

# 1. College Information System

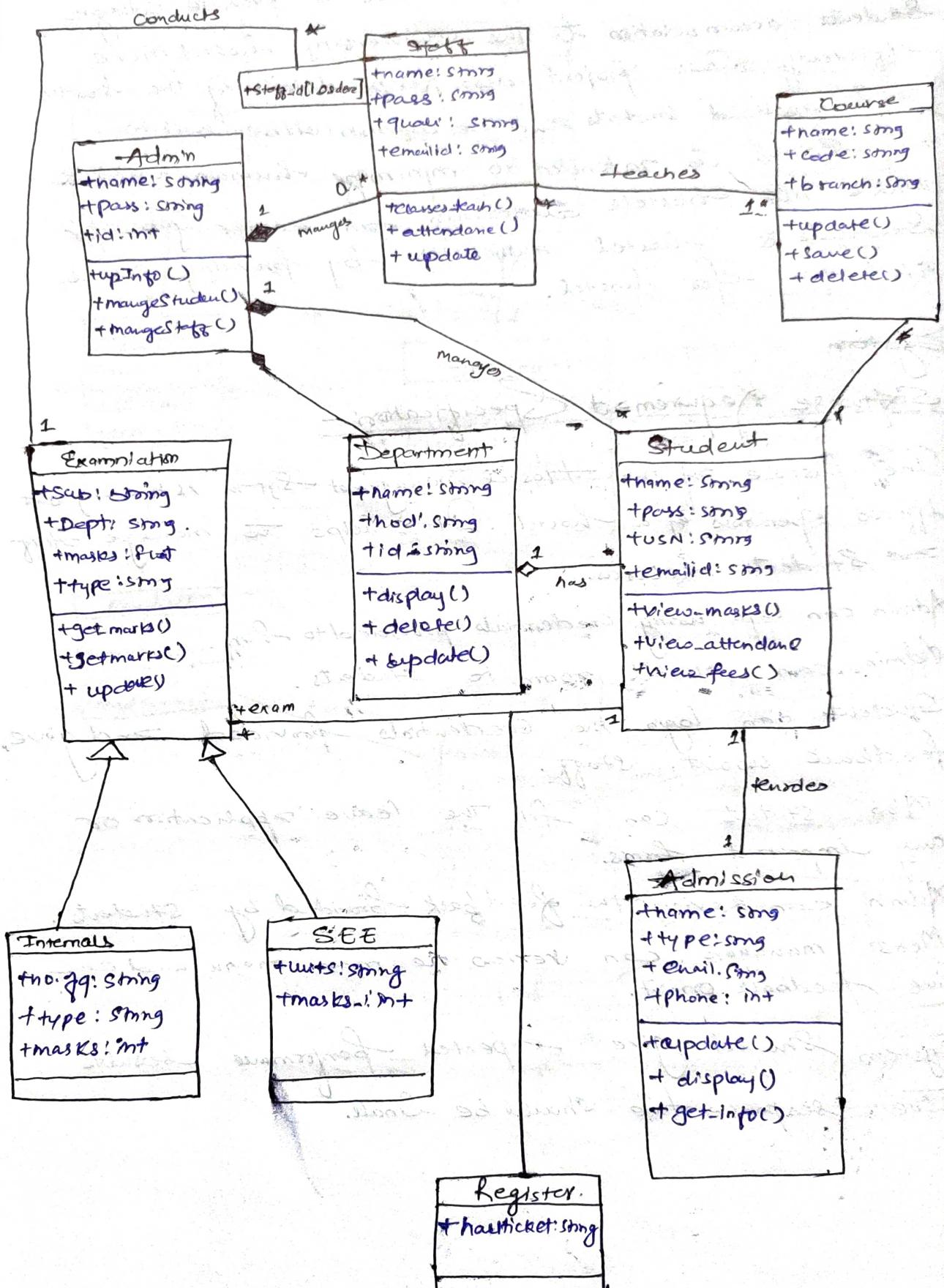
## > Problem Statement:-

This System maintains Students, staff and department information. It maintains the course details, teachers and students enrolled in specific courses. It also maintains the admission records and examination detail. Also provide important information related to college management and college notices.

## > Software Requirements Specification:-

- College Information System has admin who manages the staff, student and department.
- In this system user authentication will be done by login by username & password & classified by user type.
- Staff in college who teach more than one subject to & aid staff who are responsible for examiners for students of the college.
- Able to edit, add, view students personal details.
- Record of every department activities.
- Faculty should be able to view all student personal detail and should be able to view & edit internal evaluation marks & attendance of students.
- Placement Section should be able to view all student detail and add companies coming to the campus for placements.
- Student should not be able to edit their personal details and marks.

## Class Diagram :- of College Information System



## Q. Hostel Management System:-

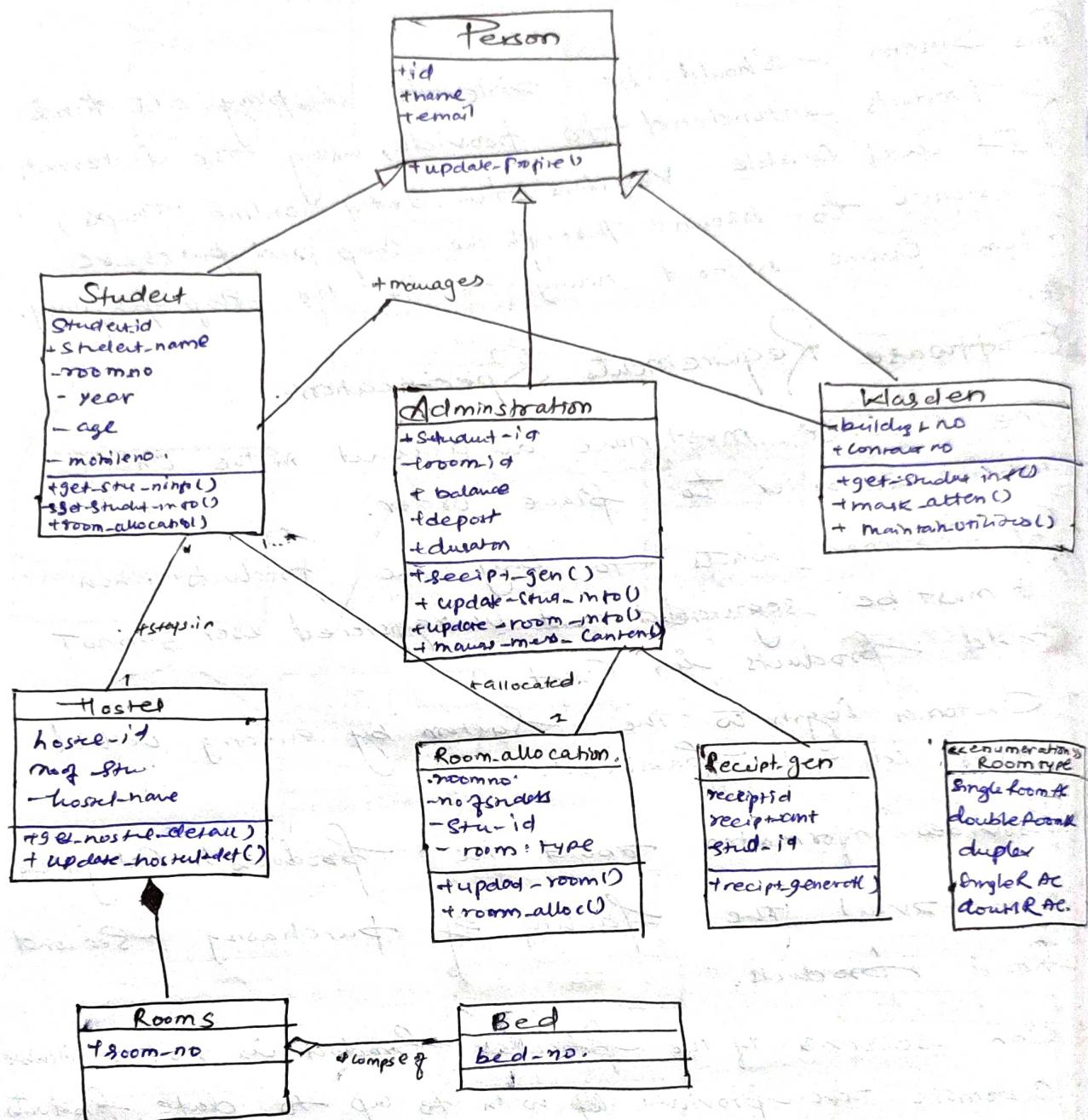
- Problem Statement:- This System is to provide college students accommodation to the university hostel more efficiently. This project also keeps details of the hostels and applied students and the admin will be warned.
- This system is intended to minimize human works & make the hostels allocation an easier job for students & hostel authorities by providing online application for hostel.

### System

#### → Software Requirement Specification:-

- The purpose of the Hostel management System is to carry out different operations of a hostel. It helps to manage Staff and Students Records.
- Admin can login using credentials provided to him.
- Admin can allot room to students.
- Students can login the credentials provided and give feedback about staff.
- Also student can fill the leave application or any important forms.
- Admin can review the feedback provided by students.
- Mess managers can review the mess menu and can give feedback on it.
- System should give expected performance.
- The response time should be small.

## Class Diagram of Hostel Management System:



## 3. Stock Management System:-

### → Problem Statement:-

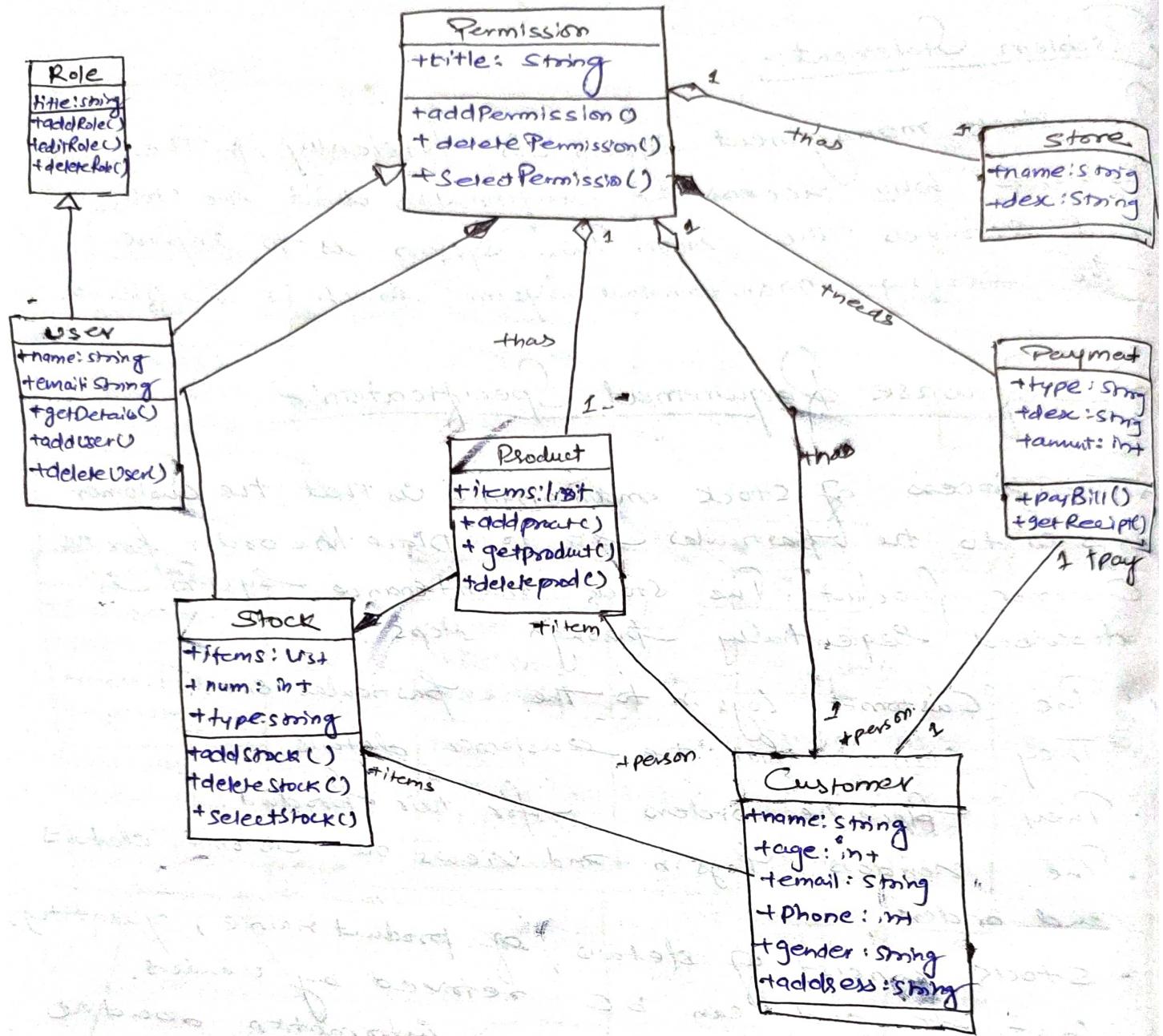
The stock management system is basically for the customers who access the information about the stock and retrieves the info. This system is to replace the existing maintenance system which is inefficient.

### → Software Requirements Specification:-

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

- The customer logs in to the particular site.
- They can find the customer details.
- They place the orders for their products.
- The vendor logs in and views the customer details and orders.
- Stocks consist of details of product name, quantity, cost etc. and can be referred by vendors.
- The vendor deals with the information about the details of the supplier giving product to the organization.
- Vendor consists details such as, name, address, mail, fax num etc of vendors & can be referred when a purchase is done.

# • Class Diagrams:-



## 4. Coffee Vending Machine:-

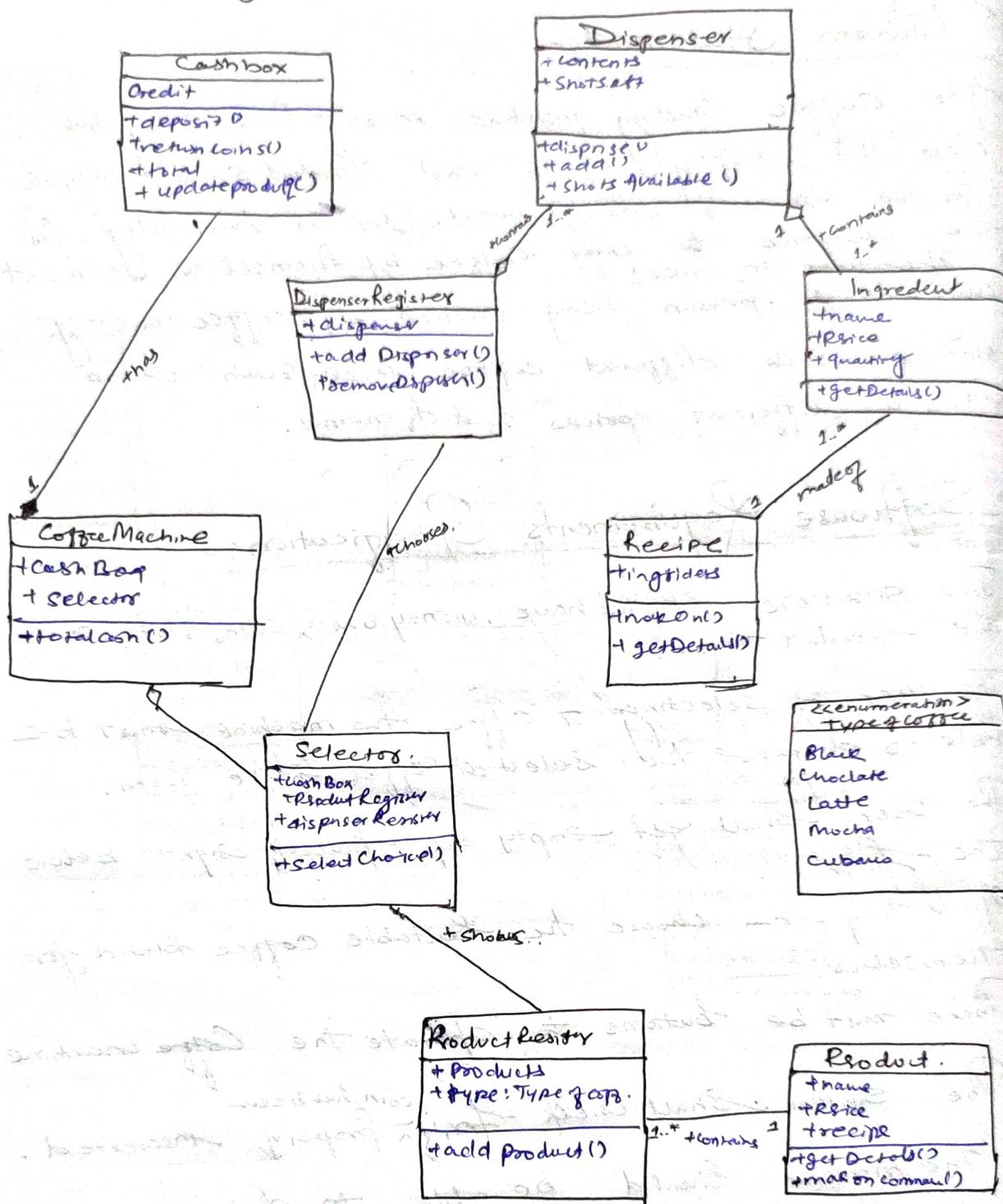
### → Problem Statement:-

→ The Coffee Vending machine must have money box, coin slot, display screen and product side coffee for one machine to be used. It is basically for the customers to buy coffee by themselves without the user or seller being involved. A coffee vending machine sells different coffee blends. Each blend has a different prices and a name.

### → Software Requirements Specification:-

- The machine should have money box, coin slot, screen and product names.
- The user on selecting a coffee, the machine must be able to dispense the selected coffee to the user.
- The user shall get empty cap placed right below the filter.
- And they can choose the suitable coffee blend for themselves.
- There must be buttons to operate the coffee machine.
- The system shall check for if a coin has been properly inserted.
- The machine should be able to dispense the coffee after receiving the proper amount of money.

## Class Diagram:-



## 5. Online Shopping System:-

### → Problem Statement:-

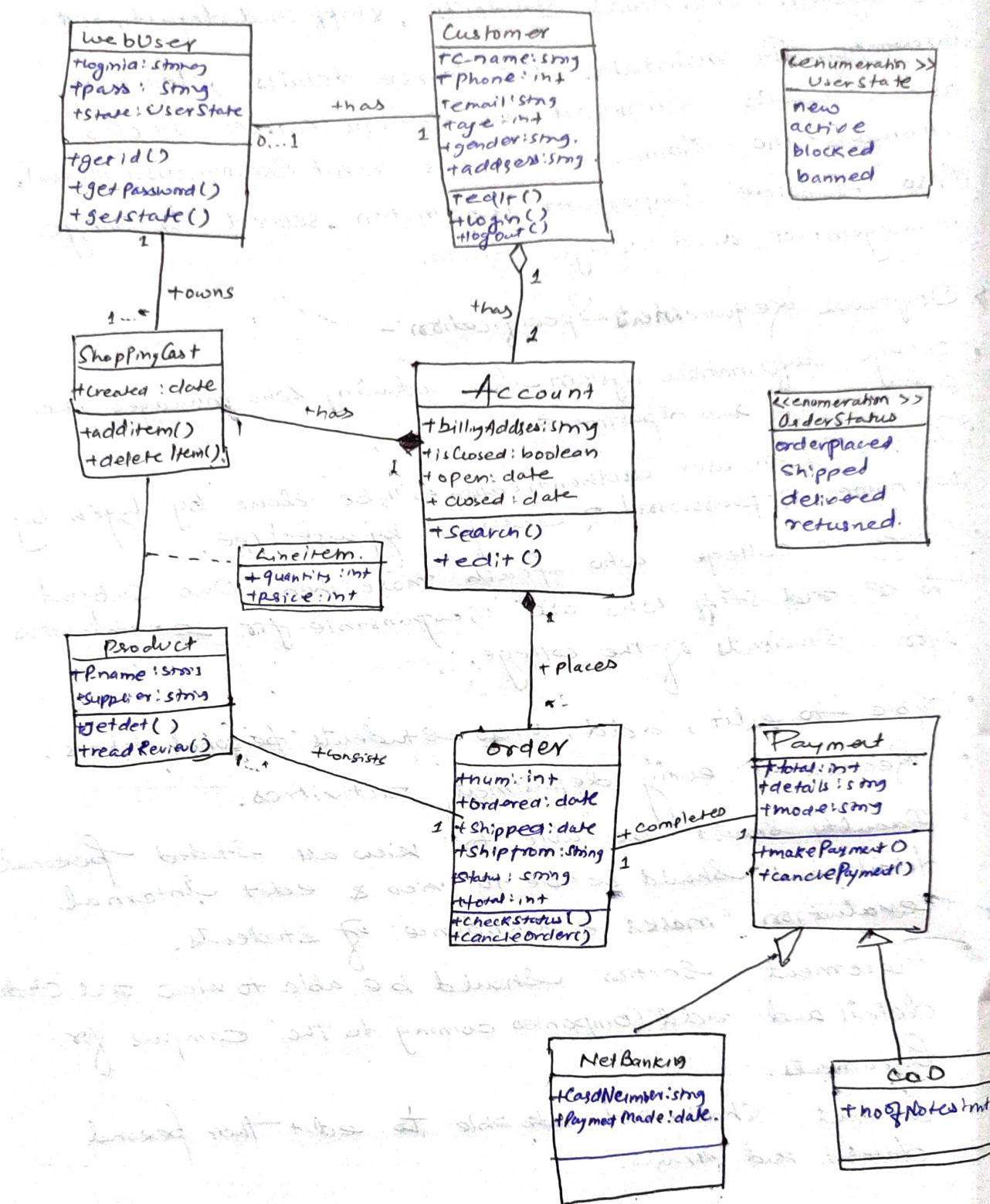
This System Should be able to display all kind of products intended to provide, using the internet. It will enable Vendors to setup online Shops, Customers to browse through the shop and purchase them Online without having to visit the Shop physically.

