

## Assignment - I.

Q.1 Apply the concept of RMMM on social networking sites.



- The goal of RMMM is to identify as many potential risks as possible.
- There are three issues which ~~are~~ are considered in effective strategy.

### 1 Risk Mitigation -

- It includes a proactive approach to prevent risks.

### 2 Risk Monitoring -

- Project manager monitors factors which indicates the risk is becoming more or less.

### 3. Risk Management -

- It assumes that mitigation efforts have failed and the risk has become a reality.

## Applying Concept of RMM on Social Networking Site. (Amino App)

Risk No.1 :- No Notification / late notification

- Mitigation - No notification or late notification is critical, A late notification will result in a late communication between users. Users may face several problems for not getting notification on time, which will affect on the grade or may receive negative feedback due to this problem. Developers have to take some steps to avoid this risk or to ensure users for getting timely notifications.

- Monitoring - A team of developers will encounter this risk and try to established a new status for the risk and a project manager will monitor all these activities. If the developers takes too much time to solve these risks, it would indicate a potential and for chances that the risk is becoming more.

• Management - In project development, this risk would be a catastrophic failure. If the risk is not solved on time, it may affect on development team and they will fail to solve the risk. So, to encounter this problem, manager have to sent a request of extension in deadline of project and users have to wait for its latest renewed update to use it properly.

### Risk No. 2 :- Security

• Mitigation - It is important to have a better security for user's account so users can use our networking site without any worry to impose their personal data on the site. If it shows any risk related to the security and leaks users data, then we have to check it properly in terms of security through testing.

• Monitoring - A schedule has been established for developers to go through OWASP (Open Web Application Security Project) process.

All their activities will be monitored by manager and it will show the risk is becoming more or less

- Management - When it comes in security, then it's an critical failure in project. Development team has to solve it before it's deadline. When developers passed the OWASP 10 process, then if team passes the course and manager delivered a risk-free project to stakeholder/customer for users to use it well.

Q2 Apply the concept of change control on online Attendance Monitoring System for introducing required changes.



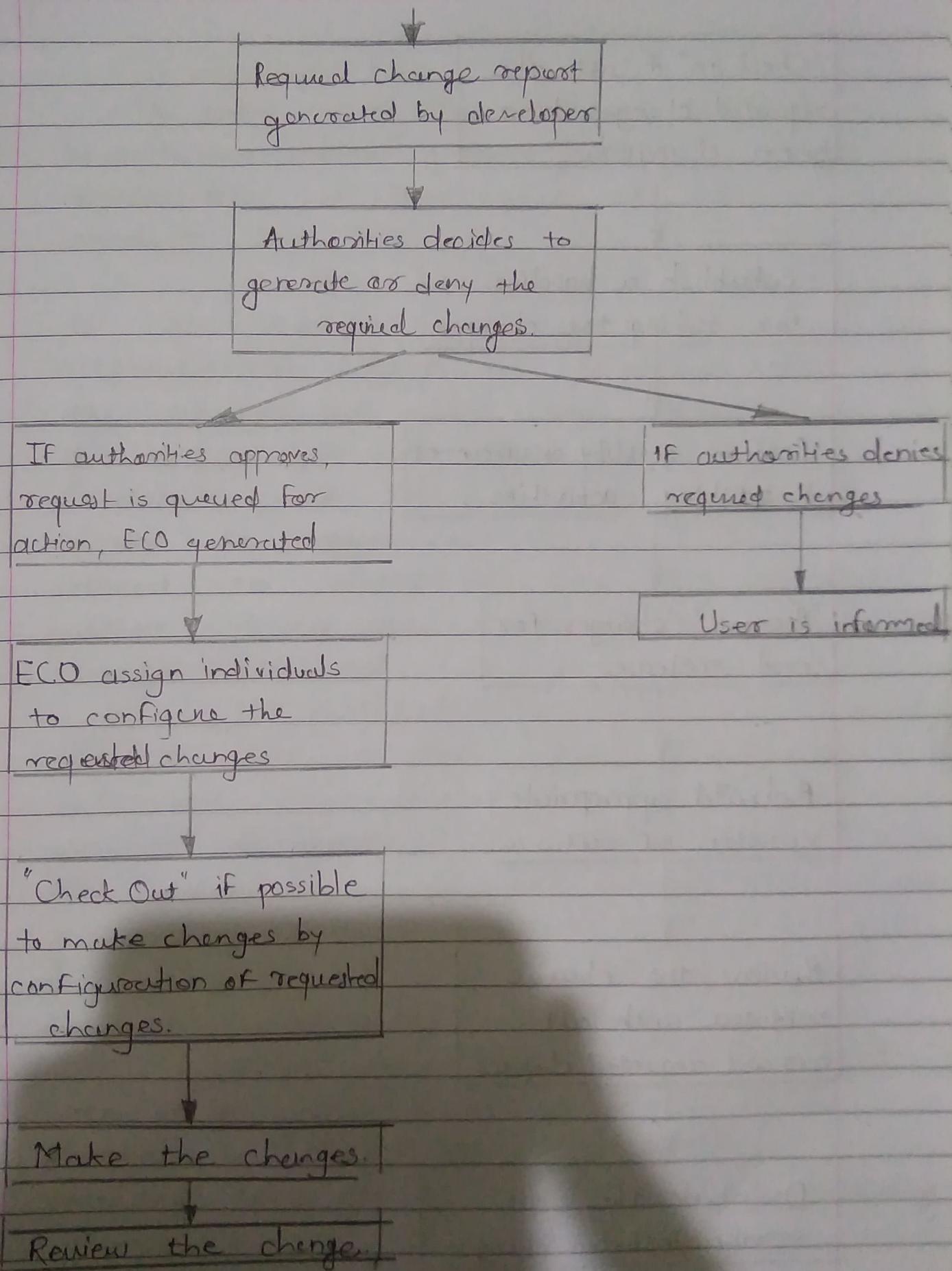
- When there is a change, there is a possibility of risks.
- Change request submitted to access technical merit.
- They evaluates the request and assess technical merit, potential side effects, impact on objects & system function and projected cost will changes as per the requirement for required changes.

