 Safety Requirements
  - 5.3 Security Requirements

## **1. INTRODUCTION:**

In order to overcome the major flaws of the manual record maintenance, the shift towards computerization of the process is mandatory. The primary objective of this project is to implement the software which is capable of maintenance of the records with simplicity and in well structured manner. The main aim is to overcome the work load and time consumption which makes the maintenance of in an organization as a tedious process.

### **1.1 PURPOSE:**

The main purpose of this project is to maintain the stock list details, company's address and inform the stock manager when the action is required to be done. The project avoids excess ordering of the stock and helps to order necessary stock when the stock goes beneath the minimum level specified. When the particular product reaches minimum level then it brings a notice to the stock manager.

### **1.2 Product scope:**

The scope of the product is to maintain stock in a stationary stock company to calculate the available quantity of a particular product present in the stock. It's easy to add to the stock list, when there is an arrival of a new product to the super market. When a particular product reaches a minimum level then automatically it types letter with the required quantity of product to the product company.

### **1.3. DOCUMENT CONVENTIONS**

- Administrator-who supervises the system and maintains the database.
- Customer-who purchases the product.

### **1.4. REFERENCES**

[www.scribd.com/doc/23362865/srs-of-stock-maintenance](http://www.scribd.com/doc/23362865/srs-of-stock-maintenance)

## **2. OVERALL DESCRIPTION**

### **2.1 PRODUCT PERSPECTIVE**

The system is updated for every change in the stock exchange. It contains the exact rate, date and time of the stock being purchased and sold.

### **2.2 PRODUCT FUNCTIONS:**

It secures the information of the stock exchanges and records the date and time

of the exchanges. It maintains the details of purchased stocks and sold stocks separately for the purpose of better clarity and to avoid clashes between data.

### **2.3. TOOLS TO BE USED:**

Visual Basic 6.0 and Microsoft Access 2003

## **3. EXTERNAL INTERFACE**

### **3.1 HARDWARE INTERFACES**

The stock details entered through keyboard

### **3.2 SOFTWARE INTERFACES**

The system uses ODBC drive to connect and control the database.

## **4. SYSTEM FEATURES**

### **4.1 SYSTEM DESCRIPTION AND PRIORITY**

This system allows the employee to record all the details that occur during the delivery of product.

### **4.2 STIMULUS/RESPONSE SEQUENCE**

The cost of delivered products is calculated.

### **4.3 FUNCTIONAL REQUIREMENT**

Req-1: The cost of each product must be calculated.

Req-2: Each product must be given an unique id.

## **5. OTHER NON-FUNCTIONAL REQUIREMENTS**

### **5.1 SECURITY REQUIREMENTS**

This system is secured and it can only be accessed using password.

### **5.2 PERFORMANCE REQUIREMENTS**

Once the details are furnished, the immediate notification of data must be provided.

### **5.3 SAFETY REQUIREMENTS**

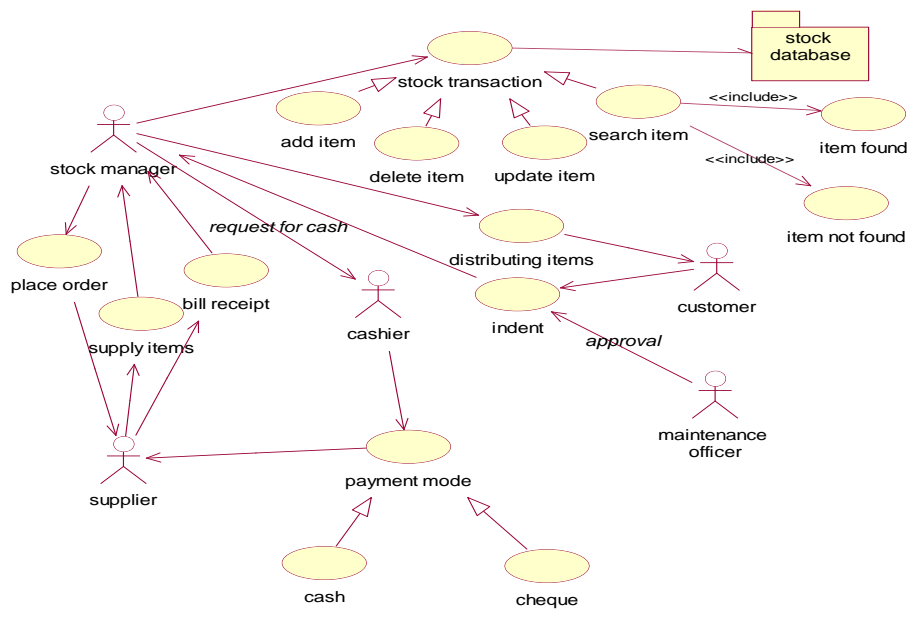
The database must be maintained and monitored effectively to avoid crashing or hacking.

### **5.4 AVAILABILITY REQUIREMENTS**

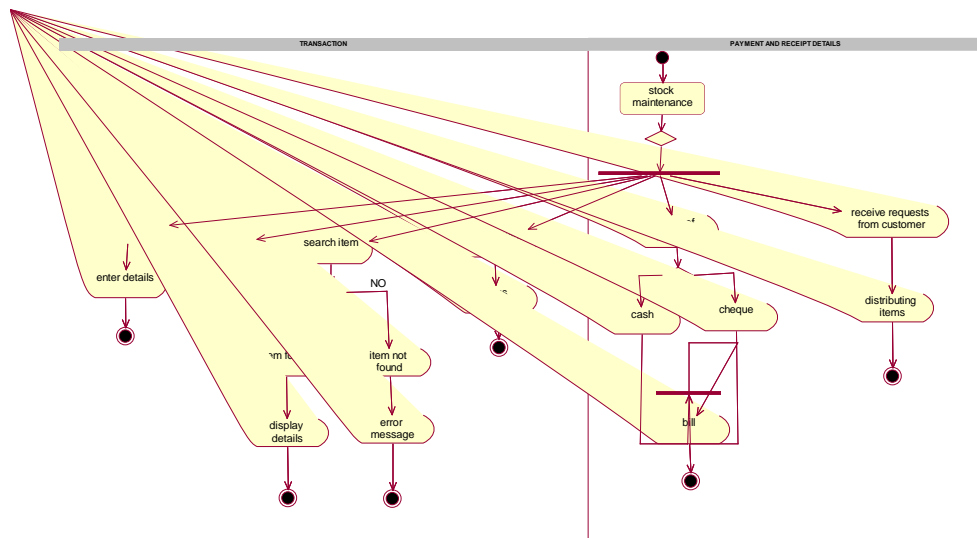
The information provided should be retrieved at any time. Therefore availability of data is more important.

## **STOCK MAINTENANCE SYSTEM**

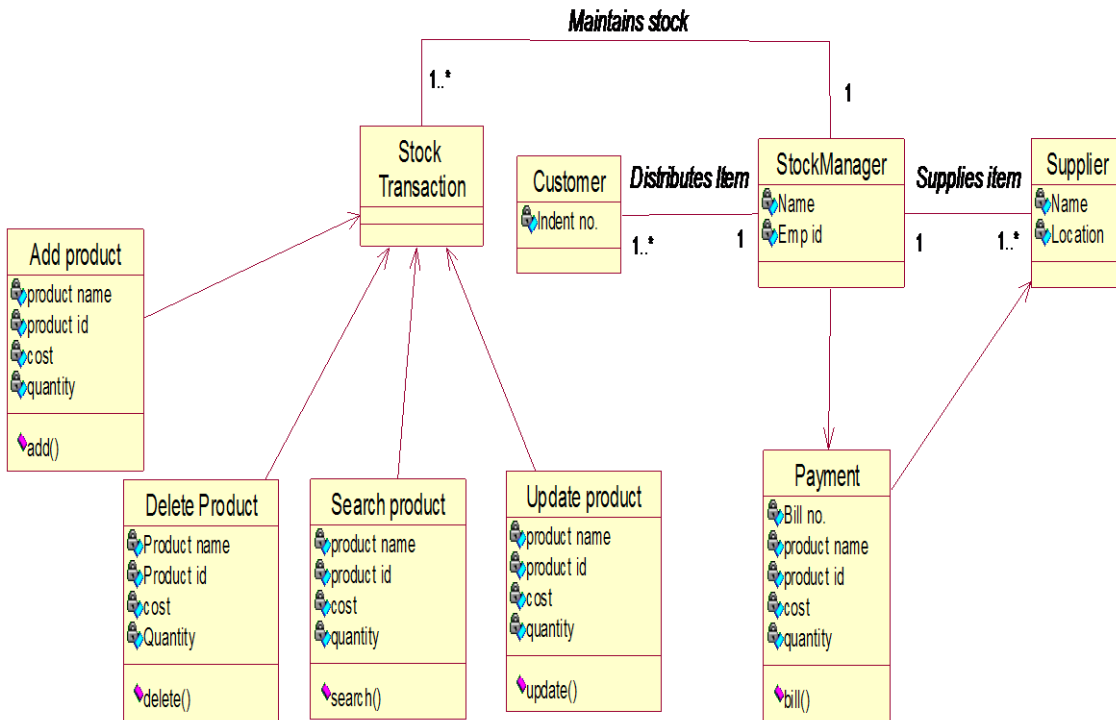
### **1. Use Case Diagram :**



**2. Activity Diagram :**

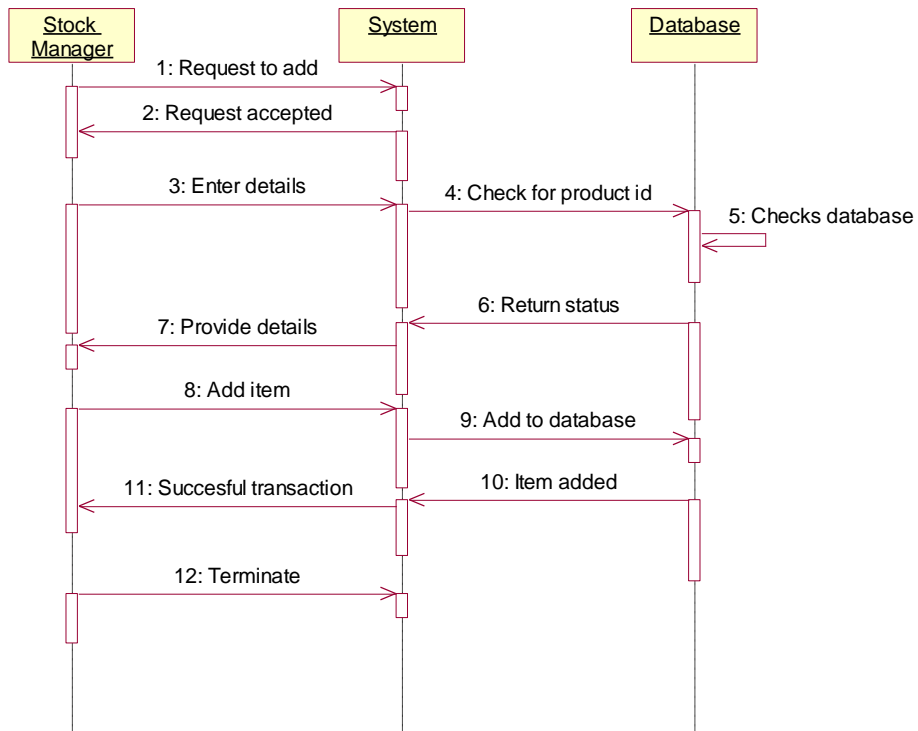


**3. Class Diagram**

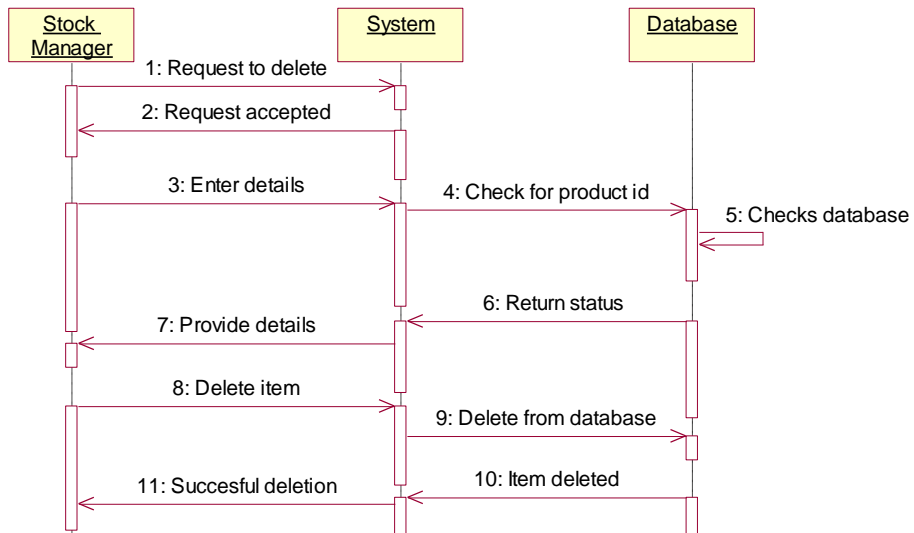


**4. Sequence Diagram :**

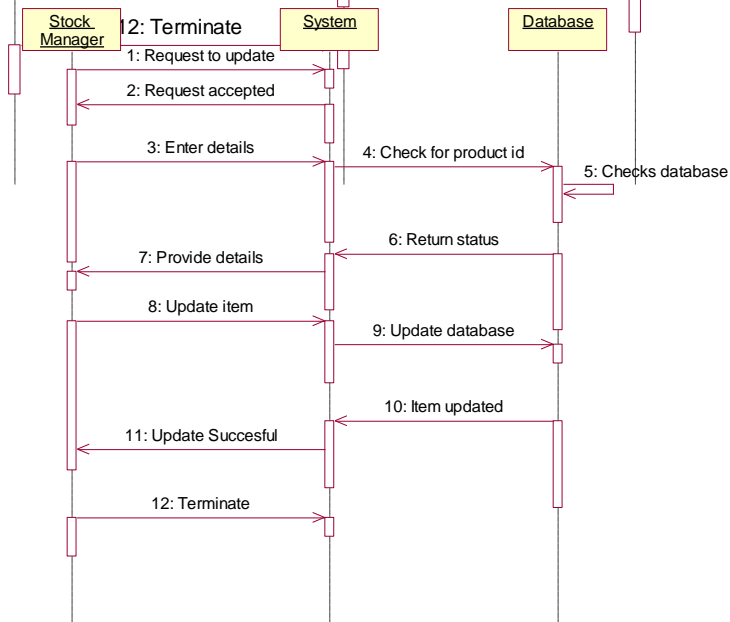
**Add items:**



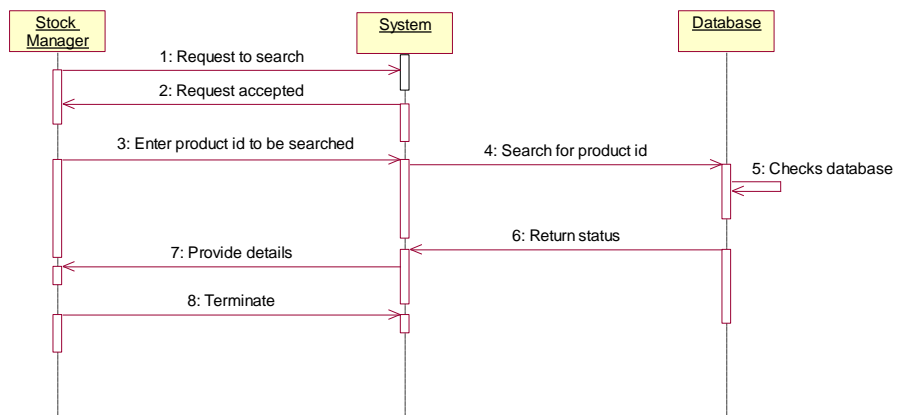
## Delete Items



## Update Items

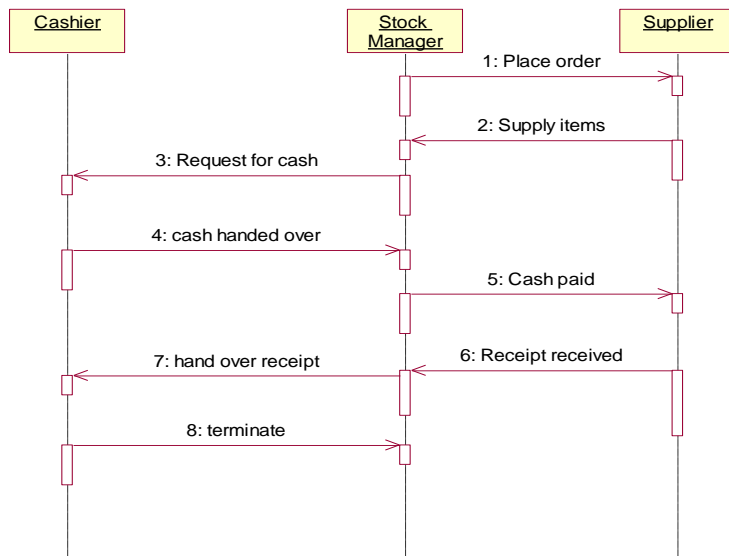


## Search Items



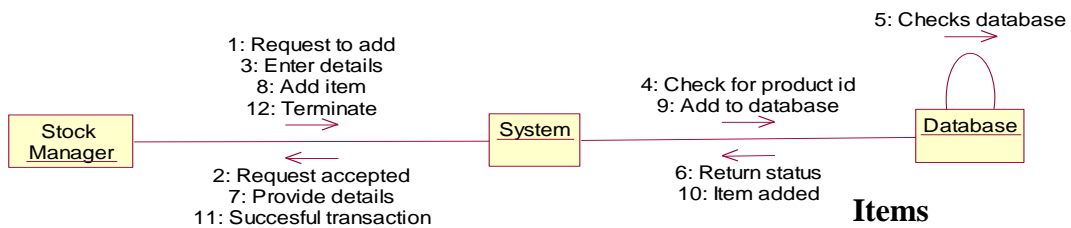
## Payment



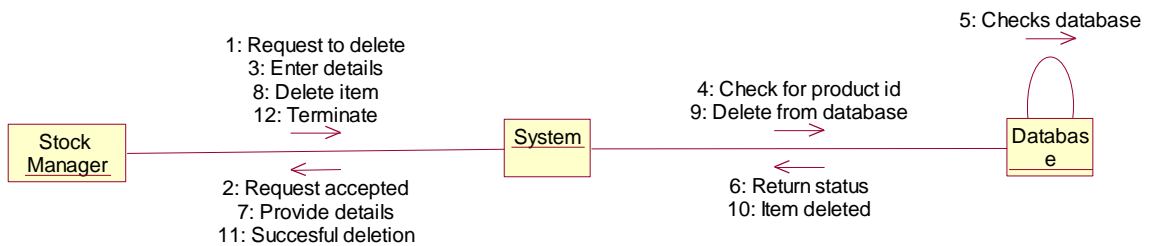


**Collaboration Diagram :**

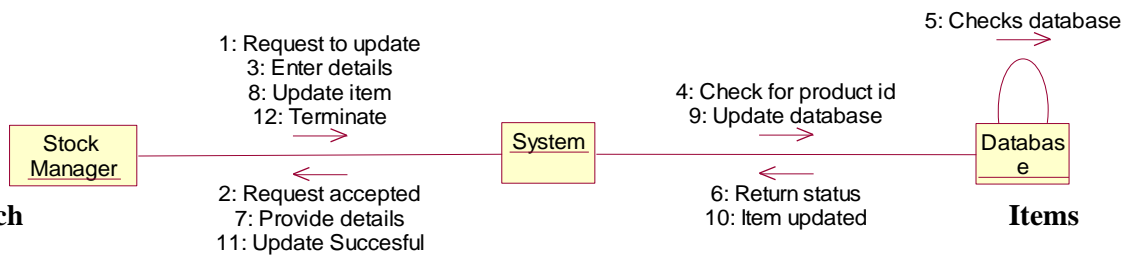
**Add Items**



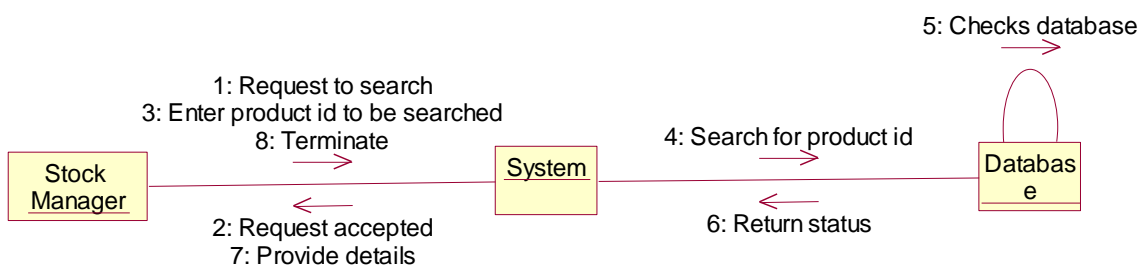
**Delete**



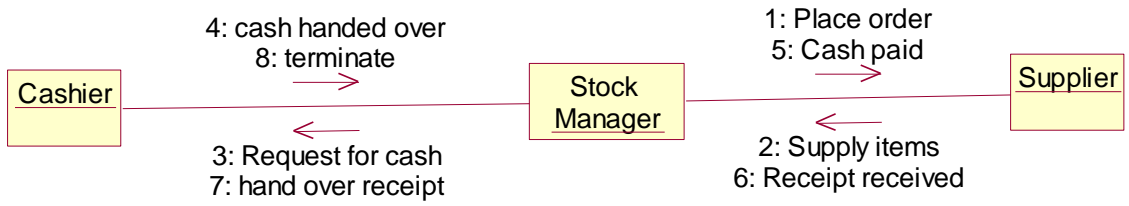
**Update Items**



**Search**

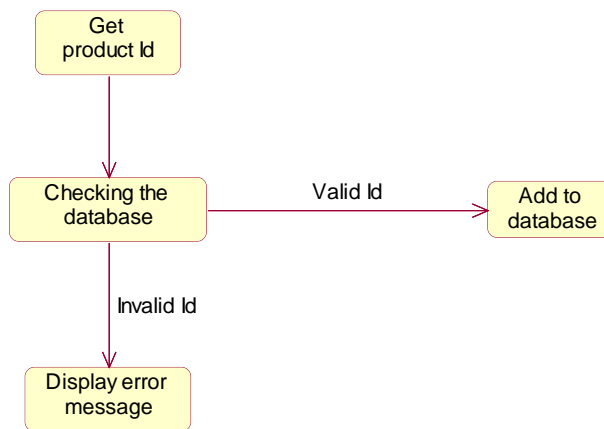


## Payment

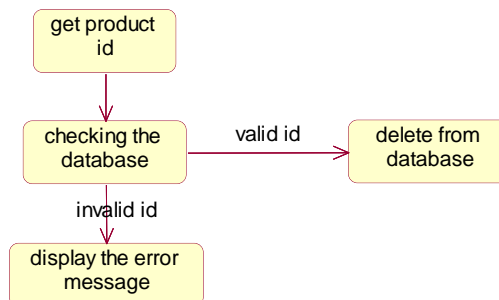


## 5.State chart Diagram :

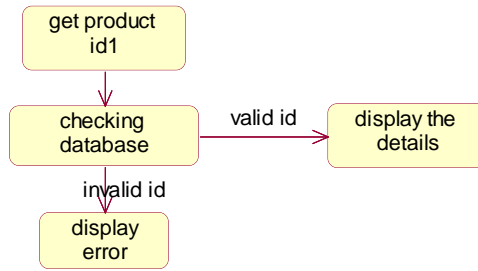
ADD ITEMS



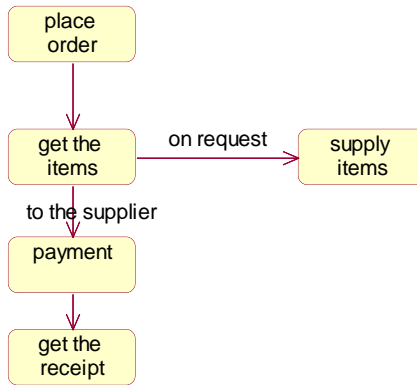
DELETE ITEMS



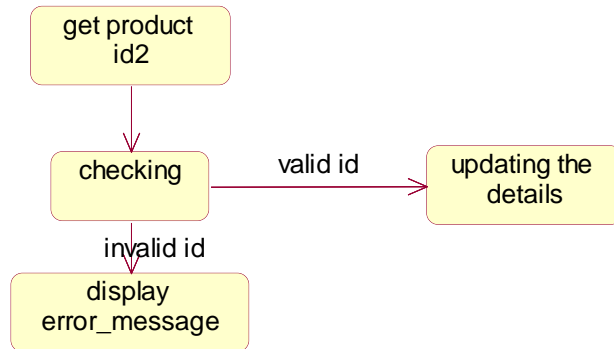
### SEARCH ITEMS



### PAYMENT

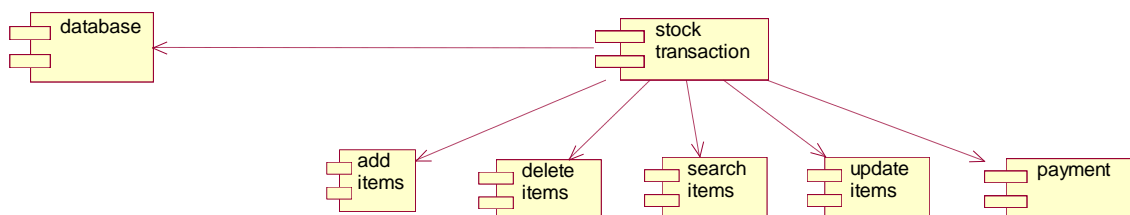


### UPDATE ITEMS

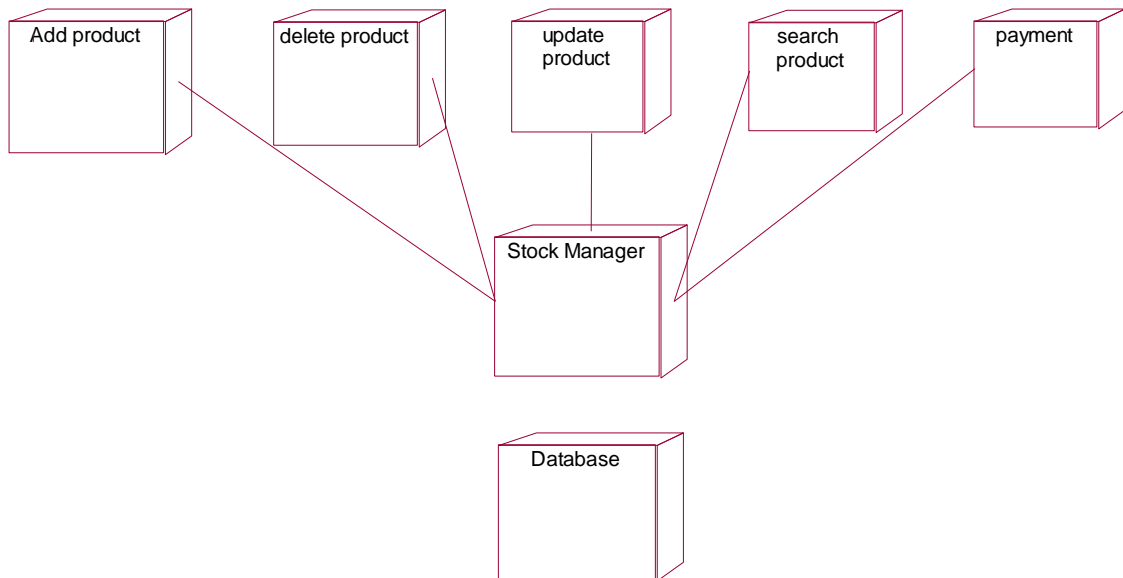


## 6. Component diagram

COMPONENT DIAGRAM



## 7. Deployment Diagram



**Result:**

Thus the UML diagrams has been successfully completed for Stock maintenance system.

**Ex.No: 4**

**ONLINE COURSE RESERVATION SYSTEM**

**DATE:**

**AIM**

To develop a online course reservationsystem project using argouml tool.

**PROBLEM STATEMENT:**

Gives the description about the course and the colleges. The system gives the overall status of the course available in all the college and also it helps to check the availability of the course in a particular college. If the user wants to register the course, an account is required. Depending on the availability of the course, the user can reserve their required course. For reservation, the user details like name,percentage,mail id,phone number,address are needed. And also the system checks for the eligibility which depends on the percentage obtained by the student. It follows some criteria. If the criteria is not satisfied, the reservation is not possible and its displays them as a non-eligible candidate. After reserving the course register number is displayed to confirm the details of the student.

**SOFTWARE REQUIREMENT SPECIFICATION:**

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- 2.2 Product Functions
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- 3. External Interface
  - 3.1 Hardware Interface
  - 3.2 Software Interface
- 4. System Features
  - 4.1 Applying for Passport
    - 4.1.1 System Description and Priority
    - 4.1.2 Stimulus/response Sequence
    - 4.1.3 Functional Requirements
- 5. Other non-functional requirements
  - 5.1 Performance Requirements
  - 5.2 Safety Requirements
  - 5.3 Security Requirement

## **1. INTRODUCTION:**

Student admissions are a vital part of any university's running because students are what keep a University alive. The student admission is one of the most important activities within a university as one cannot survive without students. A poor admissions system can mean fewer students being admitted into a university because of mistakes or an overly slow response time.

The process begins with a potential student completing an application form through the Universities and Colleges Admissions Service, the first step for students is to apply directly to the university through a custom online form.

The next step is for the Admissions service center has to review the application and ensure that all of the required information has been provided, from the form itself to the supplementary documentation, such as language and degree certificates. If any of the required information is missing, it is the secretary for the department to which the application concerns that contacts the potential student and arranges for the delivery of the outstanding data

The application in its entirety is then forwarded, complete with a recommendation, to the respective department's Admissions Tutor, who has the final say as to whether each potential student is accepted or rejected. Before making a decision, the Admissions Tutor reviews the application and the additional documentation, comparing the academic credentials to a list of university rankings and previous, similar applications.

### **1.1. PURPOSE:**

The purpose of this SRS document is to specify software requirements of the Online Admission for the university. It is intended to be a complete specification of what functionality the admission provides. The main purpose of the system is to automate the task carried out by different peoples in the organization to perform the student admission. Specific design and implementation details will be specified in a future document.

### **1.2. SCOPE:**

This project's aim is to automate the system, pre-checking the inclusion of all required material and automatically ranking each student's application based on a number of criteria. These criteria include the ranking of their university, their grade at said university and their language grade certificate. The data used by the system is stored in a database that will be the centre of all information held about students and the base for the remainder of the process after the initial application has been made. This enables things to be simplified and considerably

quicken making the jobs of the people involved easier. It supports the current process but centralizes it and makes it possible for decisions to be made earlier and easier way.

### **1.3. DOCUMENT CONVENTIONS:**

Student – The person who books the ticket.

### **1.4. REFERENCES:**

[www.annauniv.edu](http://www.annauniv.edu)

## **2. OVERALL DESCRIPTION:**

### **2.1. PRODUCT PRESPECTIVE:**

- The basic page layout is created using visual basic is the user interface for the student side.
- The Client Software is to provide the user interface on system user client side and for the server a dedicated database is used to store and retrieve the information.
- On the server side ODBC server is used for storing the information.

### **2.2 PRODUCT FUNCTIONS:**

This system functions with a database at the back end, for reserving seats.

### **2.3 TOOLS TO BE USED:**

Visual basic and Microsoft Access

## **3. EXTERNAL INTERFACES:**

### **3.1 HARDWARE INTERFACES:**

The system should have good hardware support. The processor should have high speed and must be of high efficiency.

### **3.2 SOFTWARE INTERFACES:**

The system uses ODBC drive to connect and control the database.

## **4. SYSTEM FEATURES:**

### **4.1. COURSE RESERVATION:**

#### **4.1.1.1**

#### **DESCRIPTION AND PRIORITY:**

Allow the student to select or block the seats..