### → Software Requirements Specification:

- The Customer must have an account in the Online website, in order to place order.
- If Customer wants to buy the products then he must be registered and unregistered user cannot add products in Cart.
- Customer login to the System by entering valid user id and password.
- Provides information about the products in Categories.
- Can avail the facility of purchasing second hand products.
- Can reserve if no particular product is not available.
- Customers are provided with up to date products available.
- Customers are provided with product detail information.
- Provides back up facility.

# Shopping System.

## Class Diagram - of Online Management



## 6. Railway Reservation System:-

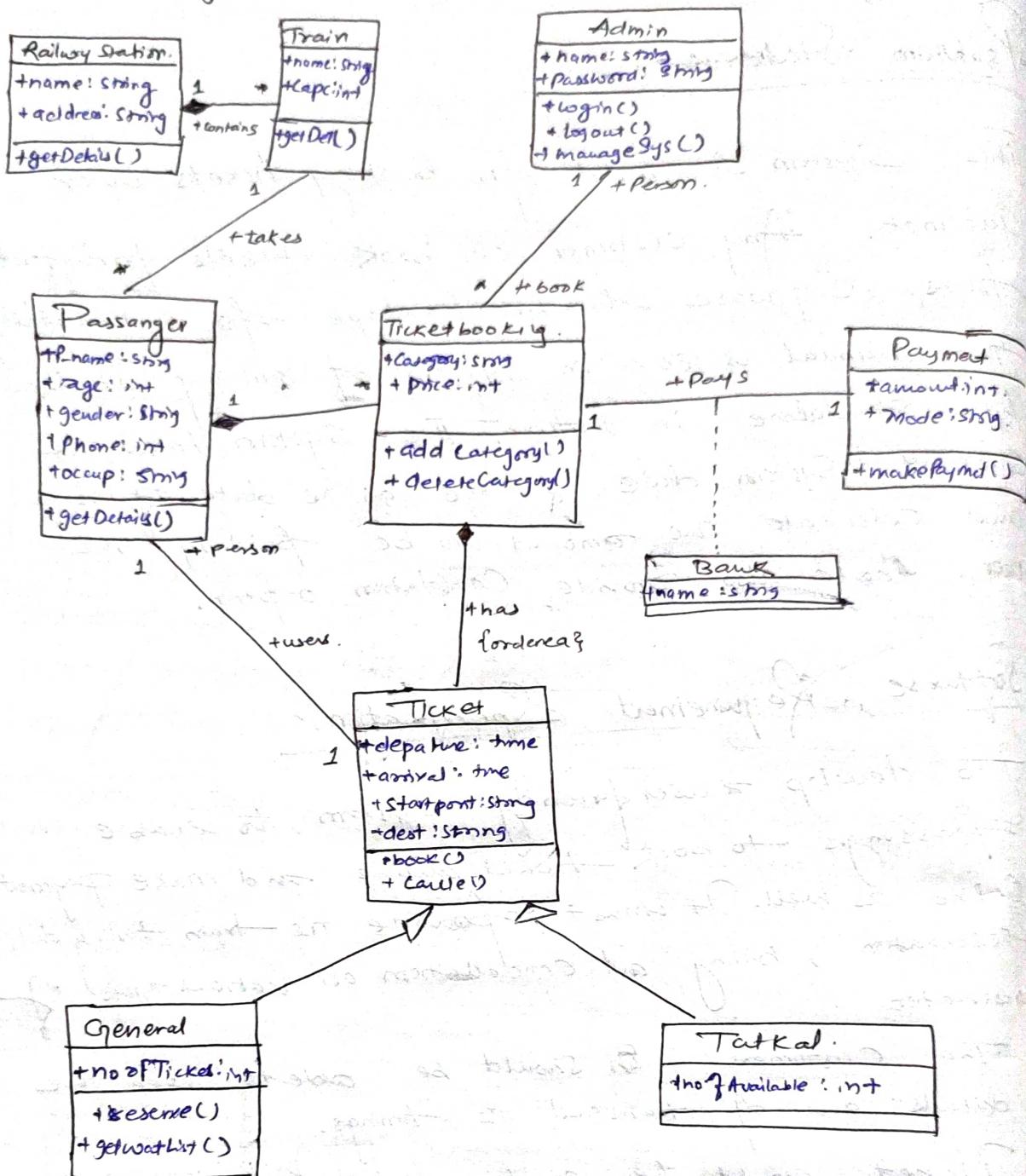
### > Problem Statement:-

This System is used for booking tickets over internet. Any customer can book tickets for different trains. Software has been developed for automating the manual reservation system of railway. It should be standalone in nature. The System takes the current system date & time as the date of issue and calculate the amount to be paid by the user. Should also provide cancellation option.

### > Software Requirement Specification:-

- To develop a user friendly system, to enable passengers to book tickets online and make payment online as well. It must provide the train timing details, reservation, billing and cancellation on various types of reservation.
- The customers should be able to see the details of trains and its timings.
- Ticket should be containing valid PNR number & showing the ~~st~~ reservation status.
- Cancellation fee and Refund should be done in a secure line.

## > Class Diagram:-



## F. Graphics Editors:-

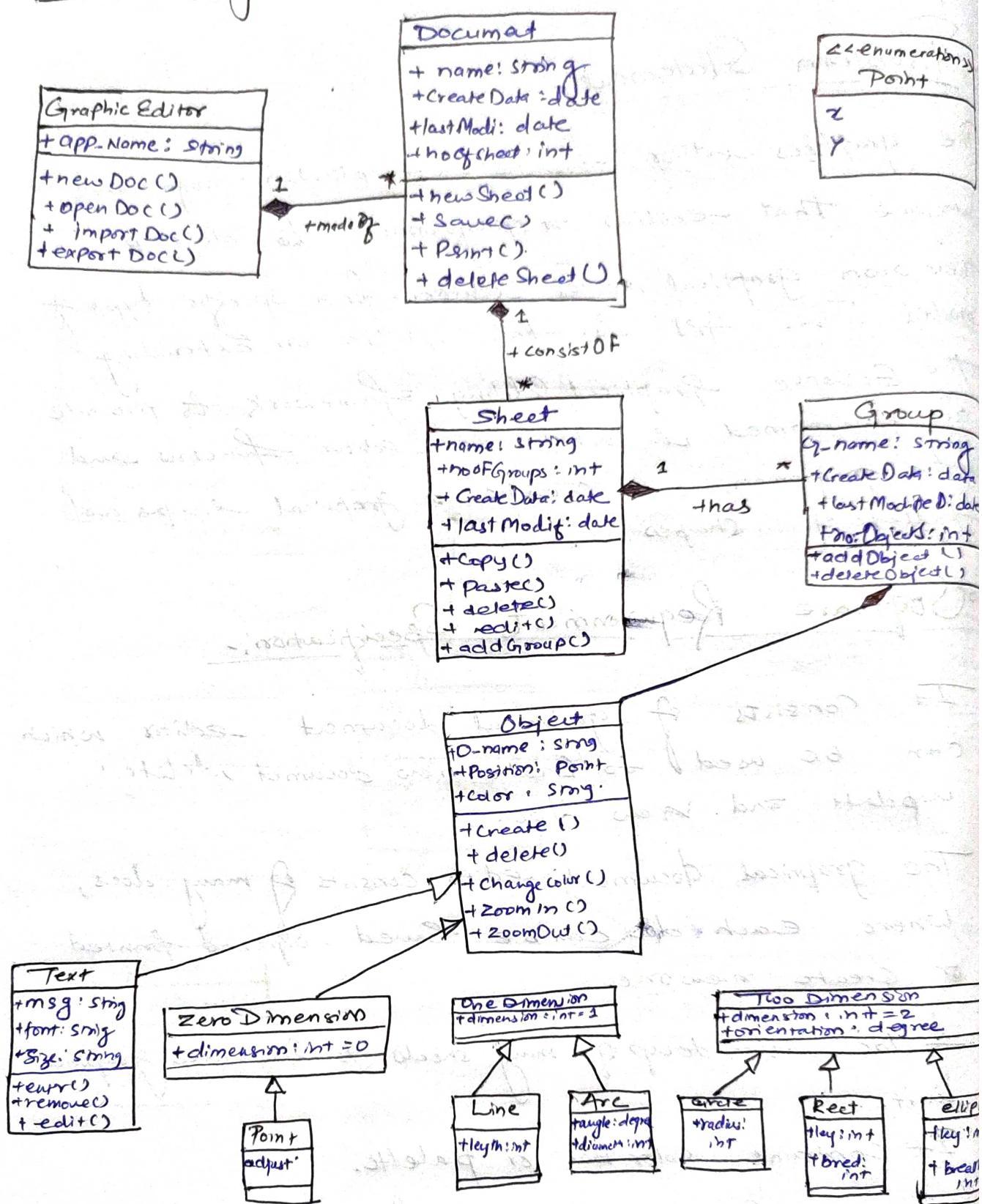
### ↳ Problem Statement:-

The graphics editor provides an Application interface that enables a programmer to develop their own graphical model editor for a specific type of model. This API in turn, relies on Extending the Eclipse Graphical Editing Framework to provide an environment in which new editor functions and the programmer can create graphical shapes and a palette of shapes.

### ↳ Software Requirements Specification:-

- It consists of graphical document editors which can be used to create new document, delete, update and view doc.
- The graphical document editor consists of many docs, where each doc can be saved, opened, printed or create new one.
- A doc is made up of many sheets to includes graphics init.
- It contains Color box or palette.
- Easy handling of tools for users.
- It provides provision of zooming in or out.
- Also provides different shadings of one tool.