Applying concept of change control on online attendance monitoring system:

Need for Change  
in attendance list recognized.

Change in list  
Request from user to devel."

Developer evaluates required changes



"Check in" if all the requested changes have been changed.

Establish a baseline for testing the changes.

Perform quality assurance & testing activities

"Promote" changes for next release.

Rebuild appropriate version of software

Review the change software with all required requested changes.

Distribute the new version included changes.

A user using an online attendance monitoring system, but having some difficulties to sort out all the students in list.

He needs some changes in his system like sorting by alphabetical order. He recognized all the changes he need and then sends a request to developer. Developers evaluates all the required changes & make a report on it which is passed to authorities and they decides whether it is possible to make required changes or not.

If authority denies all the required changes, then it sent back to user to informed him. If authority accepts and decides to generate the required changes, then the request is queued for action by engineering change order (ECO). They assign individuals to configure the changes and check out all the configuration objects.

After configuration, changes has been made and it passed to review the changes by developers. All the required changes have been check in after configuring them.

for testing the changes, a baseline is established which performs quality assurance & testing activities. If the changed version is passed then it gets promoted to release it in next new version. Developers rebuild the software with appropriate version. New software is sent for review the changes which ~~were~~ required & configure all the items. At last, the new software is released to use for users with all requested required changes.

## Assignment No. 2.

Q.1 Prepare SRS document on Online Pharmacy System



Title - Online Pharmacy Management System

Table of Content -

1. Introduction -
  - 1.1 Purpose
  - 1.2 scope
  - 1.3 Definition, Acronyms & Abbreviation
  - 1.4 References
  - 1.5 Overview
- 2 Overall Description -
  - 2.1 Product Perspective
  - 2.2 Product function
  - 2.3 User characteristics
  - 2.4 Constraints
  - 2.5 Assumptions & Dependencies.

- 3 Specific Requirement -
  - 3.1 External interface
  - 3.2 Functions
  - 3.3 Performance Requirements
  - 3.4 Logical Database Requirements
  - 3.5 Design Constraints
  - 3.6 Software System Quality Attributes
  - 3.7 Object Oriented Model

4 Appendices

5 Index.

## 1. Introduction

An online pharmacy is allows user to consume information from anywhere through online. This application helps users to fulfill all their requirement while admitting themselves.

- Purpose - This software allows user to consume pharmacy from anywhere through online.
  - It also allows user to fulfill their requirement.
- Scope - It is an online pharmacy, which provides medicines to consumers through mail & shipping by using internet.
  - It has cut down to chain of distributors and directly provides to users at less price.

- Definitions, Acronyms & Abbreviations - It's is a web application that provides online medical service for people
  - It's acronyms is global as OPS (online Pharmacy System).
- References - Object Oriented software Using UML Pattern & Java 3rd 2012
  - cybermedicine; How computing empowers doctors and patients for better health care
- Overview - It is built in order to replaced manual based system.
  - This management system is supposed to efficient, useful and affordable.
  - It implements easily by one pharmacy manager

## 2. Overall Description

- Product Perspective - These online pharmacy system is a stand-alone system
  - It has fulfilled all the stakeholders requirement as per need.
  - As a hardware, computer is used to run this soft in medical stores.
  - As per software interface, it includes medicine stocks, customers info, billing data in databases.

- Product function - Stock Record Management System
  - Customer information & Billing System
  - Sale and Supplier Management system.

- User Characteristics - Education about some technical terms - Little.
  - knowledge about computer - Little
  - Technical experience - none
  - Some knowledge about operating computer.

- Constraints - A proper operating system.
  - + target platforms - chrome, firefox
  - It's database will supports less than 1000 columns.
  - It will required internet to store all the data into databases
  - It must ensure that high standards of service and care.

- Assumptions and Dependencies - It does not need to store all generated reports

- All the customers critical information are not necessary to include in it.

### 3. Specific Requirements.

- External Interface - It has a hardware component which include RAM, hard disk, printer & swipe machine and other computer required components
  - Also JDK and SQL/MySQL as a software components
- functions - Searching for required medicines as per need of customer
  - stock reports
  - suppliers or customers information
  - online payments through various portals.
- Performance Requirement
  - pentium II or more than that processors
  - 512mb or more than that of RAM.
  - 800\*600 or more than that of screen resolution display/monitor.

- Logical Database Requirement -

- These software have to access to the computer's storage or databases
- Also, if there's an external storage, it has to allow software to access it.

- Design Constraints - These software could be web based, so any user can go through it by browsing, so they don't any required devices or software.

- Software System Quality Attributes -

- Maintainability - User will have some limited period of warranty, if anything happens during that time software get fixed without any charges.

- Flexibility - Any changes that user going to need after delivery, so that changes has to be done without any extra charges.

- Operability. - some peripheral devices can be used to used these software.
- Object Oriented Models. - The online pharmacy system can be understand by diagram and relationship bet<sup>n</sup> classes with one used in software.