#### **4.1.1.2**

#### **STIMULUS / RESPONSE SEQUENCE:**

The seat is blocked as per the student's requirement.

#### **4.1.2**

#### **FUNCTIONAL REQUIREMENT**

REQ 1: student can create its own account.

REQ 2: The system will update the details about the seats available.

## **5. OTHERNON-FUNCTIONAL REQUIREMENT:**

### **5.1.PERFORMANCE REQUIREMENT:**

To increase the performance, free up database resource for other tasks.

### 5.2. SAFETY REQUIREMENT:

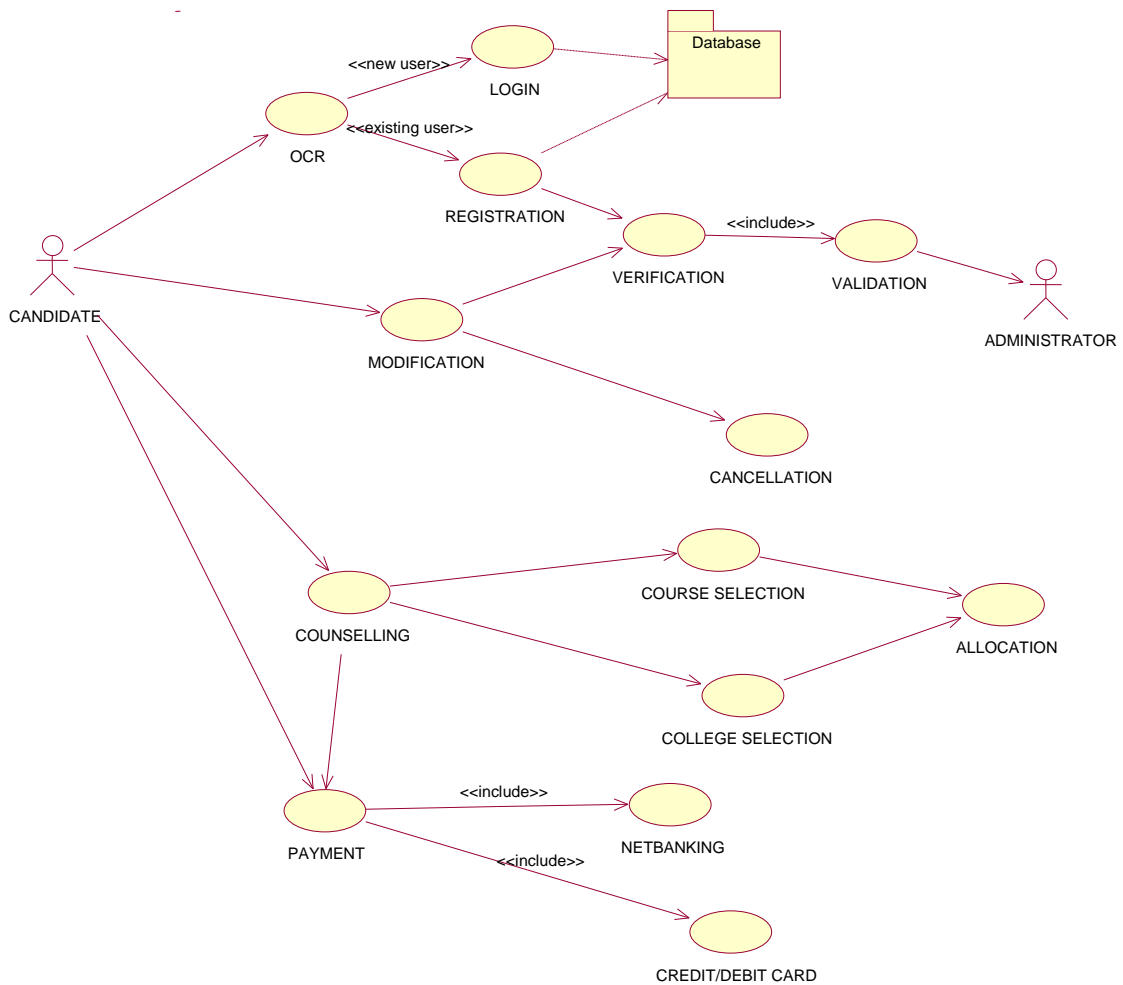
The requirement where database main effectively and administrator must

### 5.3. SECURITY REQUIREMENT:

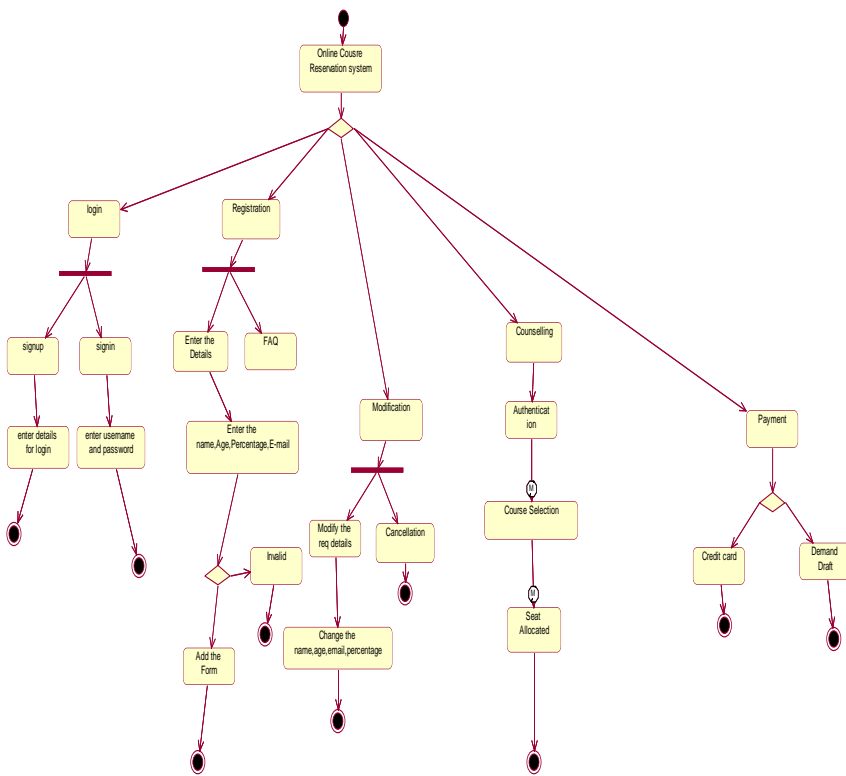
Passwords for registered accounts are stored as a hash in the database only the staff can access the main database.

## ONLINE COURSE RESERVATION SYSTEM

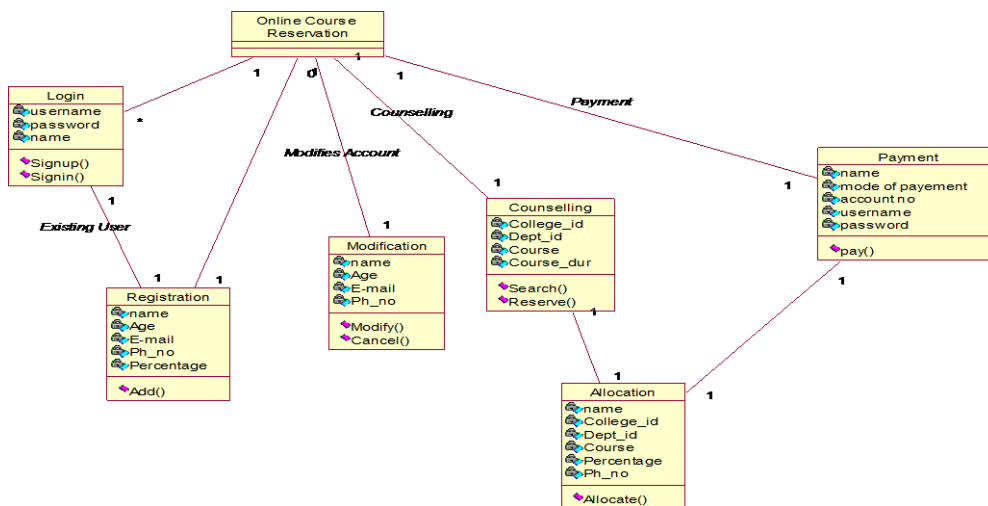
### 1. Use Case Diagram :



### 2. Activity Diagram :



**3. Class Diagram :**

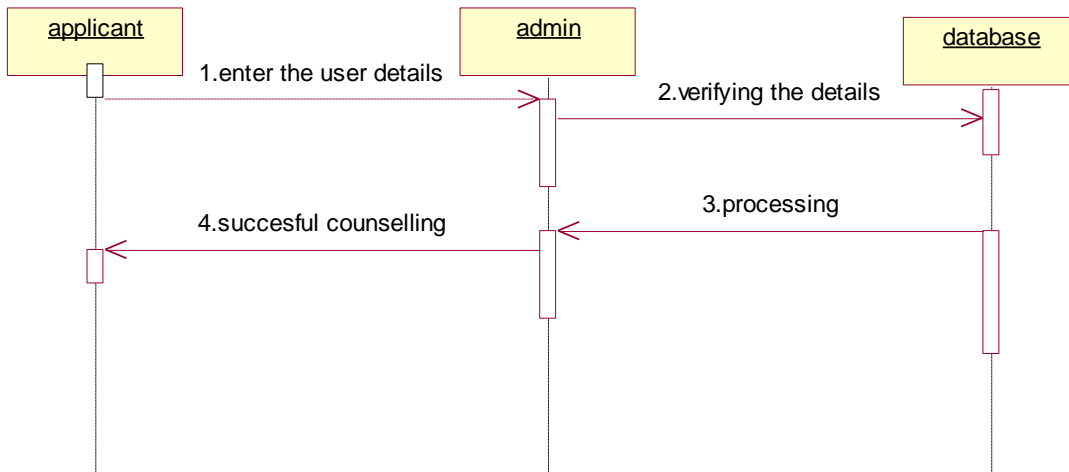


**4. INTERACTION DIAGRAM:**

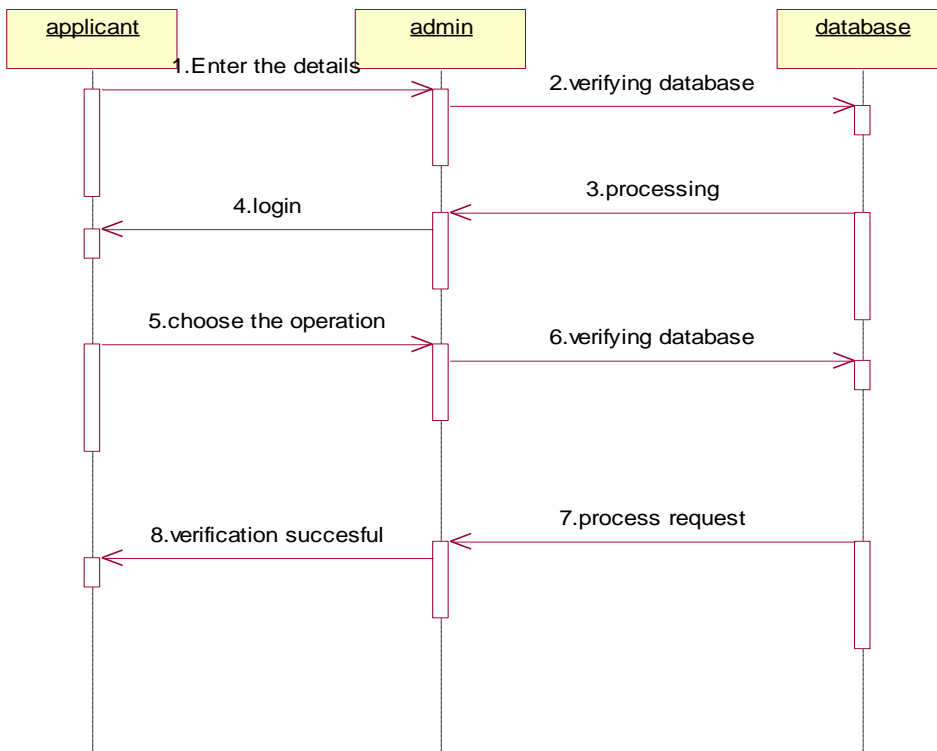
**(i) SEQUENCE DIAGRAM :**

**COUNSELLING:**

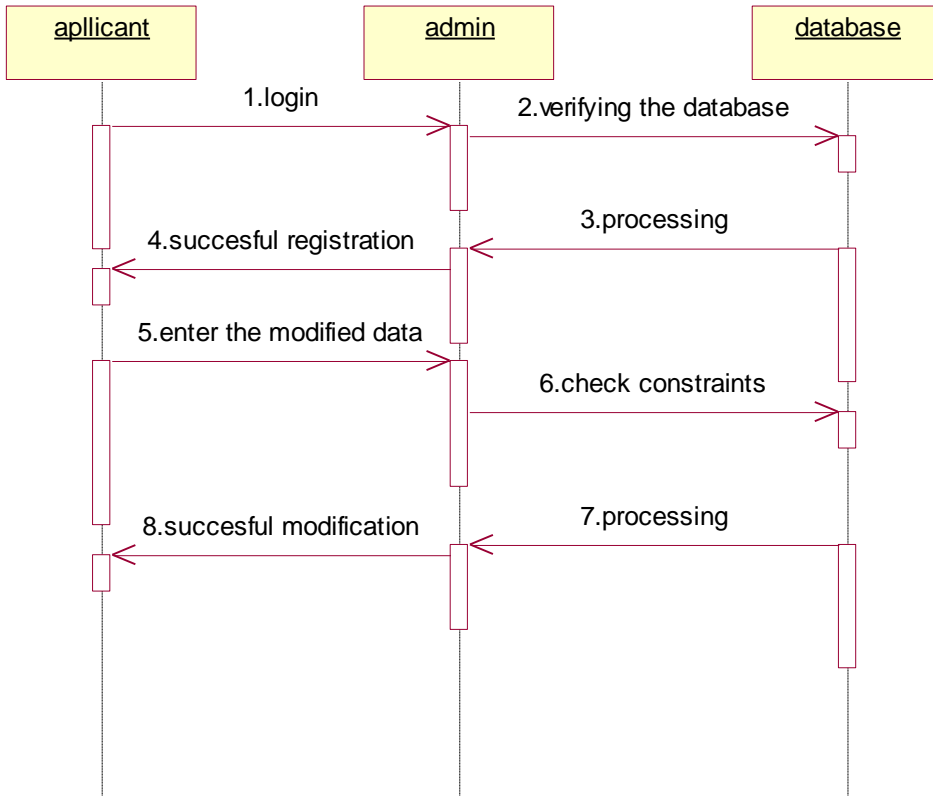




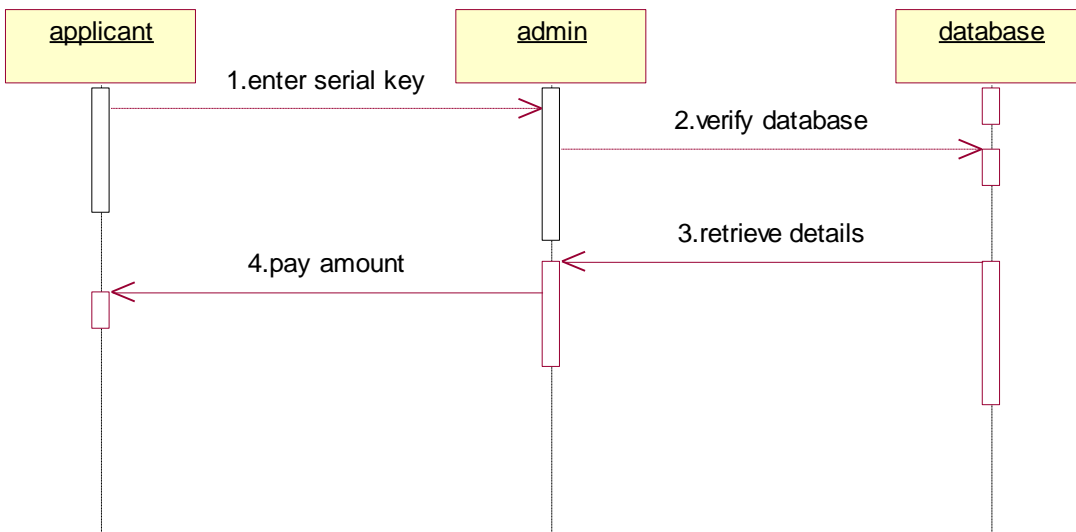
**LOGIN:**



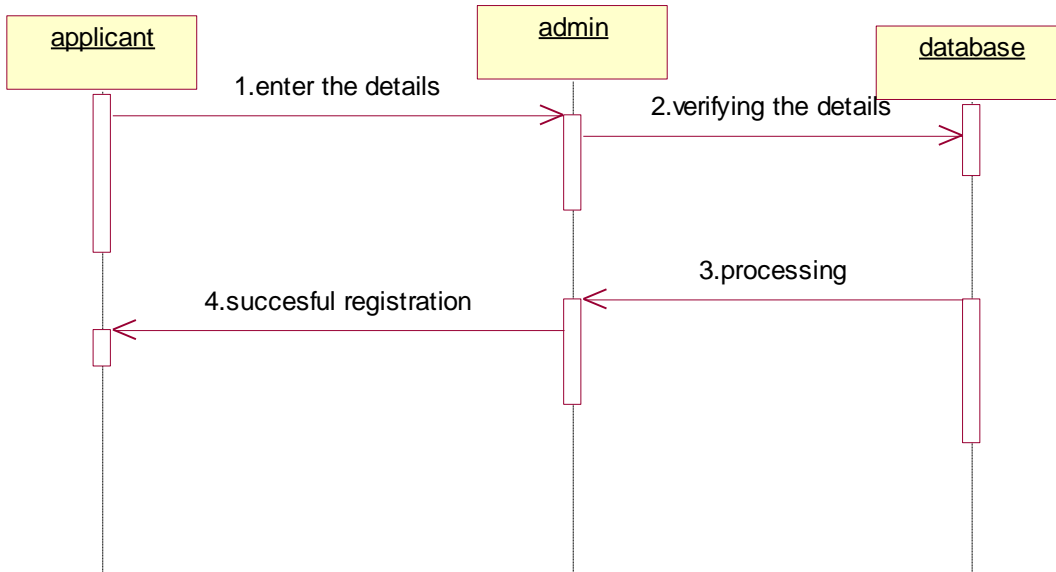
**MODIFICATION:**



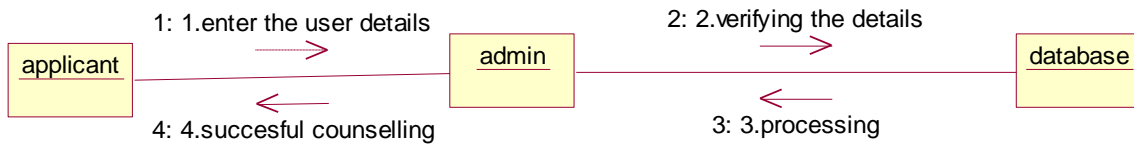
**PAYMENT:**



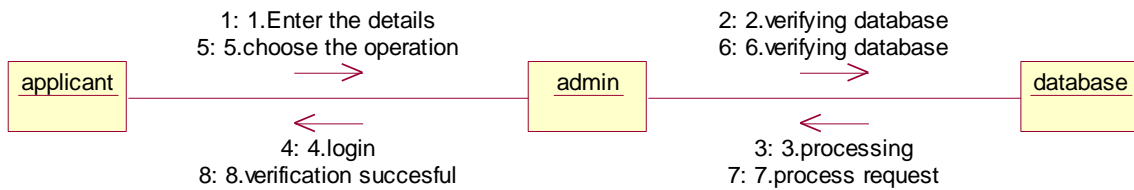
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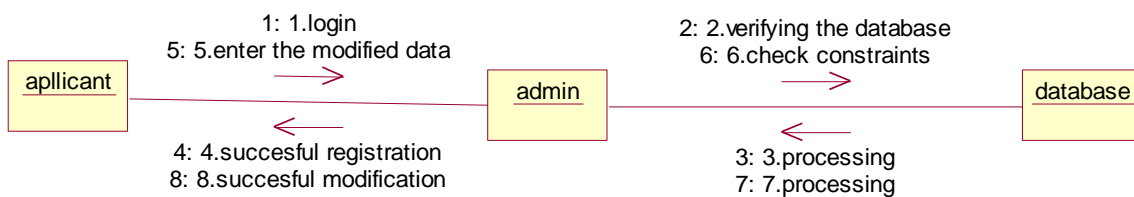
**(ii) COLLABORATION DIAGRAM :  
COUNSELLING:**



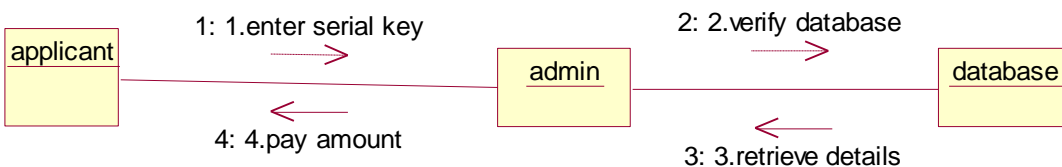
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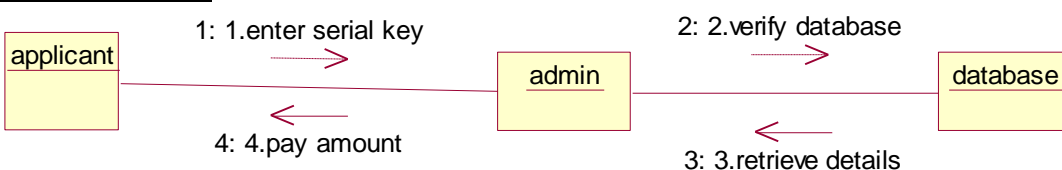
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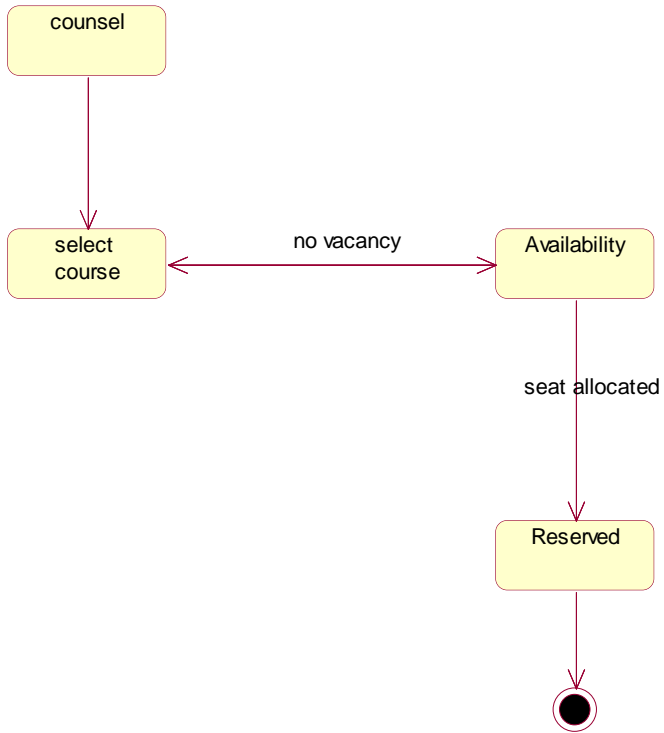
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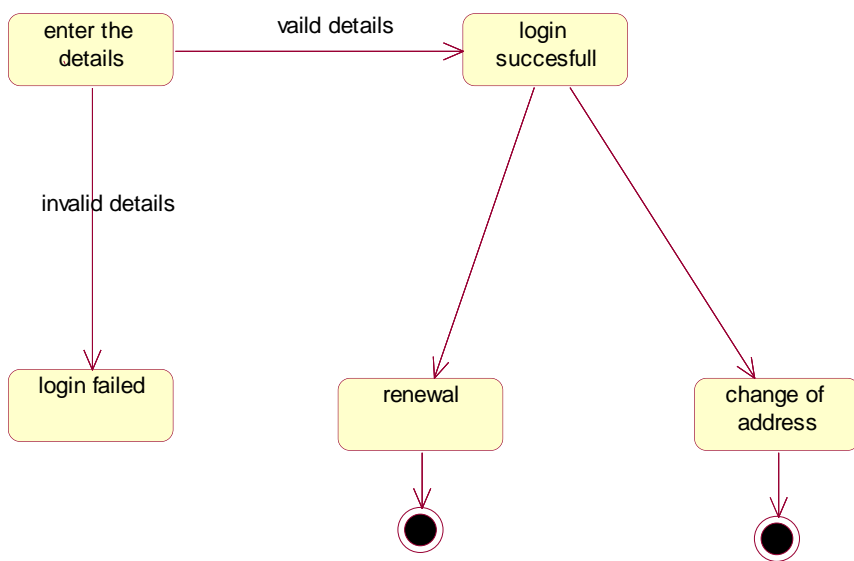
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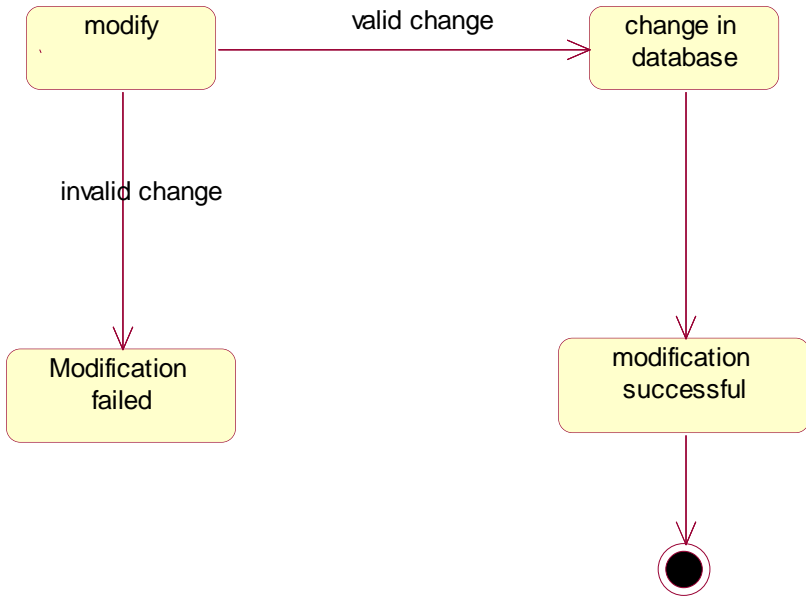
**5. STATE CHART DIAGRAM:  
COUNSELLING:**



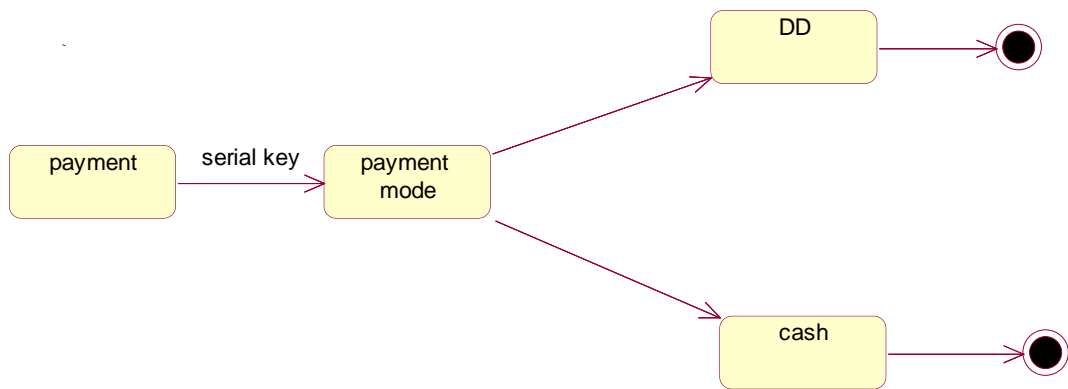
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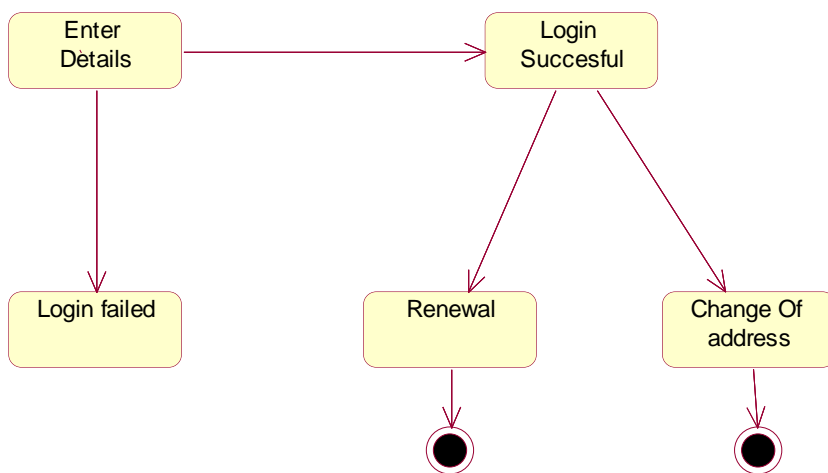
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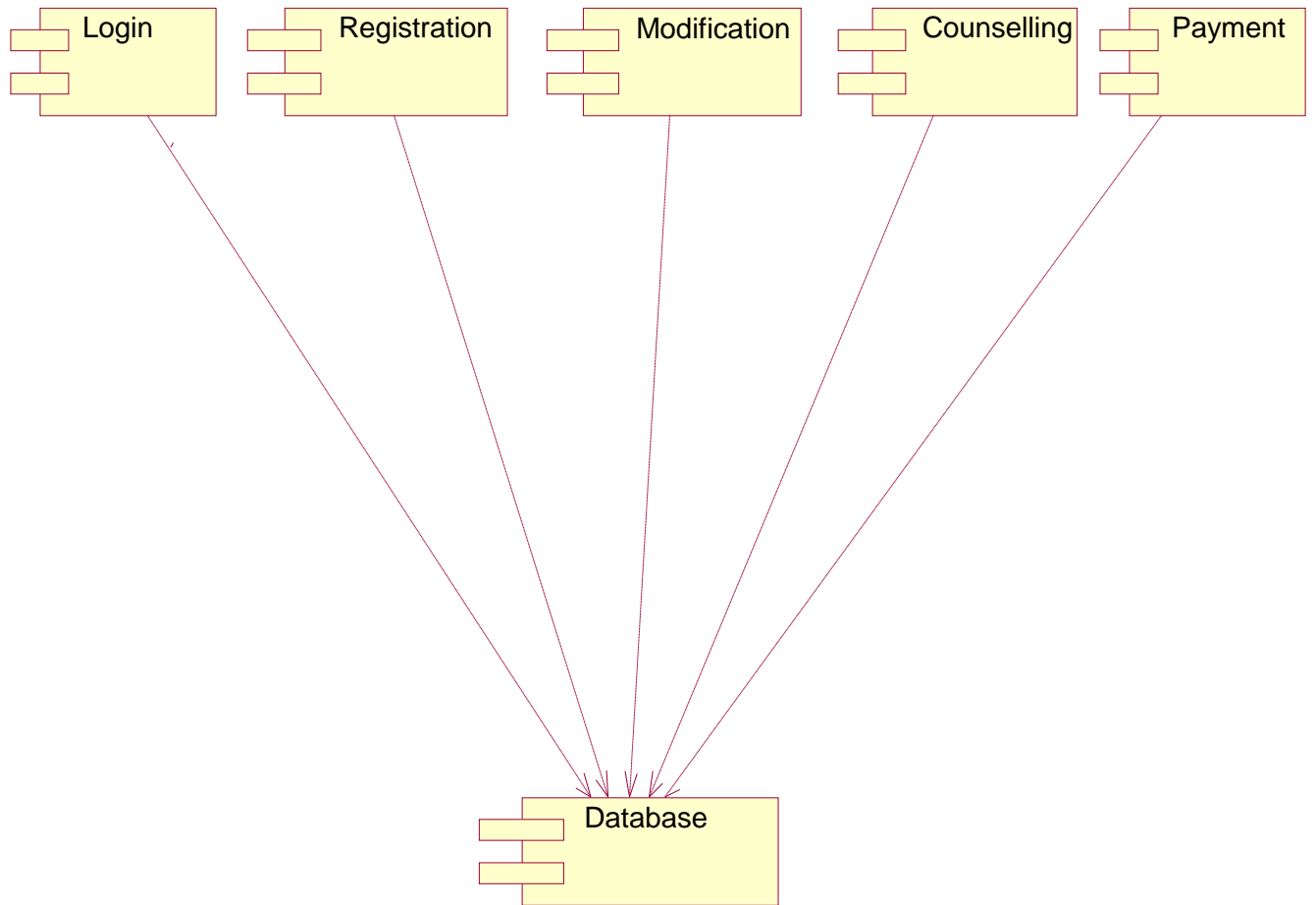
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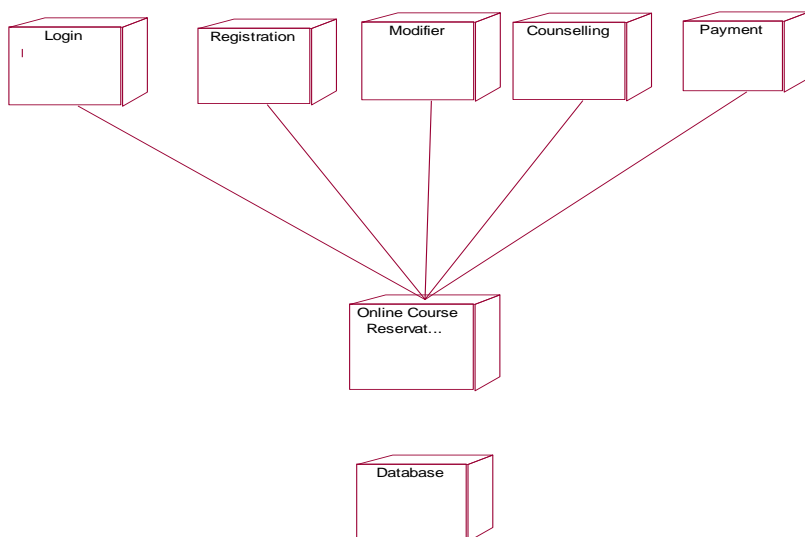
**REGISTRATION:**



**6.COMPONENT DIAGRAM**



**7.DEPLOYMENT DIAGRAM:**



**Result:**

Thus the UML diagrams has been successfully completed for Online Course Reservation system.