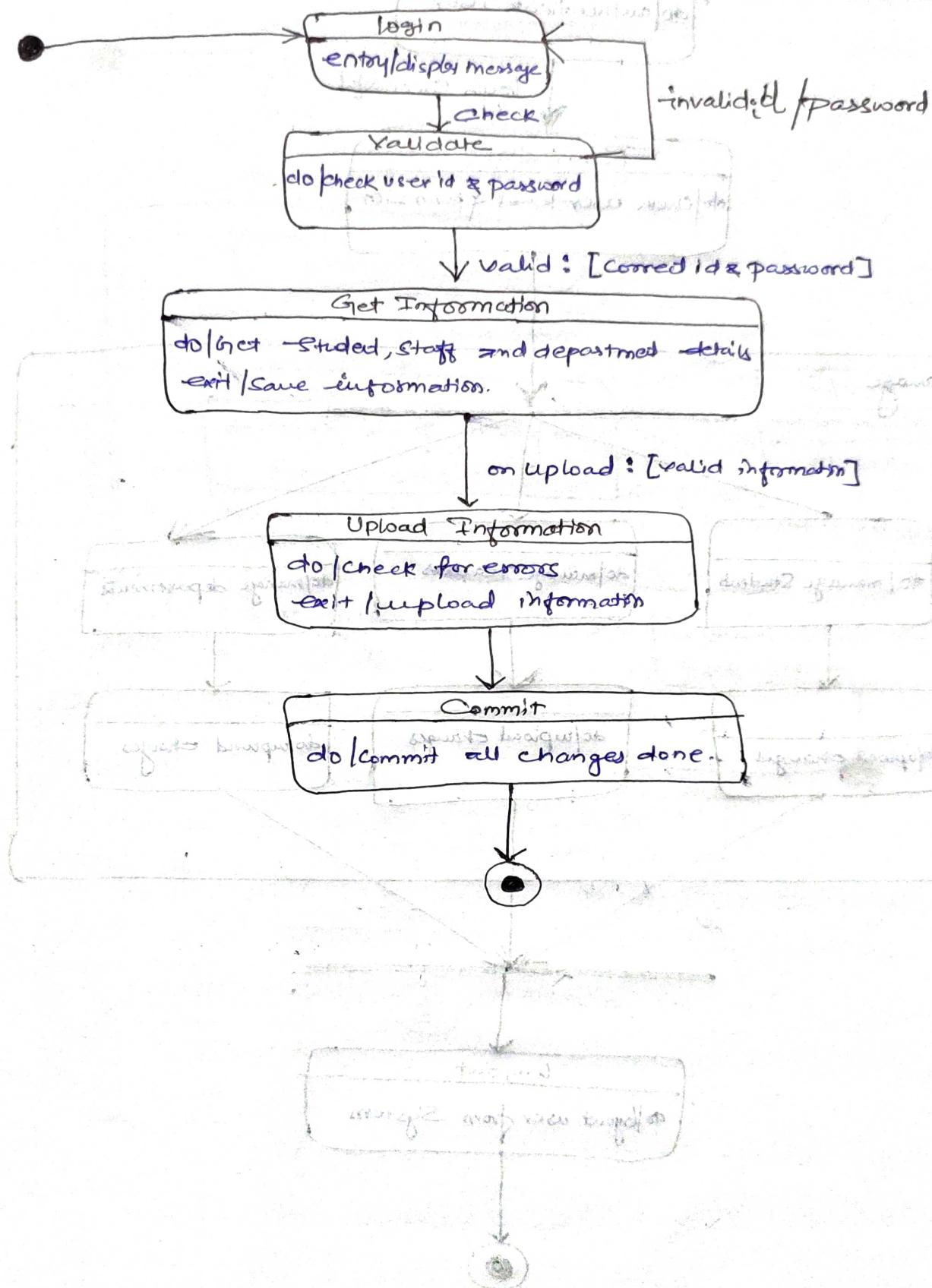
## Class Diagrams



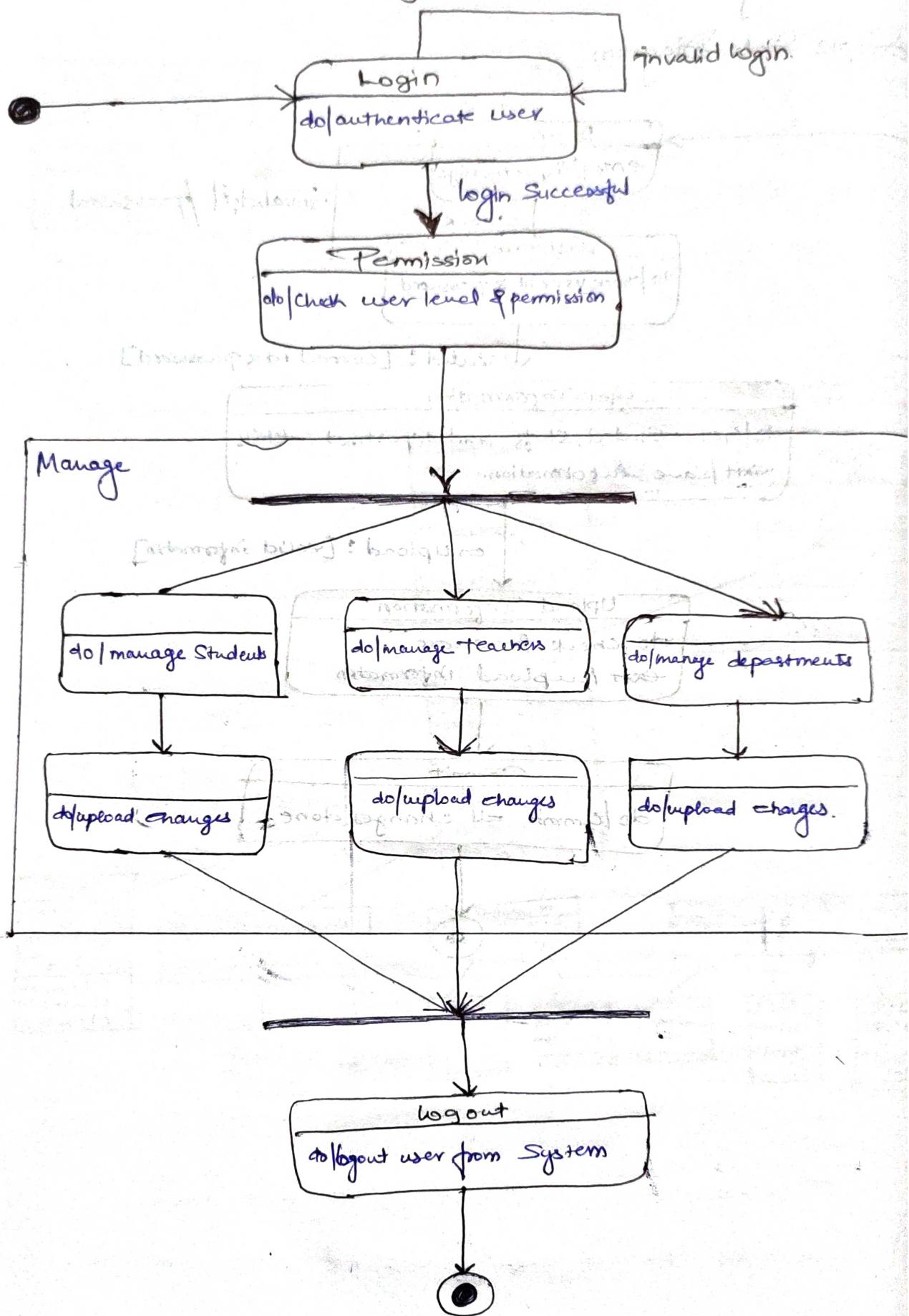
## → 1. College Information Systems:-

→ State Diagram:-

### 1. Simple State Diagram



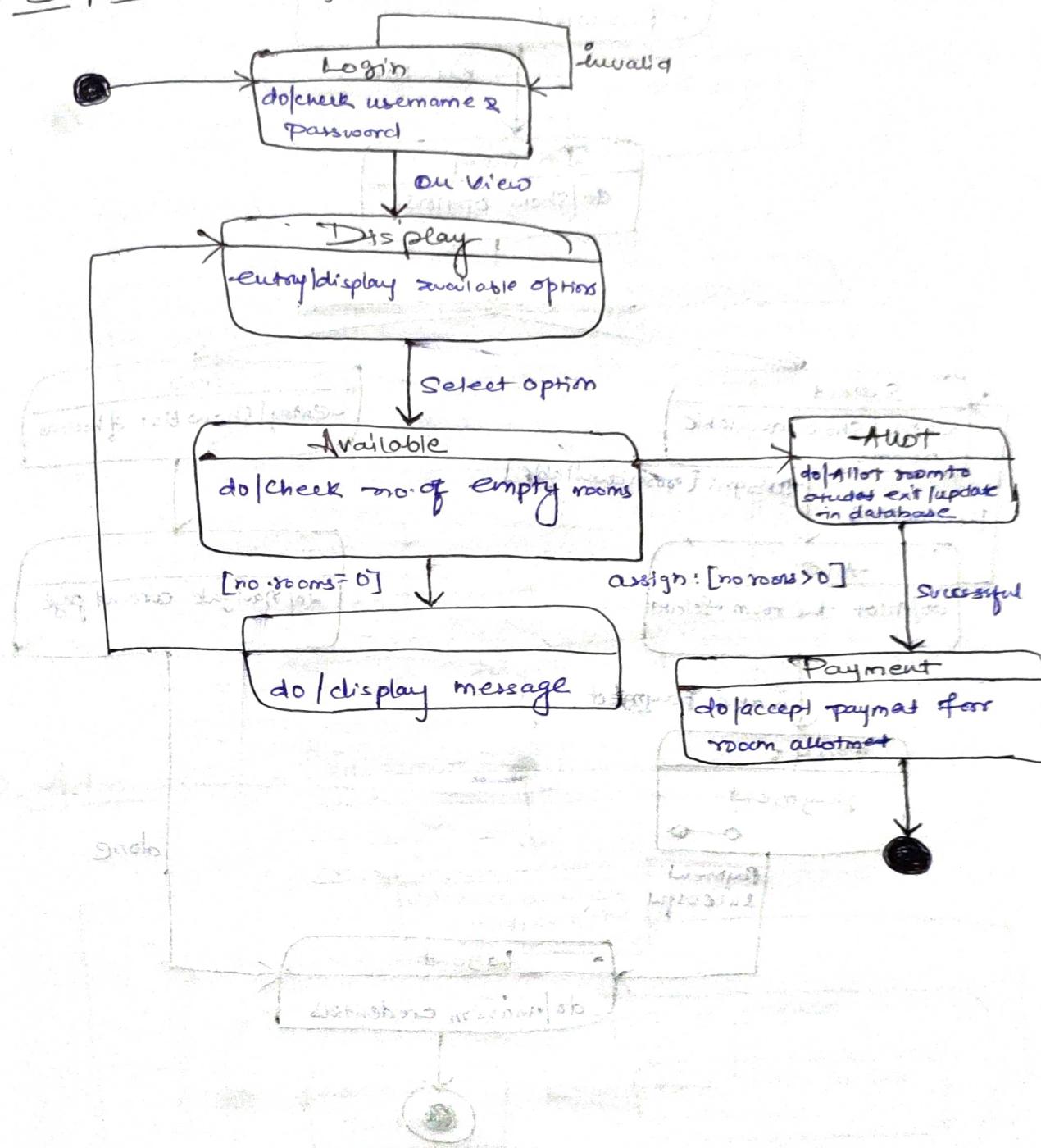
## 2. Advanced State Diagram:-



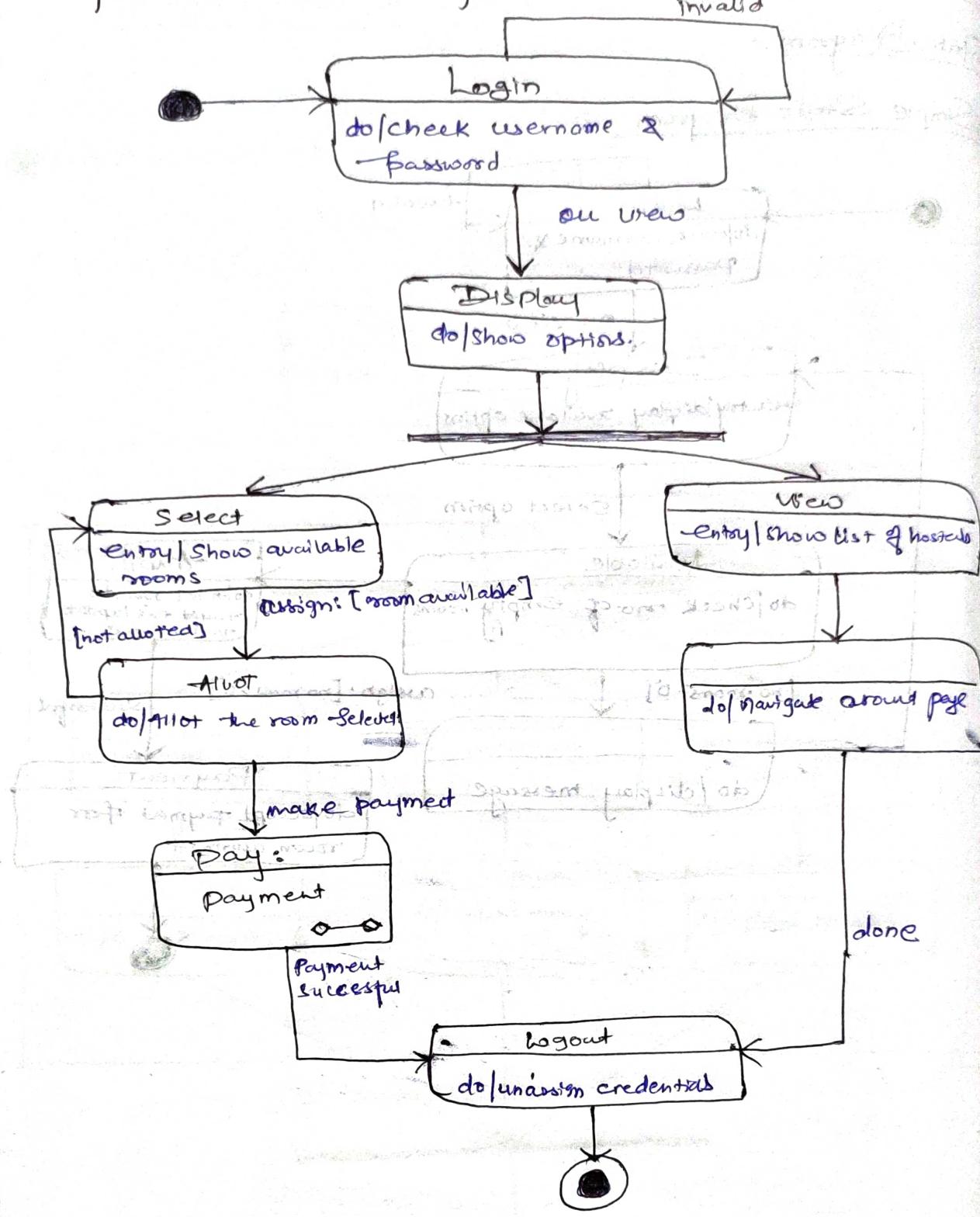
## 2. Hostel Management System:-

+ State Diagram:-

### 1. Simple State Diagram



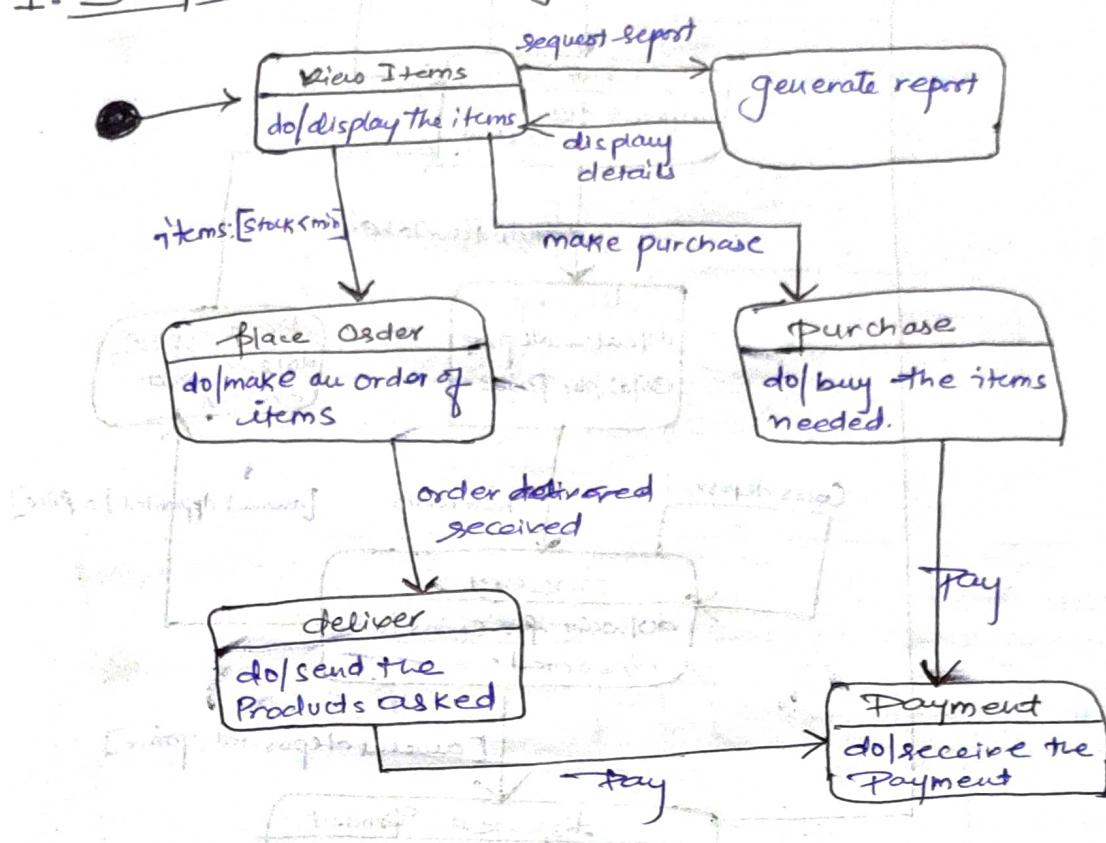
## 2. Advanced State Diagrams:-



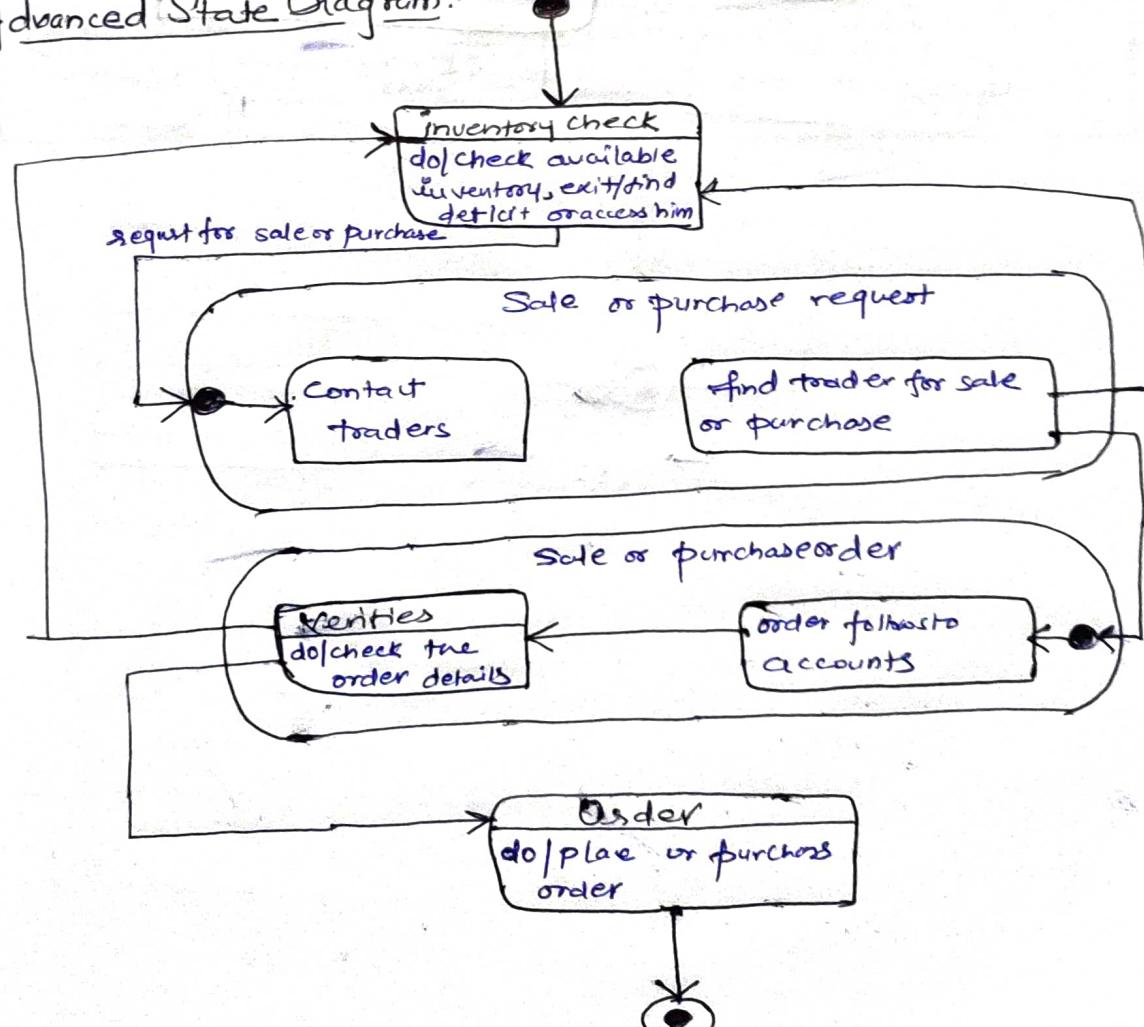
### 3. Stock Management System:

#### 4. State Diagram:-

##### 1. Simple State Diagram:-



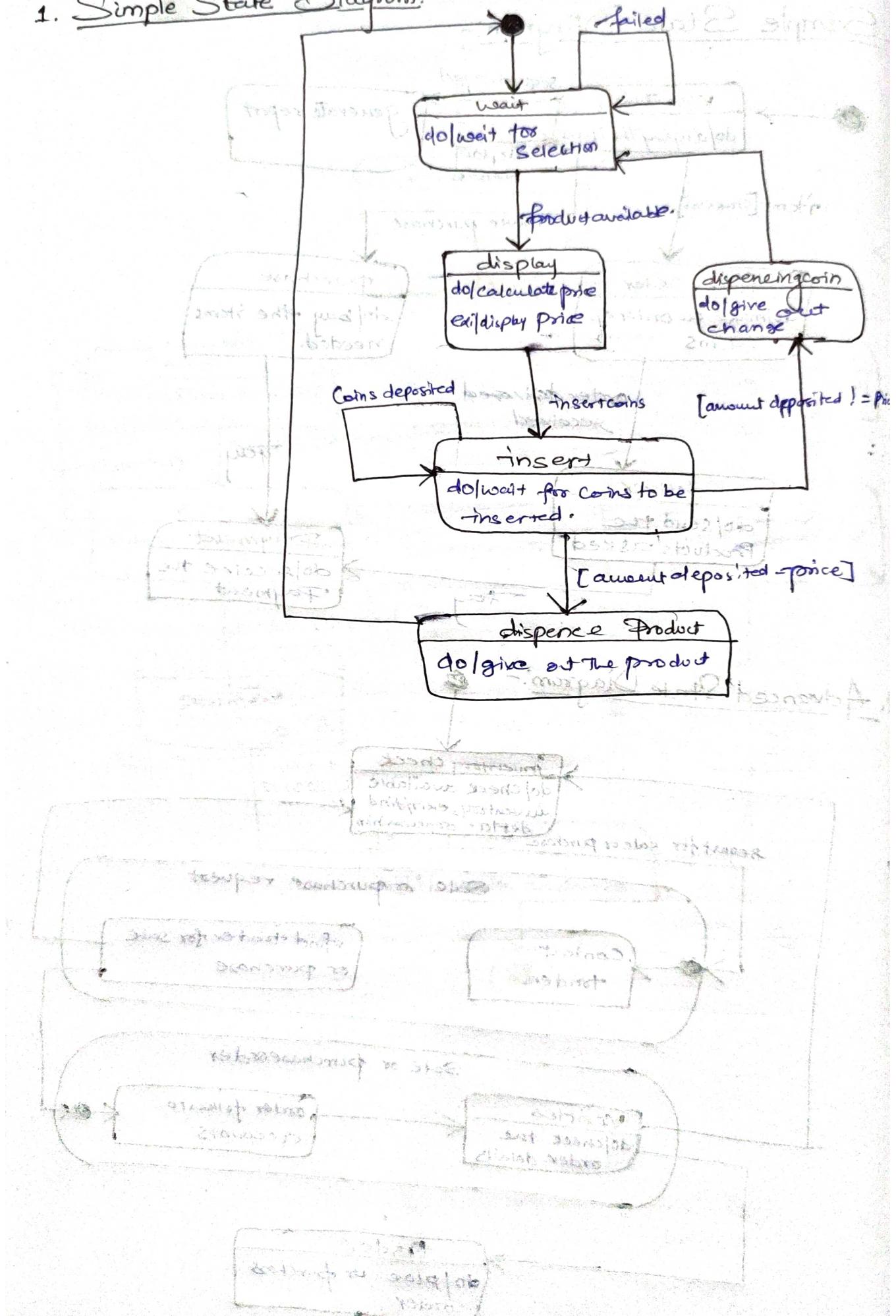
##### 2. Advanced State Diagram:-



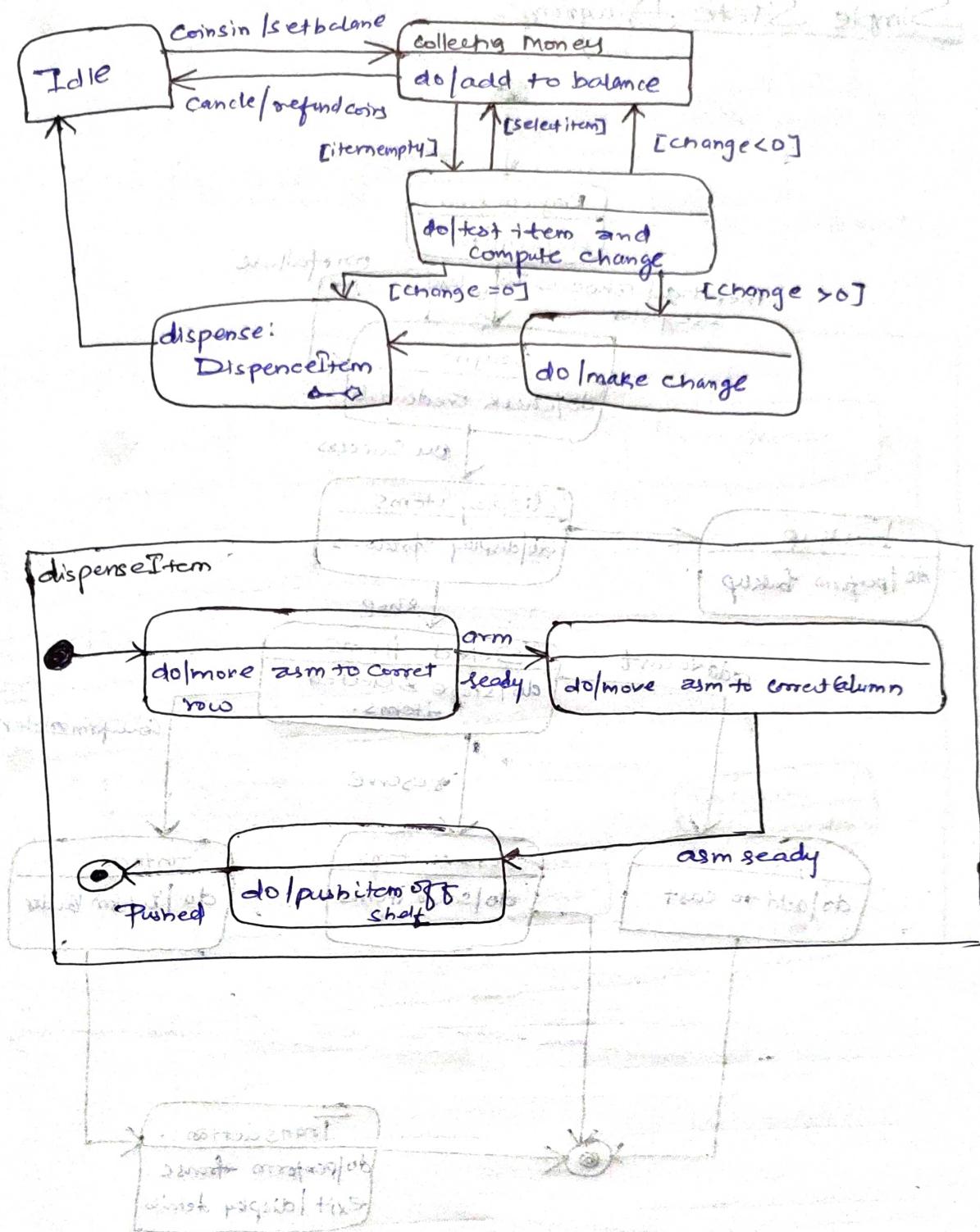
# 4. Coffee Vending Machine:-

## → State Diagram:-

### 1. Simple State Diagram:-

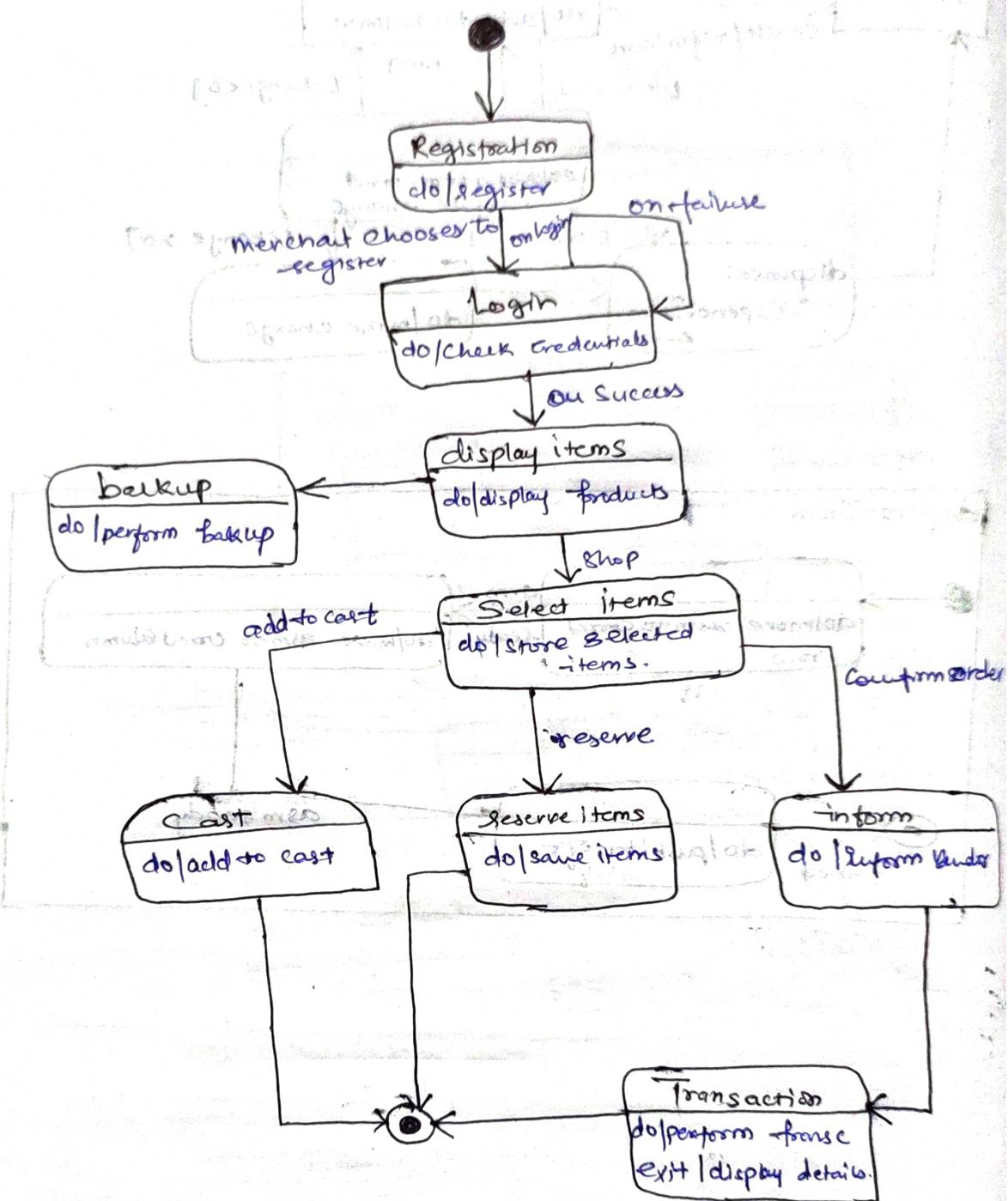


## 2. Advanced State Diagram:-

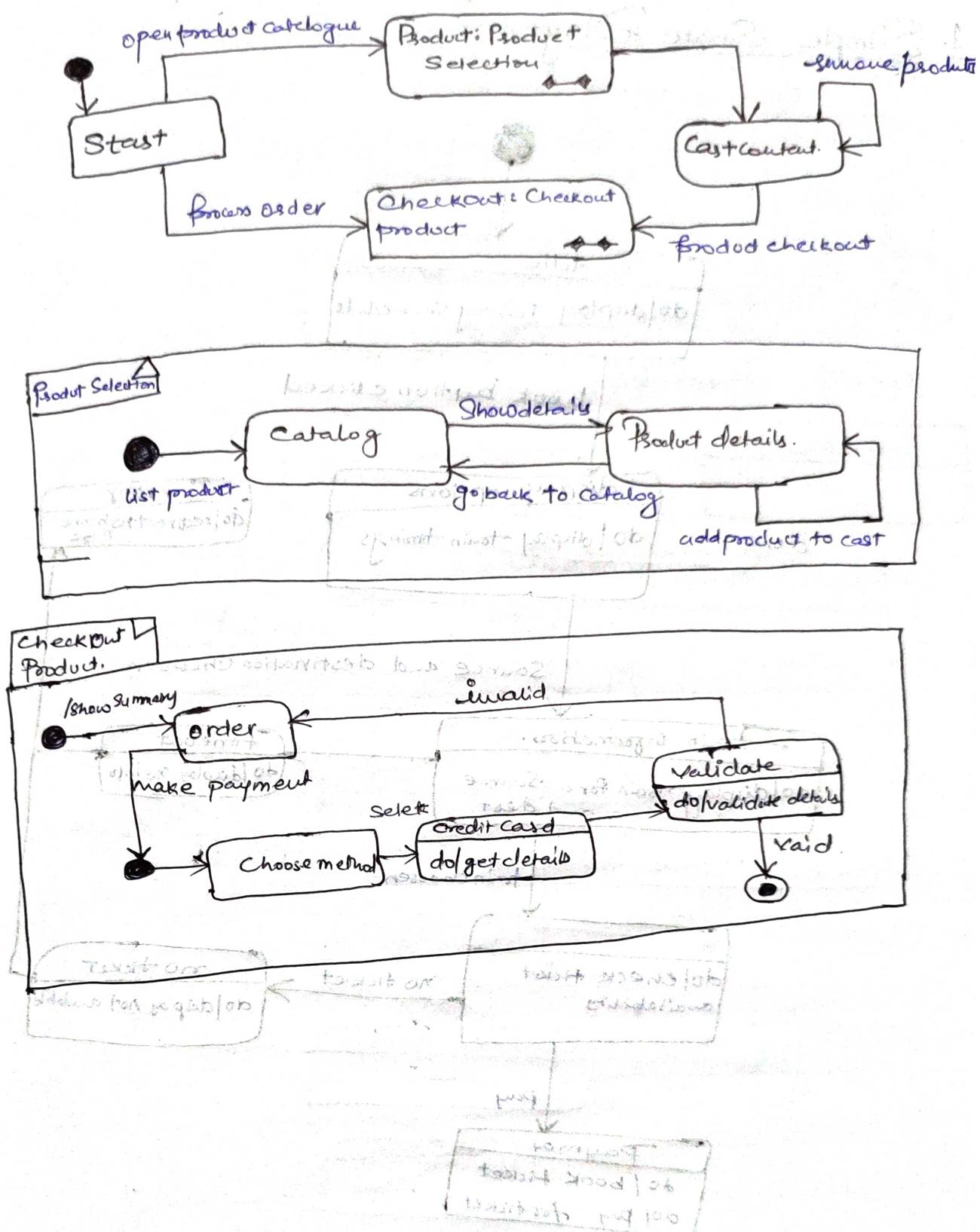


## 5. Online Shopping System:- State Diagram

### 1. Simple State Diagram:-

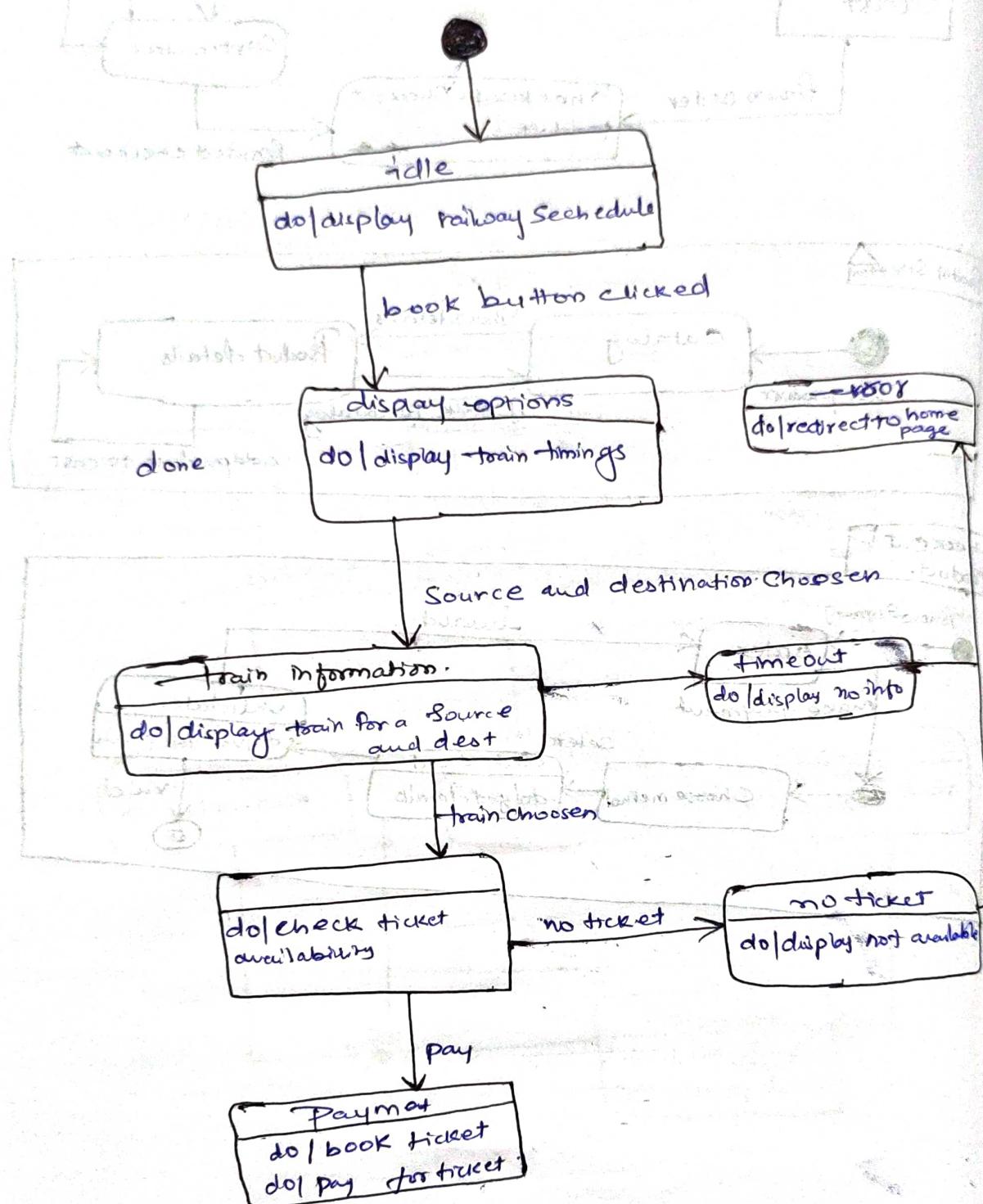


## Q. Advanced State Diagram:-

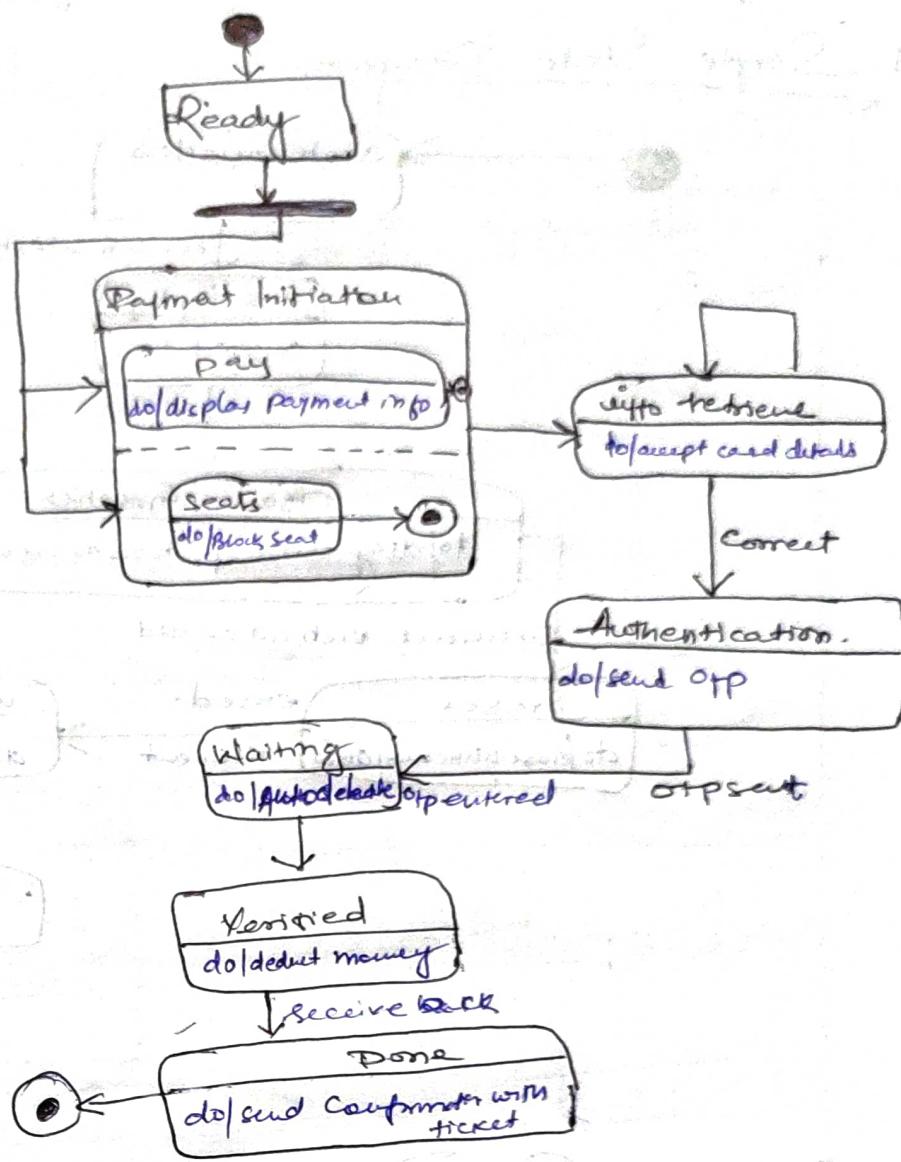