#### 4. Appendices

- MySQL - to store information of various objects as a database.
- RAM - Random Access Memory.
- JDK - Java Development Kit
- IDE - Integrated Development Environment

## 5. Index

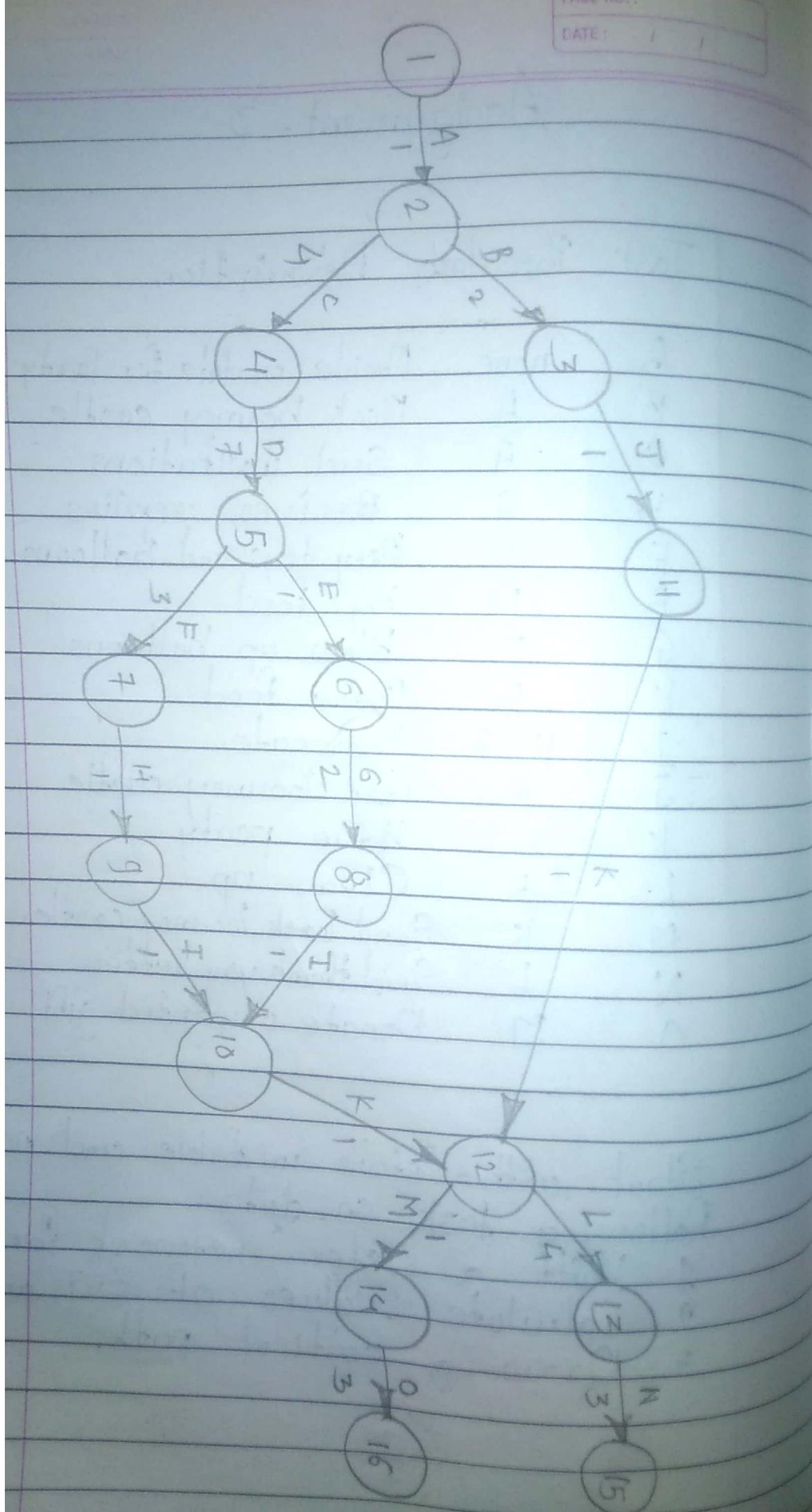
- |                               | Topics          |
|-------------------------------|-----------------|
| 1. functions                  | - 2.2, 3.2      |
| 2. Operability                | - 2.3, 3.3      |
| 3. Overview                   | - 1.5, 2.4, 3.7 |
| 4. Performance<br>Requirement | - 3.3, 3.1, 3.4 |