**EX:NO: 5**

## **SOFTWARE PERSONAL MANAGEMENT SYSTEM**

**DATE:**

**AIM:**

To develop a Software Personal Management System Project using argouml tool.

### **PROBLEM STATEMENT**

The software personal management system is system to keep track of the employee details of particular concern. The recruitment status of the company can be maintained. Generally human resource deals with the details of the employee where once the name of employee is typed; the entire history of person is displayed. Multiple accesses to this system allow the authorized manager to update the audit employee files. There are certain folder to maintain the training serious that were given to employee and number of person attending the training. New certification page are provided to log individual employee accreditation. Once there is a change in the employee details, it is updated.

## **SOFTWARE REQUIREMENT SPECIFICATION**

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  - 4.1 Applying for Passport
    - 4.1.1 System Description and Priority
    - 4.1.2 Stimulus/response Sequence
    - 4.1.3 Functional Requirements
5. Other non-functional requirements
  - 5.1 Performance Requirements
  - 5.2 Safety Requirements
  - 5.3 Security Requirement

### **1. INTRODUCTION**

The software personal management is a system to maintain the records about each employee in a firm. This helps in easy storage and retrieval of detail whenever it is necessary.

#### **1.1. PURPOSE**

The personal management system is a human resource management system. The system was developed to track employee's attendance and personal management. Employees can be tracks for previous employment history, skill, training, education.

#### **1.2. SCOPE**

This system tracks the employee attention and personal history. It also helps human resource department to develop and maintain an integrated organisation.

### **1.3. DOCUMENT CONVENTION**

- Managers – The person who maintains the employee detail record
- Employee- The person who works in a firm and whose detail are to be kept track.

### **1.4. REFERENCES:**

www.scribe.com/software personal maintenance system.

## **2. OVERALL DESCRIPTION**

### **2.1. PRODUCT PERSPECTIVE:**

This project is a self contained project designed for effective maintenance of an organization.

### **2.2. PRODUCT FUNCTIONS:**

There are two main contents,

- i) Front end – Java net beans, This is the area that all the employee can see
- ii) Back end – Database, This area is designed and maintained by the HR.

### **2.3. OPERATING ENVIRONMENT:**

Visual Basic 6.0 and Microsoft Access 2003.

## **3. EXTERNAL INTERFACE**

### **3.1. HARDWARE INTERFACE**

The system requires extensive database to connect with the hardware computer.

### **3.2. SOFTWARE INTERFACE**

The system uses ODBC drive to connect and control the database.

## **4. SYSTEM FEATURES**

### **4.1. EMPLOYEE TRACKING**

#### **4.1.1. SYSTEM DESCRIPTION AND PRIORITY**

The system allows to track the details and history of a employee.

#### **4.1.2. STIMULUS/RESPONSE SEQUENCE**

The tracking is done in order to inverse the performance of organization.

#### **4.1.3. FUNCTIONAL REQUIREMENT:**

Req1: The employee id and name must be entered.

Req2: The system must be updated.

## **5. OTHER NON FUNCTIONAL REQUIREMENT:**

### **5.1. PERFORMANCE MANAGEMENT:**

The detail of employee must be uploaded to increase the performance of the organization.

### **5.2. SECURITY REQUIREMENT:**

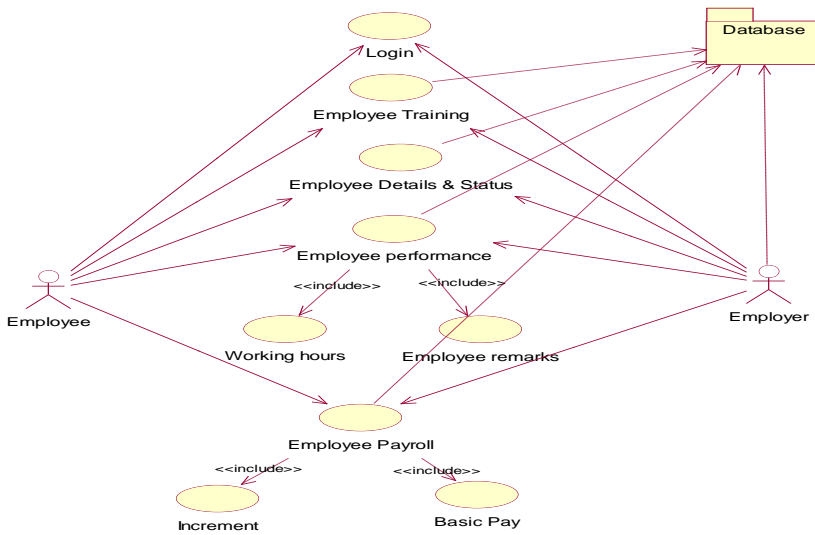
The detail of the employee must be recorded recursively and only the human resource manager must have the authority to access them.

### **5.3. SAFETY REQUIREMENT:**

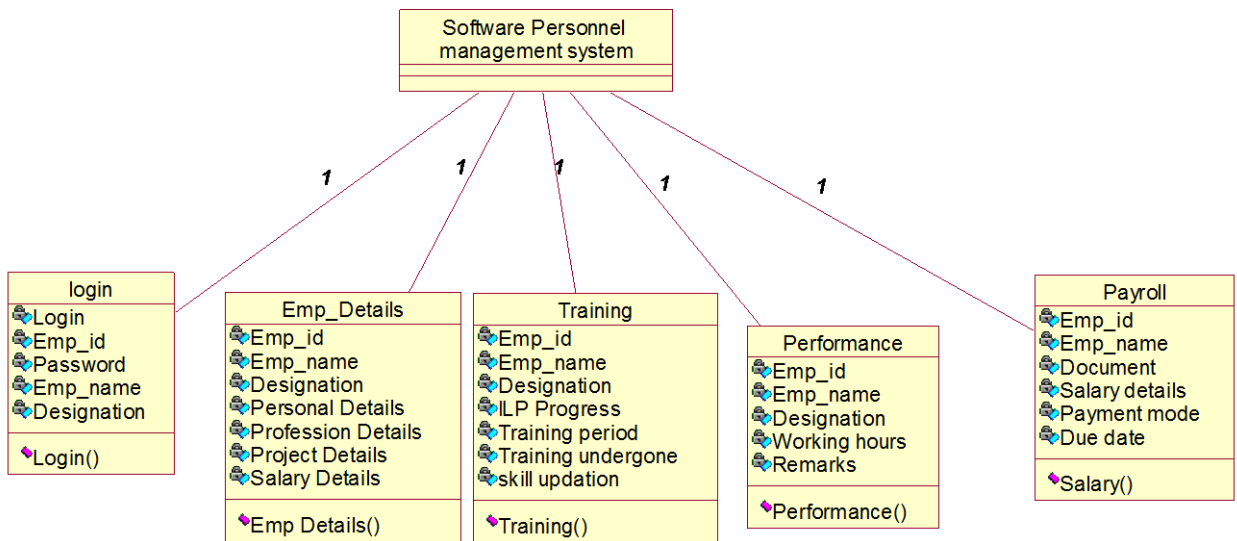
The database must be maintained efficiently without crushing or hacking.

## **1. Use case Diagram:**

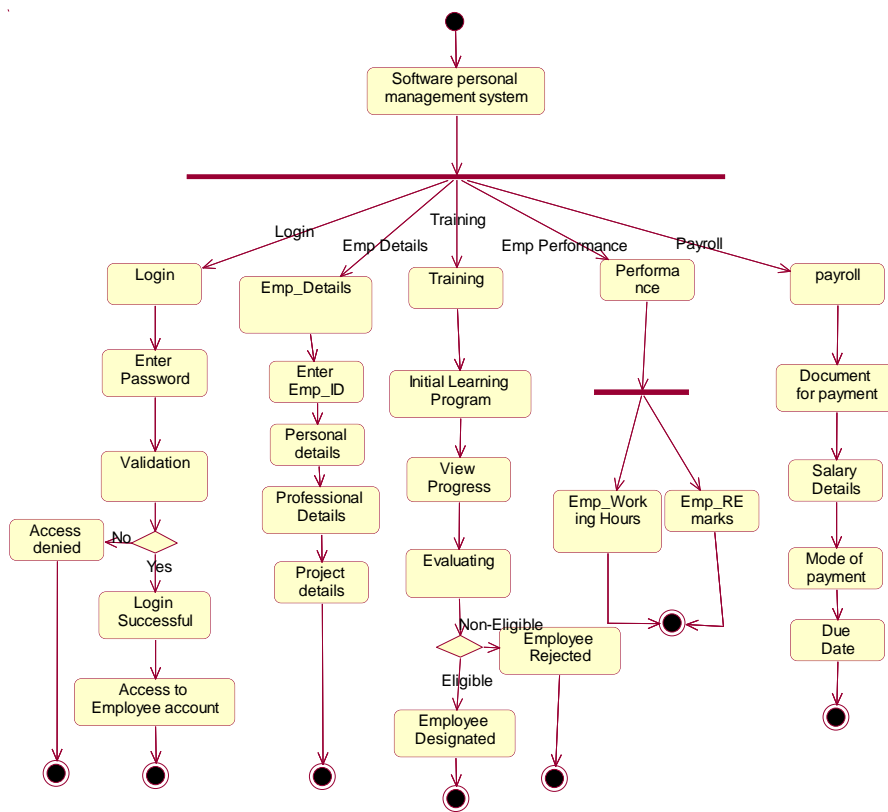




**2. Class diagram:**



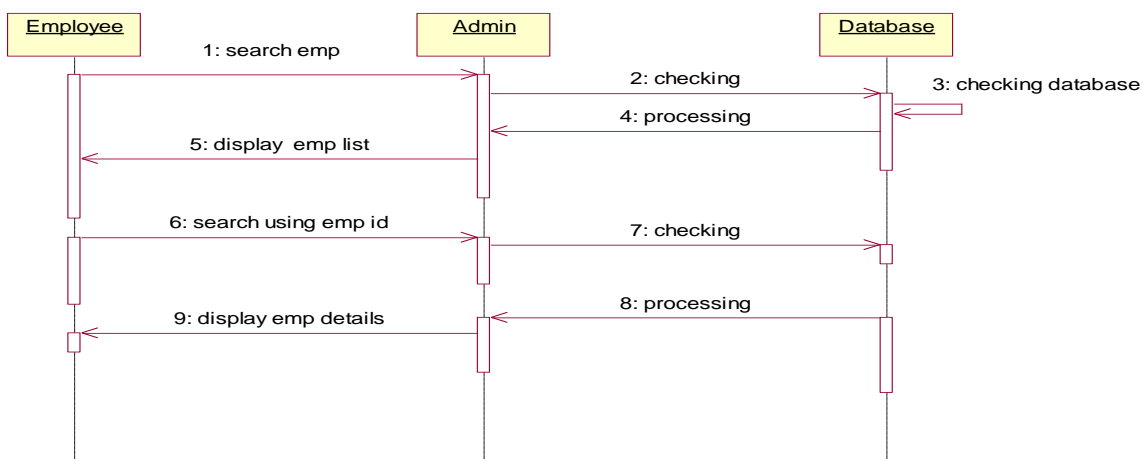
**3. Activity diagram:**



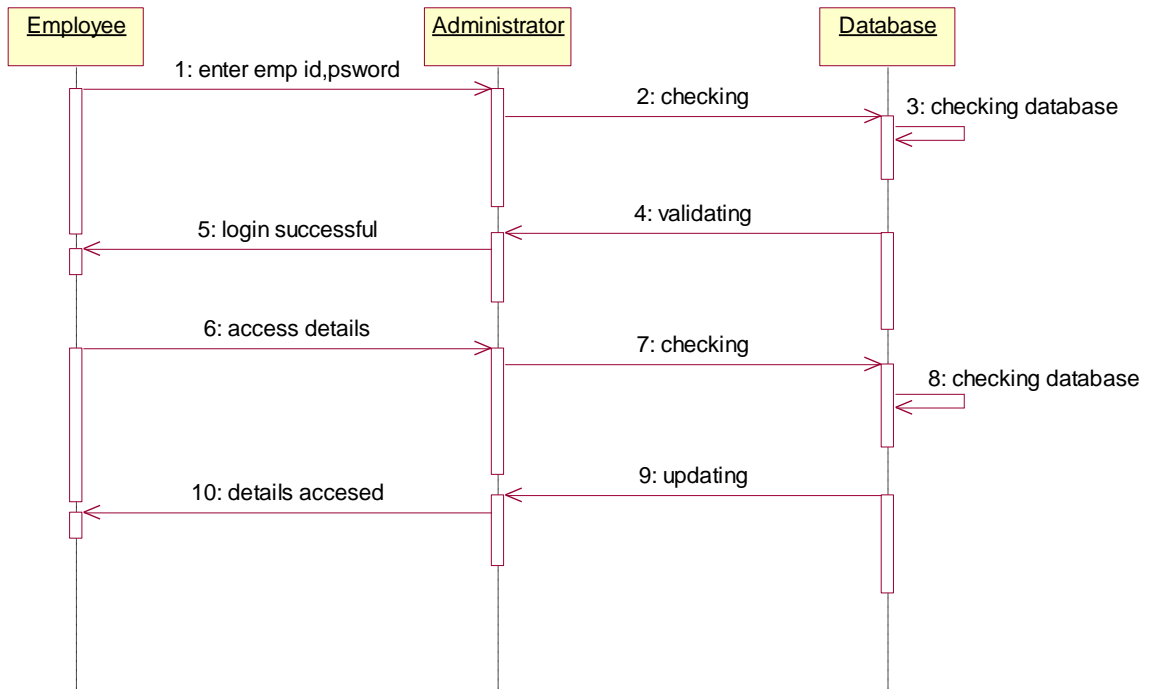
**4. Interaction Diagram:**

**(i) Sequential Diagram:**

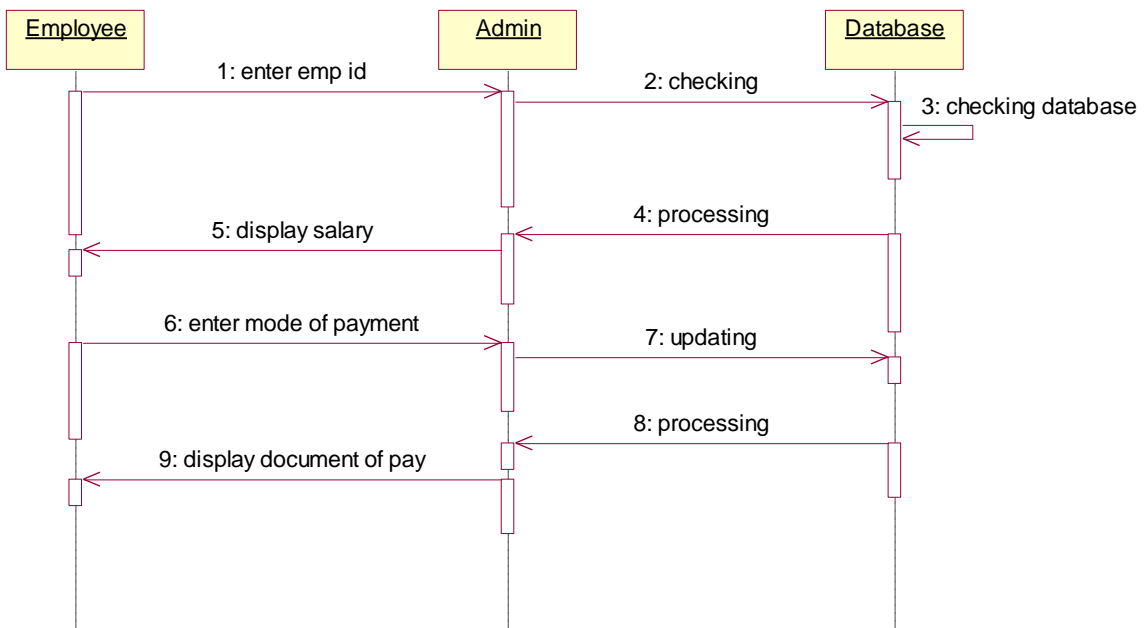
Emp\_Details:



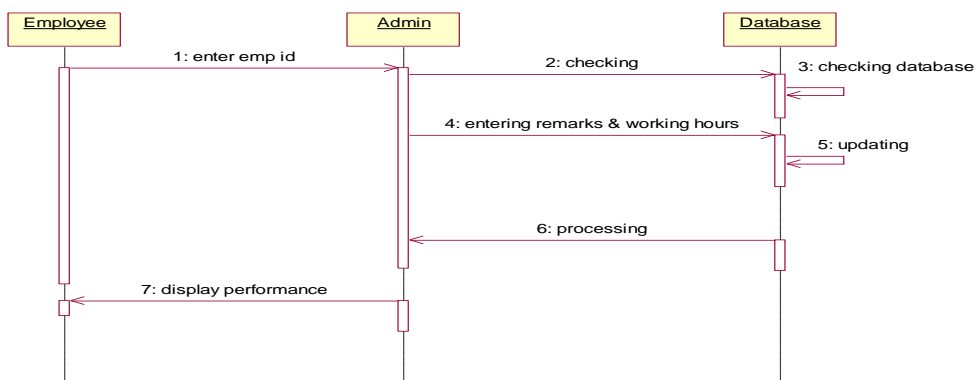
Emp login:



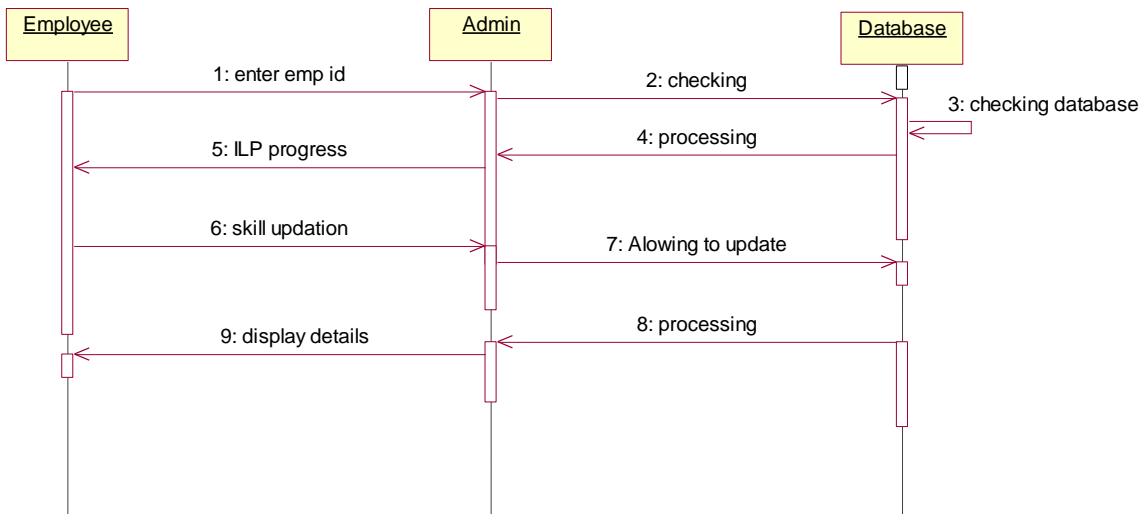
Payroll:



Emp\_Performance:

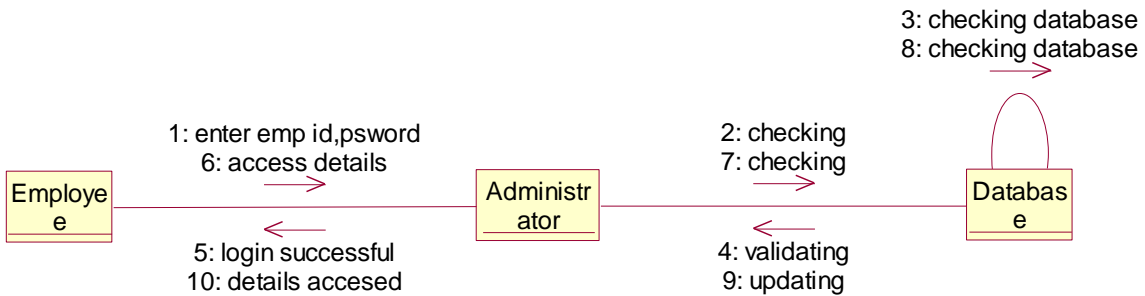


Training:

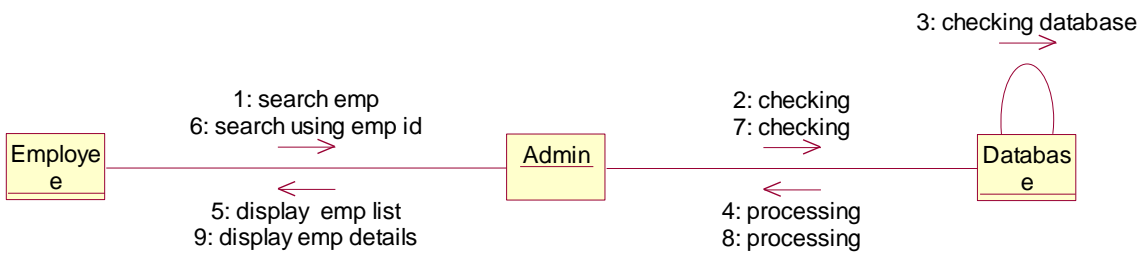


**(ii)Collabaration Diagram:**

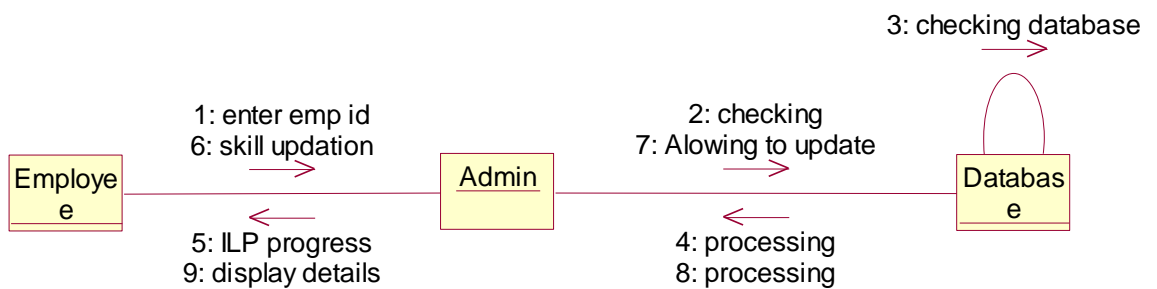
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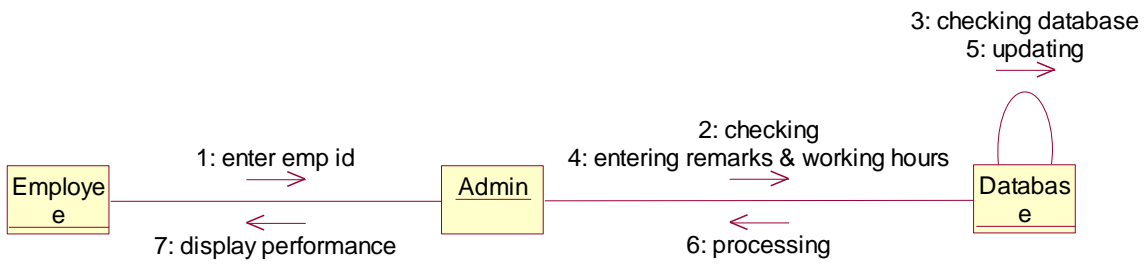
Details:



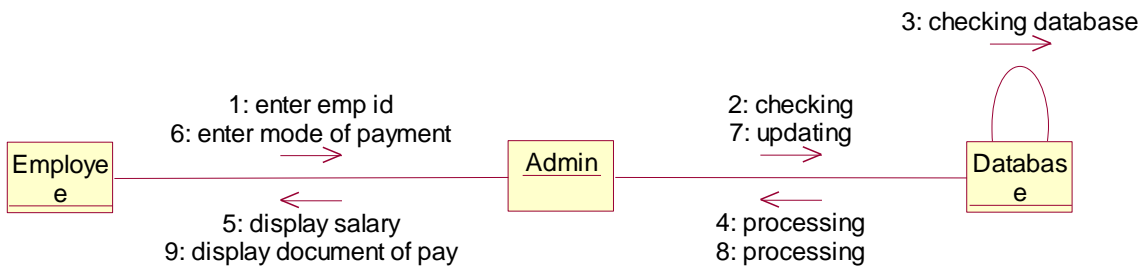
Training:



Performance:

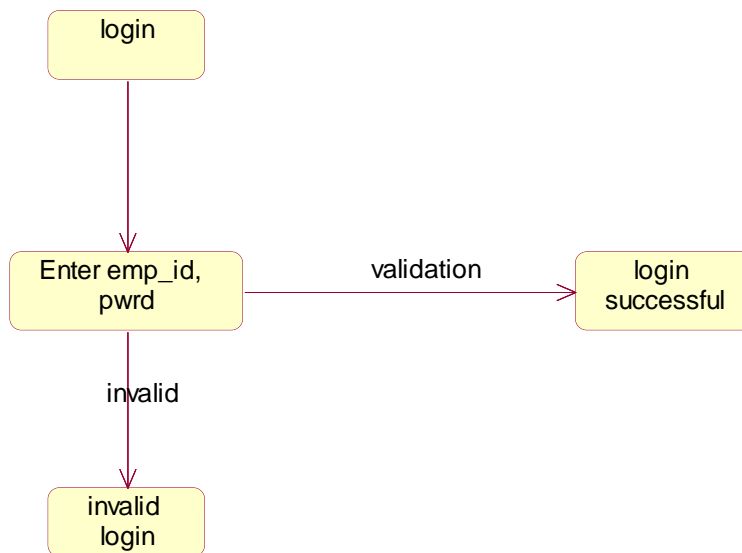


Payroll:

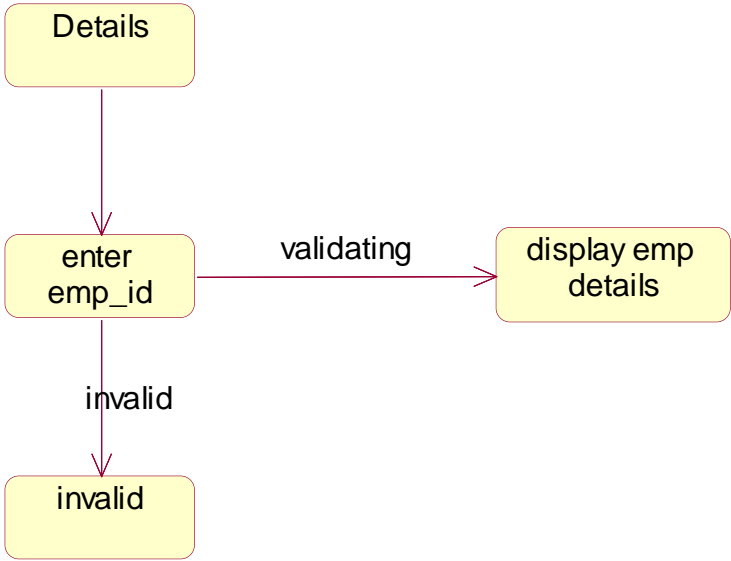


### 5.StateChart Diagram:

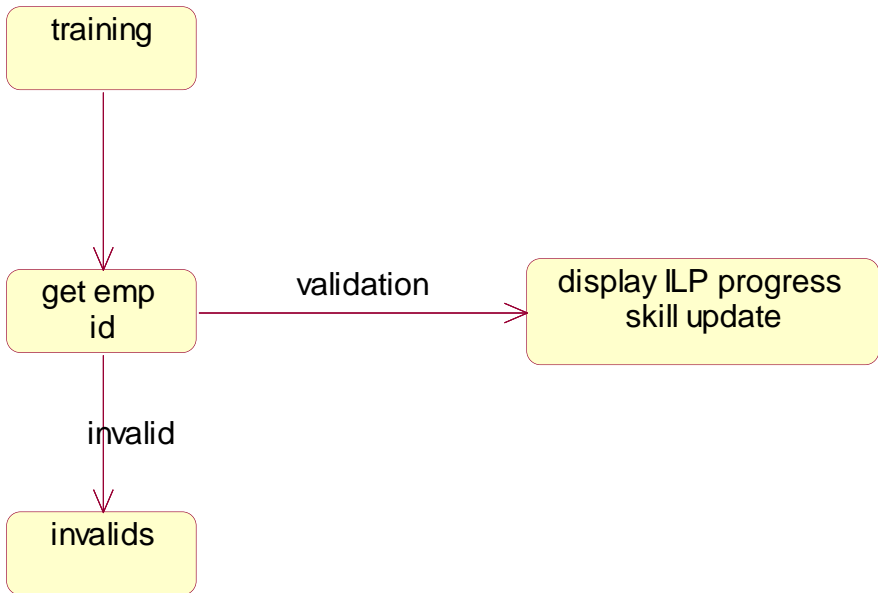
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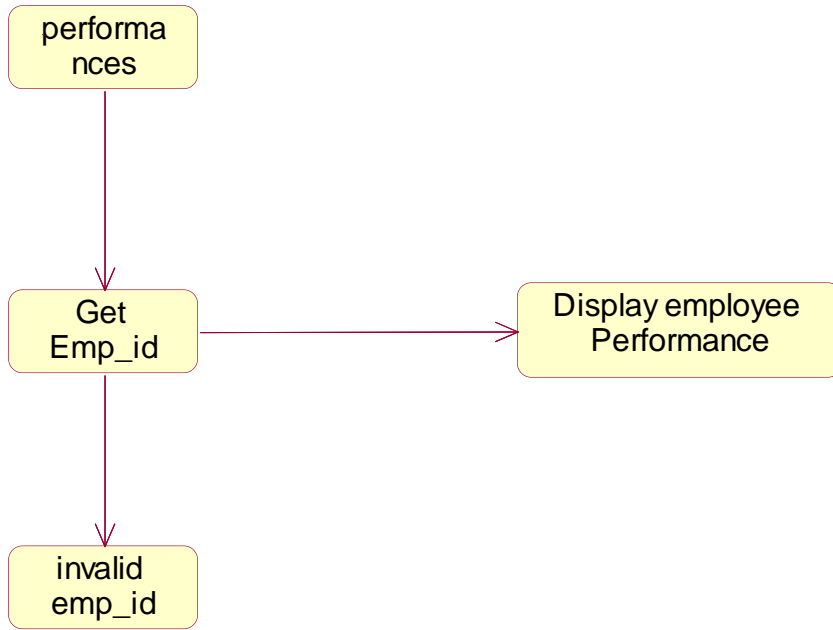
Details:



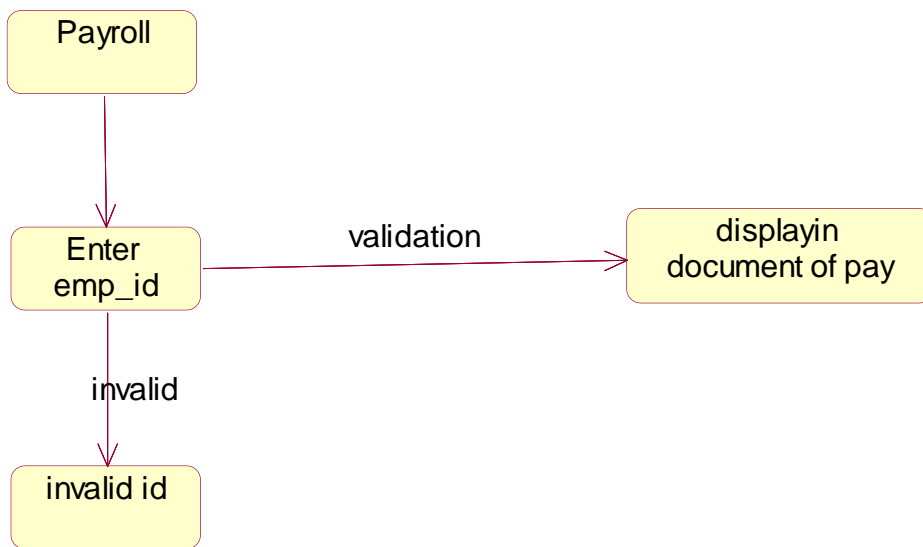
Training:



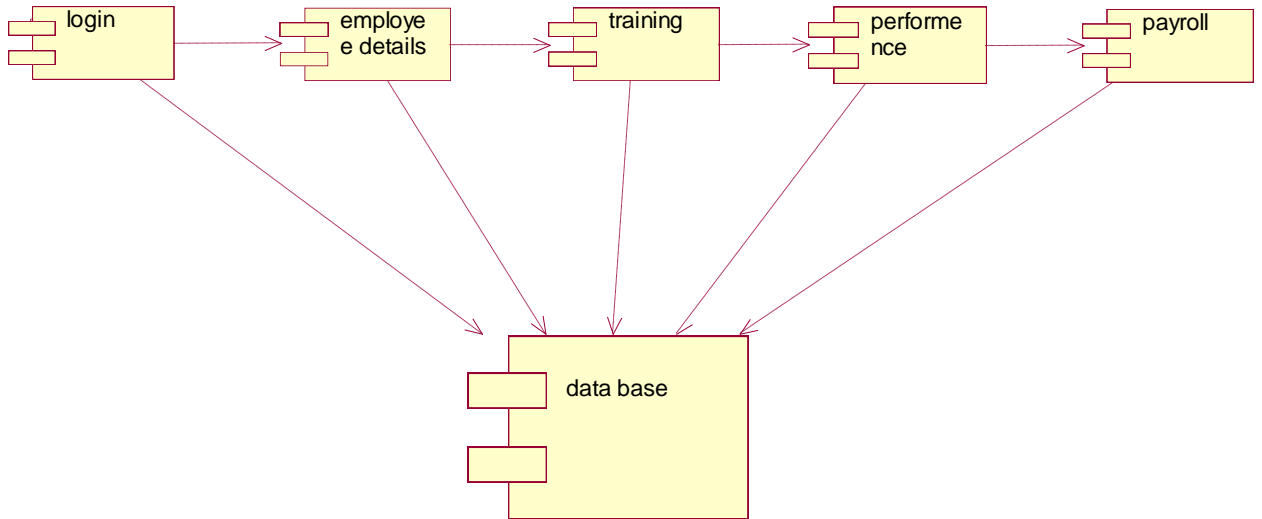
Performance:



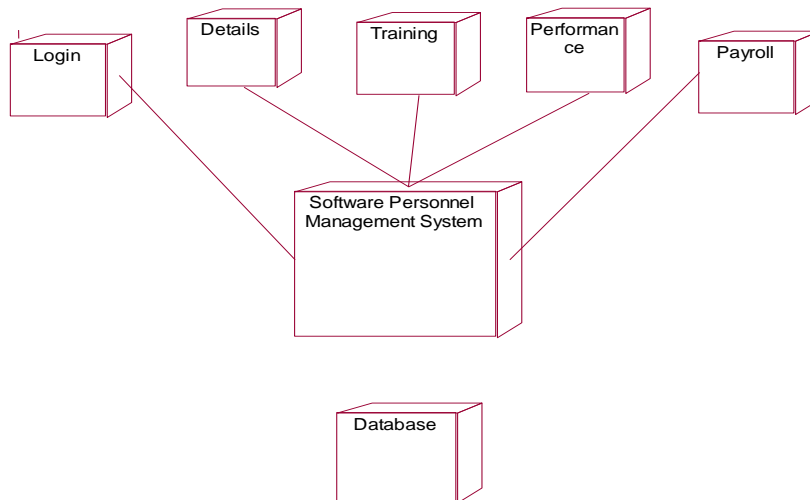
Payroll:



**6.Component diagram:**



**7. Deployment diagram:**



**Result:**

Thus the UML diagrams has been successfully completed for Software Personnel Management System.

**EX.NO : 6**

**RECRUITMENT SYSTEM**

**DATE:**

**AIM:**

To develop recruitment system project using argouml tool.

**PROBLEM STATEMENT**

The recruitment system allows the job seekers to enroll their names through the process of registration. The employee also can get the list of available candidates and shortlist for their company requirement. Once the applicant enrolls he receives an id, which helps him in further correspondence. A fees amount is received from the job seekers for enrollment. This system makes the task of the job seeker easier rather than waiting in queue for enrollment. This also reduces the time consumption for both for



the job seeker and employee.

## **SOFTWARE REQUIREMENT SPECIFICATION**

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  - 2.3 Tools to be used
3. External Interface
  - 3.1 Hardware Interface
  - 3.2 Software Interface
4. System Features
  - 4.1 Applying for job
    - 4.1.1 System Description and Priority
    - 4.1.2 Stimulus/response Sequence
    - 4.1.3 Functional Requirements
5. Other non-functional requirements
  - 5.1 Performance Requirements
  - 5.2 Safety Requirements
  - 5.3 Security Requirements

### **1. INTRODUCTION:**

This project aimed at developing a web-based recruitment system by creating details about vacancies, storing application data and interview process initiation.

#### **1.1 PURPOSE:**

Manual recruitment is a tedious processing to the increasing number of job seekers. People around the world can apply for the online recruitment system and it is very convenient too. This system is specially designed for those seek the most demanding job and challenging positions in their own field.

#### **1.2. SCOPE:**

Recruitment system allows the job seekers to find their dream job in the chosen field. This system helps the companies to recruit the right candidate for the job. This system serves as a common meeting ground for job seekers and employees, both locally and globally.

#### **1.3. DOCUMENT CONVENTIONS:**

Administrator - The person who has the full authority over the system. He can

view all registered users.

Job Seekers - the person who registers in the system in search of jobs.

Company - A company can register itself, select the required employees and provide information about the result.

#### **1.4. REFERENCES:**

www.timesjob.com:

### **2 OVERALL DESCRIPTIONS:**

#### **2.1 PRODUCT PERSPECTIVE:**

This project is a self-contained project for convenient recruitment process.

#### **2.2 PRODUCT FUNCTIONS:**

The front end of the project is where the visitors or job seeker's do their enrollment. The back end is managed by the administrator effectively

#### **2.3 TOOLS TO BE USED:**

Visual basic and Microsoft Access

### **3. EXTERNAL INTERFACES:**

#### **3.1 HARDWARE INTERFACES:**

The system should have good hardware support. The processor should have high speed and must be of high efficiency.

#### **3.2 SOFTWARE INTERFACE:**

The system uses ODBC drive to connect and control the database.

### **4. SYSTEM FEATURES:**

#### **4.1 APPLYING FOR JOB:**

##### **4.1.1 SYSTEM DESCRIPTION AND PRIORITY:**

This feature allows the job seeker to apply for job.

##### **4.1.2 STIMULUS AND RESPONSE SEQUENCE:**

When the job seeker uploads his resume, the list of jobs matching the resume will be posted.

##### **4.1.3 FUNCTIONAL REQUIREMENTS:**

REQ1: Only registered users can apply for the job.

REQ2: The Company has the right to recruit the candidates, not the system.

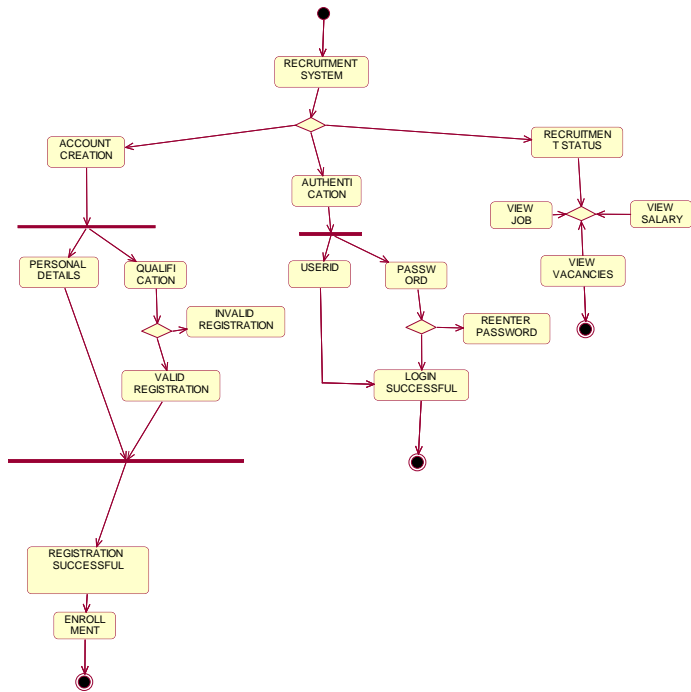
### **5 OTHER NON-FUNCTIONAL REQUIREMENTS:**

#### **5.1 PERFORMANCE MANAGEMENT:**

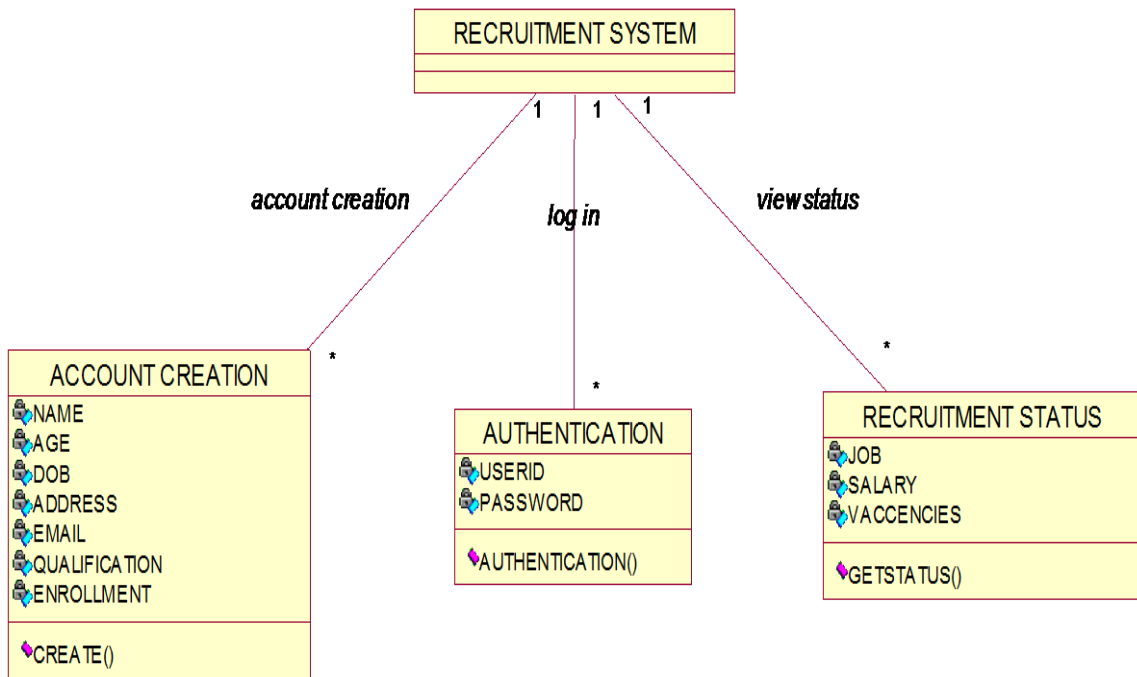
To increase the performance and free up database resources, the default features are written to cache files on their initial load.

#### **5.2 SAFETY REQUIREMENTS:**





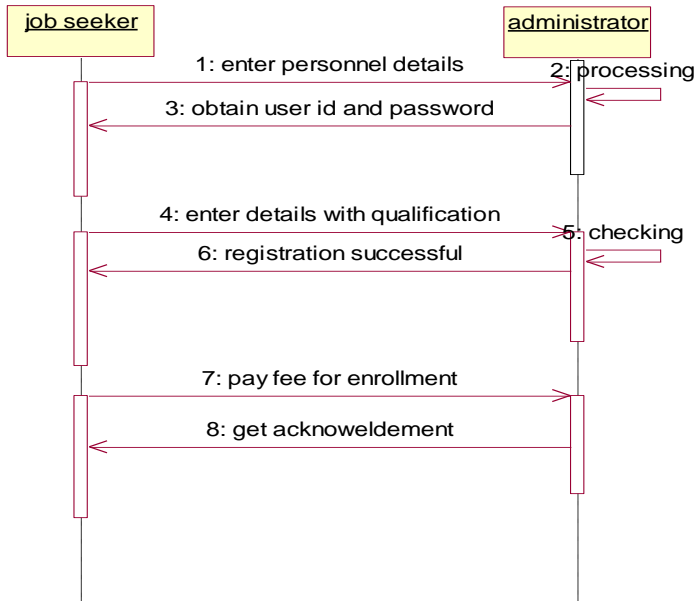
**3.CLASS DIAGRAM:**



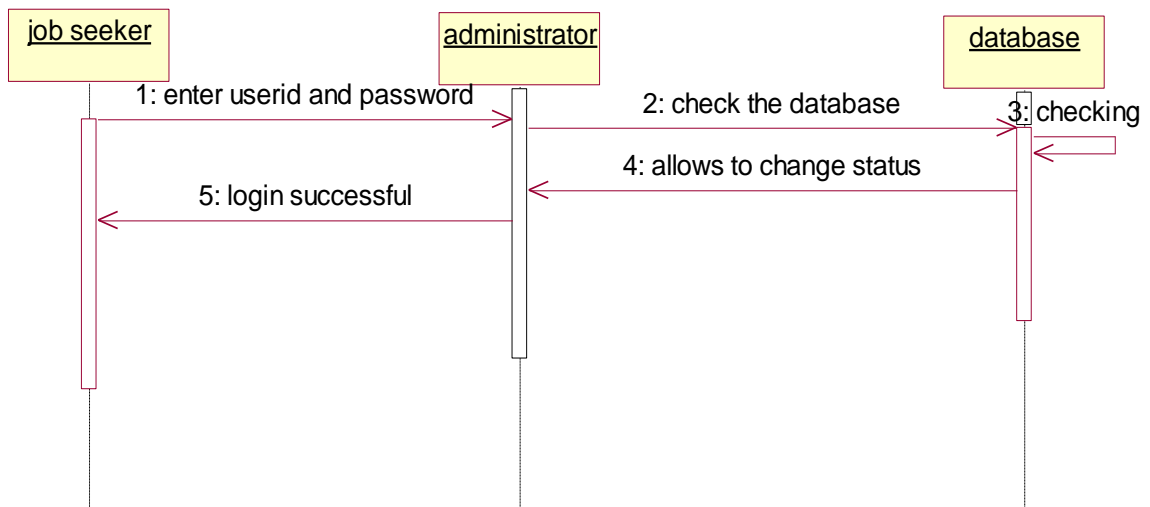
**4.INTERACTION DIAGRAM:**

**(i)SEQUENCE DIAGRAM:**

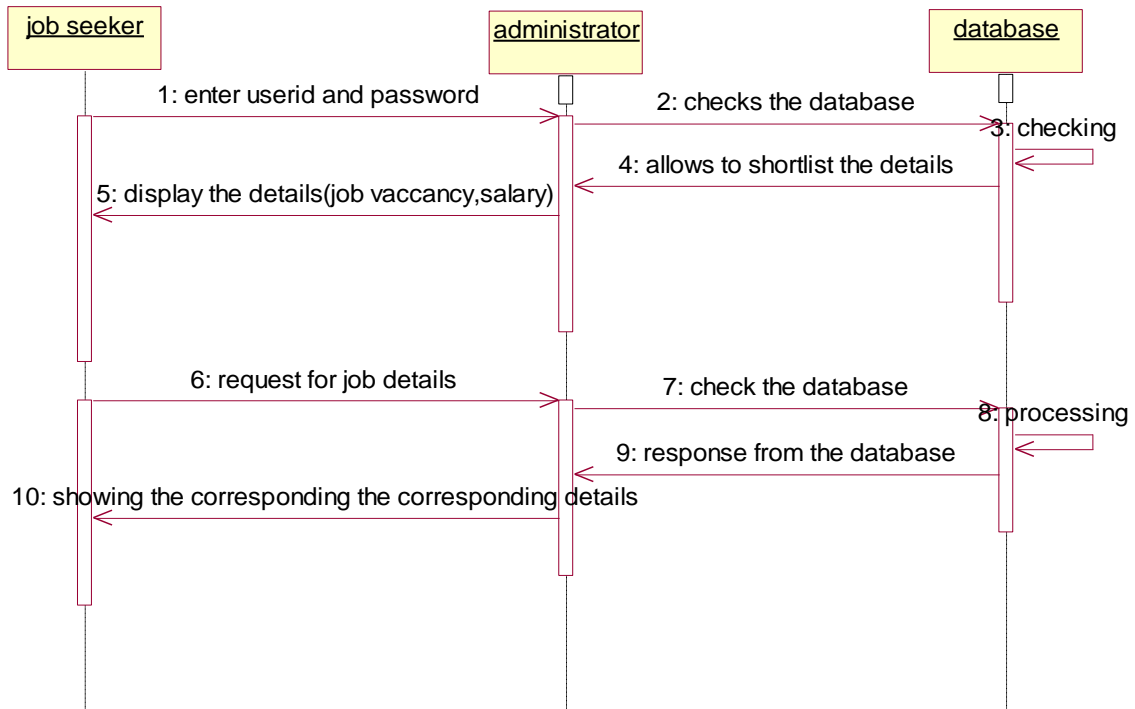
**ACCOUNT CREATION:**



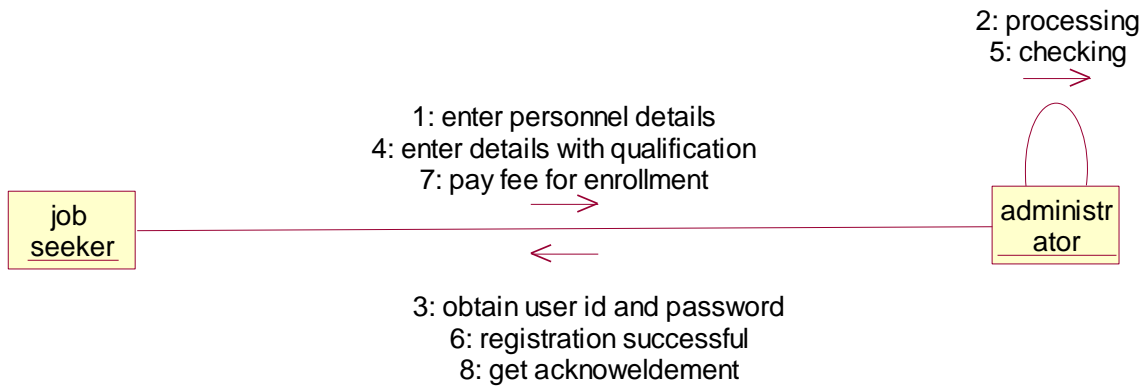
**AUTHENTICATION:**



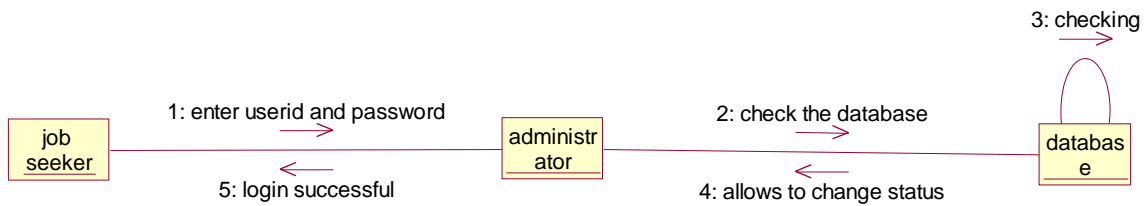
**RECRUITMENT STATUS:**



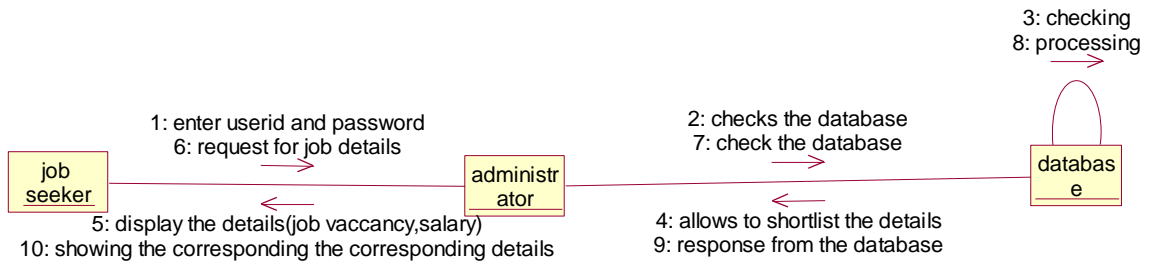
**(ii) COLLABORATION DIAGRAM:  
ACCOUNT CREATION:**



**AUTHENTICATION:**

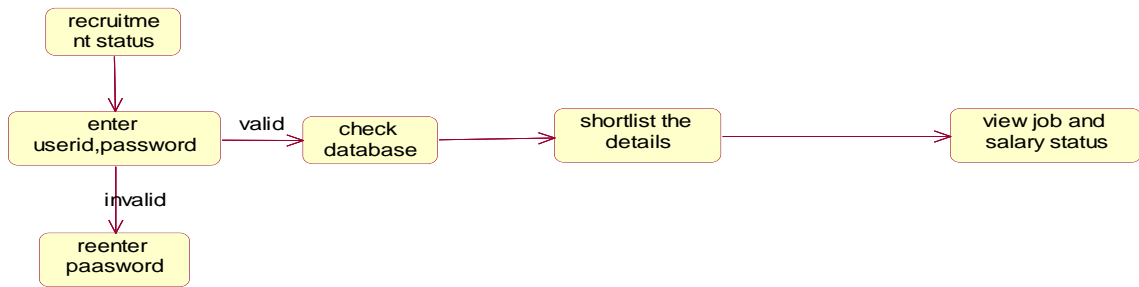


**RECRUITMENT STATUS:**

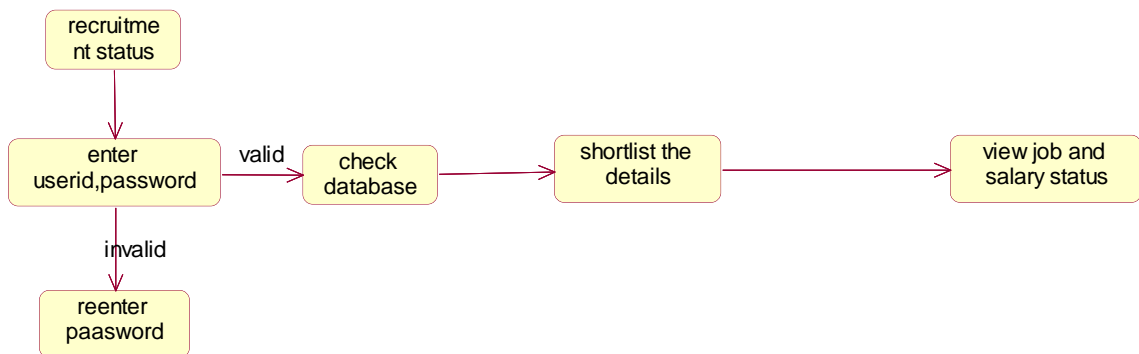


**5.STATE CHART DIAGRAM:**

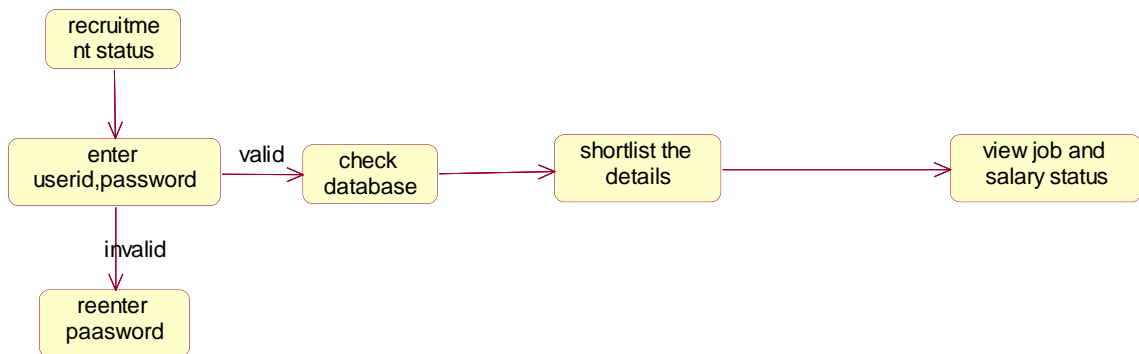
**ACCOUNT CREATION:**



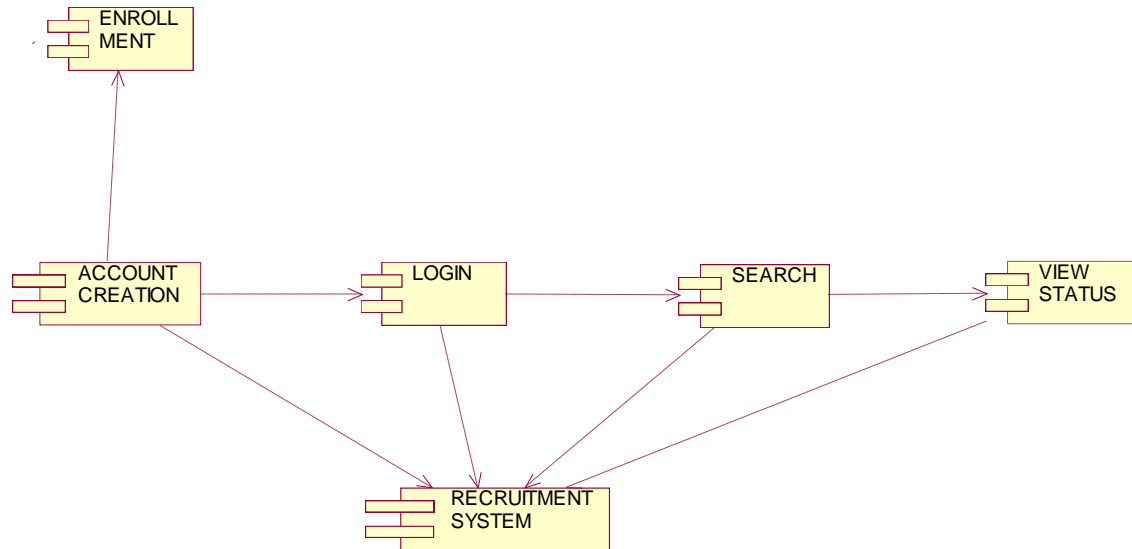
**AUTHENTICATION:**



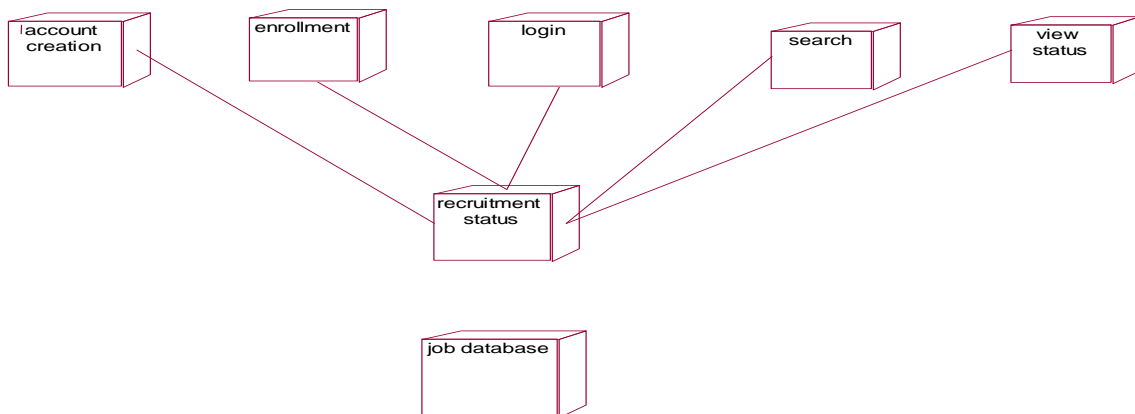
**RECRUITMENT STATUS:**



**6.COMPONENT DIAGRAM:**



**7.DEPLOYMENT DIAGRAM:**



**Result:**

Thus the UML diagrams has been successfully completed for Recruitment system.

**Ex.No: 7 CONFERENCE MANAGEMENT SYSTEM**

**DATE:**

**AIM**

To develop a Conference Management System project using argouml tool.

**PROBLEM STATEMENT**

Conference management system is used to register for a conference by filling all the details. It maintains the active database about information by conference in an efficient way in exercising the system there are problems such as time consumption, lot of paper work and space consumption. So to overcome these



problems we move onto conference management .it can be viewed and analyzed in a quick and easy way. It shares time and maintenance cost, it provides online submission of paper in a simple way for participants

## **SOFTWARE REQUIREMENT SPECIFICATION**

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  - 2.3 Tools to be used
3. External Interface
  - 3.1 Hardware Interface
  - 3.2 Software Interface
4. System Features
  - 4.1 Applying for Passport
    - 4.1.1 System Description and Priority
    - 4.1.2 Stimulus/response Sequence
    - 4.1.3 Functional Requirements
5. Other non-functional requirements
  - 5.1 Performance Requirements
  - 5.2 Safety Requirement

### **1. INTRODUCTION**

A conference management system can be regarded as domain specific content management system.

#### **1.1.PURPOSE**

The purpose of this SRS is secure as the responsibility for all requirements that conference management should process

#### **1.2. SCOPE**

The system provides a communication platform between the user and the reviewer. This will help both the user and reviewer by reducing the time and workload. It is a web based system that supports the entire information about conference in an efficient way.

#### **1.3.DOCUMENT CONVENTIONS, ACRONYMS AND ABBREVIATIONS**

- Reviewer-Refers to the user who is the Central Authority who has been vested with the privilege to manage the entire system and select the papers.
- Applicant - One who wishes to submit the paper for the conference
- CMS – Conference Management System.