# 6 Railway Reservation System State Diagram

## 1. Simple State Diagram

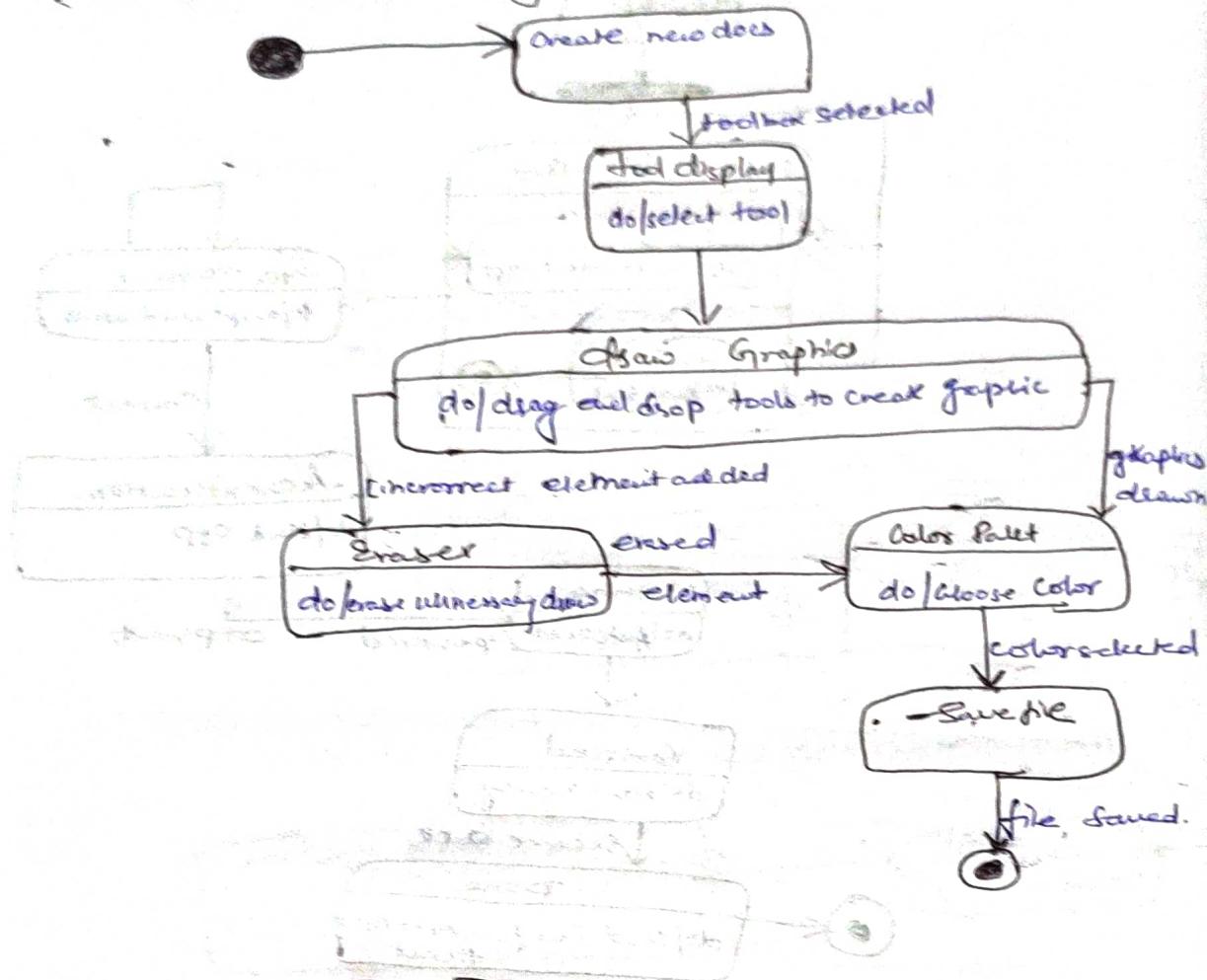


→ Advanced State Diagram:-

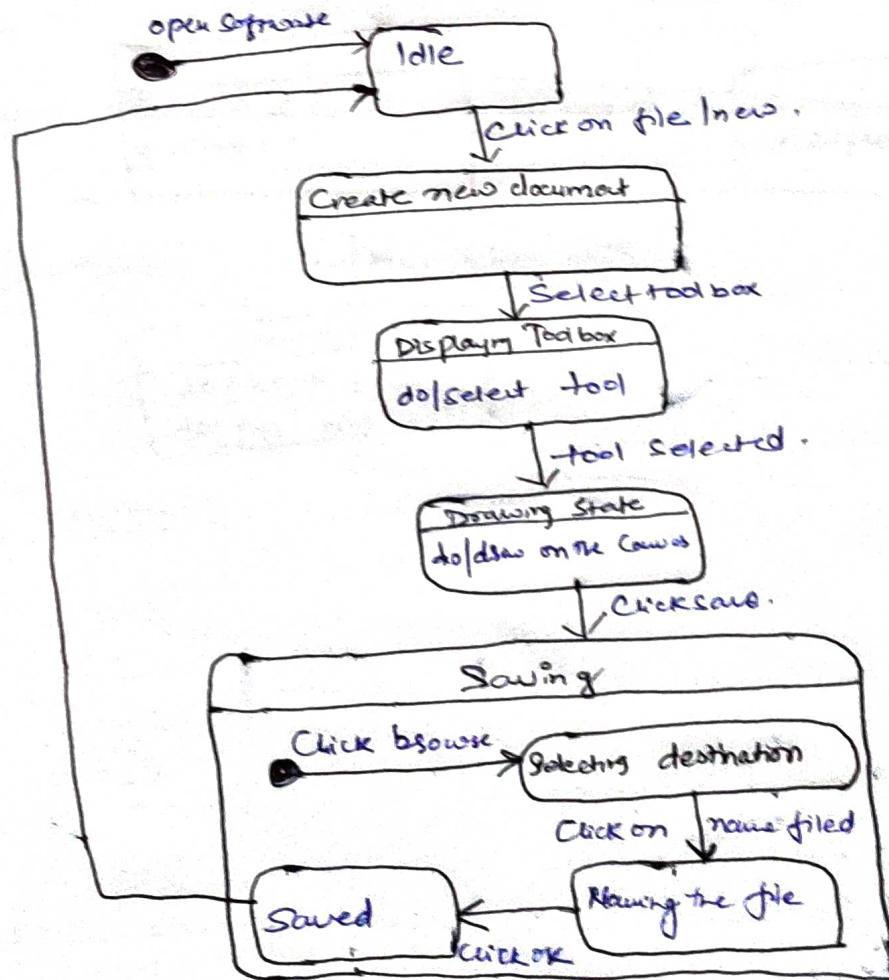


## 7. Graphics Editor: State Diagram:-

### 1. Simple State Diagram:-



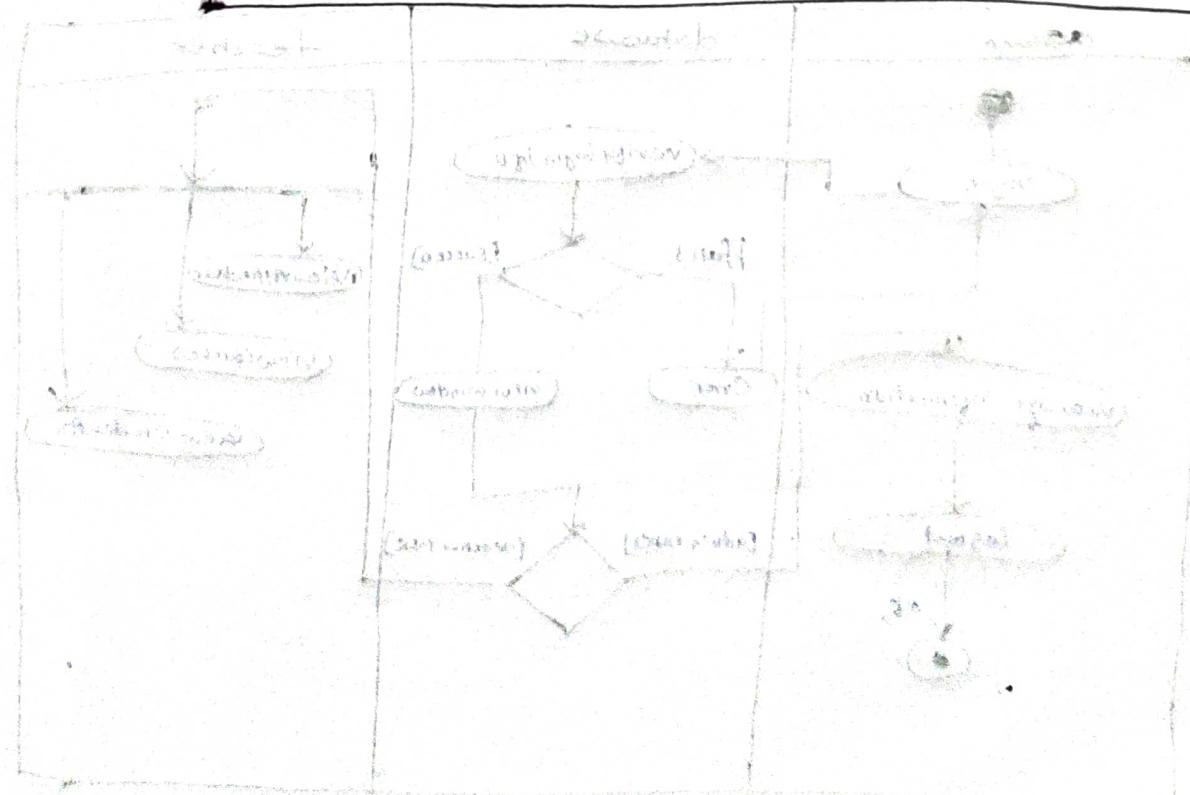
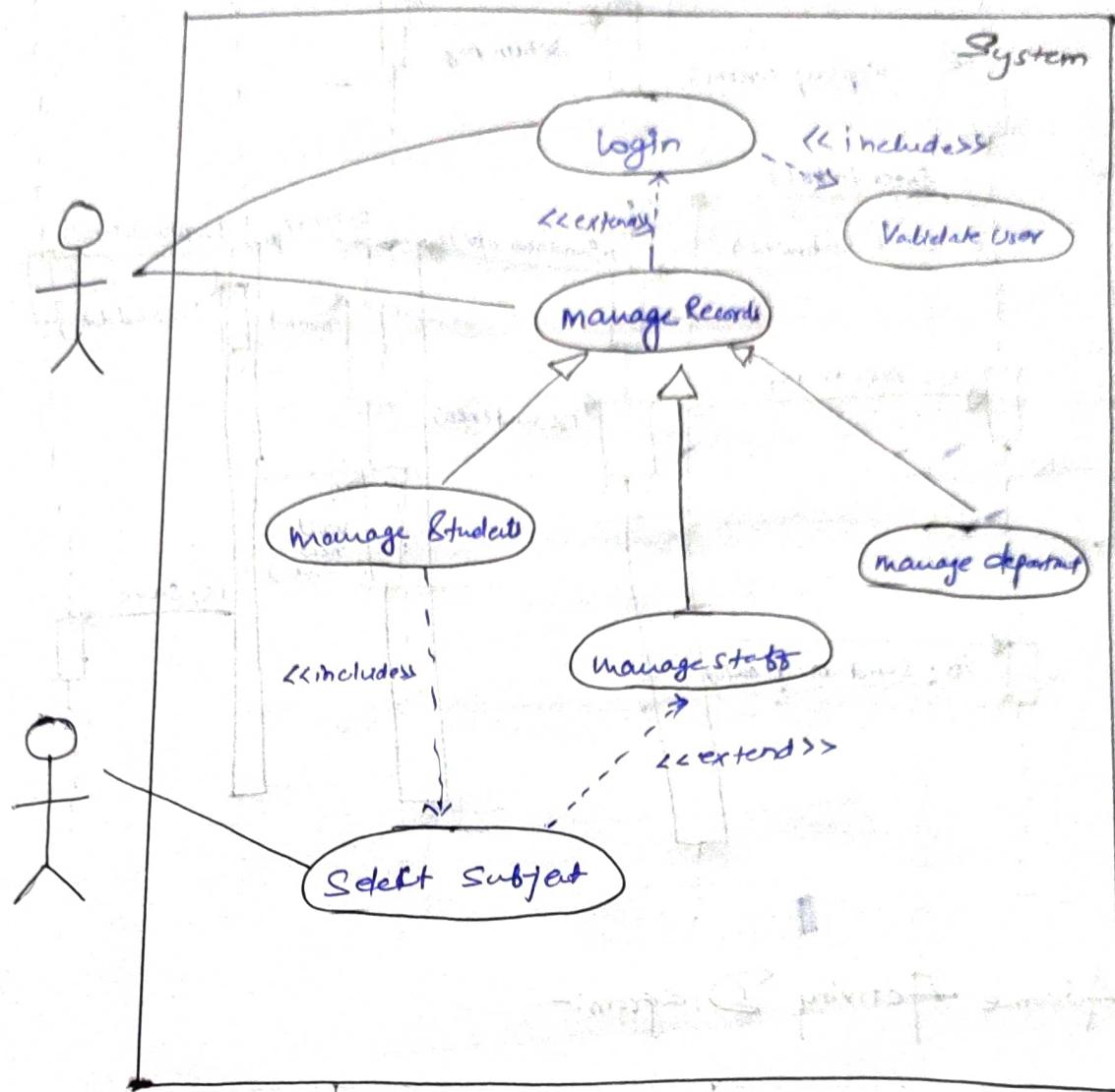
### 2. Advanced State Diagram:-



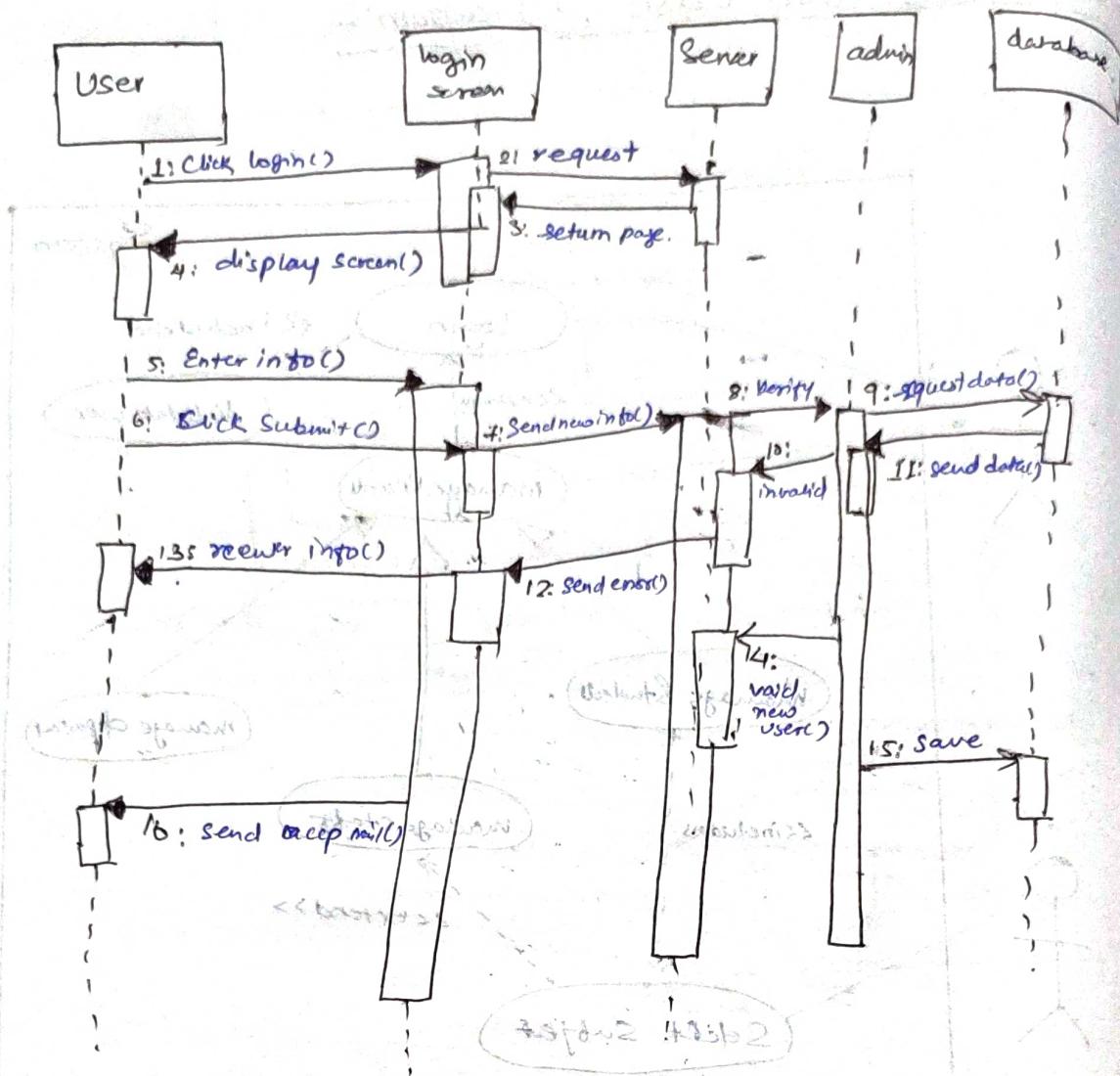
## → College Information System:-

### → Advance Use Case Diagram:-

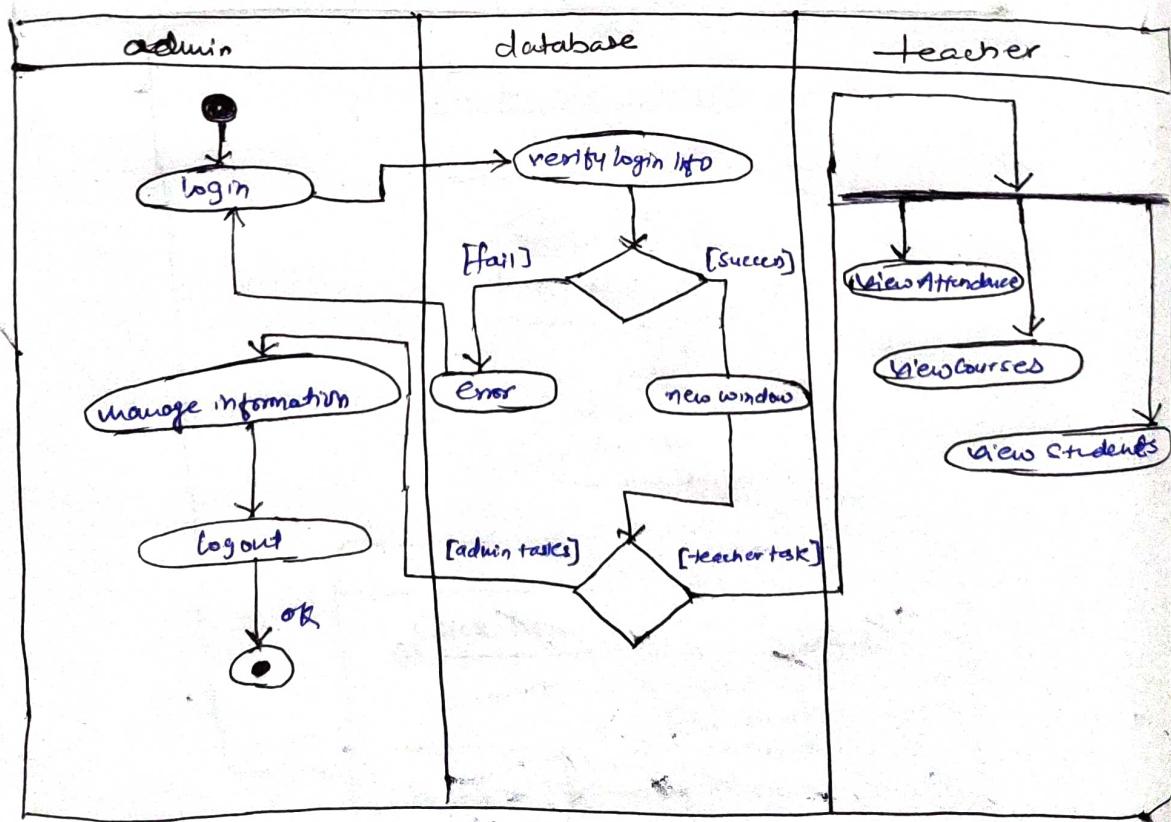
3.