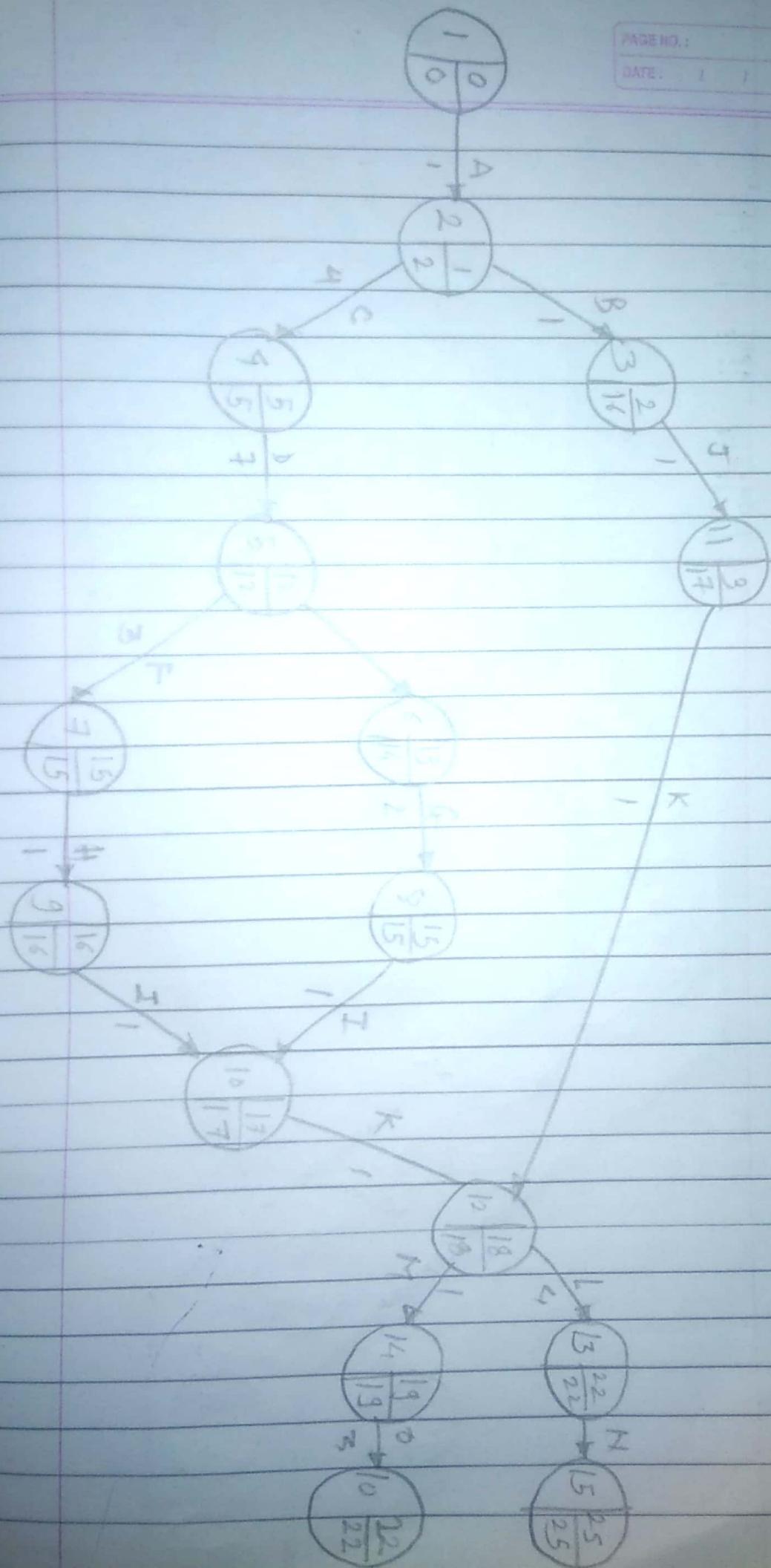
# Assignment - 3

Task	Pre. Tasks	Description	Time (hrs)
A	none.	Decide on date for Party	1
B	A	Book bouncy castle	1
C	A	Send invitations	4
D	C	Receives replies	7
E	D	Buy toys and balloons	1
F	D	Buy food	3
G	E	Blow up balloons	2
H	F	Make food	1
I	H, G	Decorate	1
J	B	Get bouncy castle	1
K	J, I	Have party	1
L	K	Clean up	4
M	K	Send back bouncy castle	1
N	L	Send thank you letters	3
O	M	Donate unwanted gift	3

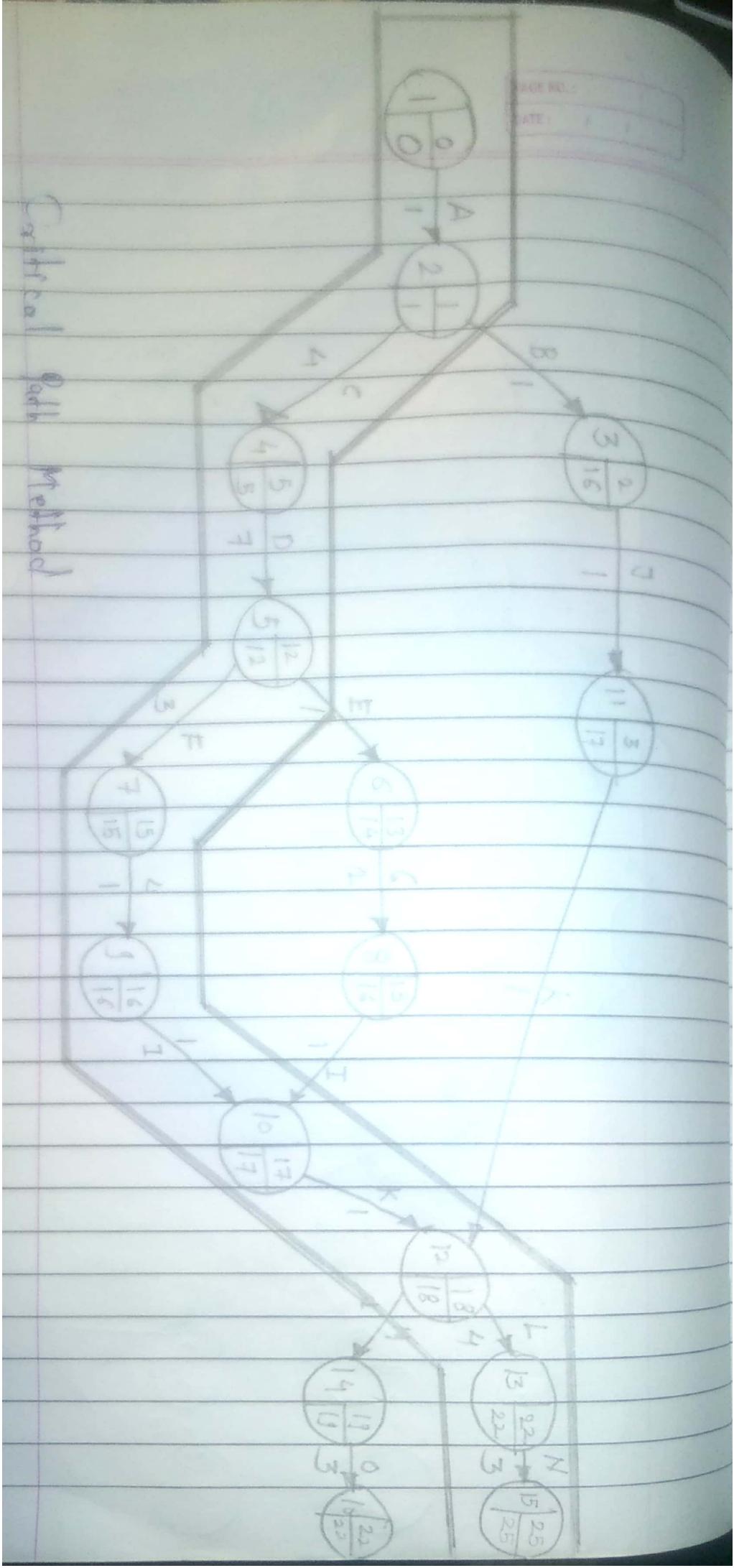
Start with details in table and perform  
 Following task on data

1. built a system network for data
2. Calculate values of ECT and LCT
3. Draw a critical path.