#### **1.4.REFERENCES**

[www.papers.in](http://www.papers.in),[www.india.in](http://www.india.in)

## **2.0 OVERALL DESCRIPTION**

### **2.1 PRODUCT PERSPECTIVE**

The CMS acts as an interface between the applicant and the administrator. It uses external relational database management system as a data. Every case of the system uses only a web browser as an event to connect the system.

### **2.2 PRODUCT FUNCTIONS**

This system functions with a database at the backend,for keeping track of its registered students and also its available resources.

### **2.3. TOOLS TO BE USED**

Visual Basic and Microsoft Access

## **3. EXTERNAL INTERFACE REQUIREMENTS**

### **3.1 HARDWARE INTERFACES**

The system should have good hardware support. The processor should have high speed and must be of high efficiency.

### **3.2 SOFTWARE INTERFACE**

The system uses ODBC drive to connect and control the database.

## **4 SYSTEM FEATURES**

### **4.1 APPLYING FOR CONFERENCE**

#### **4.1.1 DESCRIPTION AND PRIORITY**

This system allows the student who wishes to participate at the conference has to enroll their names and make their registration easy way .

#### **4.1.2 STIMULUS/RESPONSE SEQUENCE**

When the applicant submits all the required details, his status will be updated in their database and after he submits the paper, it will be reviewed by the reviewer and he gives the rating. After few days, the applicant can check whether his paper is selected for the conference.

#### **4.1.3 FUNCTIONAL REQUIREMENTS**

REQ 1: The applicant must have a registered account.

REQ 2: The applicant must submit only the valid information, papers.

## **5 OTHER NONFUNCTIONAL REQUIREMENTS**

### **5.1 PERFORMANCE REQUIREMENTS**

To increase performance and to free up database resources for other tasks, the default features are written to cache files on their initial load, and consequent accesses to them result in parsing a flat file for data.

### **5.2 SAFETY REQUIREMENTS**

The database must be maintained effectively and the administrator must maintain the interface properly. The user has to be careful while submitting the

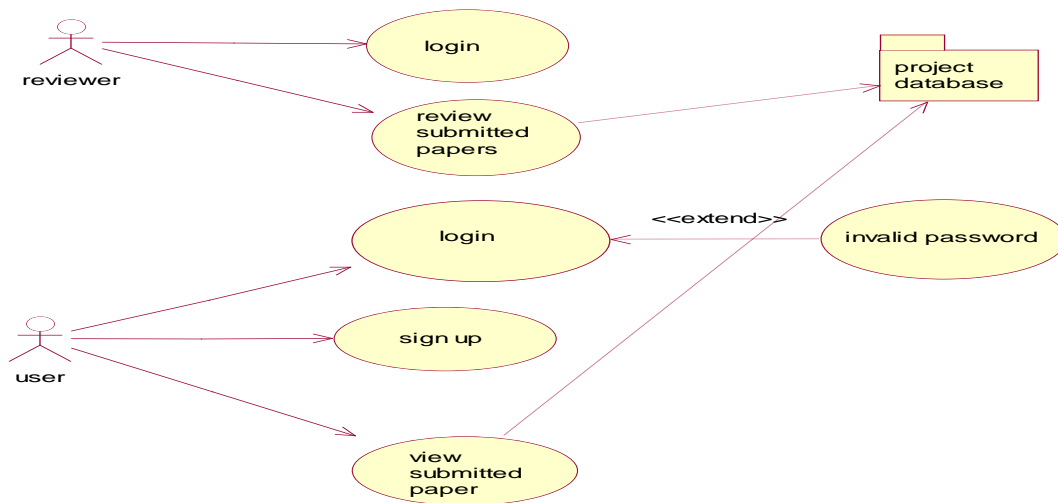
information.

### 5.3 SECURITY REQUIREMENTS

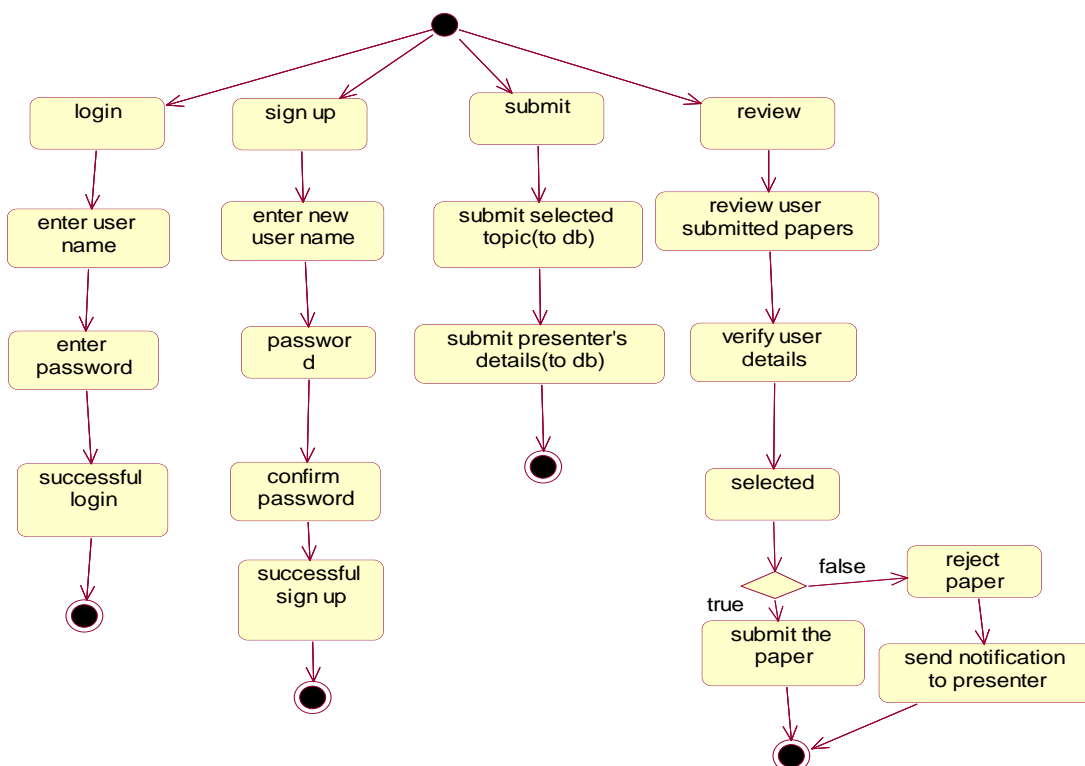
details for registered users are stored in the database. Only the database administrator can have access to the main database. The database must be protected from hacking the details of the applicants.

## CONFERENCE MANAGEMENT SYSTEM

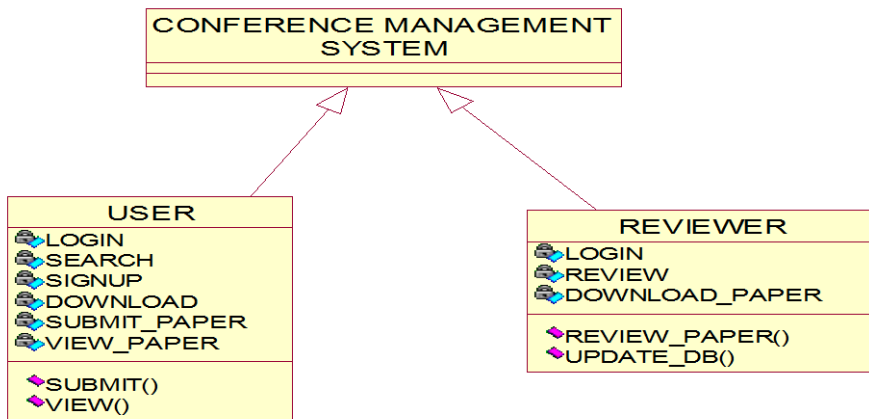
### 1. USE CASE DIAGRAM



### 2. ACTIVITY DIAGRAM

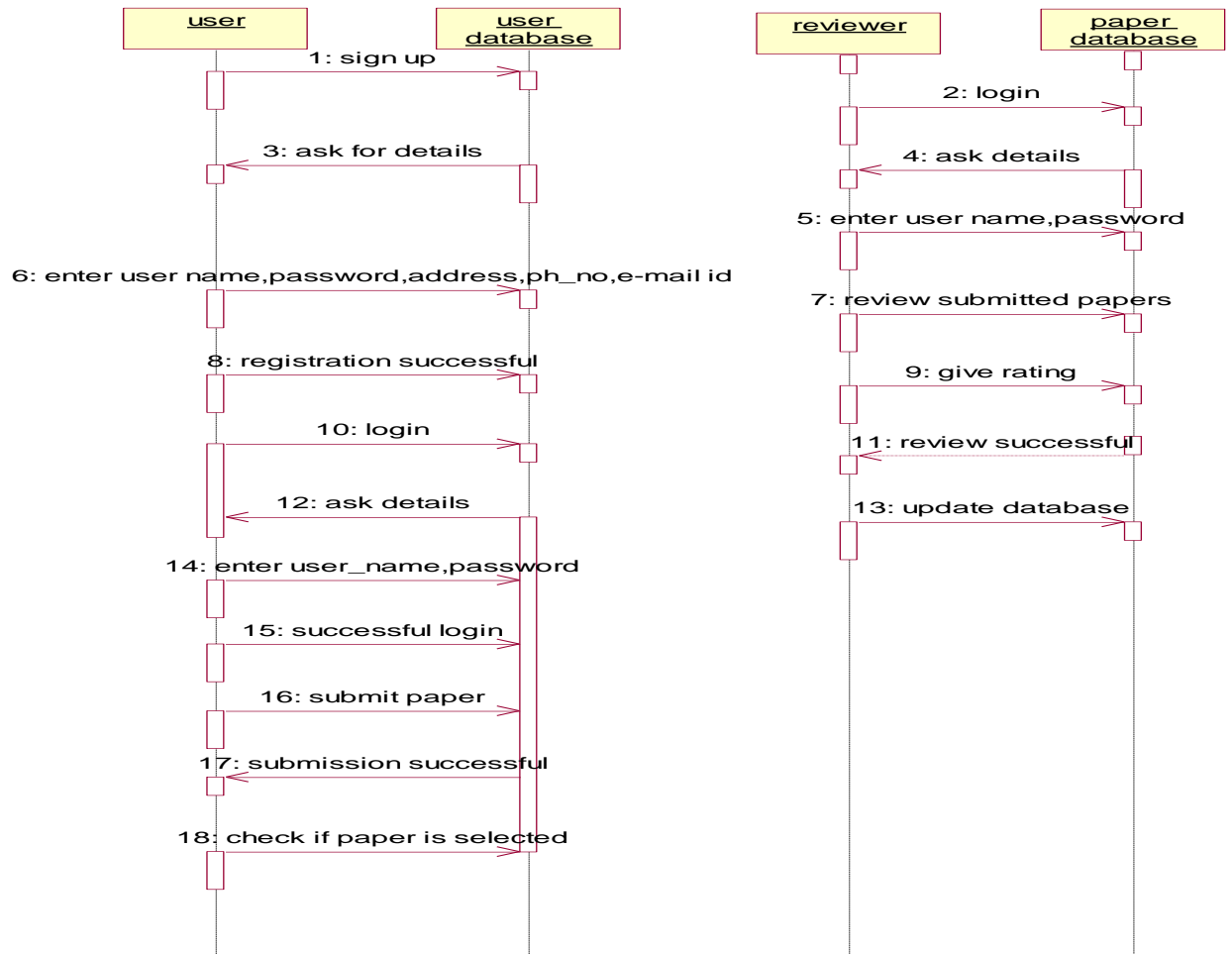


### 3.CLASS DIAGRAM

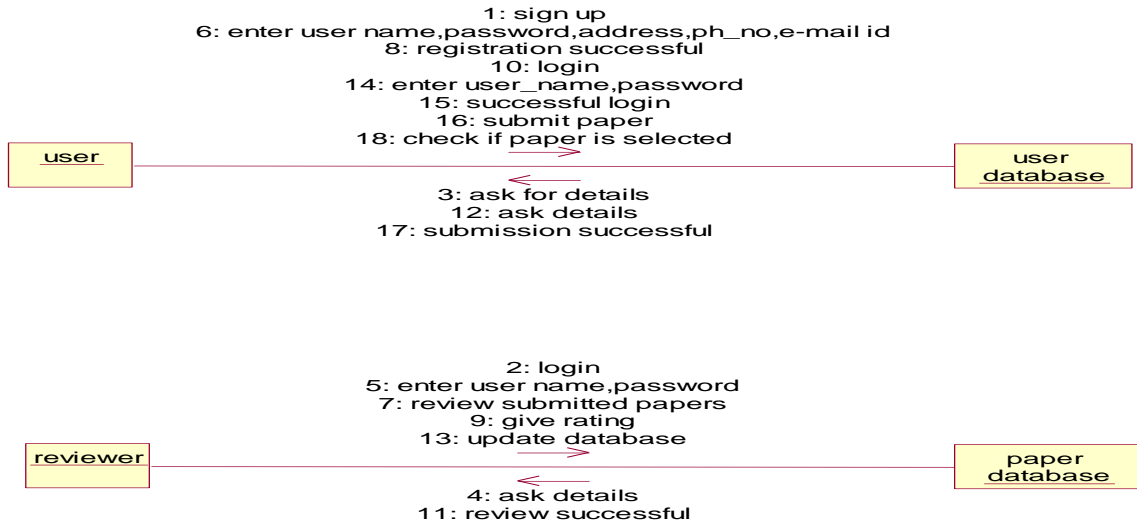


### 4.INTERACTION DIAGRAM:

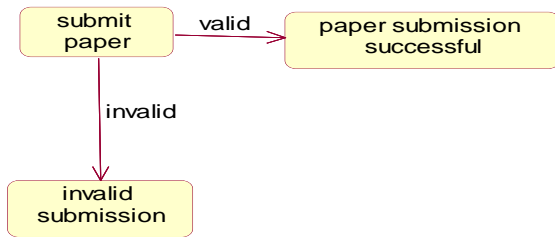
#### (i) Sequence Diagram



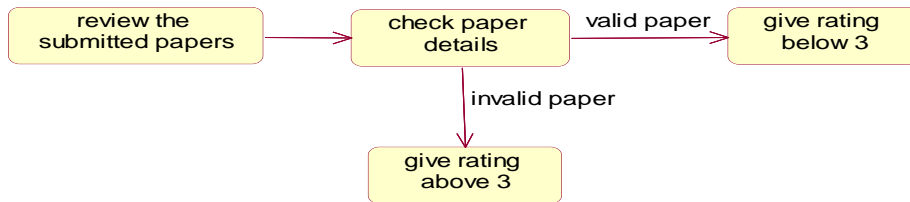
#### (ii)COLLABORATION DIAGRAM



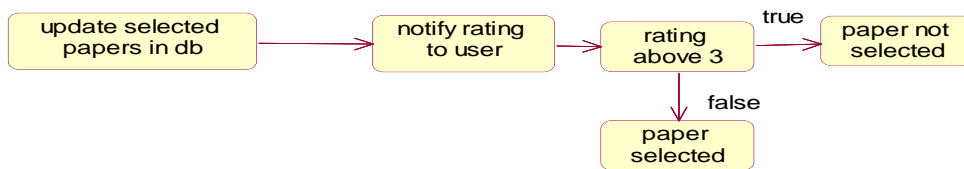
### 5.STATECHART DIAGRAM



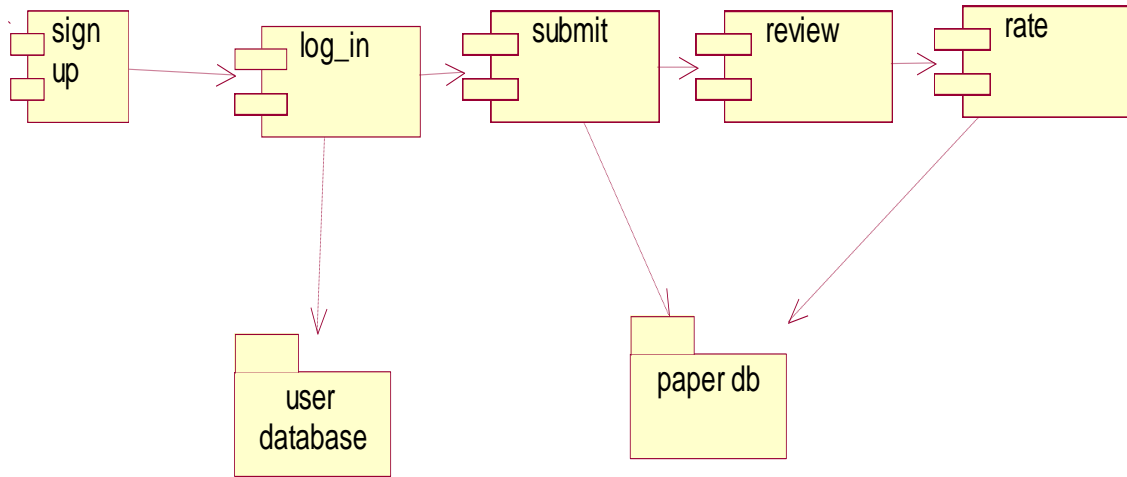
#### REVIEW PAPER



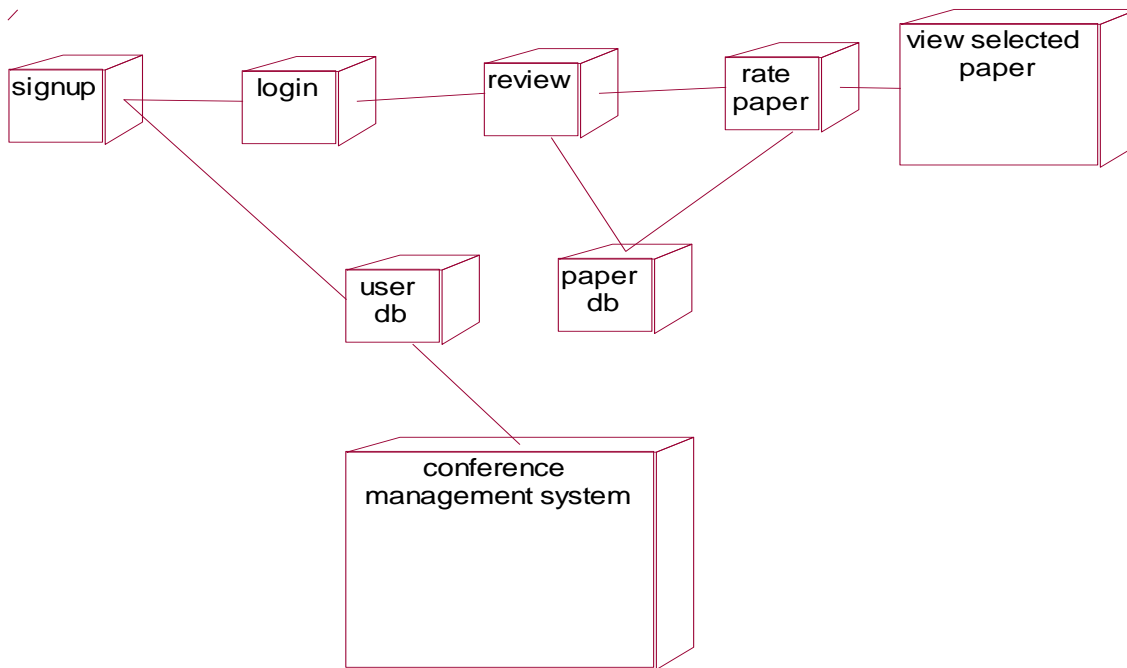
#### CONFIRM PAPER



### 6.COMPONENT DIAGRAM



**7.DEPLOYMENT DIAGRAM**



**Result:**

Thus the UML diagrams has been successfully completed for Conference management system.

**EX.NO:8**

## **BPO MANAGEMENT SYSTEM**

**DATE:**

**AIM:**

To development bpo management system project using argouml tool.

### **PROBLEM STATEMENT**

Business Process Outsourcing (BPO) Management System is International Management of our business. The customer needs to register them in the system. Each customer has his own username and password. This helps the customer to login in the system, get product information they need, register their complaints about product or management etc. The system works and their process are similar to all call centers. Managing foreign (International) companies and responding their needs and complaints are main process involved in BPO system.

### **SOFTWARE REQUIREMENT SPECIFICATION**

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  - 1.3 Document conventions
  - 1.4 References
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  - 2.3 Tools to be used
3. External Interface
  - 3.1 Hardware Interface
  - 3.2 Software Interface
4. System Features
  - 4.1 Applying for job
    - 4.1.1 System Description and Priority
    - 4.1.2 Stimulus/response Sequence
    - 4.1.3 Functional Requirements
5. Other non-functional requirements
  - 5.1 Performance Requirements
  - 5.2 Safety Requirements
  - 5.3 Security Requirements

### **1. INTRODUCTION**

BPO Management Services (BPOMS) offers strategic new business product for the BPO marketplace. BPO management service is both a BPO direct services and provides an expert BPO project manager.

#### **1.1.PURPOSE**

BPOMS provide a broad portfolio of business and technology solution to help its client world-wide improve their business performance.

#### **1.2.SCOPE**

It provides a good improvement in business performance. It improves the existing business technology and improves direct services.

#### **1.3 DOCUMENT CONVENTIONS**

BPO – Business Process Outsourcing

ITO – IT Outsourcing specifies in mainframe, issues, mid-range and Inter service manage services as well as remote desktop and network services.

#### **1.4 REFERENCE**

<http://www.bporms.com>

### **2. OVERALL DESCRIPTION**

#### **2.1. PRODUCT PERSPECTIVE**

BPOMS highly experienced experts have skills to design, implements and support the right solution for each customer need.

#### **2.2. PRODUCT FUNCTIONS**

Our use of quality delivery method and ISO certified process enables us to deliver service and computer engagement is highly efficient.

#### **2.3 TOOLS TO BE USED**

Visual basic and Microsoft Access

### **3. EXTERNAL INTERFACES**

#### **3.1 HARDWARE INTERFACES**

The system should have good hardware support. The processor should have high speed and must be of high efficiency.

#### **3.2 SOFTWARE INTERFACE**

The system uses extensive database. Hence it requires JDBC drivers for connecting to the database.

### **4. SYSTEM FEATURES**

#### **4.1 CONTRAST DEVELOPMENT**

##### **4.1.1. SYSTEM DESCRIPTION AND PRIORITY**

This feature allows the BPO to management the constraints.

##### **4.1.2 STIMULUS/RESPONSE SEQUENCE**

When the customers call for query the employee must satisfy them with meaningful solution.

##### **4.1.3 FUNCTIONAL REQUIREMENTS**

REQ 1: The employee must be hard working.

REQ 2: The Company must have details about the contract.

### **5. OTHER NON-FUNCTIONAL REQUIREMENTS**

#### **5.1 PERFORMANCE REQUIREMENTS**

This system makes use of extensive database hence the initial factor must be loaded in the cache during the initial loading process.

#### **5.2 SAFETY REQUIREMENTS**

The database must be managed effectively and protected from hacking and virus attack.

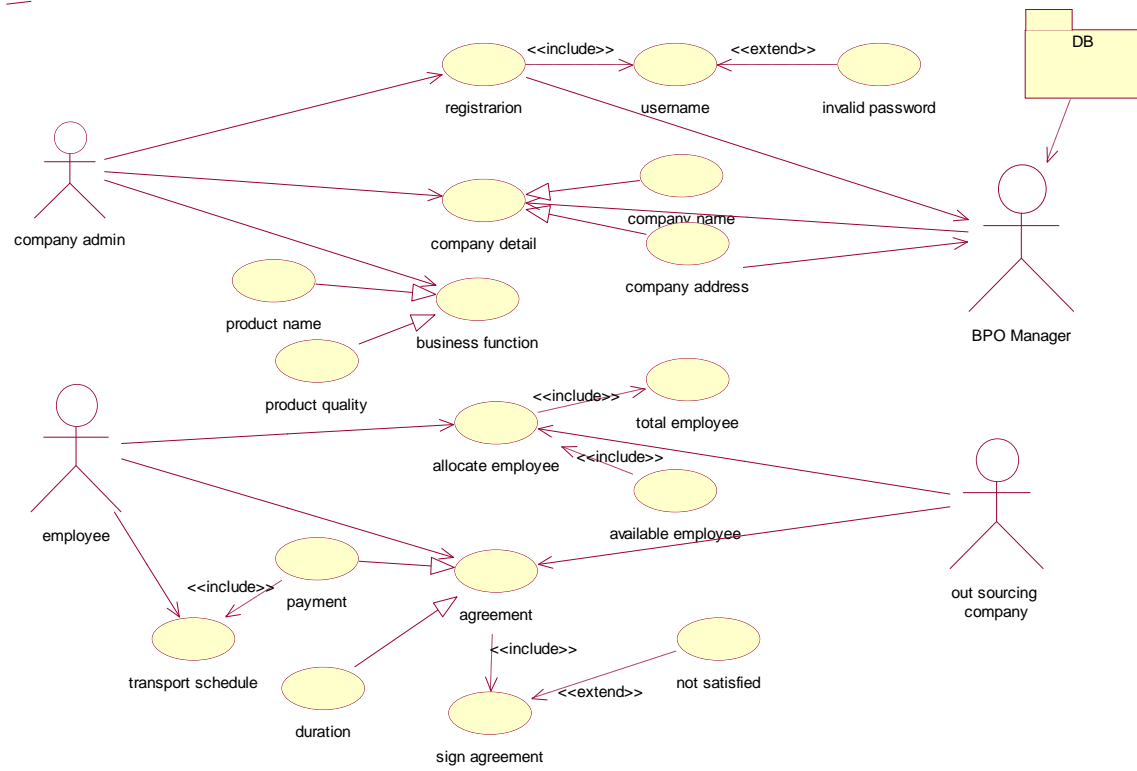
#### **5.3 SECURITY REQUIREMENTS**

The HR or the administrator can access the profiles of the company and employee details.

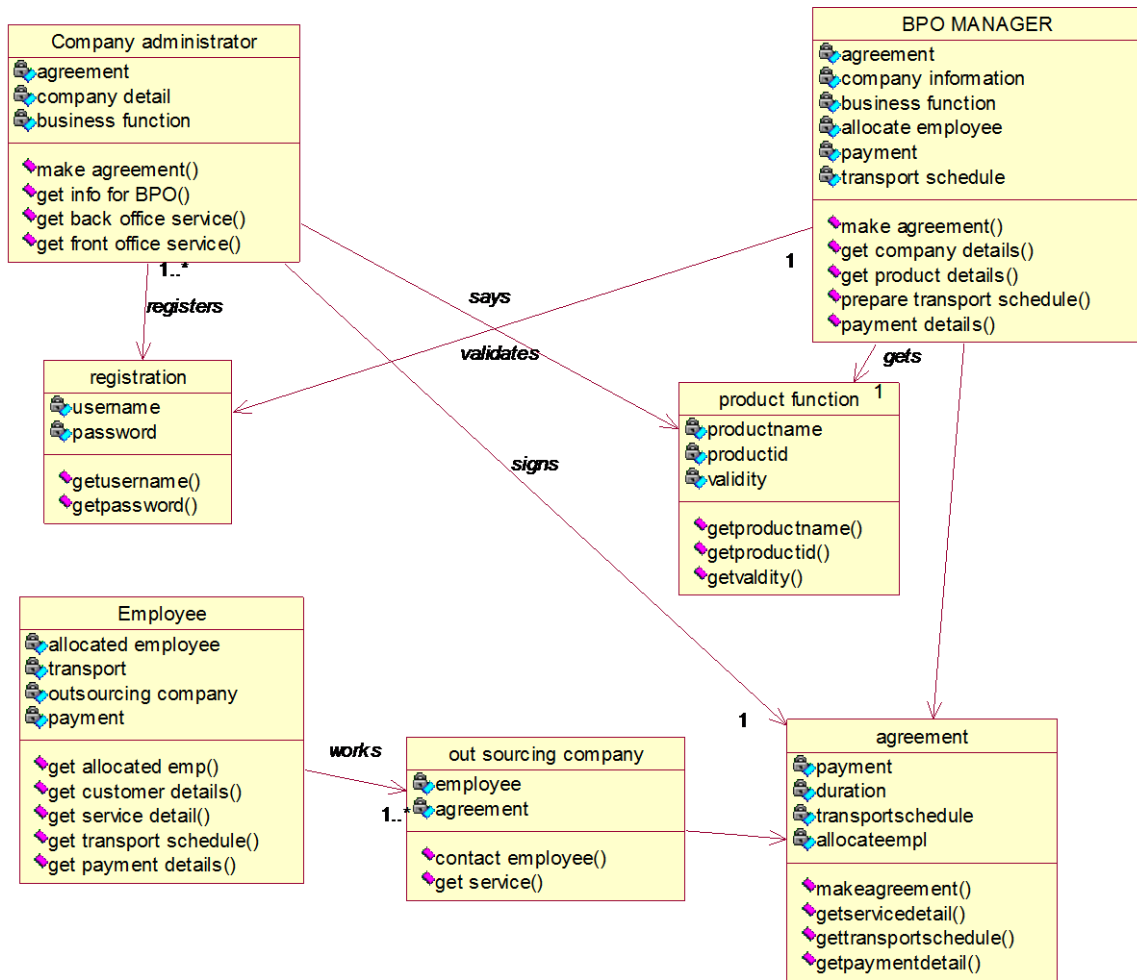


# BPO Management System

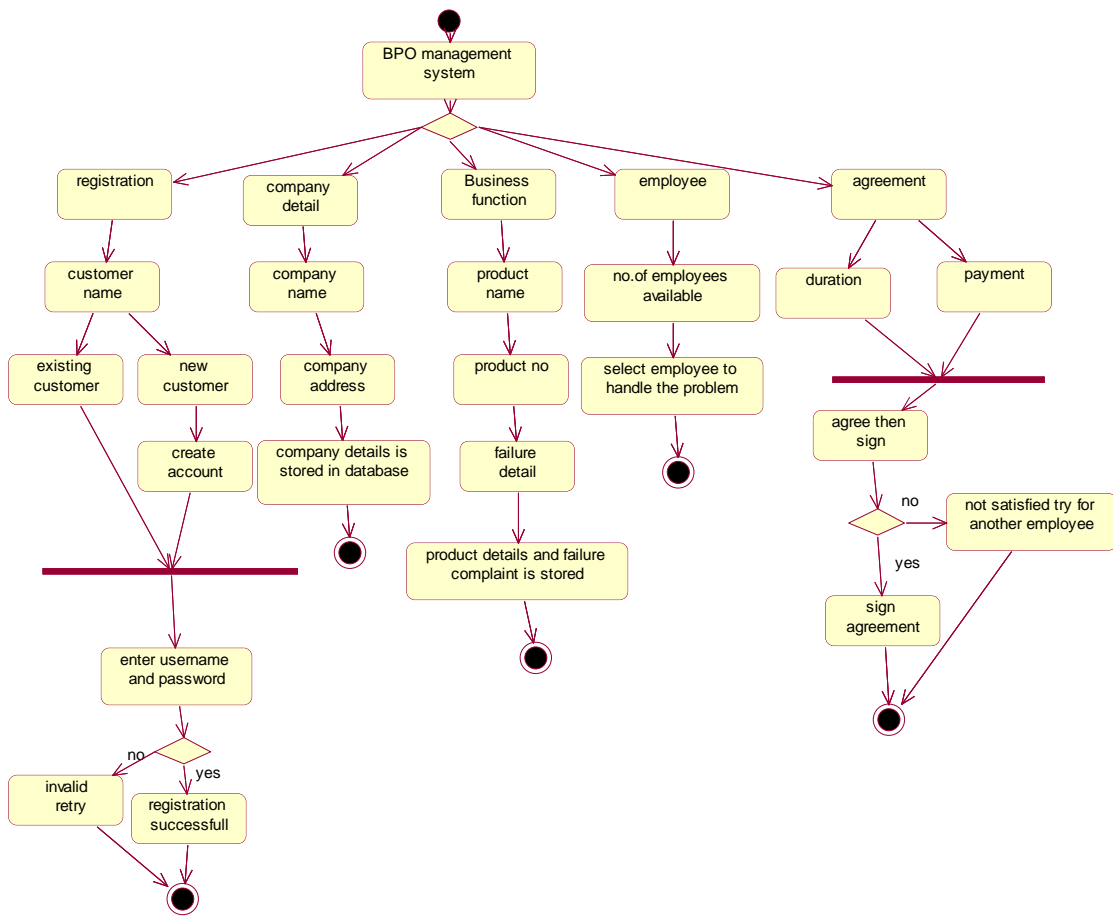
## 1. Use case Diagram:



## 2. Class diagram



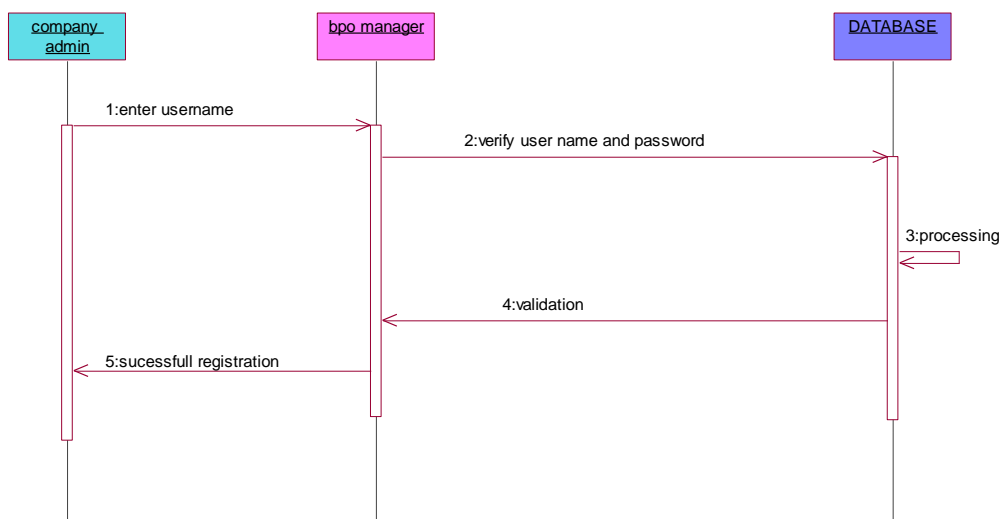
### 3. Activity diagram



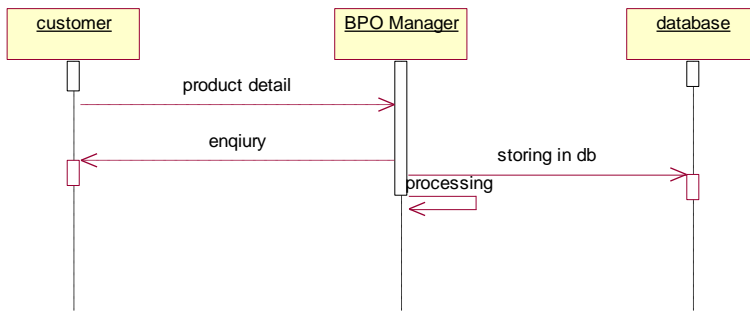
#### 4.INTERACTION DIAGRAM:

##### (i)Sequence diagram

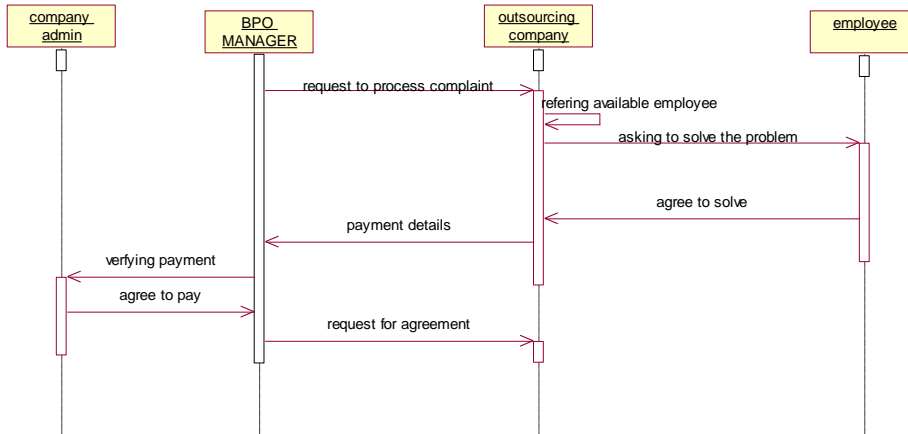
##### Registration



Product details

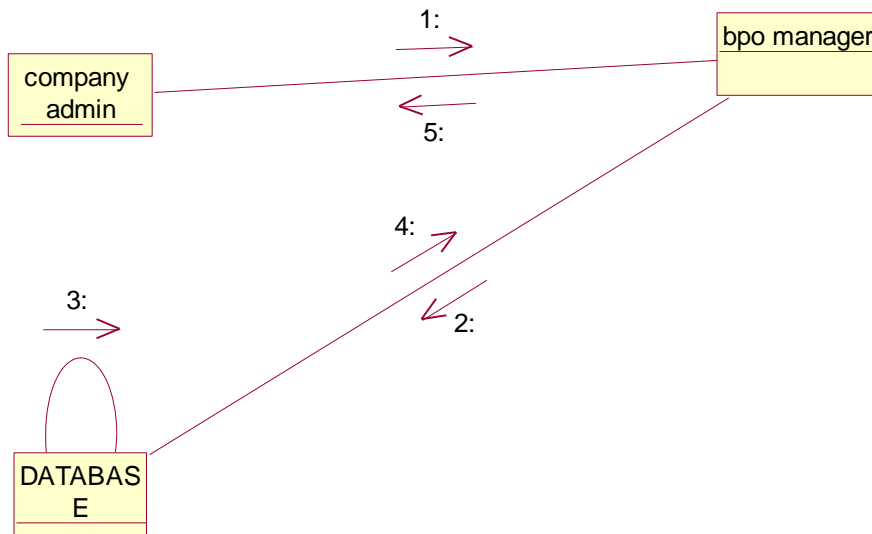


Agreement

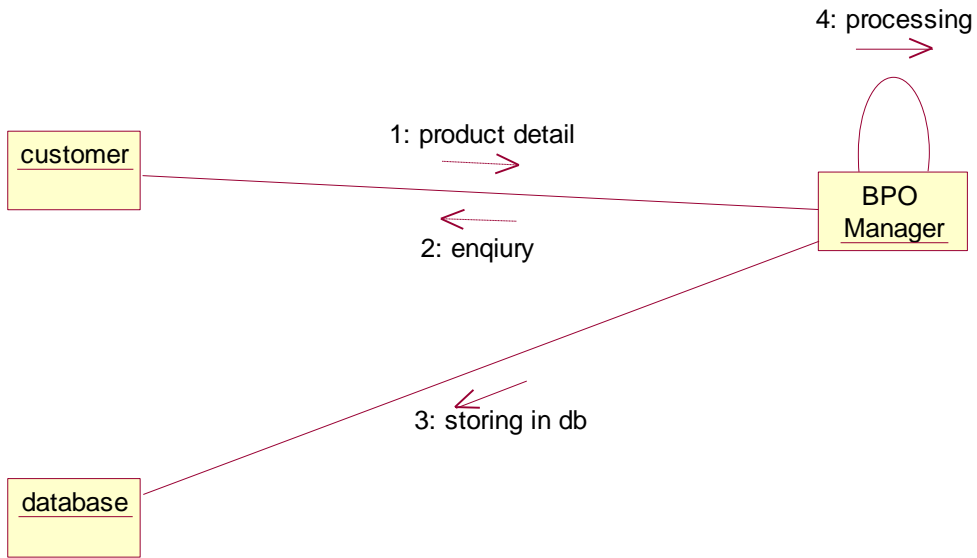


(ii) Collaboration diagram

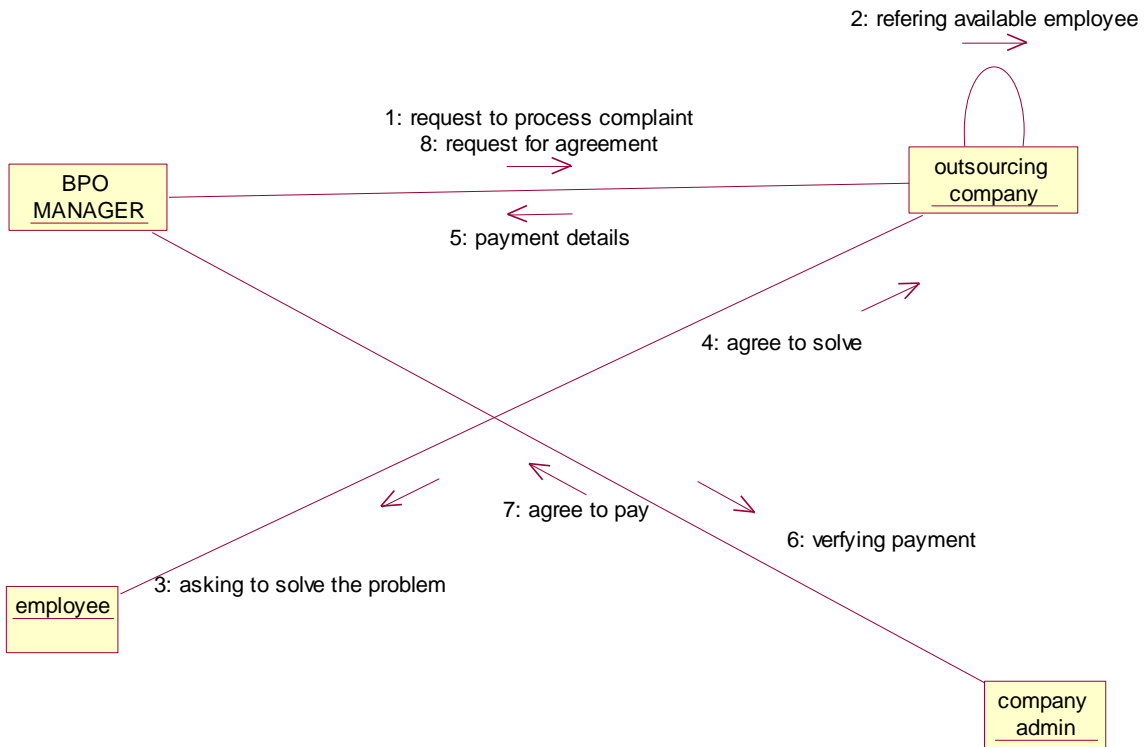
Registration



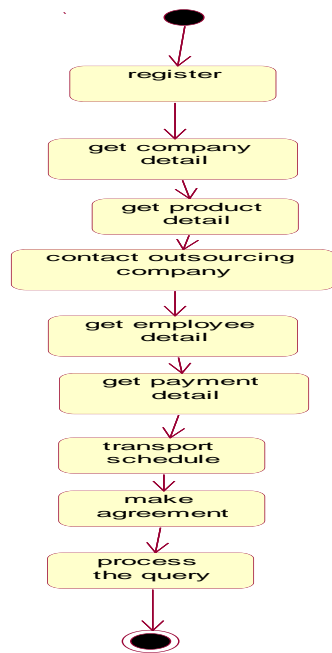
Product detail



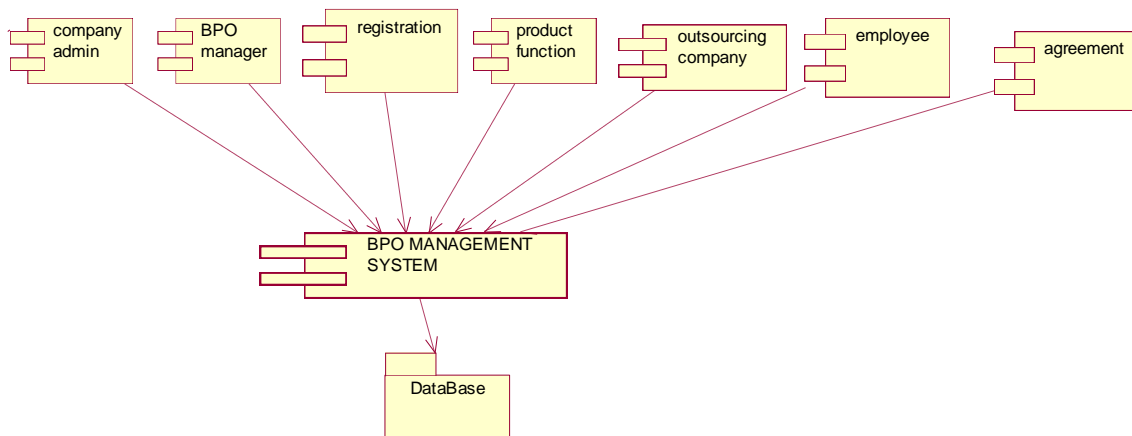
Agreement



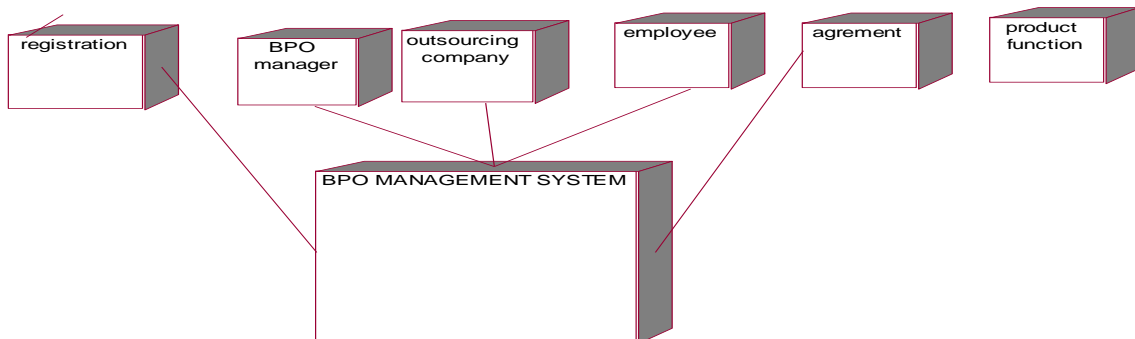
5.State Chart Diagram



**6.Component diagram**



**7.Deployment diagram**



**Result:**

Thus the UML diagrams has been successfully completed for BPO management system.

**EX.NO:9**

## **LIBRARY MANAGEMENT SYSTEM**

**DATE:**

**AIM:**

To development library management system project using argouml tool.

### **PROBLEM STATEMENT:**

The library management system is a software system that issues books and magazines to registered students only. The student has to login after getting registered to the system. The borrower of the book can perform various functions such as searching for desired book, get the issued book and return the book

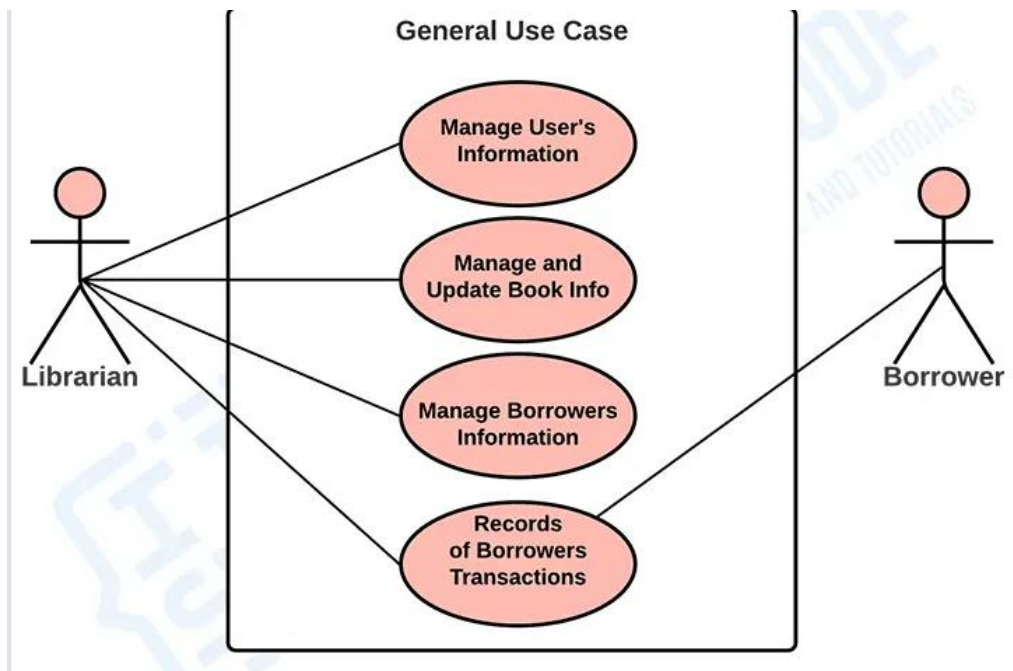
### **SOFTWARE REQUIREMENT SPECIFICATION**

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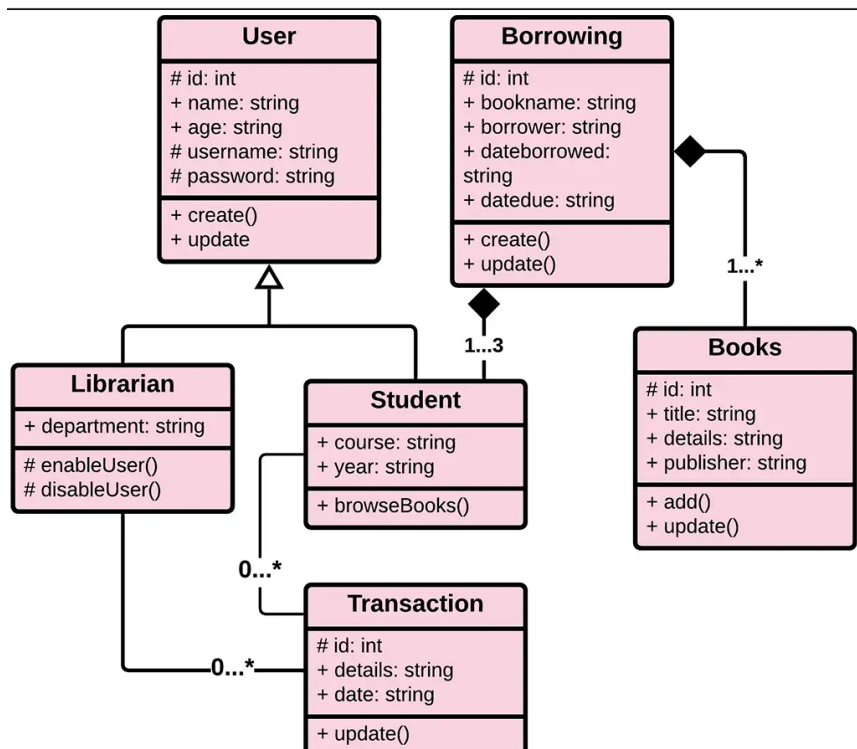
1. Introduction
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    - 4.1.3 Functional Requirements
5. Other non-functional requirements
  - 5.1 Performance Requirements
  - 5.2 Safety Requirements
  - 5.3 Security Requirements

## **LIBRARY MANAGEMENT SYSTEM**

### **1.USE CASE DIAGRAM**

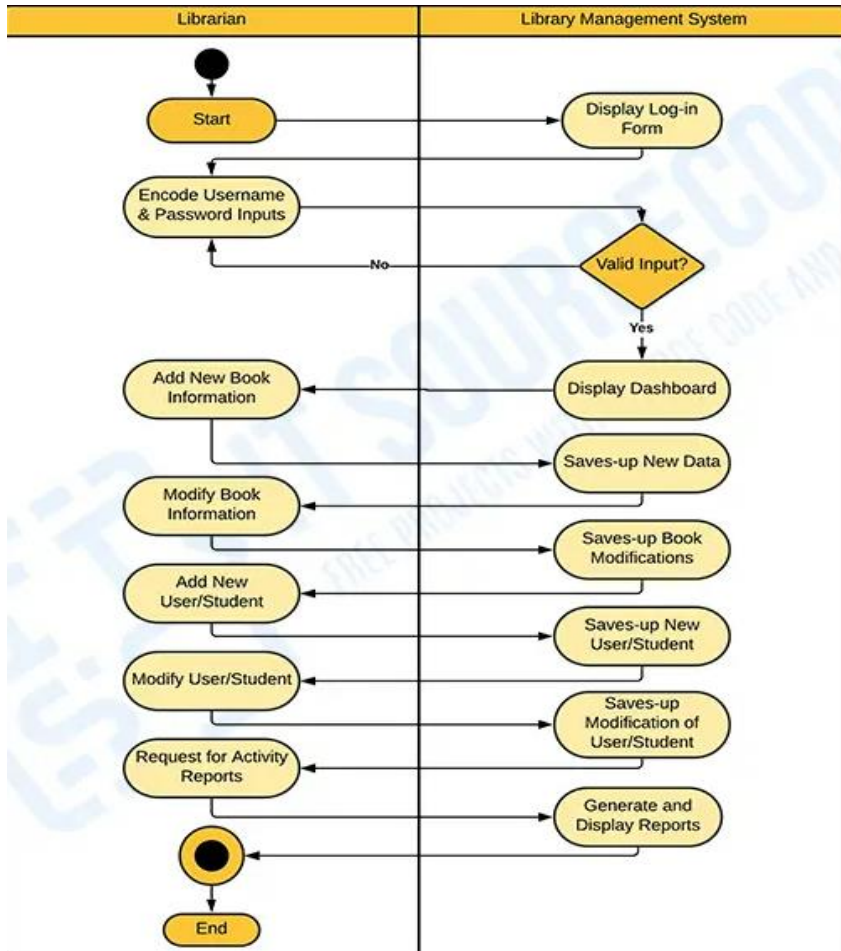


## 2. Class Diagram

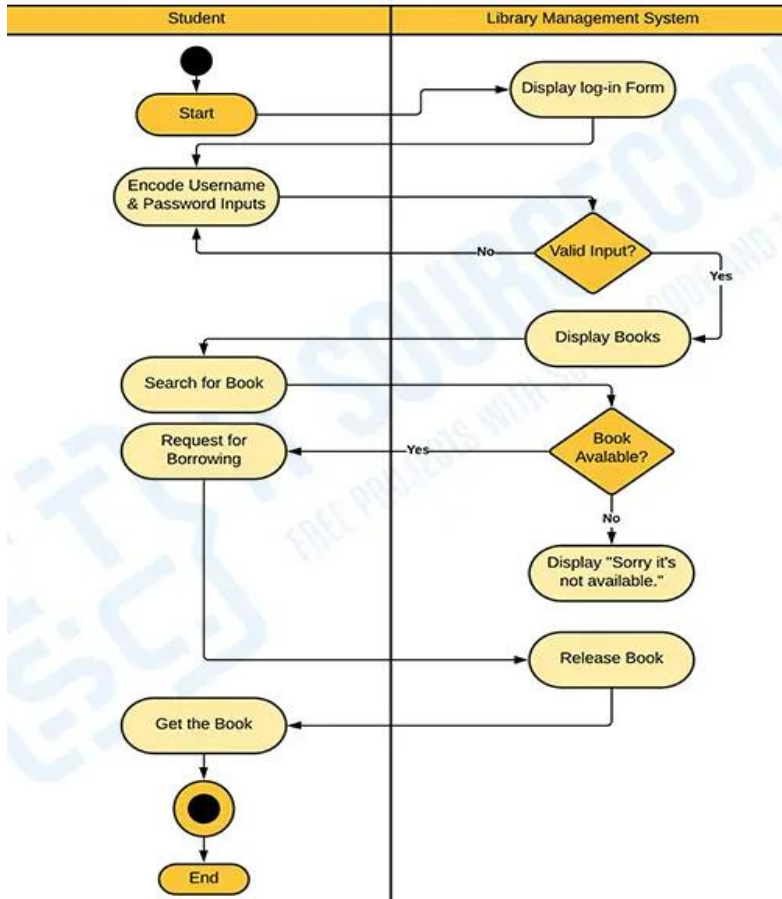


## 3. Activity diagram – Librarian Vs Library Management System



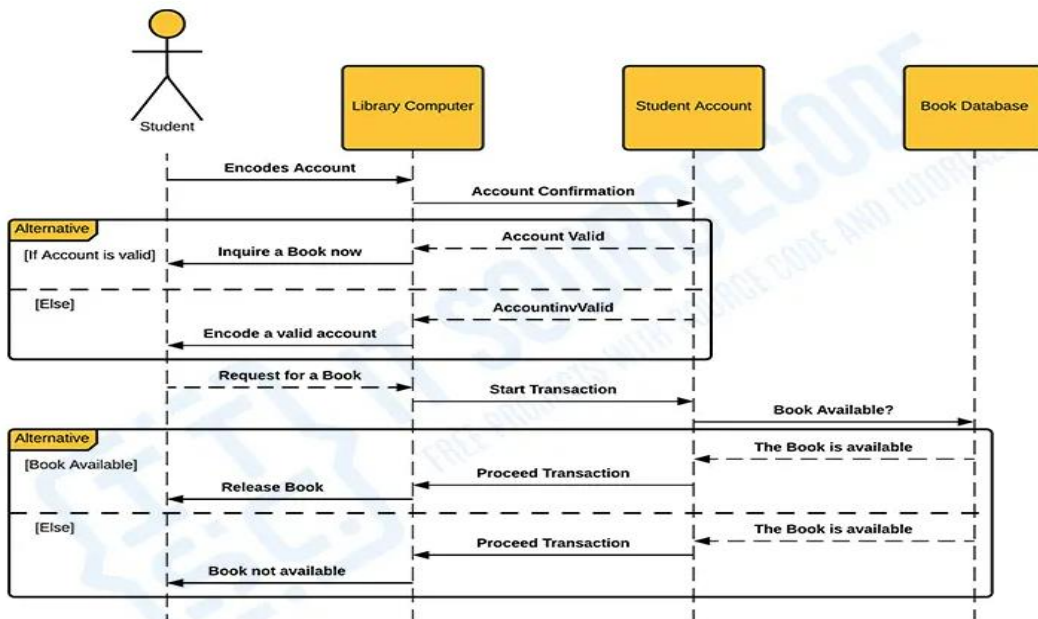


### Student Vs Library Management System

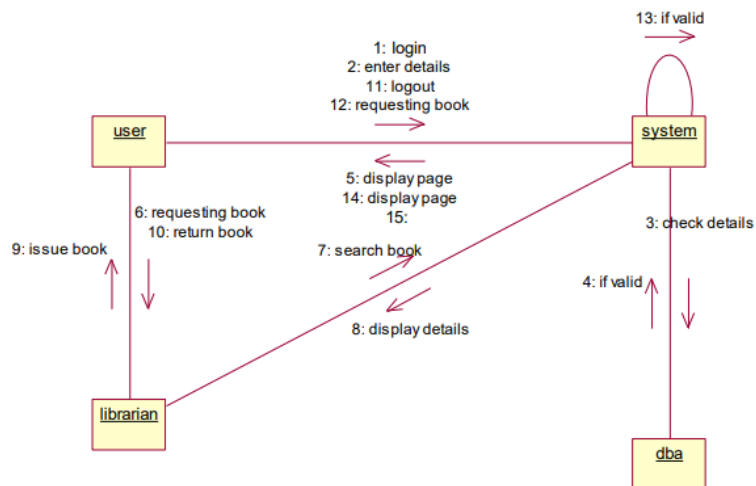


## 4. Interaction Diagram

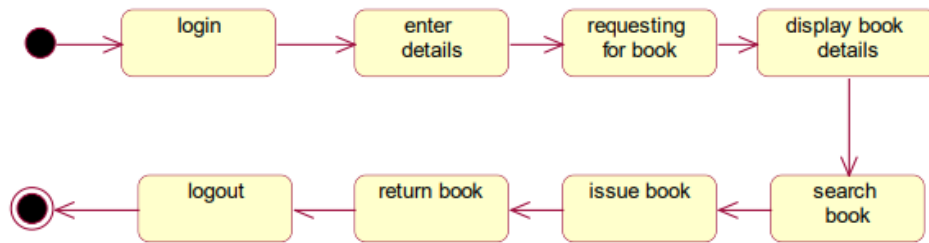
### (i) Sequence Diagram



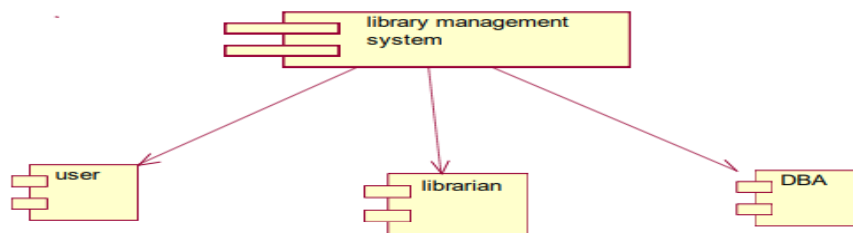
### (ii) Collaboration diagram



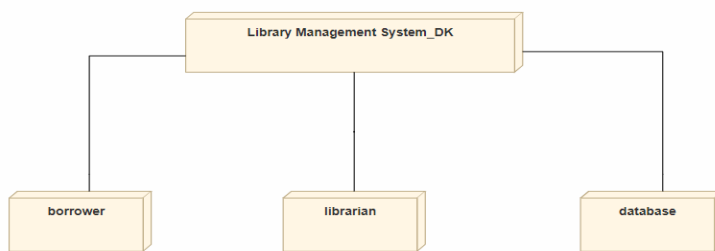
## 5.State Chart Diagram



### 6. Component diagram



### 7. Deployment Diagram



### Result:

Thus the UML diagrams has been successfully completed for Library management system.