## A. Advance Sequence Diagram:-

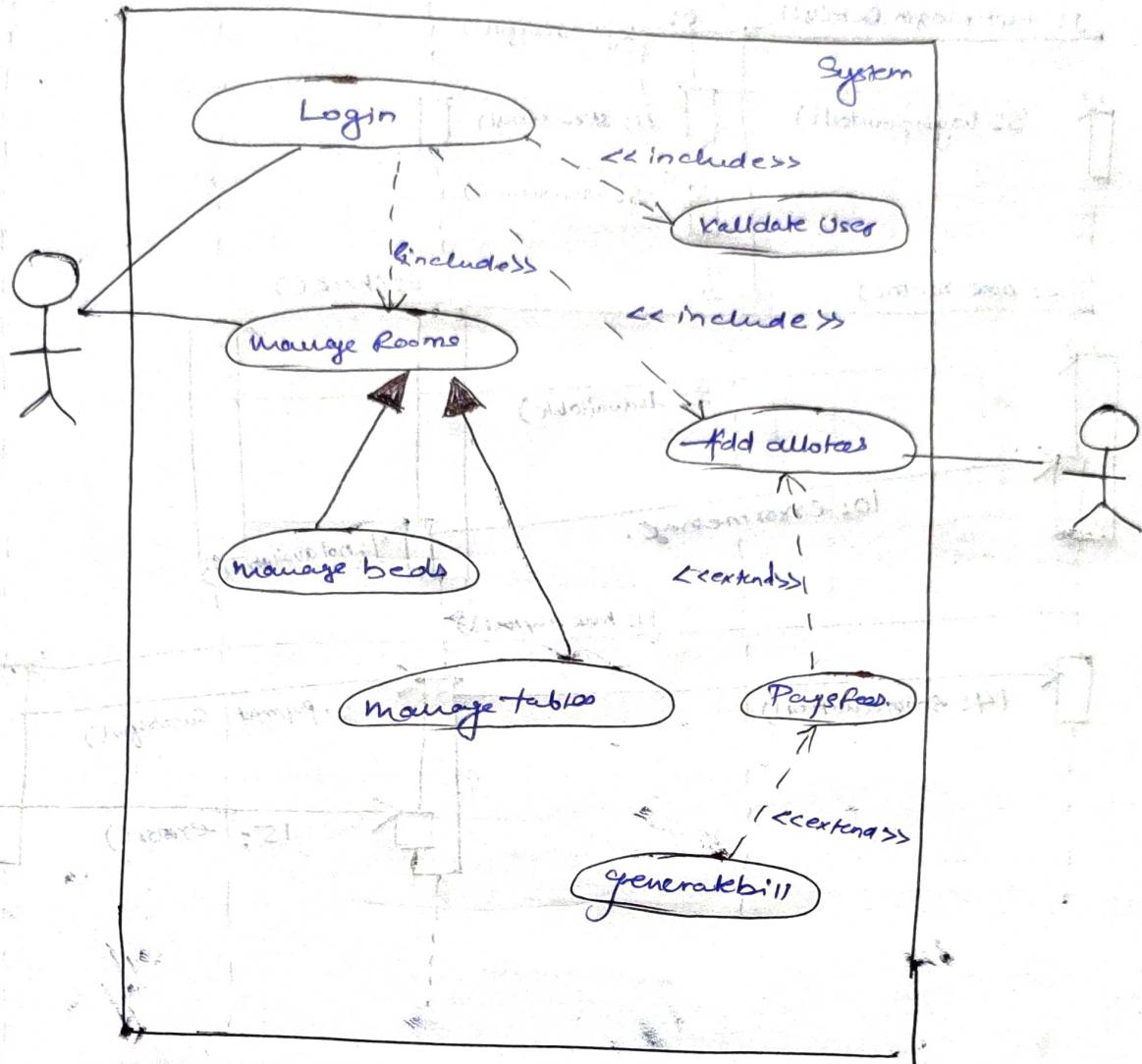


## B. Advance Activity Diagram:-

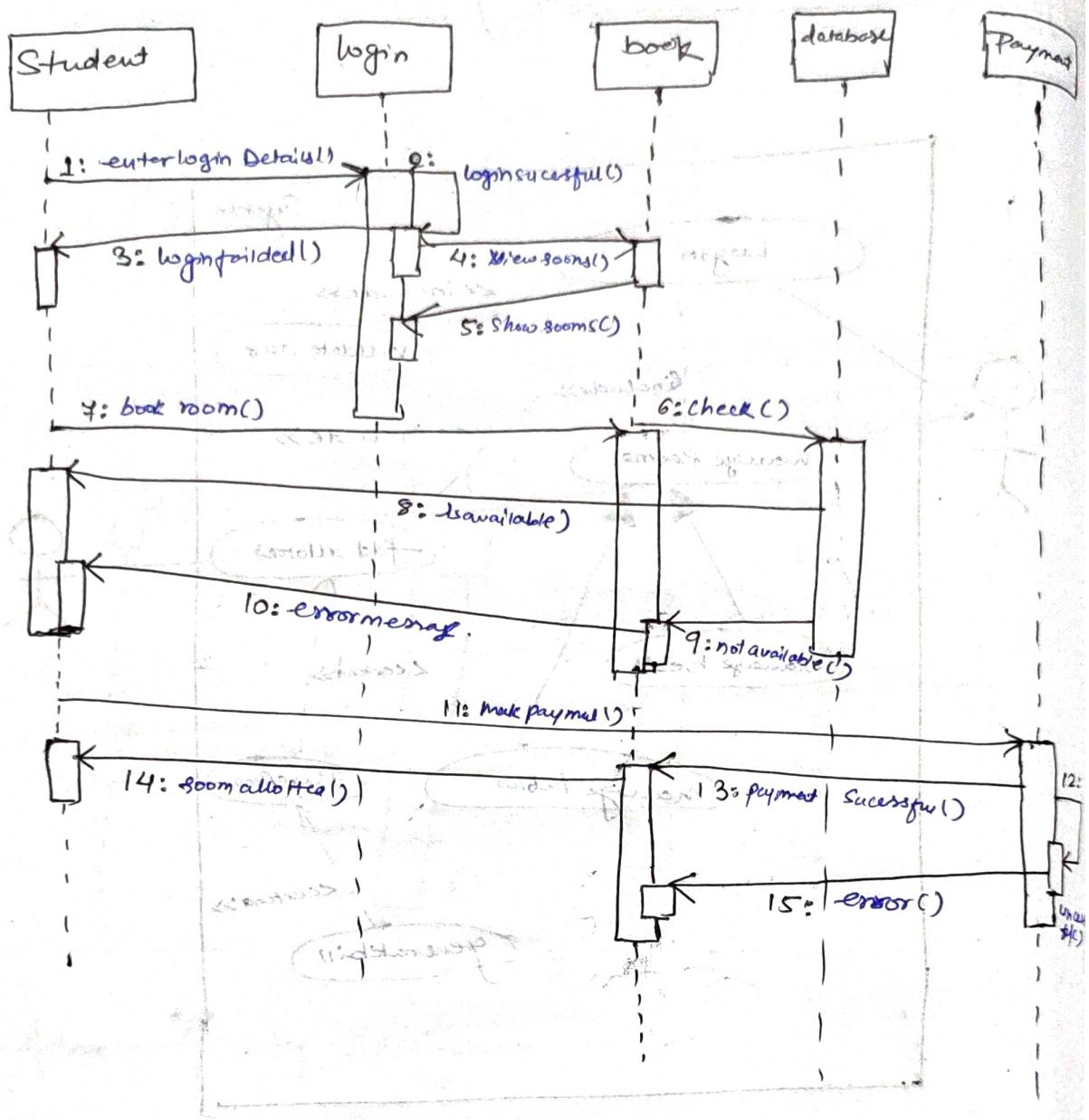


## 2. Hostel Management System:-

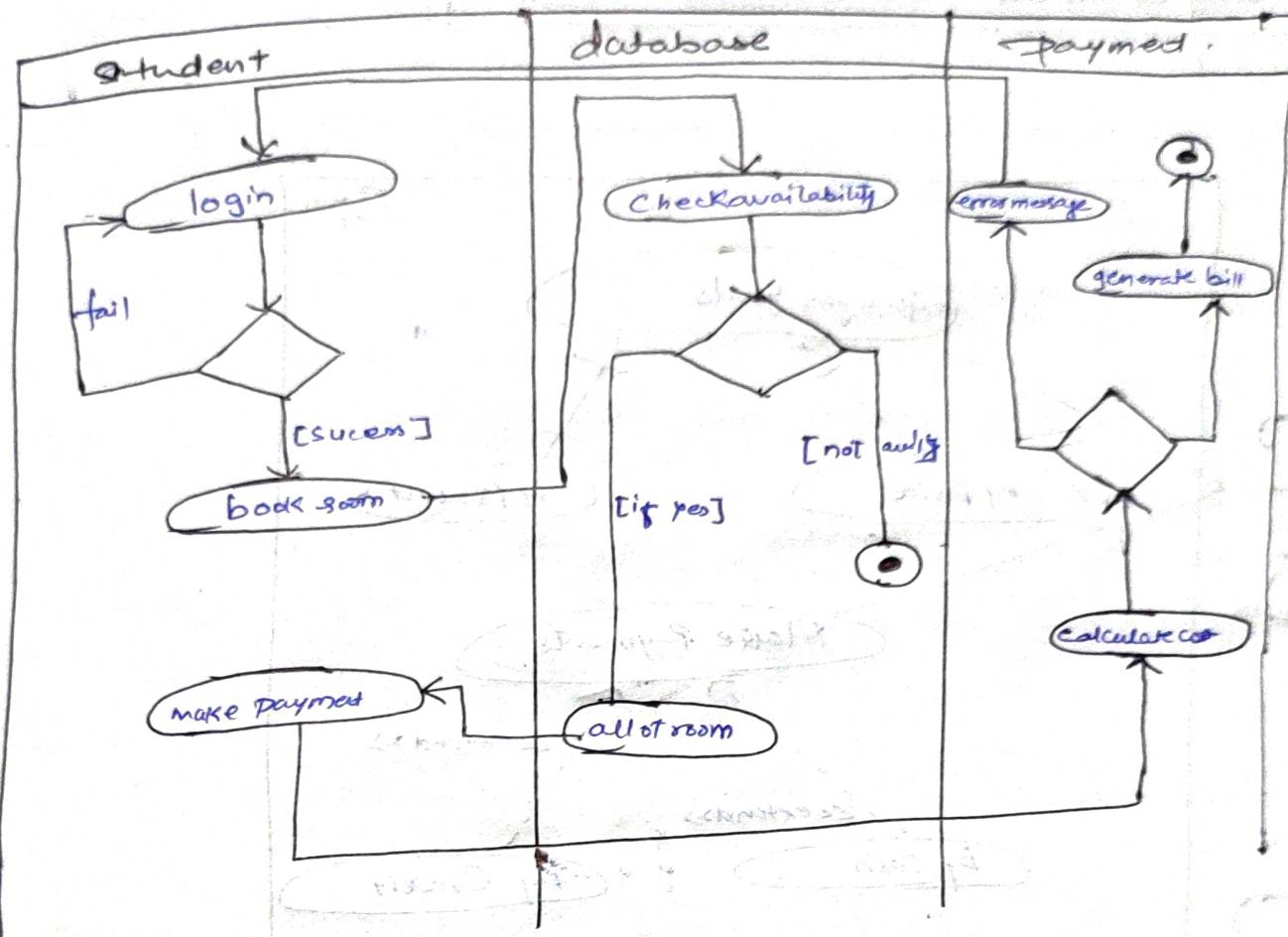
### 3. Advance Use Case Diagram:-



## 4. Advanced Sequence Diagrams:-

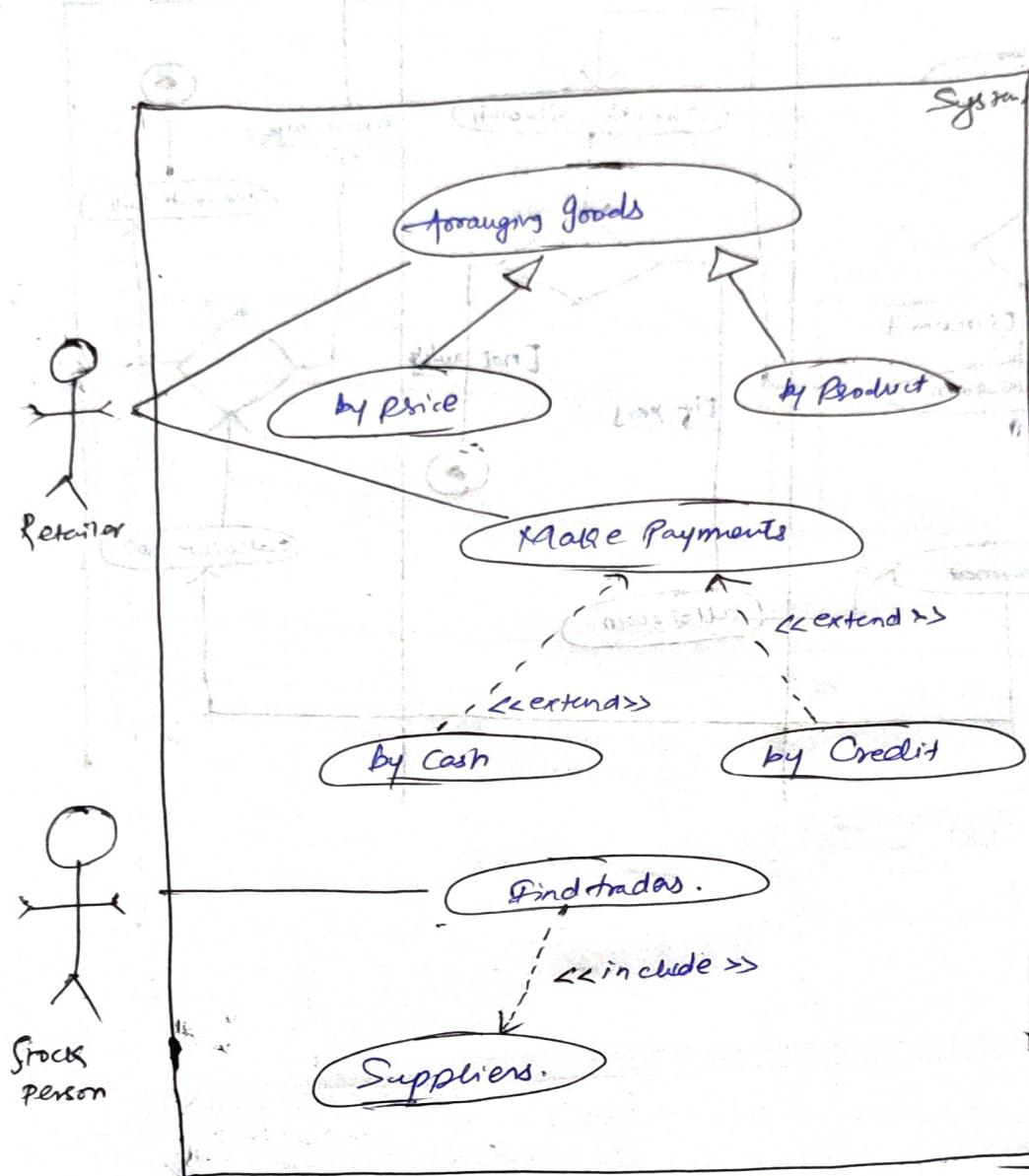


# 5) Advanced Activity Diagram

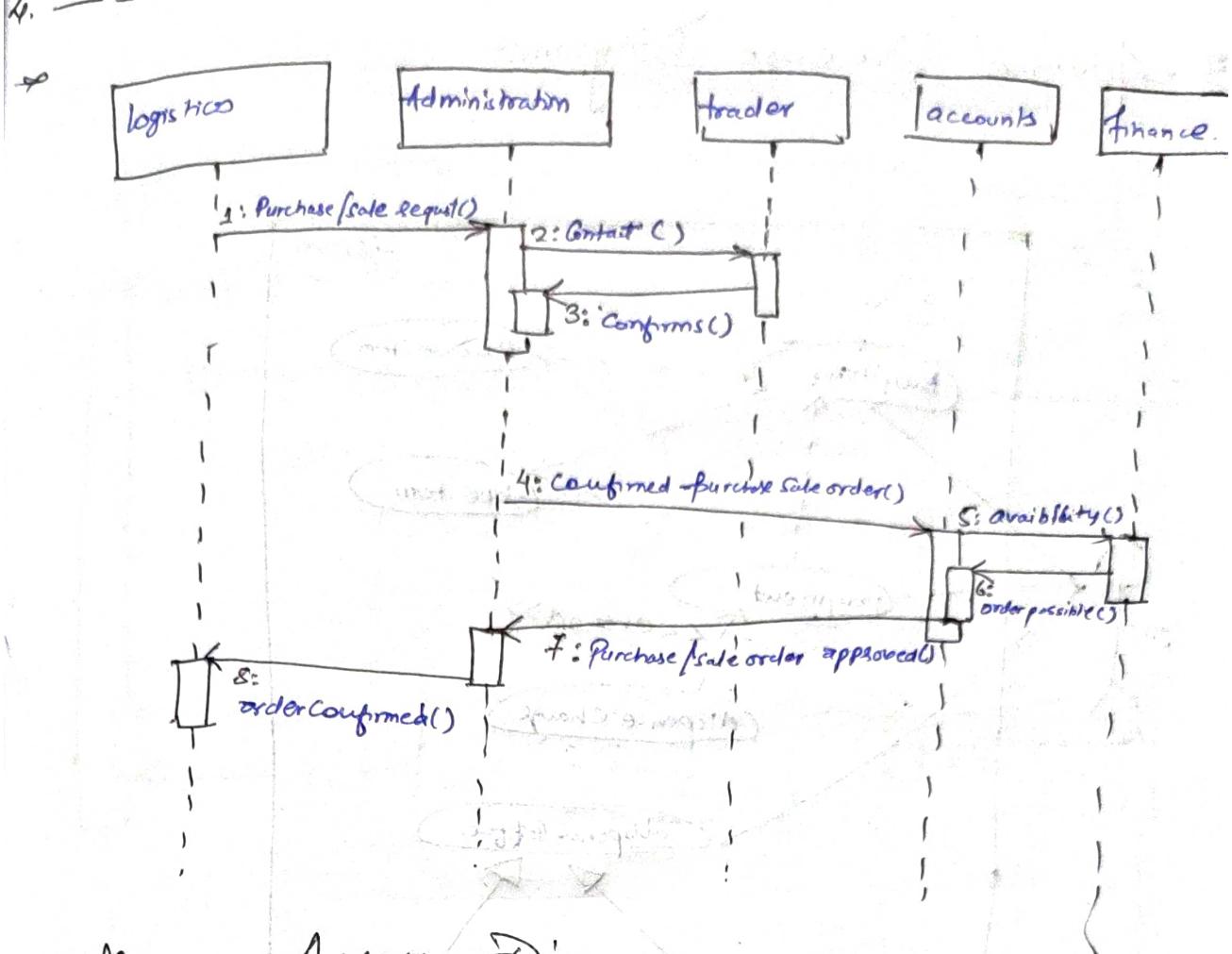


# Stock Management System

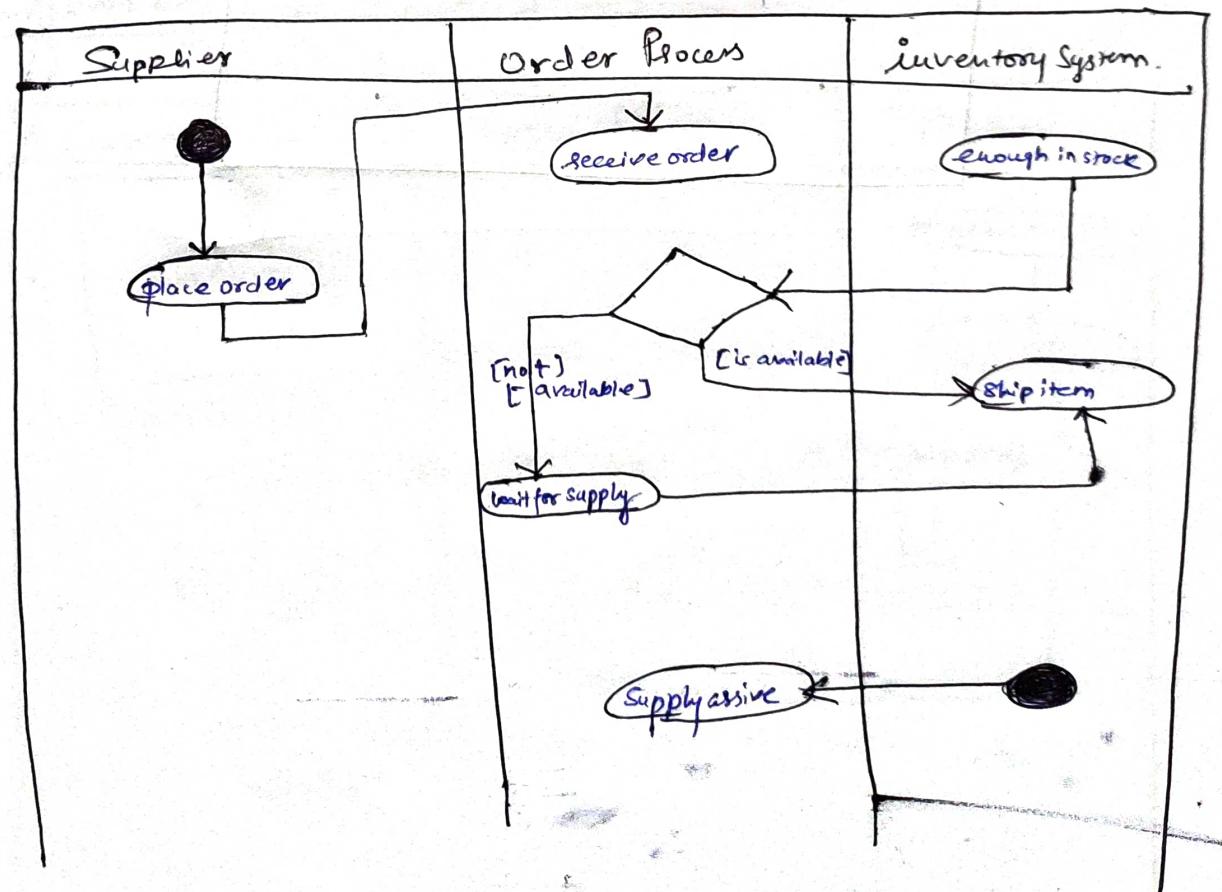