Critical Path Method



CPM

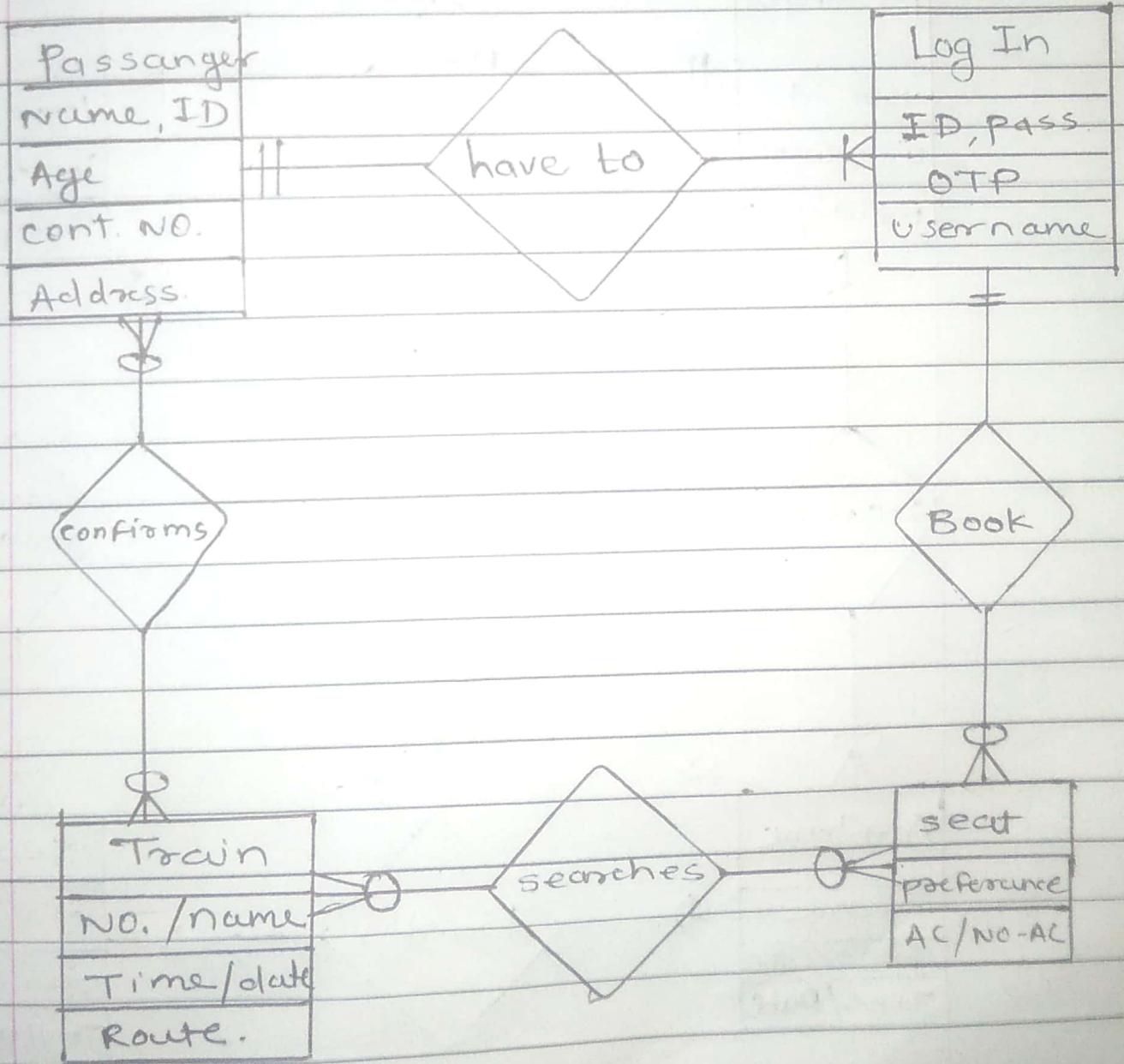
- A - C - D - E - H - I - K - L - N

$$\begin{aligned} &= 1 + 4 + 7 + 3 + 1 + 1 + 1 + 4 + 3 \\ &= 25 \end{aligned}$$