## Mini-Projects

Ex.No:1

Passport Automation System:

```
packagepassport;
import
java.util.logging.Level;impo
rt
java.util.logging.Logger;imp
ortjava.sql.*;

/**
 *
 * @authorSRMVEC
 */
publicclassLoginextendsjavax.swing.JFrame {

    /**
     *CreatesnewformLogin
     */
    public Login()
    { initComponents
      s();
    }

    /**
     * Thismethodis calledfromwithintheconstructortoinitialize theform.
     * WARNING:DoNOTmodifythis code. The content ofthismethodisalway
     * regeneratedbytheFormEditor.
     */@SuppressWarnings("unche
    ked")
    // <editor-fold defaultstate="collapsed" desc="Generated
    Code">privatevoidinitComponents(){

        jPanel1=newjavax.swing.JPanel();
        jLabel1 = new
        javax.swing.JLabel();jButton1 = new
        javax.swing.JButton();jButton2 = new
        javax.swing.JButton();jLabel2 = new
        javax.swing.JLabel();jLabel3 = new
        javax.swing.JLabel();username=newja
        vax.swing.JTextField();
        password = new
        javax.swing.JPasswordField();err=newjava
```

```
x.swing.JLabel();
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

```
jLabel1.setFont(new java.awt.Font("Tahoma", 1, 24)); //
NOI18NjLabel1.setText("Passport
Automation");jLabel1.setToolTipText("");
```

```
jButton1.setText("Login");
jButton1.addActionListener(new
    java.awt.event.ActionListener()
    {publicvoidactionPerformed(java.awt.event.ActionEvent
    vt){
        jButton1ActionPerformed(evt);
    }
});
```

```
jButton2.setText("Register");
jButton2.addActionListener(new
    java.awt.event.ActionListener()
    {publicvoidactionPerformed(java.awt.event.ActionEvent
    vt){
        jButton2ActionPerformed(evt);
    }
});
```

```
jLabel2.setText("Password");
jLabel3.setText("Username");
```

```
username.addActionListener(new
    java.awt.event.ActionListener()
    {publicvoidactionPerformed(java.awt.event.ActionEventvt
    ){
        usernameActionPerformed(ev
        t);
    }
});
```

```
password.setToolTipText("");
```

```
javax.swing.GroupLayoutjPanel1Layout=newjavax.swing.GroupLayout(jPanel1);jPanel1.
setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(jPanel1Layout.createParallelGroup(javax.swing.Group
Layout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
```

```

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(158,158,158)
        .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE,
88,javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(88,88,88)
        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE,
98,javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0,71,Short.MAX_VALUE))
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
335,javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
55,javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
55,javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(41,41,41)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,false)
    .addComponent(username,javax.swing.GroupLayout.DEFAULT_SIZE,111
Short.MAX_VALUE)
        .addComponent(password))))))
        .addGap(101,101,101))
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(192,192,192)
        .addComponent(err, javax.swing.GroupLayout.PREFERRED_SIZE,
175,javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,Short.MAX_VALUE)
    )
);
jPanel1Layout.setVerticalGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(54,54,54)
        .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
33,javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addGap(52,52,52)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
22,javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(username,
javax.swing.GroupLayout.PREFERRED_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
41,Short.MAX_VALUE)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
23,javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(password,
javax.swing.GroupLayout.PREFERRED_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(14,14,14)
            .addComponent(err)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE,
34,javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE,
37,javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(94,94,94))
    );

    javax.swing.GroupLayout layout=new javax.swing.GroupLayout(getContentPane());getContentPane().setLayout(layout);
    layout.setHorizontalGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,Short.MAX_VALUE)
            .addContainerGap())
        );
    layout.setVerticalGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,layout.createSequentialGroup()
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,Short.MAX_VALUE)
            .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap())
        );

```

```
pack();  
} //</editor-fold>
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent  
    evt) { Connection con = null;  
    Statement statement =  
    null; try {  
        Class.forName("com.mysql.jdbc.Driver");  
        con  
= DriverManager.getConnection("jdbc:mysql://localhost:3306/summa?characterEncoding=latin  
1&useConfigs=maxPerformance", "root", "admin");  
        Statement stmt = con.createStatement();  
        ResultSet rs = stmt.executeQuery("select * from  
passport"); String un = username.getText();  
        String pw =  
        password.getText(); while (rs.  
        next())  
    {  
        if (un.equals(rs.getString(1)) &&  
            pw.equals(rs.getString(2))) { passport.NewJFrame1 j =  
            new passport.NewJFrame1(); j.username = un;  
            j.setInfo(); this.sh  
            ow(false); j.show(  
            true);  
  
        }  
        err.setText("invalid username or  
password!"); con.close();  
  
    }  
}
```



```

catch (Exception e)
    {e.printStackTrace
    e();
    }
}

```

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent
    evt) {passport.NewJFrame i=newpassport.NewJFrame();
    this.show(false);i.show(t
    rue);
}

```

```

privatevoidusernameActionPerformed(java.awt.event.ActionEventvt){
    //TODOaddyourhandlingcode here:
}

```

```

/**
 * @param argsthecommandline arguments
 */

```

```

publicstaticvoidmain(Stringargs[]){
    /*Setthe Nimbus lookandfeel*/
}

```

```

//<editor-folddefaultstate="collapsed"desc="Lookandfeelssettingcode(optional)">
/*IfNimbus(introducedinJavaSE6)isnotavailable,staywiththedefaultlook andfeel.
 *Fordetailsseehttp://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
 */
try{
    for (javax.swing.UIManager.LookAndFeelInfo
info
;javax.swing.UIManager.getInstalledLookAndFeels(
))){
        if ("Nimbus".equals(info.getName()))
            {javax.swing.UIManager.setLookAndFeel(info.getClassName()); break;
            }
        }
    } catch (ClassNotFoundException ex)
        {java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.
        SEVERE,
null,ex);
    } catch (InstantiationException ex)
        {java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.
        SEVERE,
null,ex);
    } catch (IllegalAccessException ex)
        {java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.
        SEVERE,
null,ex);
}

```

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex)
        {java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.
        SEVERE,
null,ex);
    }
//</editor-fold>
```

```
/*Createanddisplaytheform*/
```

```
java.awt.EventQueue.invokeLater(new
    Runnable() {publicvoidrun() {
        newLogin().setVisible(true);
    }
});
```

```
}
```

```

// Variables declaration - do not
modifyprivatejavax.swing.JLabelerr;
private javax.swing.JButton
jButton1;private
javax.swing.JButton
jButton2;private
javax.swing.JLabel
jLabel1;private
javax.swing.JLabel
jLabel2;private
javax.swing.JLabel
jLabel3;privatejavax.swing.JPanel
jPanel1;
private javax.swing.JPasswordField
password;privatejavax.swing.JTextFieldus
ername;
// End of variables
declarationprivatejavax.swi
ng.JPanels;
}
packagepassport;

/**
 *
 * @authorSRMVEC
 */
publicclassdummyextendsjavax.swing.JFrame{

/**
 *Createsnewform dummy
 */
public dummy()
{initComponent
s();
}

/**
 * Thismethodis calledfromwithintheconstructortoinitialize theform.
 * WARNING:DoNOTmodifythiscode. The content ofthismethodisalways
 * regeneratedbytheFormEditor.
 */@SuppressWarnings("unche
ked")
// <editor-fold defaultstate="collapsed" desc="Generated
Code">privatevoidinitComponents(){

jLabel1 = new
javax.swing.JLabel();jLabel2 =
new javax.swing.JLabel();jButton1
= new
javax.swing.JButton();jButton2 =
new

```

```
javax.swing.JButton();name=newj  
avax.swing.JTextField();  
password=newjavax.swing.JPasswordField());
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

```
jLabel1.setText("name");
```

```
jLabel2.setText("pass");
```

```
jButton1.setText("jButton1");  
jButton1.addActionListener(new  
    java.awt.event.ActionListener()  
    {publicvoidactionPerformed(java.awt.event.ActionEvent  
        evt){  
            jButton1ActionPerformed(evt);  
        }  
    });
```

```
jButton2.setText("jButton2");
```

```
password.addActionListener(new  
    java.awt.event.ActionListener()  
    {publicvoidactionPerformed(java.awt.event.ActionEventevt  
        )}  
    {passwordActionPerformed(evt);  
    }  
});
```

```
javax.swing.GroupLayoutlayout=newjavax.swing.GroupLayout(getContentPane());getCo  
ntentPane().setLayout(layout);  
layout.setHorizontalGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignme  
nt.LEADING)  
    .addGroup(layout.createSequentialGroup()  
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
            .addGroup(layout.createSequentialGroup()  
                .addGap(165,165,165)  
                .addComponent(jButton1)  
                .addGap(110,110,110)  
                .addComponent(jButton2))  
            .addGroup(layout.createSequentialGroup()  
                .addGap(120,120,120)  
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRA  
ILING)  
                    .addComponent(jLabel1)
```

```

        .addComponent(jLabel2))
        .addGap(157,157,157)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)

        .addComponent(name)
        .addComponent(password,
javax.swing.GroupLayout.DEFAULT_SIZE, 135,Short.MAX_VALUE))))
        .addContainerGap(123,Short.MAX_VALUE))
    );
    layout.setVerticalGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(68,68,68)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE).addComponent(jLabel1)
                .addComponent(name,
javax.swing.GroupLayout.PREFERRED_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(23,23,23)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(password,
javax.swing.GroupLayout.PREFERRED_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
131,Short.MAX_VALUE)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton1)
                .addComponent(jButton2))
            .addGap(107,107,107))
    );

    pack();
}

```

```

private void passwordActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

/**
 * @param argsthecommandline arguments
 */

```

```

public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    // <editor-fold defaultState="collapsed" desc="Look and feel setting code (optional)">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
    * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo
info
; javax.swing.UIManager.getInstalledLookAndFeels(
)) {
            if ("Nimbus".equals(info.getName()))
                { javax.swing.UIManager.setLookAndFeel(info.getClassName()); break;
                }
            }
        } catch (ClassNotFoundException ex)
            { java.util.logging.Logger.getLogger(dummy.class.getName()).log(java.util.logging.Level
            .SEVERE,
null, ex);
            } catch (InstantiationException ex)
                { java.util.logging.Logger.getLogger(dummy.class.getName()).log(java.util.logging.Level
                .SEVERE,
null, ex);
            } catch (IllegalAccessException ex)
                { java.util.logging.Logger.getLogger(dummy.class.getName()).log(java.util.logging.Level
                .SEVERE,
null, ex);
            } catch (javax.swing.UnsupportedLookAndFeelException ex)
                { java.util.logging.Logger.getLogger(dummy.class.getName()).log(java.util.logging.Level
                .SEVERE,
null, ex);
            }
        }
    // </editor-fold>

    /* Create and display the form
    */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new dummy().setVisible(true);
        }
    });
}

// Variables declaration - do not
// modify
private javax.swing.JButton
jButton1;
private javax.swing.JButton
jButton2;
private javax.swing.JLabel
jLabel1;
private javax.swing.JLabel
jLabel2;
private javax.swing.JTextField
jTextField1;
private javax.swing.JPasswordField
jPasswordField1;

```

```

//Endofvariablesdeclaration
}
packagepassport;

import
java.sql.Connection;import
java.sql.DriverManager;imp
ort
java.sql.ResultSet;importjav
a.sql.Statement;

/**
 *
 * @authorSRMVEC
 */
publicclassNewJFrameextendsjavax.swing.JFrame{

/**
 *Createsnewform NewJFrame
 */
public
NewJFrame()
{initComponents
();
}

/**
 * Thismethodis calledfromwithintheconstructortoinitialize theform.
 * WARNING:DoNOTmodifythiscode. The content ofthismethodisalways
 * regeneratedbytheFormEditor.
 */@SuppressWarnings("unchecke
d")
// <editor-fold defaultstate="collapsed" desc="Generated
Code">privatevoidinitComponents(){

lname = new javax.swing.JLabel();
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel1 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
jLabel6 = new javax.swing.JLabel();
name = new javax.swing.JTextField();
gender = new javax.swing.JTextField();
age = new javax.swing.JTextField();
address=newjavax.swing.JTextField();
username = new javax.swing.JTextField();
password = new javax.swing.JTextField();
jButton1=newjavax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

```

```
lname.setText("name");
```

```
jLabel3.setText("gender");
```

```
jLabel1.setText("age");
```

```
jLabel4.setText("address");
```

```
jLabel5.setText("Username");
```

```
jLabel6.setText("password");
```

```
jButton1.setText("submit");
```

```
jButton1.addActionListener(new  
    java.awt.event.ActionListener()  
    {public void actionPerformed(java.awt.event.ActionEvent  
        evt) {  
            jButton1ActionPerformed(evt);  
        }  
    });
```

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
getContentPane().setLayout(layout);  
layout.setHorizontalGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
    .addGroup(layout.createSequentialGroup()  
        .addGap(48, 48, 48)  
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
            .addComponent(jLabel2)  
            .addGroup(layout.createSequentialGroup()  
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
                    .addGroup(layout.createSequentialGroup()  
                        .addGap(11, 11, 11)  
                        .addComponent(lname,
```

```
javax.swing.GroupLayout.PREFERRED_SIZE,  
47, javax.swing.GroupLayout.PREFERRED_SIZE))  
                    .addGroup(layout.createSequentialGroup()  
                        .addGap(10, 10, 10)
```

```
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                    .addComponent(jLabel1)  
                    .addComponent(jLabel3)  
                    .addComponent(jLabel4)
```



```

        .addComponent(jLabel5)
        .addComponent(jLabel6)
        .addComponent(jButton1))))
    .addGap(18,18,18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)

        .addComponent(name)
        .addComponent(gender)
        .addComponent(age)
        .addComponent(address)
        .addComponent(username)
        .addComponent(password,
javax.swing.GroupLayout.DEFAULT_SIZE, 93,Short.MAX_VALUE))))
    .addContainerGap(350,Short.MAX_VALUE))
);
layout.setVerticalGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(65,65,65)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(lname)
            .addComponent(name,
javax.swing.GroupLayout.PREFERRED_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18,18,18)
        .addComponent(jLabel2)
        .addGap(6,6,6)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel3)
            .addComponent(gender,
javax.swing.GroupLayout.PREFERRED_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(23,23,23)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel1)
            .addComponent(age,
javax.swing.GroupLayout.PREFERRED_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(27,27,27)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel4)
            .addComponent(address,
javax.swing.GroupLayout.PREFERRED_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(29,29,29)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel5)
            .addComponent(username,

```

```

javax.swing.GroupLayout.PREFERRED_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,ja
vax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(32,32,32)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELI
NE)
    .addComponent(jLabel6)
    .addComponent(password,
javax.swing.GroupLayout.PREFERRED_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,ja
vax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18,18,18)
    .addComponent(jButton1)
    .addContainerGap(16,Short.MAX_VALUE))
);

pack();
}

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent
    evt) {
    Connection con=null;
    Statement statement=null;
    try{
        Class.forName("com.mysql.jdbc.Driver
            ");
        con=
        DriverManager.getConnection("jdbc:mysql://localhost:3306/summa?characterEncoding=latin1
            &useConfigs=maxPerformance","root","admin");
        Statement
        stmt=con.createStatement();
        String cmd
        = "insert into passport
        values(";
        cmd+="\""+username.getText()
        +\"";
        cmd+="\""+password.getText()+"\"";
        cmd +=
        "\""+name.getText()+"\"";
        cmd+="age.getText()+\" \";
        cmd+="\""+gender.getText()+"\" \";
        cmd +=
        "\""+address.getText()+"\"";
        System.out.println(cmd);
        stmt.execute
        (cmd);
        passport.Login i = new
        passport.Login();
        this.show(false);
        i.show(true);
    }
    catch (Exception e)
    {
        e.printStackTrace
        ();
    }
}

```

/\*\*

\* @param argsthecommandline arguments

```

*/
public static void main(String args[]){
    /*Set the Nimbus look and feel*/
    //<editor-fold defaultstate="collapsed" desc="Look and feel setting code (optional)">
    /*If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
    *For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try{
        for (javax.swing.UIManager.LookAndFeelInfo
info
: javax.swing.UIManager.getInstalledLookAndFeels(
))){
            if ("Nimbus".equals(info.getName()))
                { javax.swing.UIManager.setLookAndFeel(info.getClassName()); break;
                }
            }
        } catch (ClassNotFoundException) {

java.util.logging.Logger.getLogger(NewJFrame.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException) {

java.util.logging.Logger.getLogger(NewJFrame.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException) {

java.util.logging.Logger.getLogger(NewJFrame.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException) {

java.util.logging.Logger.getLogger(NewJFrame.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        }
    }
    //</editor-fold>

    /* Create and display the form
    */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new NewJFrame().setVisible(true);
        }
    });
}

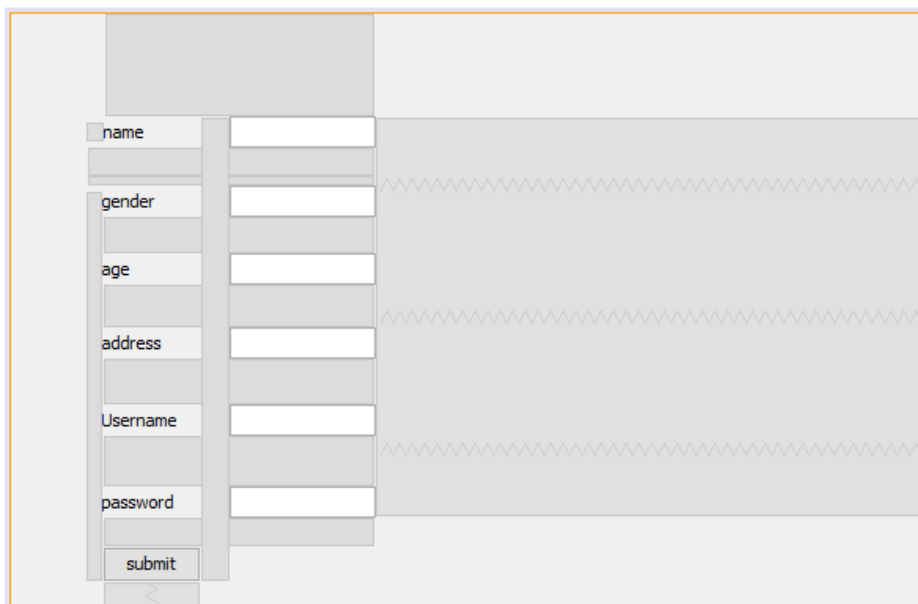
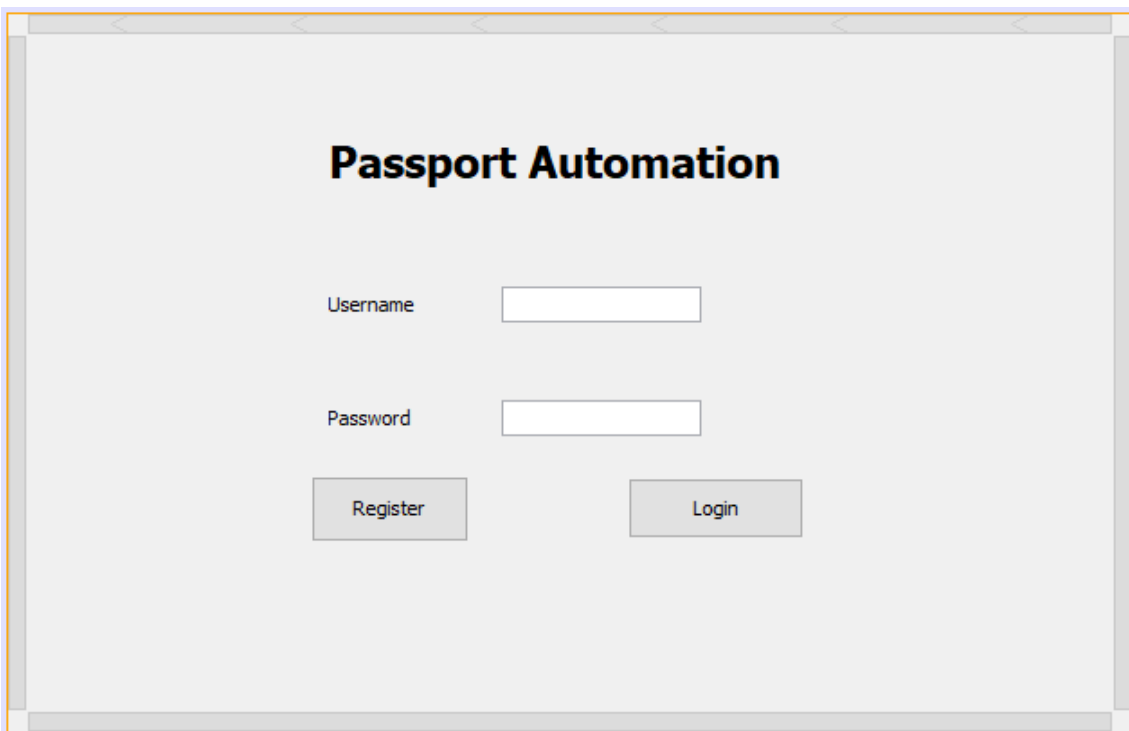
// Variables declaration - do not modify
private javax.swing.JTextField address;
private javax.swing.JTextField age;
private javax.swing.JTextField gender;
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private

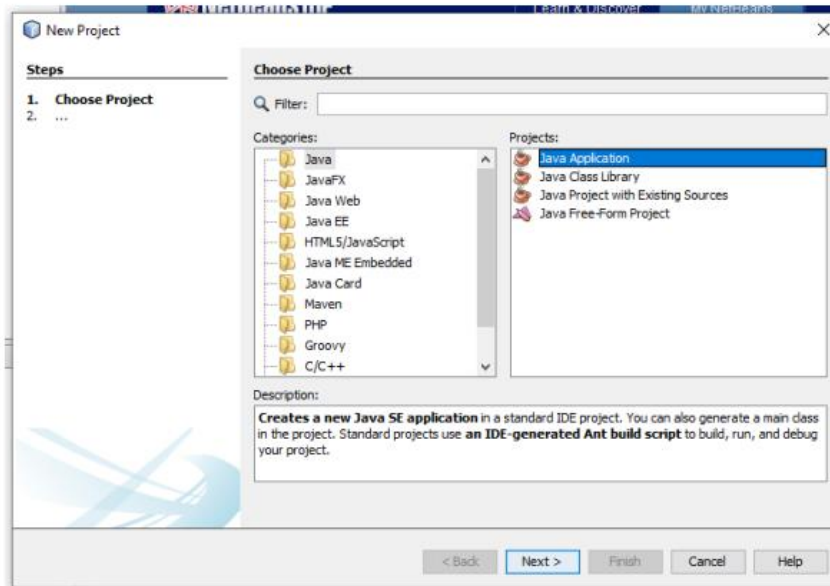
```

```
javax.swing.JLabel jLabel2;private javax.swing.JLabel jLabel3;private javax.swing.JLabel
jLabel4;private javax.swing.JLabel jLabel5;private javax.swing.JLabel jLabel6;private
javax.swing.JLabel name;private javax.swing.JTextField name;private
javax.swing.JTextField password;private javax.swing.JTextField username;
//Endofvariablesdeclaration
}
```

**Result:**

Thus the implementation of passport management system has been successfully completed and verified.



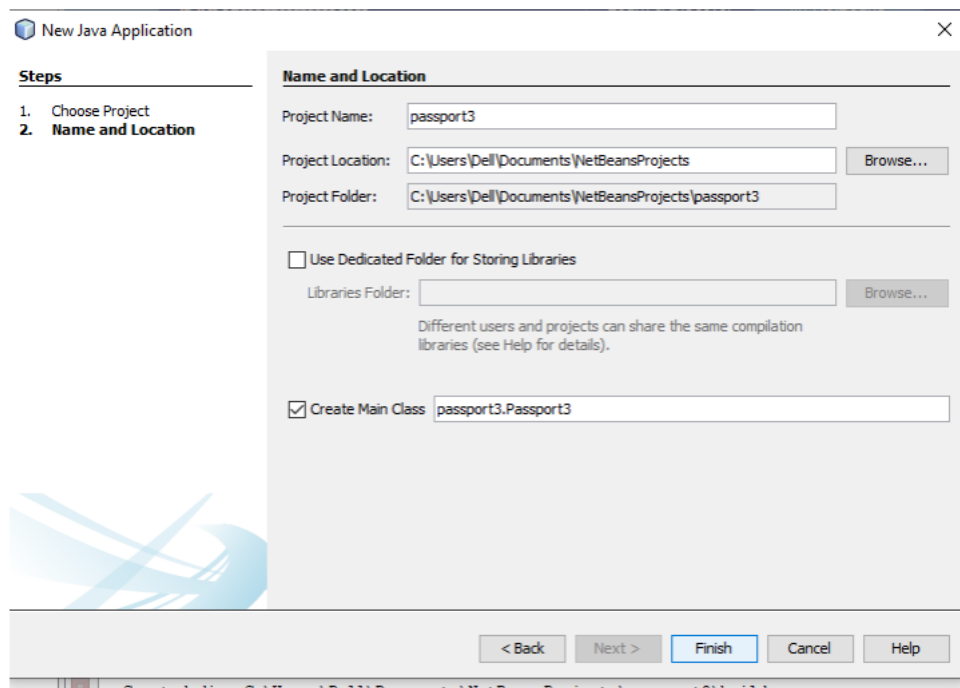


## Ex.No:2

## Exam Registration

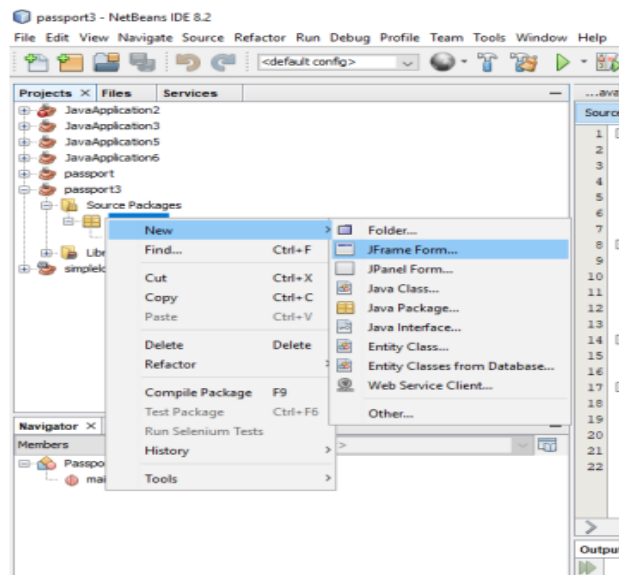
Step 1: Create new project:

- Choose java application.
- Enter project name

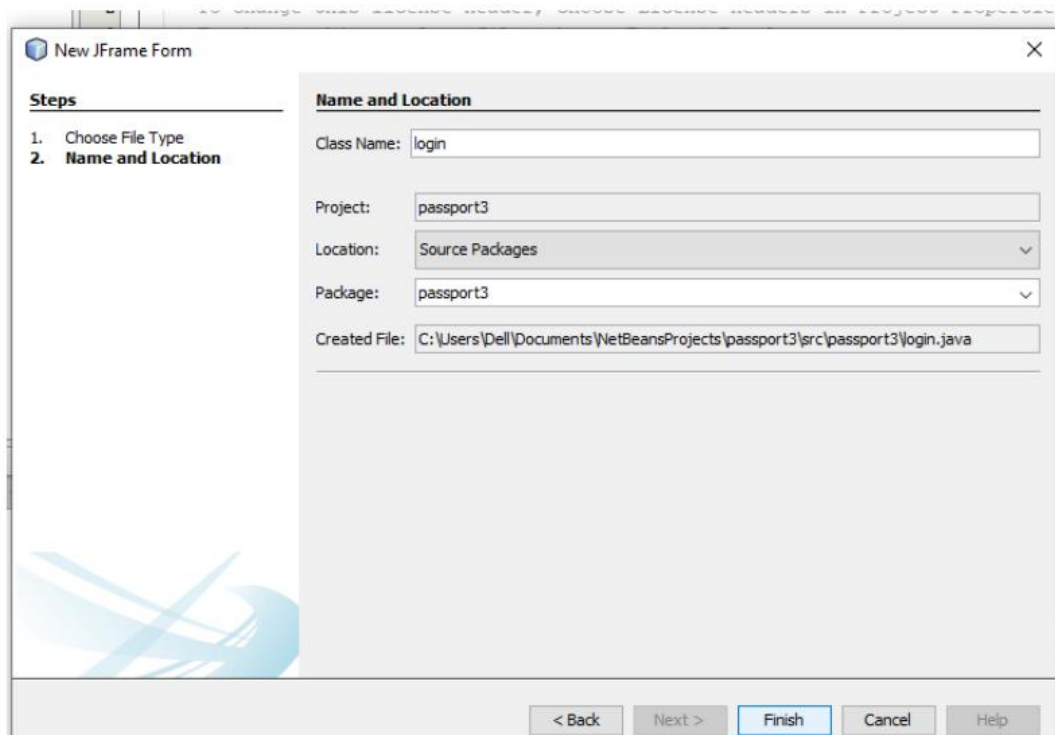


Create JFrame:

- To create JFrame right click project > New > JFrame Form



- Set suitable JFrame name.





## Registration

Name

Age

Course

Subject

[401, 354] To change the designer size, drag or doubleclick

Username

Password

Submit

## Details

name:

age:

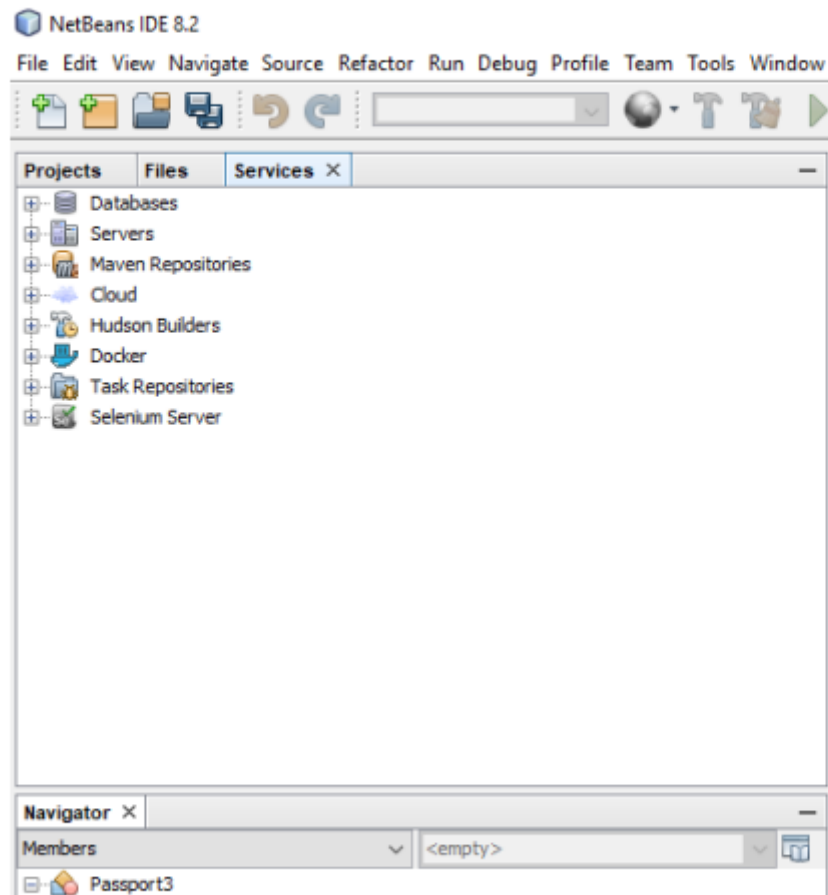
course:

sub:

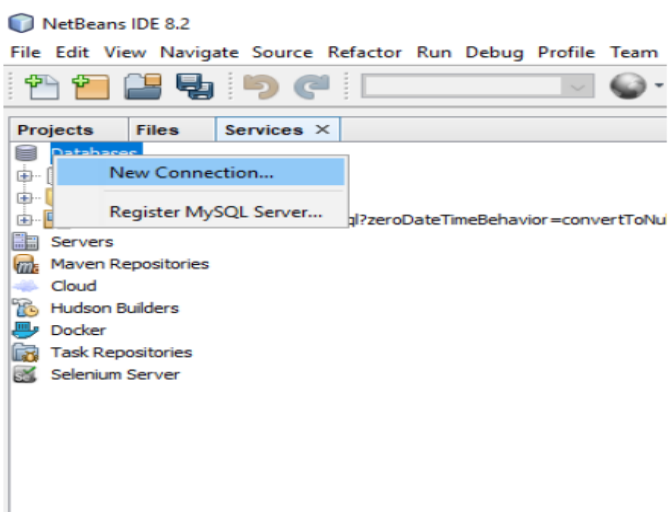


## Connect Database:

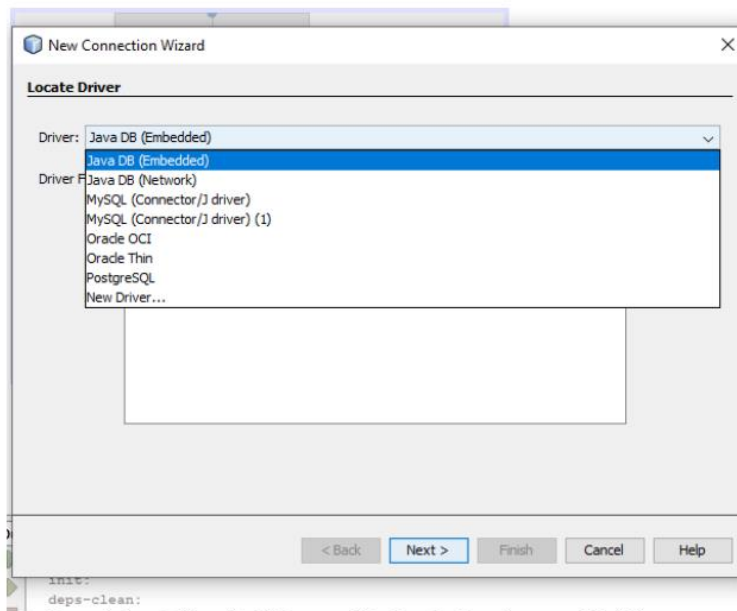
- Goto Services:



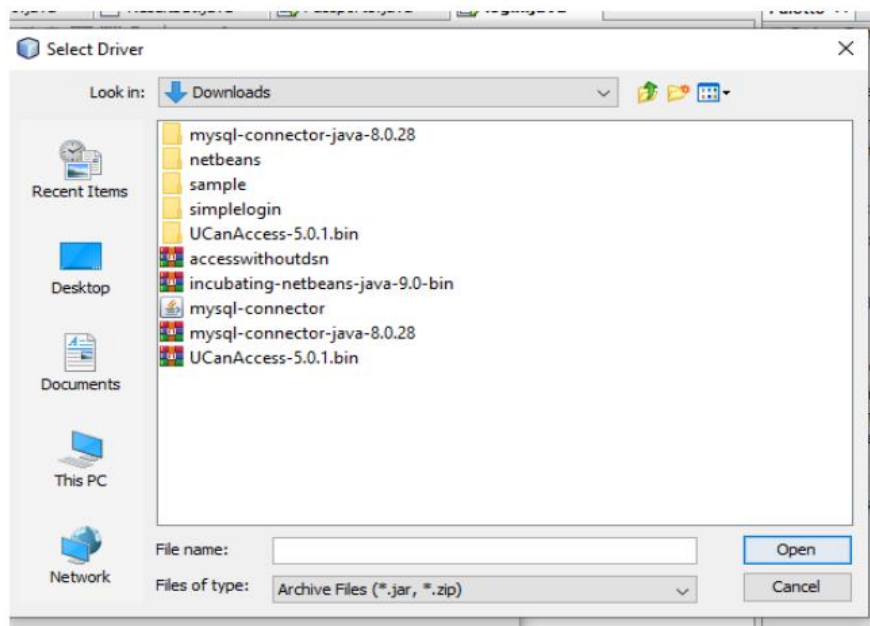
- Right click on database>New Connection.



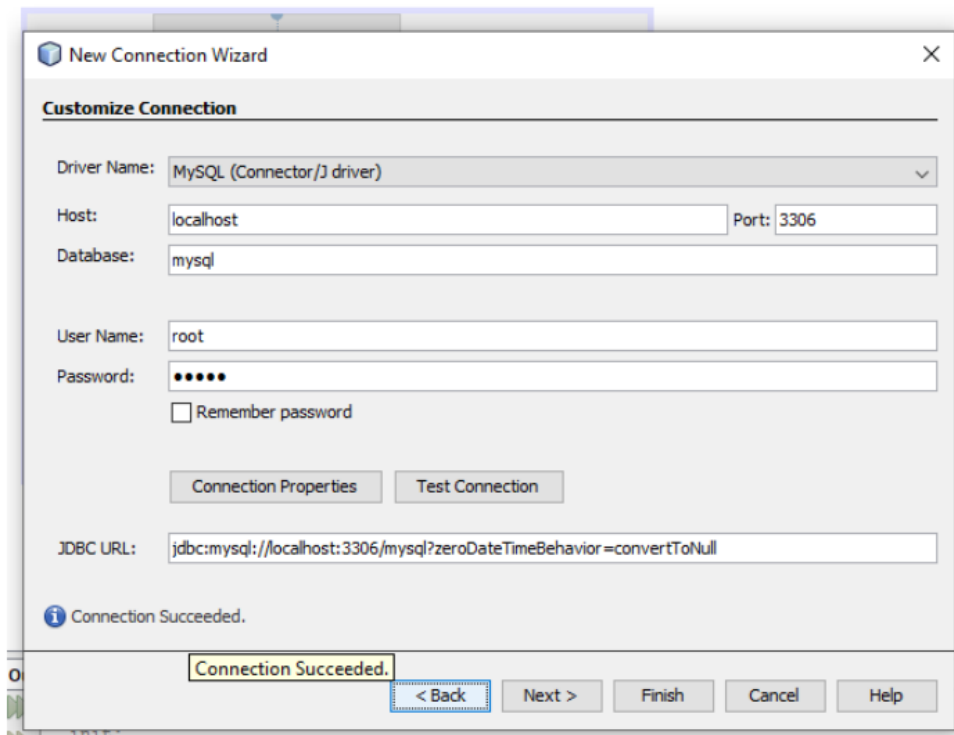
- Select MySQL



- Select the mysql-connector

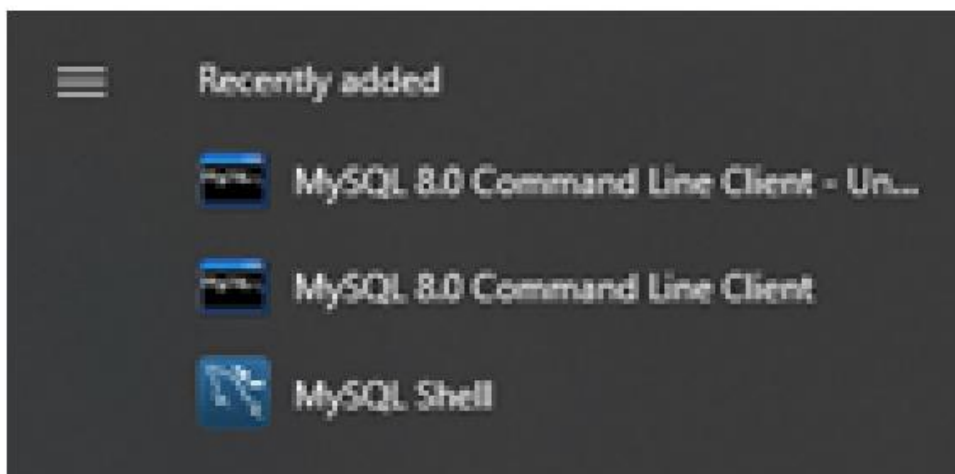


- Enter your MySQL password and check connection with Test Connection.



Create table in database:

- Open MySQL Command line client



- Create database using:  
Create database database\_name;
- Change to database using:  
Use database\_name;
- Create suitable table for your project.  
Using your knowledge from DBMS lab.

For example:

```

MySQL 8.0 Command Line Client
-> );
Query OK, 0 rows affected (0.06 sec)

mysql> desc exam;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| username | varchar(20) | NO | PRI | NULL | |
| password | varchar(20) | NO | | NULL | |
| course | varchar(20) | NO | | NULL | |
| subject | varchar(20) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.03 sec)

mysql>

```

Programs:

Login>login(button):

```

Generated Code
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    Connection con = null;
    Statement statement = null;
    try {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/summa?characterEncoding=latin1&useConfigs=maxPerformance", "root", "admin");
        Statement stmt=con.createStatement();
        ResultSet rs=stmt.executeQuery("select * from passport");
        String un = username.getText();
        String pw = password.getText();
        while(rs.next())
        {
            if (un.equals(rs.getString(1)) && pw.equals(rs.getString(2))) {
                passport.NewJFrame j = new passport.NewJFrame();
                j.username = un;
                j.setinfo();
                this.show(false);
                j.show(true);
            }
            err.setText("invalid username or password!");
        }
        con.close();
    }
    catch (Exception e) {
        e.printStackTrace();
    }
}

```

Login>Register(button):

```

}
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    passport.NewJFrame i = new passport.NewJFrame();
    this.show(false);
    i.show(true);
}

```

Register(jFrame)>submit:

```
Generated Code
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    Connection con = null;
    Statement statement = null;
    try {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/summa?characterEncoding=latin1&useConfigs=maxPerforman
        Statement stmt=con.createStatement();
        String cmd = "insert into passport values(";
        cmd += ""+username.getText()+", ";
        cmd += ""+password.getText()+", ";
        cmd += ""+name.getText()+", ";
        cmd += ""+age.getText()+", ";
        cmd += ""+gender.getText()+", ";
        cmd += ""+address.getText()+", ";
        System.out.println(cmd);
        stmt.execute(cmd);
    }
    catch (Exception e) {
        e.printStackTrace();
    }
}
/**
```

Create a method setinfo in Display info(jFrame):

```
/**
 * @param args the command line arguments
 */
public void setinfo() {
    Connection con = null;
    Statement statement = null;
    try {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/summa?characterEncoding=latin1&useConfigs=maxPerformanc
        Statement stmt=con.createStatement();
        String cmd = "Select * from passport where username = \"";
        cmd += username + "\"";

        ResultSet rs = stmt.executeQuery(cmd);
        rs.next();
        this.name.setText(rs.getString(3));
        this.age.setText(Integer.toString(rs.getInt(4)));
        this.gender.setText(rs.getString(5));
        this.address.setText(rs.getString(6));
    }
    catch (Exception e) {
        e.printStackTrace();
    }
}
}
```

## Result:

Thus the implementation of Exam registration system has been successfully completed and verified.

**Ex.No:3**

## **Stock maintenance system**

### **Implementation of Stock Maintenance System:**

```
import java.awt.Dimension; import
import java.awt.Toolkit;
import
import java.awt.event.ActionEvent; import
import java.awt.event.ActionListener; import
import java.sql.ResultSet;
import java.sql.Statement;
import
import java.text.SimpleDateFormat; import
import java.util.Date;
import
import javax.swing.JOptionPane; import
import javax.swing.Timer;
import javax.swing.table.DefaultTableModel;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author acer
 */
public class Home extends
    javax.swing.JFrame { pop_up pop=
    new pop_up();
    public Home()
    { initComponents
    s(); Time();
    setLocationRelativeTo(nu
    ll); Toolkit toolkit
    =getToolkit();
```

```

Dimensionsize=toolkit.getScreenSize();
setLocation(size.width/ 2-getWidth()/2,size.height/2-getHeight()/2);
}

publicvoidTime(){

new Timer(0, new
  ActionListener() { @Override
    public void actionPerformed(ActionEvent
      e) {Date d=newDate();
        SimpleDateFormat s = new
          SimpleDateFormat("hh:mm:ss
            a");time.setText(s.format(d));
          }
        }
    ).start();
}
/**
 * Thismethodis calledfromwithintheconstructortoinitialize theform.
 * WARNING:DoNOTmodifythiscode. The content ofthismethodisalways
 * regeneratedbythe FormEditor.
 */@SuppressWarnings("unchech
ked")
// <editor-fold defaultstate="collapsed" desc="Generated
Code">privatevoidinitComponents(){

jPanel1 = new javax.swing.JPanel();
jPanel2 = new javax.swing.JPanel();
jLabel1 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
jLabel6 = new javax.swing.JLabel();
time=newjavax.swing.JLabel();
jPanel3 = new javax.swing.JPanel();
HOME = new javax.swing.JPanel();
jLabel2 = new javax.swing.JLabel();
STOCKS=newjavax.swing.JPanel();
jScrollPane1 = new javax.swing.JScrollPane();
jTable1=newjavax.swing.JTable();
jButton1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();
jButton3 = new javax.swing.JButton();
searchBox = new javax.swing.JTextField();
jLabel4 = new javax.swing.JLabel();
jButton4=newjavax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLO
SE); setUndecorated(true);

jPanel1.setBackground(new java.awt.Color(255, 255,
255));jPanel1.setLayout(neworg.netbeans.lib.awtextra.AbsoluteLayout());

jPanel2.setBackground(new java.awt.Color(85, 143,

```

```

245));jPanel2.setLayout(neworg.netbeans.lib.awtextra.AbsoluteLayout());

jLabel1.setForeground(newjava.awt.Color(153,153,153));
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/icon/icons8_shutdown_30px.png")));//NOI18
N
jLabel1.setBorder(javax.swing.BorderFactory.createLineBorder(newjava.awt.Color(153,15
3,
153)));
jLabel1.addMouseListener(new
java.awt.event.MouseAdapter()
{publicvoidmouseClicked(java.awt.event.MouseEventvt)
{
jLabel1MouseClicked(evt);
}
});
jPanel2.add(jLabel1,neworg.netbeans.lib.awtextra.AbsoluteConstraints(830,0,57,50));

jLabel3.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel3.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/icon/icons8_home_40px.png")));//NOI18N
jLabel3.setBorder(javax.swing.BorderFactory.createMatteBorder(1,1,1,1,new
java.awt.Color(153,153,153)));
jLabel3.addMouseListener(new
java.awt.event.MouseAdapter()
{publicvoidmouseClicked(java.awt.event.MouseEventvt)
{
jLabel3MouseClicked(evt);
}
});
jLabel3.addKeyListener(new
java.awt.event.KeyAdapter()
{publicvoidkeyPressed(java.awt.event.KeyEventvt)
){
jLabel3KeyPressed(evt);
}
});
jPanel2.add(jLabel3,neworg.netbeans.lib.awtextra.AbsoluteConstraints(0,0,50,50));

jLabel5.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel5.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/icon/icons8_out_of_stock_30px_1.pn
g")));//NOI18N
jLabel5.setBorder(javax.swing.BorderFactory.createMatteBorder(1,1,1,1,new
java.awt.Color(153,153,153)));
jLabel5.addMouseListener(new
java.awt.event.MouseAdapter()
{publicvoidmouseClicked(java.awt.event.MouseEventvt)
{
jLabel5MouseClicked(evt);
}
});
jLabel5.addKeyListener(new
java.awt.event.KeyAdapter()

```



```

        {publicvoidkeyPressed(java.awt.event.KeyEventevt
        ){
            jLabel5KeyPressed(evt);
        }
    });
jPanel2.add(jLabel5,neworg.netbeans.lib.awtextra.AbsoluteConstraints(50,0,60,50));

jLabel6.setFont(newjava.awt.Font("Perpetua",0,24));//NOI18N
jLabel6.setForeground(new java.awt.Color(255, 255,
255));jLabel6.setText("StockManagementSystem");
jPanel2.add(jLabel6,neworg.netbeans.lib.awtextra.AbsoluteConstraints(300,10,-1,30));

time.setBackground(new java.awt.Color(255, 255,
255));time.setFont(new java.awt.Font("Trebuchet MS", 2,
14)); // NOI18Ntime.setForeground(new java.awt.Color(255,
255, 255));time.setText("jLabel7");
jPanel2.add(time,neworg.netbeans.lib.awtextra.AbsoluteConstraints(620,17,160,20));

jPanel1.add(jPanel2,neworg.netbeans.lib.awtextra.AbsoluteConstraints(0,0,890,50));

jPanel3.setBackground(newjava.awt.Color(255,255,255));
jPanel3.setBorder(javax.swing.BorderFactory.createLineBorder(newjava.awt.Color(204,20
4,
204)));
jPanel3.setLayout(newjava.awt.CardLayout());

HOME.setBackground(newjava.awt.Color(255,255,255));

jLabel2.setIcon(newjavax.swing.ImageIcon(getClass().getResource("/icon/161001
4526305.jpg")));//NOI18N

javax.swing.GroupLayoutHOMELayout=newjavax.swing.GroupLayout(HOME);HOME.s
etLayout(HOMELayout);
HOMELayout.setHorizontalGroup(HOMELayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jLabel2,javax.swing.GroupLayout.DEFAULT_SIZE,888,Short.MAX_
VALUE)
);
HOMELayout.setVerticalGroup(HOMELayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jLabel2,javax.swing.GroupLayout.DEFAULT_SIZE,518,Short.MAX_
VALUE)
);

```

```
jPanel3.add(HOME,"card2");
```

```
STOCKS.setBackground(newjava.awt.Color(255,255,255));
```

```
jTable1.setModel(new  
    javax.swing.table.DefaultTableModel(newObject[][]{  
  
        },  
    newString[]{  
        "Stock#","Stockname","Case","StockDate","PersoninCharge"  
    }  
){  
    boolean[] canEdit = new boolean  
        [] {false,false, false,true,true  
    };  
  
    public boolean isCellEditable(int rowIndex, int  
        columnIndex) {returncanEdit [columnIndex];  
    }  
});
```

```
jTable1.setGridColor(newjava.awt.Color(0,255,0));  
jTable1.setSelectionBackground(new java.awt.Color(102, 102,  
255));jTable1.addMouseListener(newjava.awt.event.MouseAd  
apter(){  
    publicvoidmouseClicked(java.awt.event.MouseEventevt){  
        jTable1MouseClicked(evt);  
    }  
    public void mouseEntered(java.awt.event.MouseEvent  
        evt) {jTable1MouseEntered(evt);  
    }  
});  
jScrollPane1.setViewportView(jTable1);
```

```
jButton1.setBackground(newjava.awt.Color(255,255,255));j  
Button1.setText("CREATE");  
jButton1.addActionListener(new  
    java.awt.event.ActionListener()  
    {publicvoidactionPerformed(java.awt.event.ActionEvent  
        vt){  
        jButton1ActionPerformed(evt);  
    }  
});
```

```
jButton2.setBackground(newjava.awt.Color(255,255,255));j  
Button2.setText("UPDATE");  
jButton2.addActionListener(new  
    java.awt.event.ActionListener()  
    {publicvoidactionPerformed(java.awt.event.ActionEvent
```

```
vt){
    jButton2ActionPerformed(evt);
}
});
```

```
jButton3.setBackground(newjava.awt.Color(255,255,255));j
Button3.setText("DELETE");
jButton3.addActionListener(new
    java.awt.event.ActionListener()
    {publicvoidactionPerformed(java.awt.event.ActionEvent
    vt){
        jButton3ActionPerformed(evt);
    }
});
```

```
searchBox.setBorder(javax.swing.BorderFactory.createLineBorder(newjava.awt.Color(20
4,204,
204)));
searchBox.addKeyListener(new
    java.awt.event.KeyAdapter()
    {publicvoidkeyReleased(java.awt.event.KeyEventvt){
        searchBoxKeyReleased(evt);
    }
});
```

```
jLabel4.setIcon(newjavax.swing.ImageIcon(getClass().getResource("/icon/icons8_search_
20px_1.png")));//NOI18N
```

```
jButton4.setBackground(new java.awt.Color(255, 255,
255));jButton4.setText("REFRESH");
jButton4.addActionListener(new
    java.awt.event.ActionListener()
    {publicvoidactionPerformed(java.awt.event.ActionEvent
    vt){
        jButton4ActionPerformed(evt);
    }
});
```

```
javax.swing.GroupLayoutSTOCKSLayout=newjavax.swing.GroupLayout(STOCKS);ST
OCKS.setLayout(STOCKSLayout);
STOCKSLayout.setHorizontalGroup(STOCKSLayout.createParallelGroup(javax.swing.Gr
oupLayout.Alignment.LEADING)
    .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 888,Short.MAX_VALUE)
    .addGroup(STOCKSLayout.createSequentialGroup()
        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE,
129,javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE,
132,javax.swing.GroupLayout.PREFERRED_SIZE)
```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE,
121,javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE,
109,javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0,0,Short.MAX_VALUE))
        .addGroup(STOCKSLayout.createSequentialGroup())
        .addGap(24,24,24)
        .addComponent(jLabel4)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(searchBox, javax.swing.GroupLayout.PREFERRED_SIZE,
225,javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,Short.MAX_VALUE)
    )
);
STOCKSLayout.setVerticalGroup(STOCKSLayout.createParallelGroup(javax.swing.Grou
pLayout.Alignment.LEADING)
        .addGroup(STOCKSLayout.createSequentialGroup()
        .addContainerGap()

.addGroup(STOCKSLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
        .addComponent(searchBox, javax.swing.GroupLayout.PREFERRED_SIZE,
35,javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel4,
javax.swing.GroupLayout.Alignment.TRAILING,javax.swing.GroupLayout.PREFERRED_SI
ZE, 35,javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
391,javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(STOCKSLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG,false)
        .addComponent(jButton1,
javax.swing.GroupLayout.DEFAULT_SIZE, 39,Short.MAX_VALUE)
        .addComponent(jButton2,
javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,Sho
rt.MAX_VALUE)
        .addComponent(jButton3,
javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,Sho
rt.MAX_VALUE)
        .addComponent(jButton4,
javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,Sho
rt.MAX_VALUE))
        .addGap(0,30,Short.MAX_VALUE))
);

jPanel3.add(STOCKS,"card3");

```

```

jPanel1.add(jPanel3,neworg.netbeans.lib.awtextra.AbsoluteConstraints(0,50,890,520));

javax.swing.GroupLayoutlayout=newjavax.swing.GroupLayout(getContentPane());getCo
ntentPane().setLayout(layout);
layout.setHorizontalGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
    .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,Sho
rt.MAX_VALUE)
    );
layout.setVerticalGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
    .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE,javax.swing.GroupLayout.DEFAULT_SIZE,Sho
rt.MAX_VALUE)
    );

pack();
}

```

```

privatevoidjLabel3KeyPressed(java.awt.event.KeyEventvt){
    // TODO add your handling code
    here:HOME.setVisible(true);STOC
    KS.setVisible(false);
}

```

```

privatevoidjLabel5KeyPressed(java.awt.event.KeyEventvt){
    //TODOaddyourhandlingcode here:
    HOME.setVisible(false);STOCKS.
    setVisible(true);
}

```

```

privatevoidjLabel3MouseClicked(java.awt.event.MouseEventvt){
    //TODOaddyourhandlingcode here:
    HOME.setVisible(true);STOCKS.
    setVisible(false);
}

```

```

privatevoidjLabel5MouseClicked(java.awt.event.MouseEventvt){
    //TODOaddyourhandlingcode here:
    HOME.setVisible(fals
    e);STOCKS.setVisible
    e(true);try{
        DefaultTableModel table = (DefaultTableModel)
        jTable1.getModel();table.setRowCount(0);
        Statementstate=Source.mycon().createStatement();ResultS
        etrs=state.executeQuery("SELECT*FROM`tblstock`");

        while(rs.next()){

```

```

        Object o[] = {rs.getString("id"), rs.getString("stockname"),
rs.getString("quantity"),rs.getString("date"), rs.getString("person")};
        table.addRow(o);
    }
    } catch (Exception ex)
    {System.out.println(ex.getMessage(
));}
}

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt){
    // TODO add your handling code
    here:pop.setVisible(true);pop.stock
    .setText("AddStock");
}

```

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt){
    // TODO add your handling code
    here:if(searchBox.getText().equals
    ("")){

        JOptionPane.showMessageDialog(null,"Click one form the table");

    }else{
        DefaultTableModel table = (DefaultTableModel)
        jTable1.getModel();int r= jTable1.getSelectedRow();

        String[] Array = {table.getValueAt(r,
        0).toString(),table.getValueAt(r,
        1).toString(),table.getValueAt(r,
        2).toString(),table.getValueAt(r,
        3).toString(),table.getValueAt(r,4).toString()
        };

        pop_uppop=new pop_up();

        pop.stockid.setText(Array[0]);pop.
        stockname.setText(Array[1]);
    }
}

```

```

pop.stockqty.setText(Array[2]);pop.stock
date.setText(Array[3]);pop.stockperson.s
etSelectedItem(Array[4]);pop.setVisible(t
rue);pop.stock.setText("UpdateStock");
}
}

```

```

privatevoidjButton3ActionPerformed(java.awt.event.ActionEventevt){
// TODO add your handling code
here;if(searchBox.getText().equals(
"")){

```

```

JOptionPane.showMessageDialog(null,"Clickoneformthetable");

```

```

}else{
DefaultTableModel table = (DefaultTableModel)
jTable1.getModel();intr= jTable1.getSelectedRow();

```

```

String[] Array = {table.getValueAt(r,
0).toString(),table.getValueAt(r,
1).toString(),table.getValueAt(r,
2).toString(),table.getValueAt(r,
3).toString(),table.getValueAt(r,4).toString()
};

```

```

pop_uppop=newpop_up();

```

```

pop.stockid.setText(Array[0]);pop.
stockname.setText(Array[1]);pop.st
ockqty.setText(Array[2]);pop.stock
date.setText(Array[3]);
pop.stockperson.setSelectedItem(Array[4]
);pop.setVisible(true);pop.stock.setText("
Delete Stock");
}
}

```

```

privatevoidsearchBoxKeyReleased(java.awt.event.KeyEventvt){
//TODOaddyourhandlingcode here:

```

```

try {
DefaultTableModel table = (DefaultTableModel)
jTable1.getModel();table.setRowCount(0);
Statementstate=Source.mycon().createStatement();
ResultSet rs = state.executeQuery("select * from tblstock wherestockname like '%"
+searchBox.getText()+"%' orpersonlike '%" +searchBox.getText()+"%'");

```

```

while(rs.next()){

```

```

Object o[] = {rs.getString("id"), rs.getString("stockname"),

```

```

rs.getString("quantity"),rs.getString("date"), rs.getString("person"));
    table.addRow(o);
    }
    } catch (Exception ex)
    {System.out.println(ex.getMessage());
    }
}

```

```

private void jTable1MouseClicked(java.awt.event.MouseEvent evt){
    // TODO add your handling code
    here: int t=jTable1.getSelectedRow(
    );
    String stockid=jTable1.getValueAt(t,0).toString();
    searchBox.setText(stockid);jButton3.setEnabled(true);
    jButton2.setEnabled(true);
}

```

```

private void jTable1MouseEntered(java.awt.event.MouseEvent evt){
    //TODO add your handling code here:
}

```

```

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt){
    //TODO add your handling code here:
    searchBox.setText("
");try{
        DefaultTableModel table = (DefaultTableModel)
jTable1.getModel();table.setRowCount(0);
        Statement state=Source.mycon().createStatement();ResultSet
        etrs=state.executeQuery("SELECT*FROM`tblstock`");
        while(rs.next()){
            Object o[] = {rs.getString("id"), rs.getString("stockname"),
rs.getString("quantity"),rs.getString("date"), rs.getString("person")};
            table.addRow(o);
        }
    } catch (Exception ex)
    {System.out.println(ex.getMessage(
));
    }
}

```

```

private void jLabel1MouseClicked(java.awt.event.MouseEvent evt){
    // TODO add your handling code
    here:dispose();
}

```



```

Login log = new
Login();log.setVisible(true);
}

/**
 * @param argsthecommandline arguments
 */
publicstaticvoidmain(Stringargs[]){
    /*Setthe Nimbus lookandfeel*/
    //<editor-folddefaultstate="collapsed"desc="Lookandfeelsettingcode(optional)">
    /*IfNimbus(introducedinJavaSE6)isnotavailable,staywiththedefaultlook andfeel.
    *Fordetailsseehttp://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */try{
for (javax.swing.UIManager.LookAndFeelInfo info
:javax.swing.UIManager.getInstalledLookAndFeels()){
    if ("Nimbus".equals(info.getName()))
        {javax.swing.UIManager.setLookAndFeel(info.getClas
sName()); break;
        }
    }
} catch (ClassNotFoundException ex)
    {java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level
1.SEVERE,
null,ex);
    } catch (InstantiationException ex)
    {java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level
1.SEVERE,
null,ex);
    } catch (IllegalAccessException ex)
    {java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level
1.SEVERE,
null,ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex)
    {java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level
1.SEVERE,
null,ex);
    }
//</editor-fold>

/* Create and display the form
*/java.awt.EventQueue.invokeLater(newRun
nable(){
    publicvoidrun() {
        newHome().setVisible(true);
    }
});

```

```

}

// Variables declaration - do not
modifyprivate javax.swing.JPanel
HOME;private javax.swing.JPanel
STOCKS;private
javax.swing.JButton
jButton1;private
javax.swing.JButton
jButton2;private
javax.swing.JButton


jButton3;private
javax.swing.JButton
jButton4;private
javax.swing.JLabel
jLabel1;private
javax.swing.JLabel
jLabel2;private
javax.swing.JLabel
jLabel3;private
javax.swing.JLabel
jLabel4;private
javax.swing.JLabel
jLabel5;private
javax.swing.JLabel
jLabel6;private
javax.swing.JPanel
jPanel1;private
javax.swing.JPanel
jPanel2;privatejavax.swing.JPanel
jPanel3;
private javax.swing.JScrollPane
jScrollPane1;privatejavax.swing.JTable
jTable1;
privatejavax.swing.JTextFieldsearchBo
x;privatejavax.swing.JLabeltime;
//Endofvariablesdeclaration
}

```

## LOGIN

<no recent project>

 Username

 Password

Login

Cancel

## DASHBOARD



## ADDSTOCK

### Add Stock

Stock Identification

Stock name

Quantity




Date

Person in Charge

DONE

CANCEL

## STOCKMAINTENANCE

Stock Management System03:58:43 PM

Stock #	Stock name	Case	Stock Date	Person in Charge
1	Coke	120	12/06/2021	Admin
2	Coke 1L	120	12/06/2021	User
3	Mountain dew	120	12/06/2021	Admin
4	Sprite	120	12/06/2021	Admin
5	Beer	120	12/06/2021	Admin
6	Redhorse Beer	120	12/06/2021	User
7	SanMig Light	120	12/06/2021	Admin
10	Royal	120	12/06/2021	Admin
15	ddff	12	12	Admin
16	fsd	777	12	Admin
17	hh	12	12	Admin
18	ssa	12	12	Admin
19	ffcc	123	12	Admin
20	ass	12	12	Admin
21	qw	12	12	Admin
22	aa	12	2	User
23	aa	11	11	User
24	aa	11	11	User
25	qq	1	1	User
26	sss	22	22	User
27	qqq	11	11	User

CREATE UPDATE DELETE REFRESH

### Result:

Thus the implementation of Stock maintenance system has been successfully completed and verified.

## Content beyond Syllabus

**Ex No :**

### **QUIZ SYSTEM**

**AIM:**

To implement the Quiz System using Rational Software.

**ALGORITHM:**

Step 1:

Identify the Actors and Use cases.

In this system, the actors and use cases are:

Actors:

User ,System and Database

Use cases:

Login,Option,answering questions,calculating marks and Display score card.

Step 2:

Build the relationship between actors and use cases.

**2. ALGORITHM**

**FOR SEQUENCE DIAGRAM:**

Step 1:

Identify the objects.

In this system, the objects are:

User, Systemand Database.

Step 2:

Identify the sequence of events

Step 3:

Login to the system to check the validity.

Step 4:

Select the option in the system.

Step 5:

Answer the questions for the selected options

Step 6:

Evaluate the answer and calculate the mark.

Step 7:

Save the score in the database

Step 8:

Display the score.

**ALGORITHM**

**FOR CLASS DIAGRAM:**

Step 1:

Create class diagram for each identified objects under sequence diagram.

Identified objects are: User, Systemand Database.

Step 2:

Class diagram for each object is divided into three parts.

Top portion represents the Class Name.

Middle portion represents the Attributes.

Bottom portion represents the Methods.

Procedure to write the software for the Quiz System using Rational Software tool  
**Selecting the Software:**

1 Click start-> Rational Software->Rational Rose Enterprise Edition.

**Create the project:**

2. In the Create New Model window select VB6 Standard Framework->A screen appears; select the untitled project from the browser window and save it

**To draw the diagram:**

3. Right Click the Use case view->New->Use case diagram->Sequence diagram->Class diagram (name and save the files)

4. Click Use case diagram->using the tool box build the use case diagram.

5. Click Sequence diagram->using the tool box build the sequence diagram.

6. Click Class diagram-> using the tool box build the class diagram.

**Generate the coding form:**

7. Right click component view -> component diagram-> open specification -> select the stereotype as DLL-> select the language as visual basic->switch from general tab to realizes Tab-> select the classes you created in class diagram-> right click ->Assign->Ok.

8. Right click component view -> update code form model-> the tool window for converting Diagrams to code appears->next->finish->the skeleton code in VB is generated automatically for the class diagram designed.

**Viva questions**

1. What is Object Oriented analysis & Design?
2. List the 4 phases in UP.
3. Compose your views on iterative Development and write its benefits.
4. Define UML.
5. Define Class Diagram? When to use Class Diagrams?
6. Define Use Case.
7. Point out the relationship used in Use case.
8. Discover the major Difference between Component and Deployment Diagram.
9. Classify the 3 kinds of actors in usecase.
10. Define State Chart Diagram? When to use State Diagram?
11. Compare Activity and state chart diagram? Mention the Elements of an Activity Diagram.
12. Define Aggregation and Composition.
13. Differentiate between method and message in object.
14. Formulate the purpose of Interaction Diagram.
15. Analyze the need of State chart Diagram.

16. Discuss the Strength and Weakness of the Use case Diagram.
17. Interpret the meaning of event, state and Transition.
18. Give the use of Package Diagram.
19. Compare and Contrast of Sequence and Collaboration diagram.
20. Illustrate the means of representing a node in a Deployment Diagram.