## 3. Advanced Use Case Diagram:-



## Advance Sequence Diagram:-

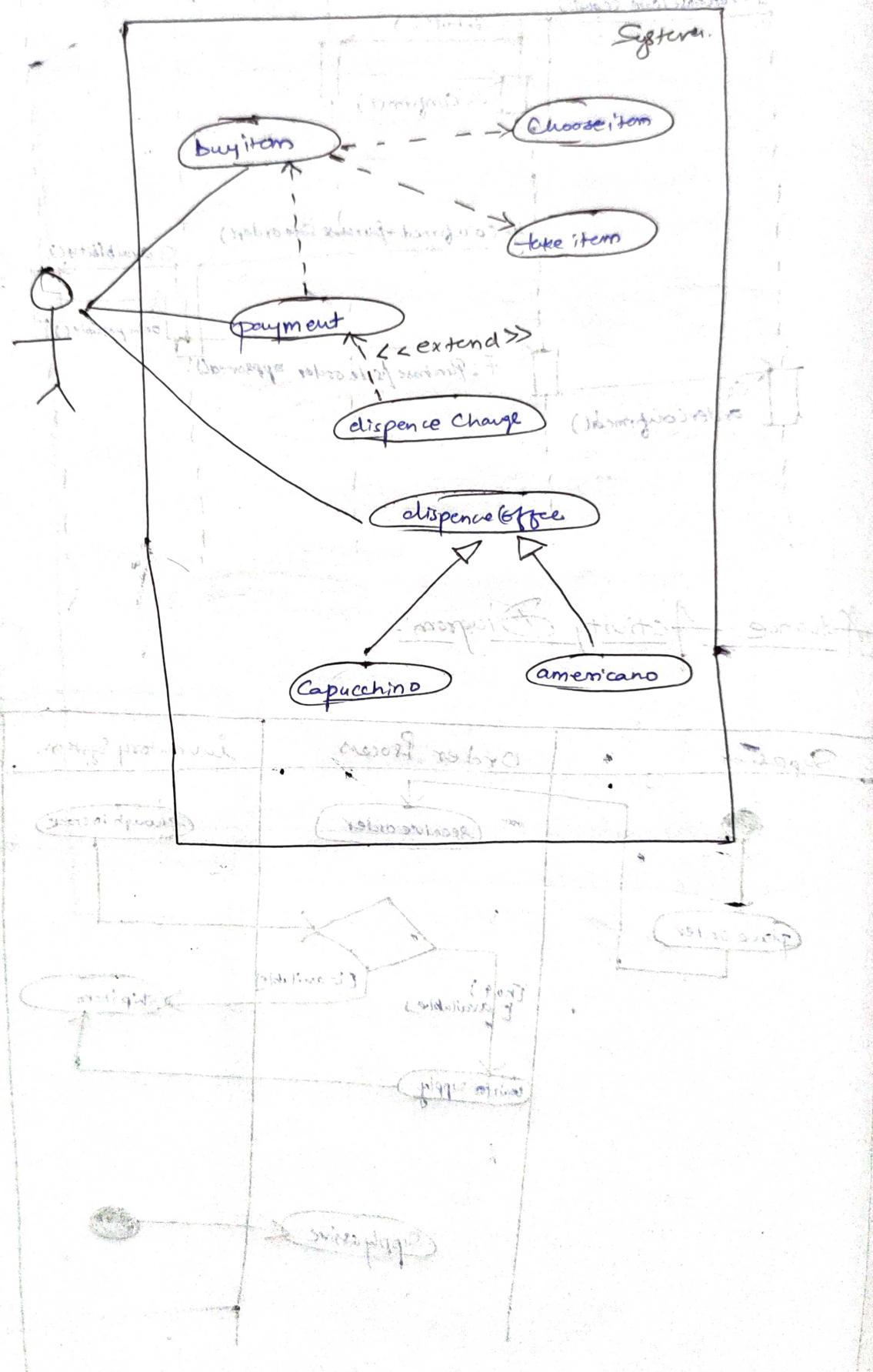


## Advance Activity Diagram:-

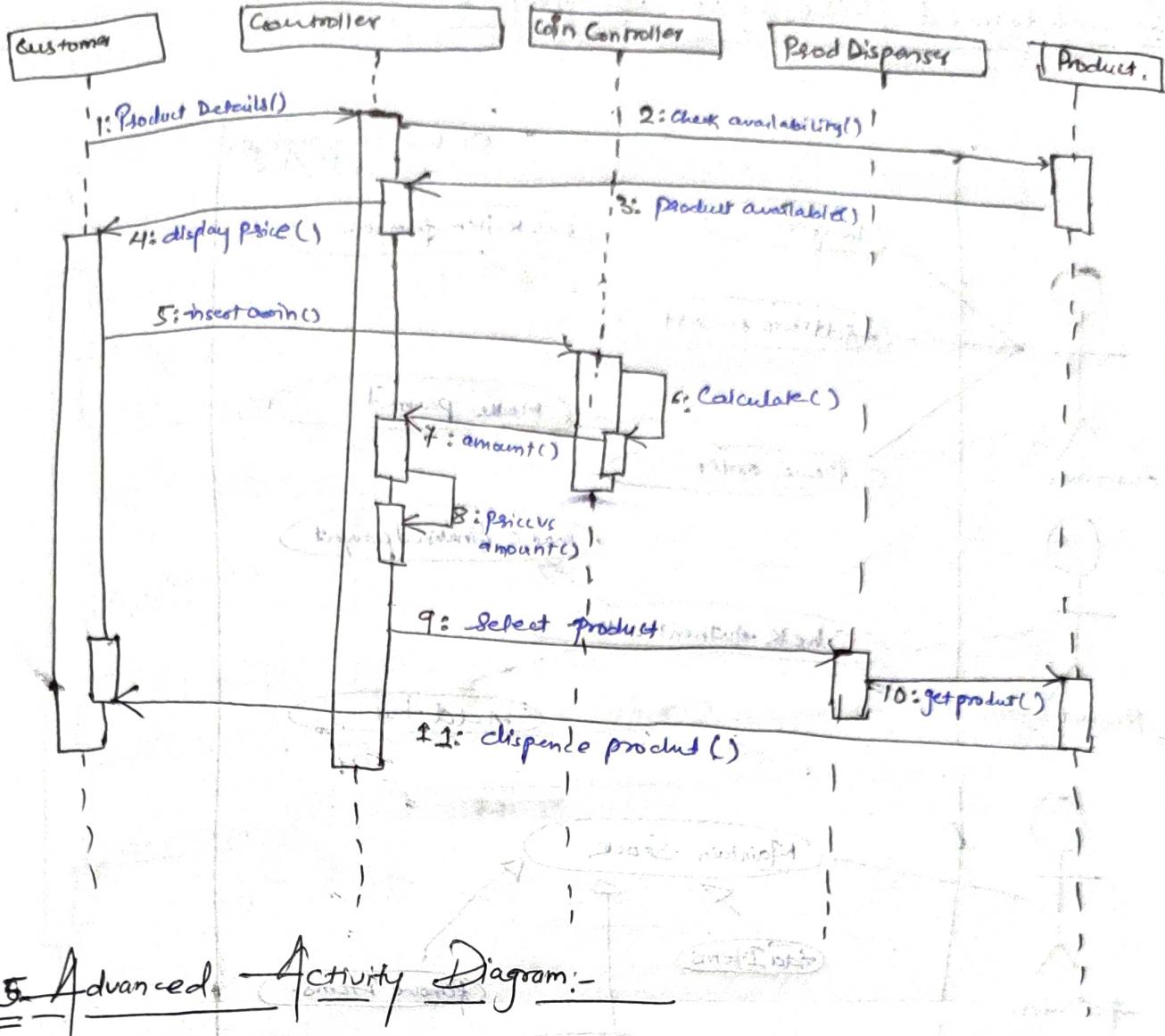


## To Coffee Vending Machine:-

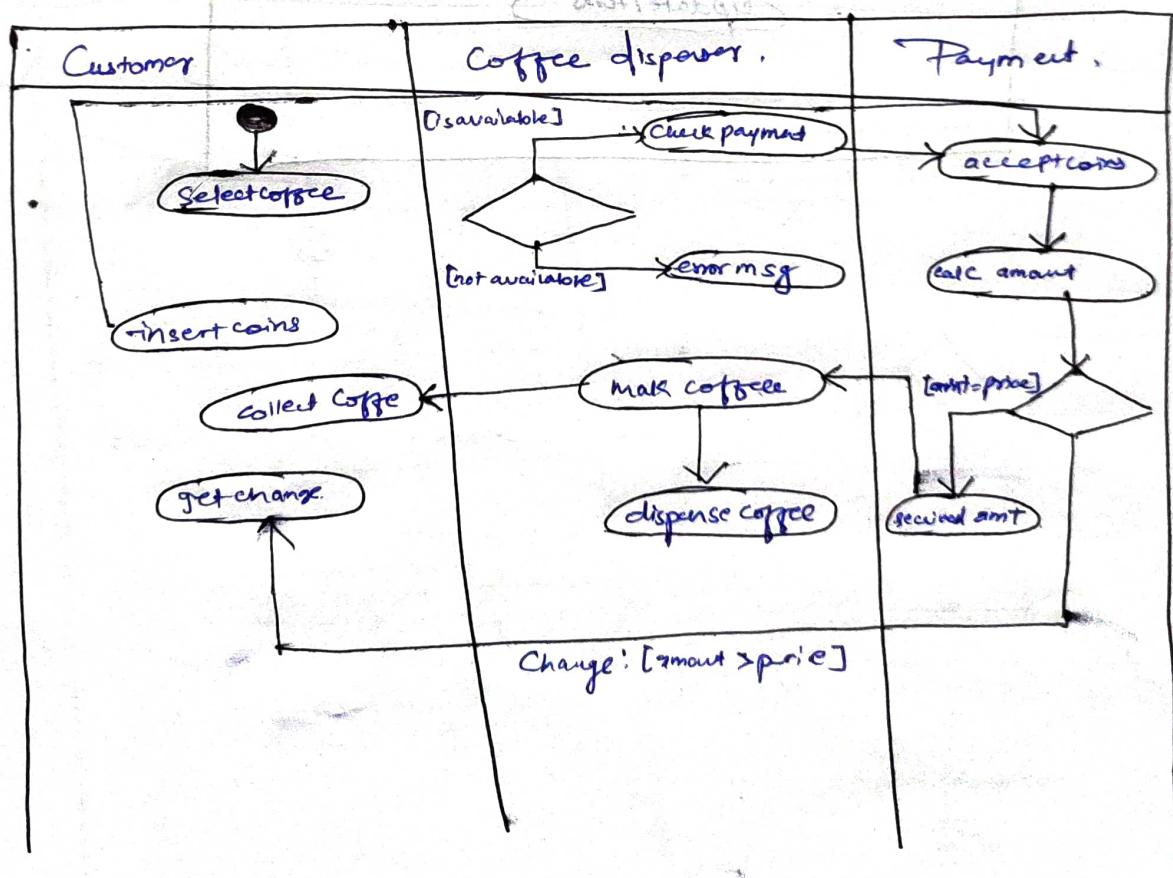
## Advance Use case Diagram:-



## Advance Sequence Diagram:-

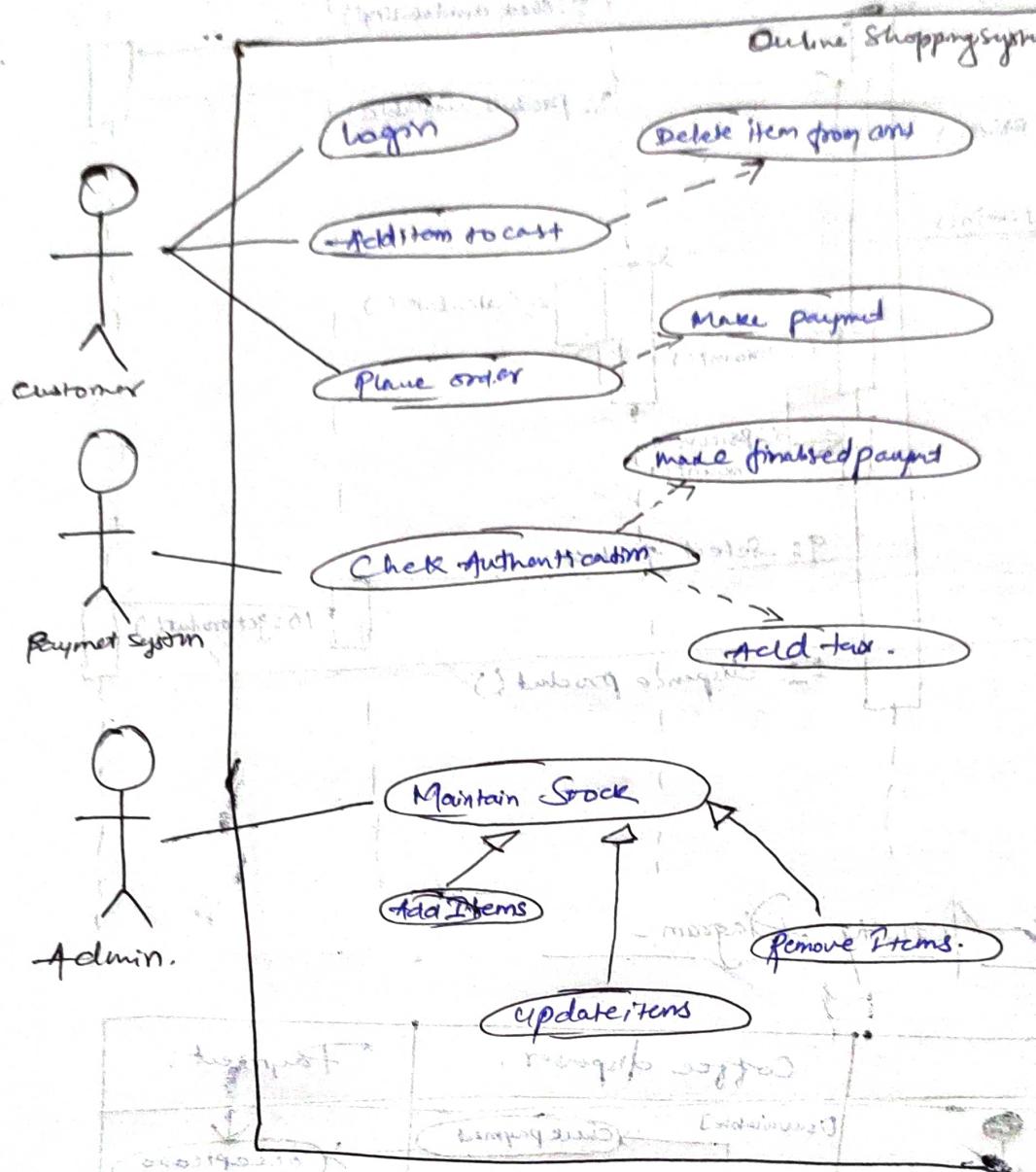


## Advanced Activity Diagram:-

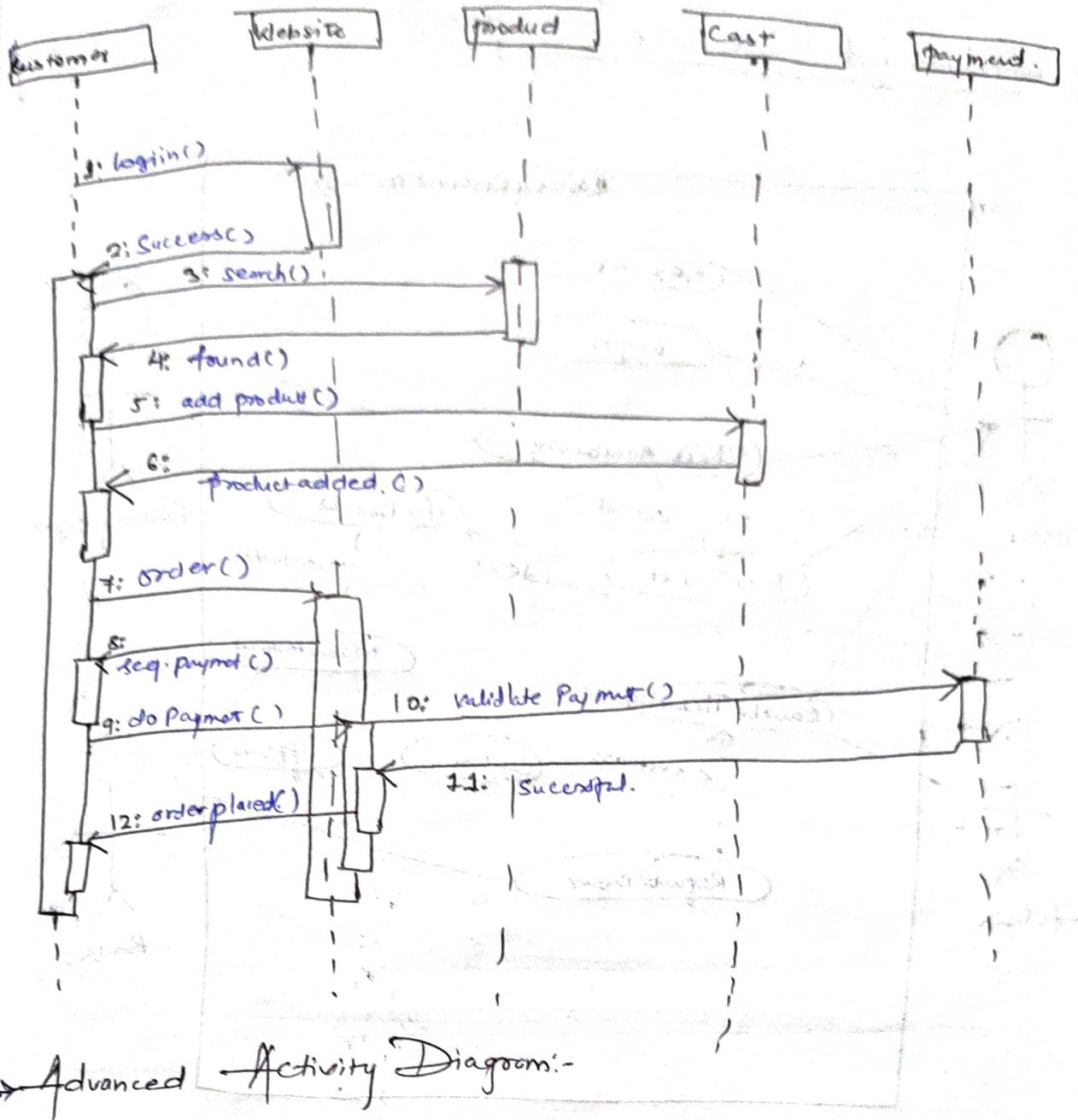


# Online Shopping System:-

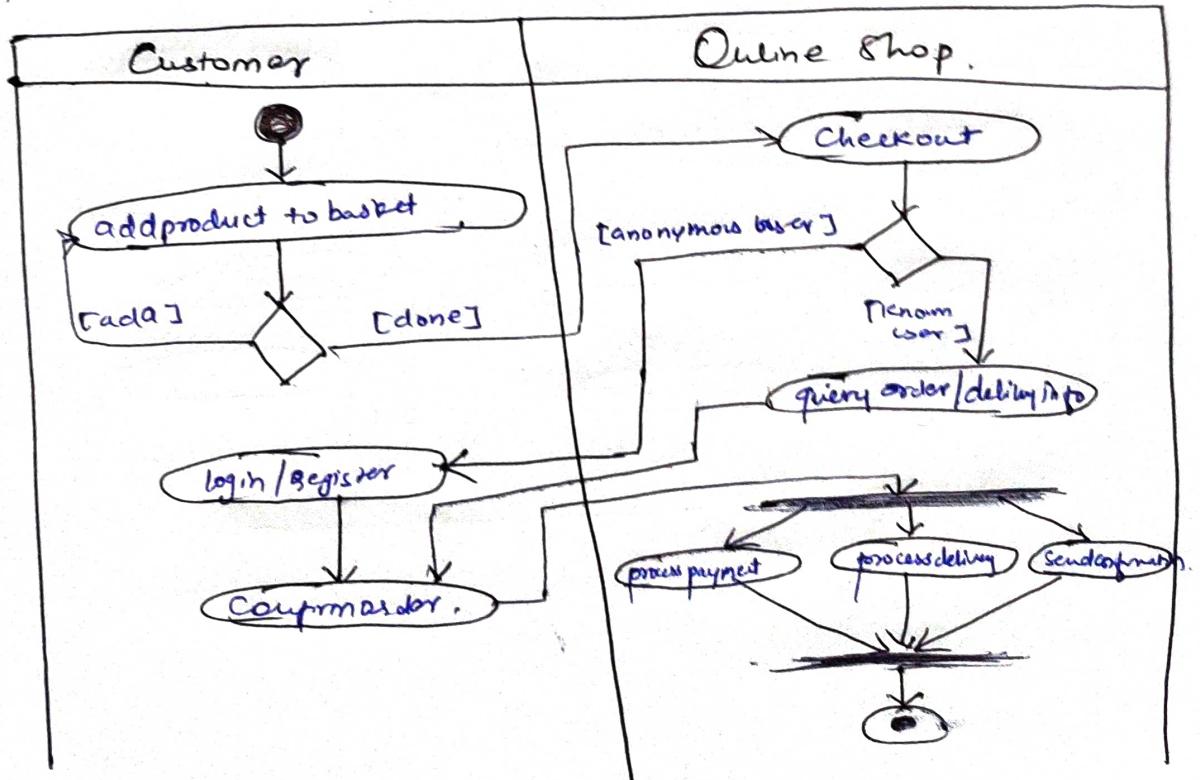
## B. Advanced Use Case Diagram:-



## Advanced Sequence Diagram:-

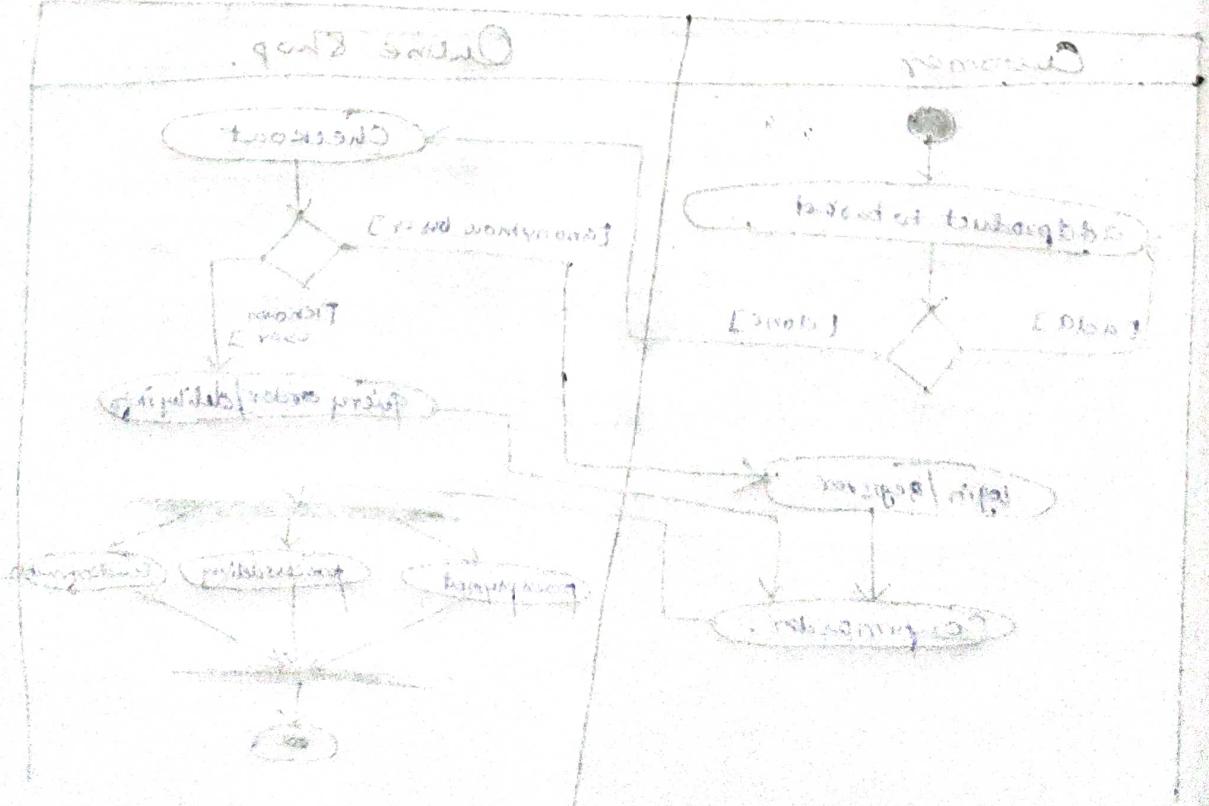