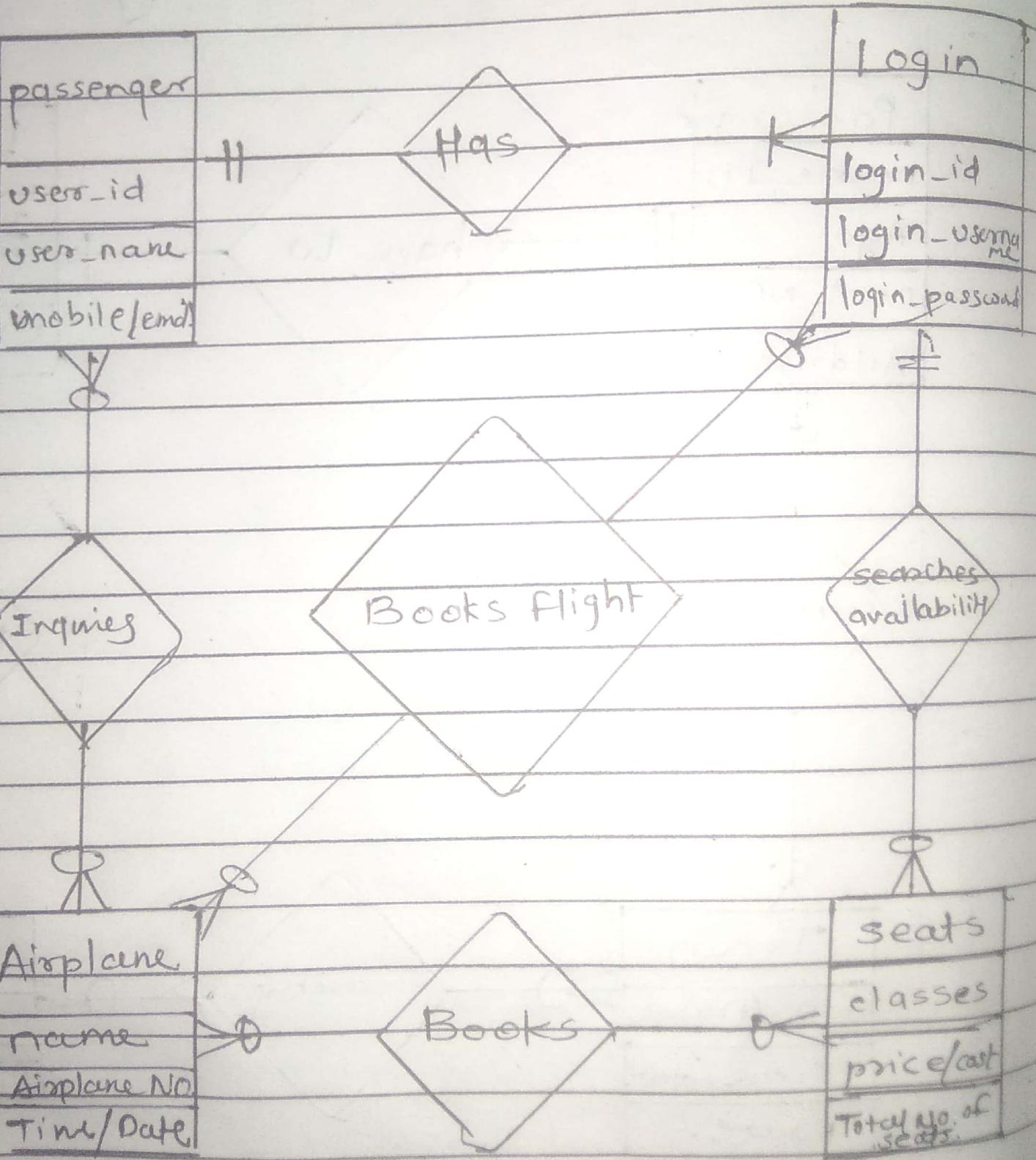
# Assignment No. 04

Q.1 Prepare ERD (Entity Relationship diagram)

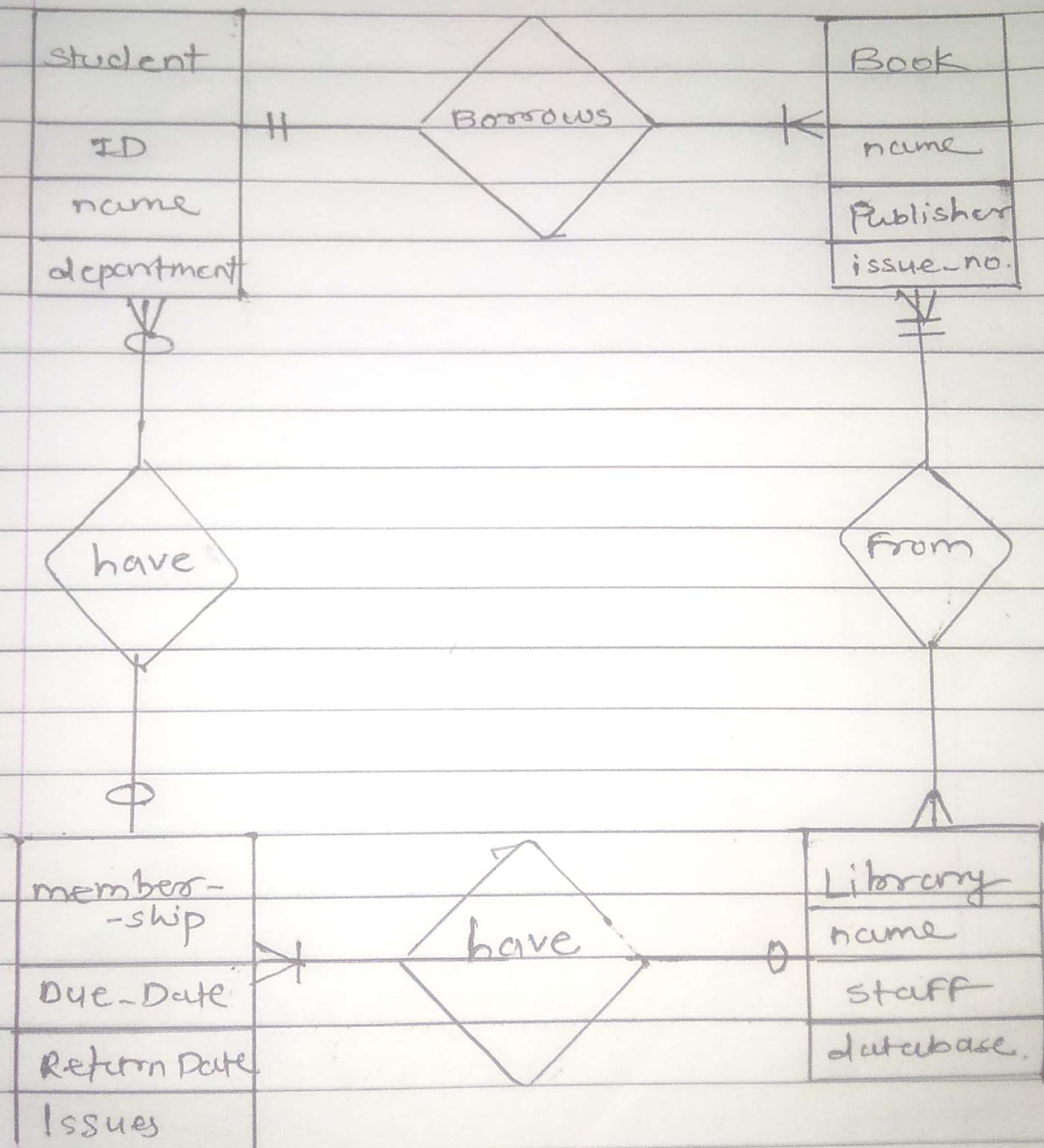
• Online Railway Seat Booking System.