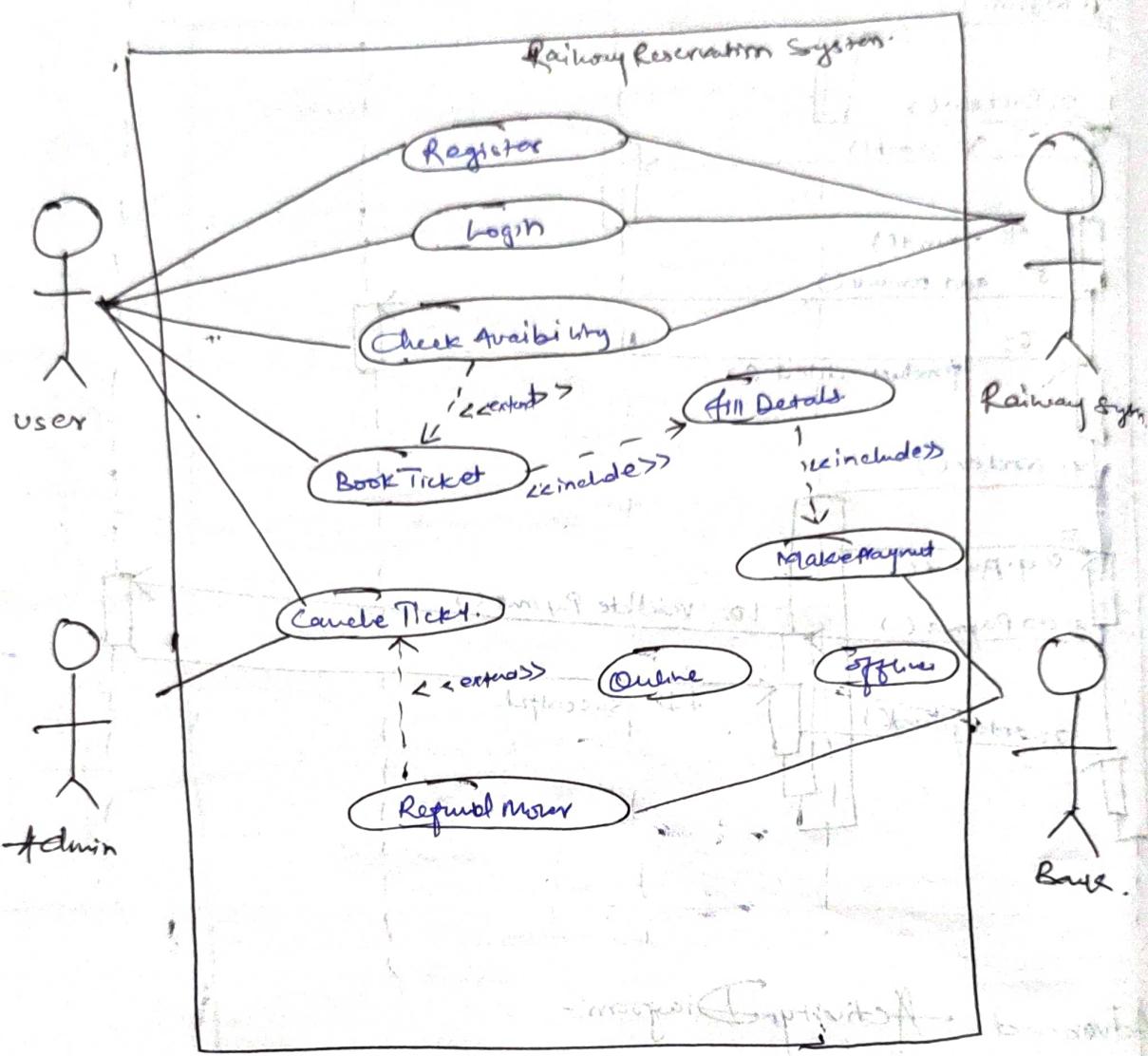


## Advanced Activity Diagram:-

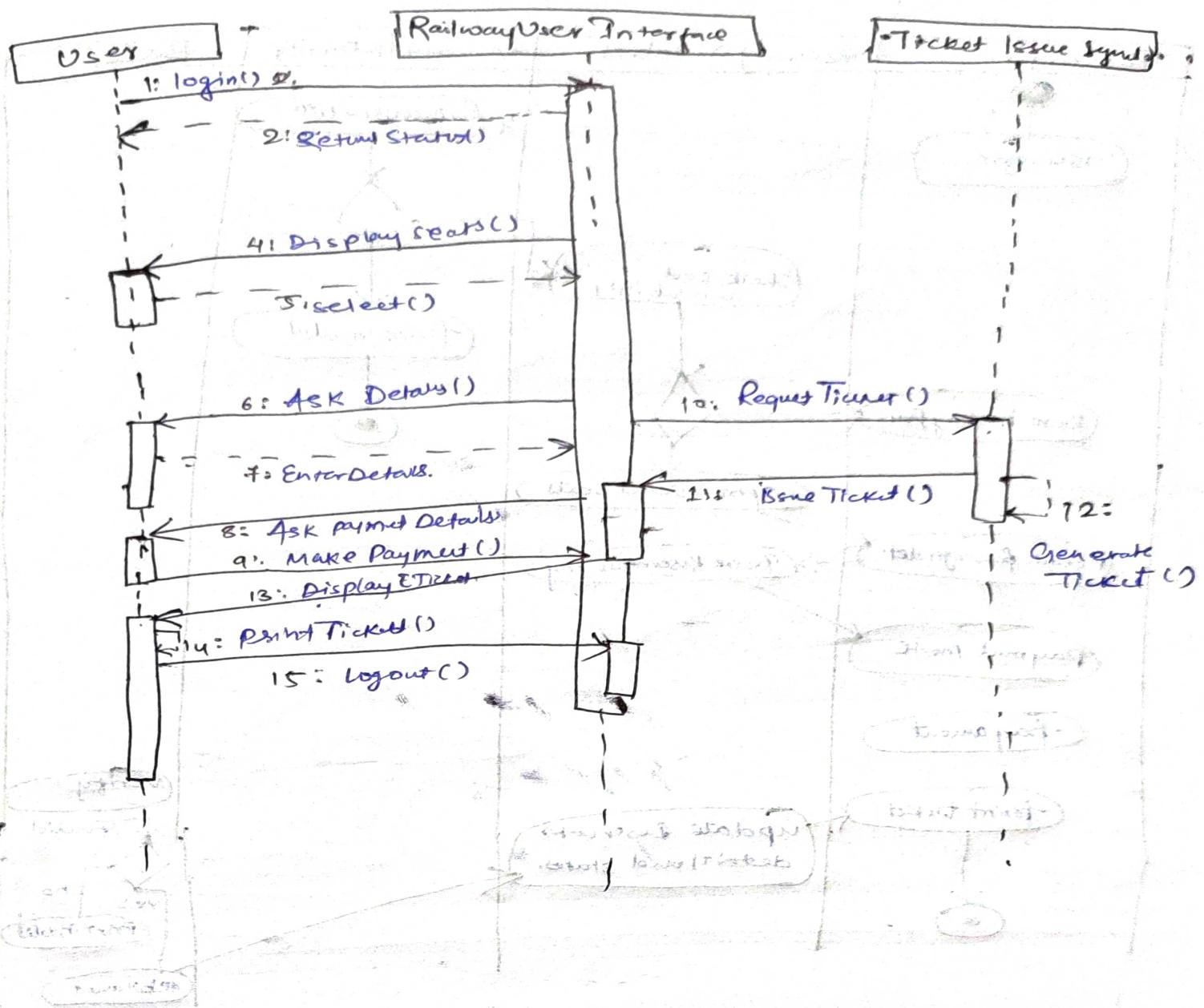


## Railway Reservation System:-

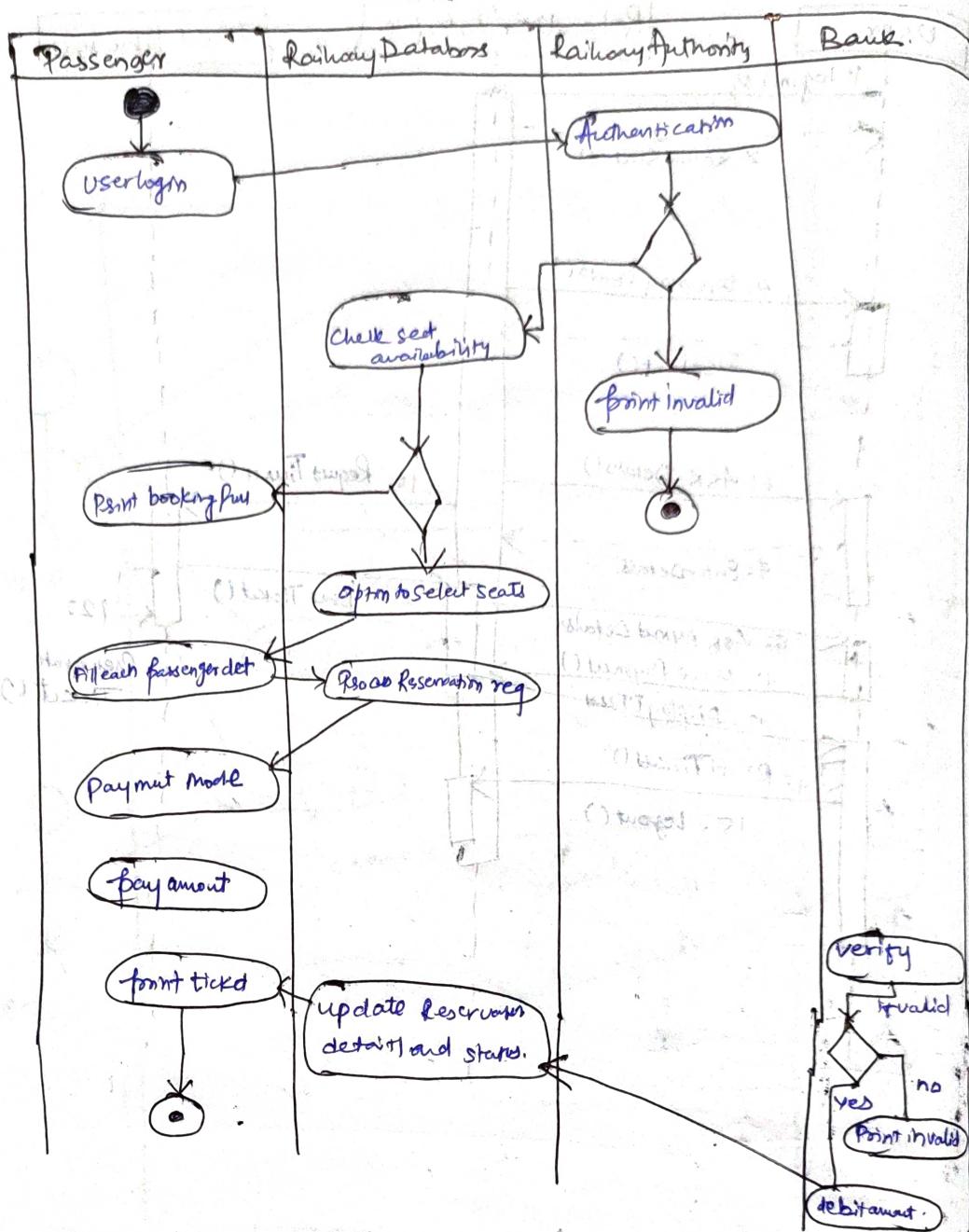
### 3. Advanced Use case Diagram:-



## 4. Advanced Sequence Diagram:-

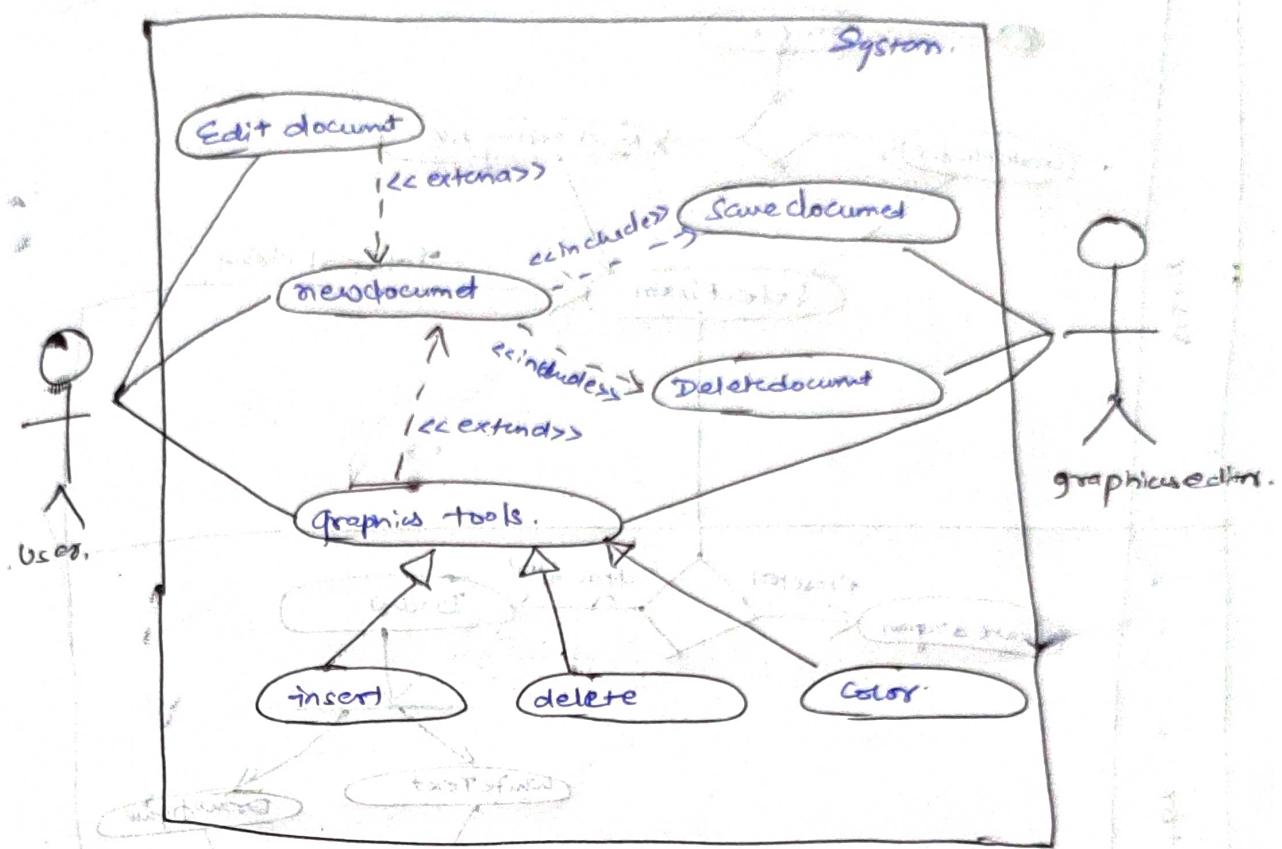


## 5. Advanced Activity Diagrams:-

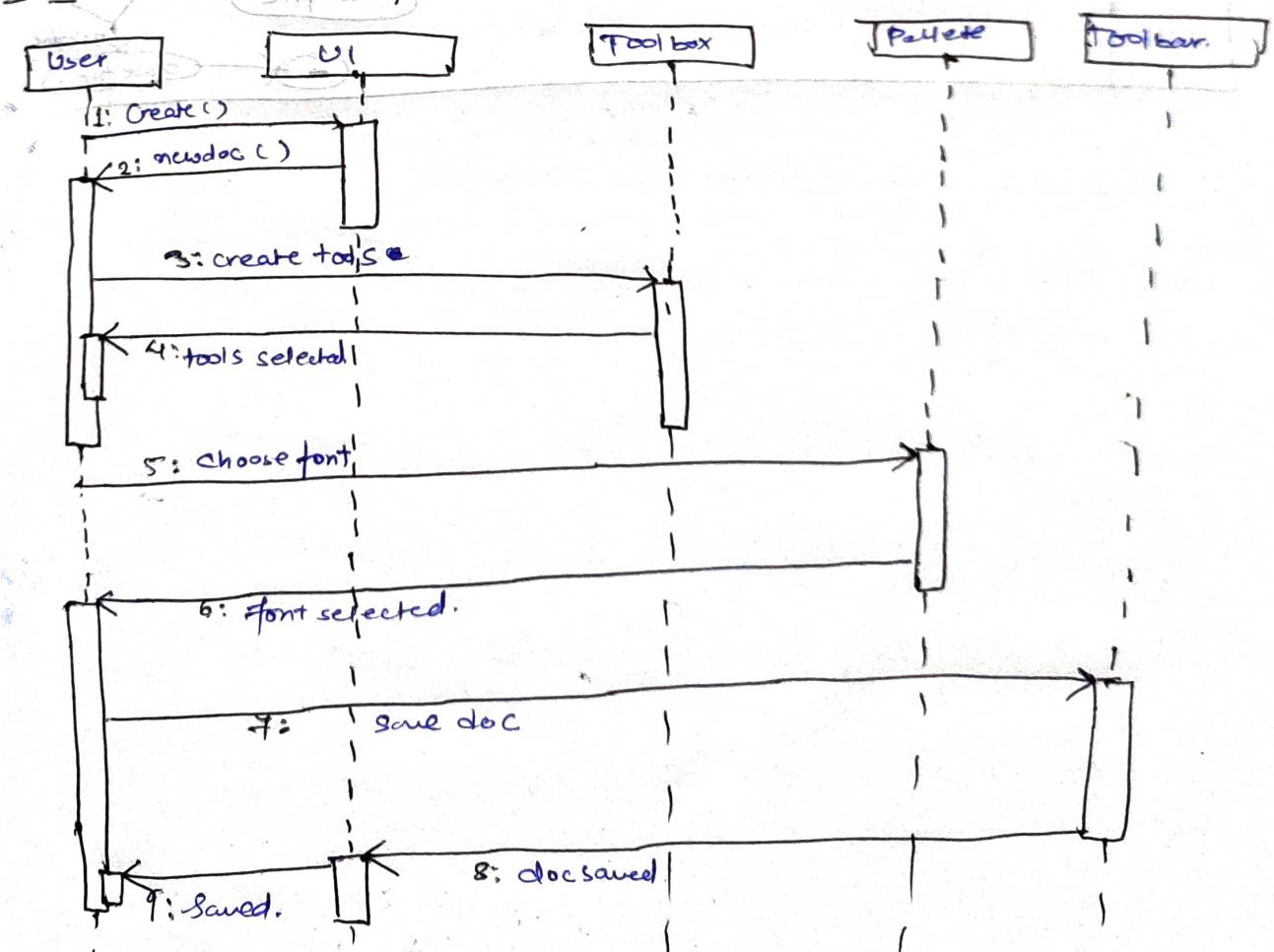


## Graphics Editor:-

### 3. Advanced Use Case Diagram:-



### 4. Advanced Sequence Diagram:-



# Advanced Activity Diagram