# 4 Online Airplane Ticket booking System



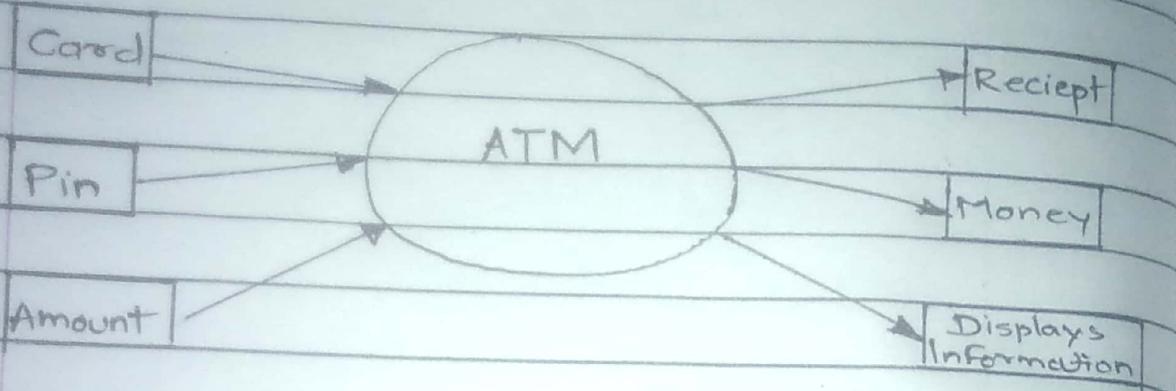
### III. Library management system



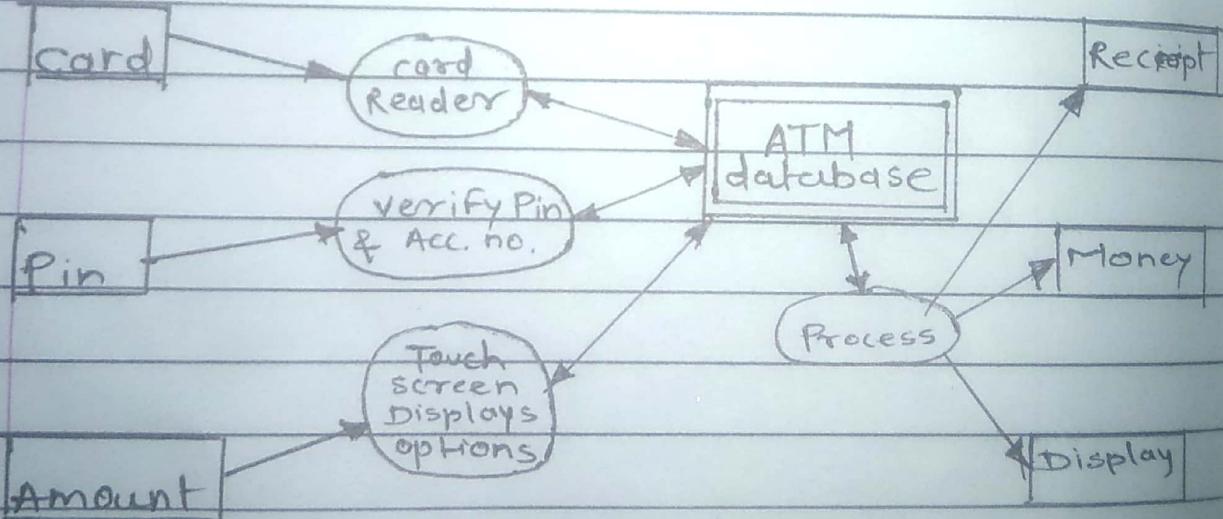
## Assignment - 5

- + Draw a DFD (Data Flow diagram) for ATM system.

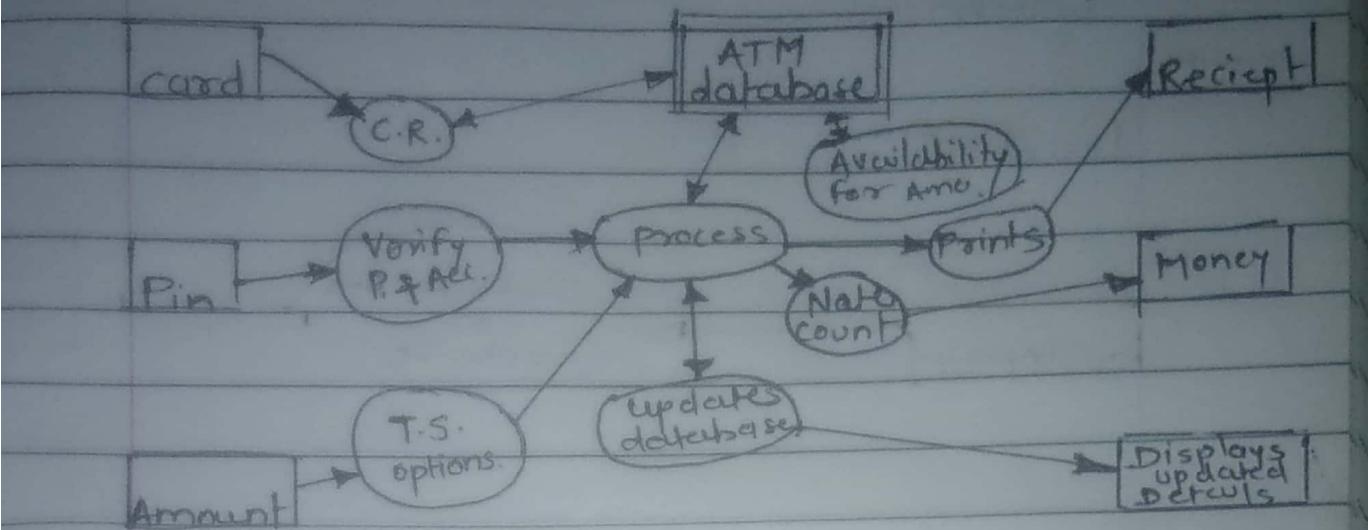
level - 0



level - 1.

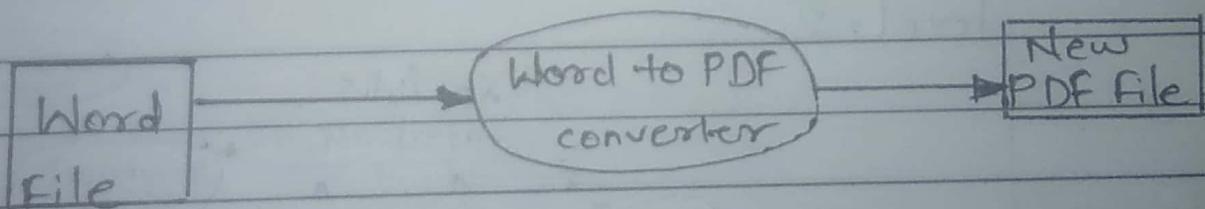


## level - 2

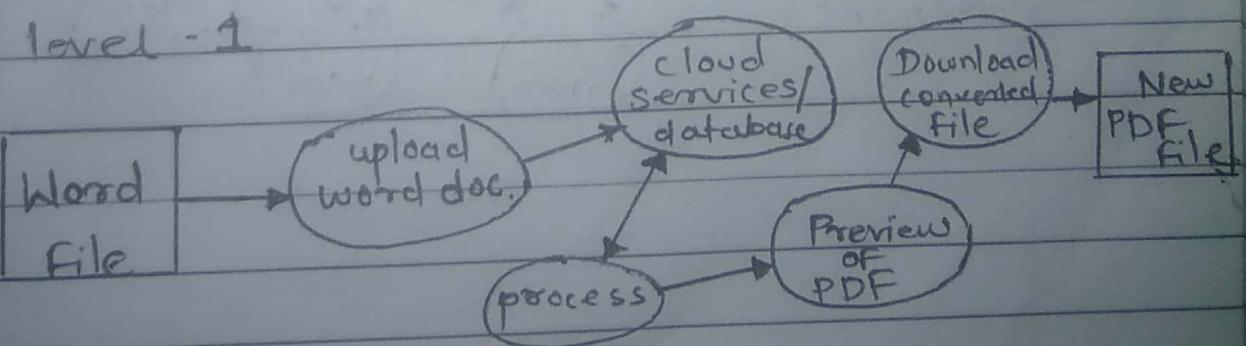


2. Draw a DFD for Online word to PDF converter system

## level - 0

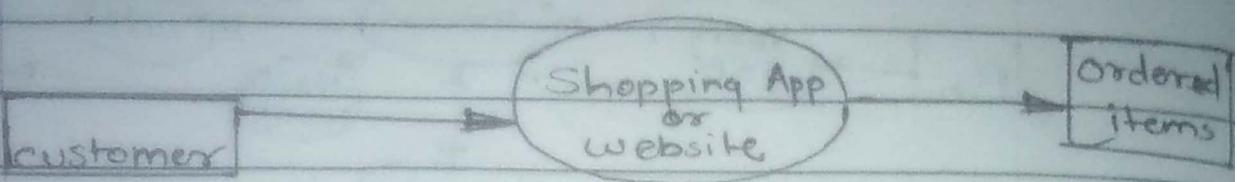


## level - 1

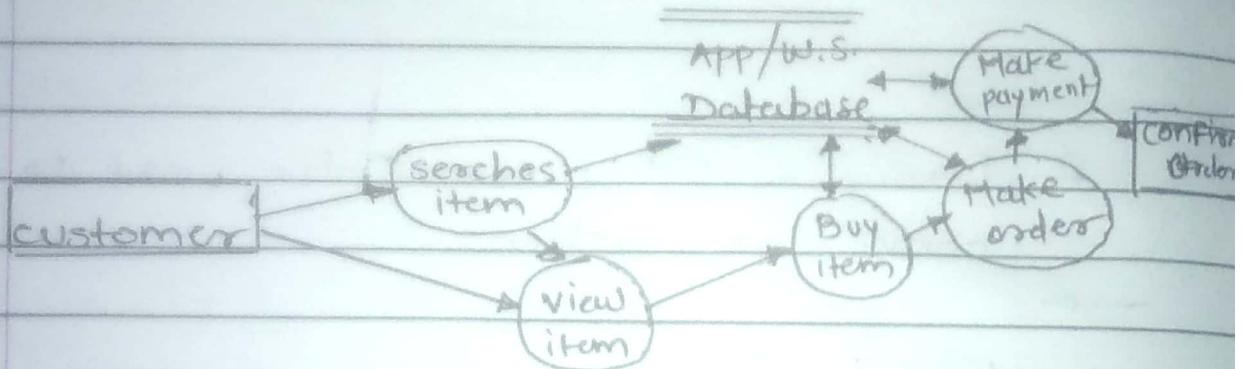


Q. Draw a DFD for online shopping System.

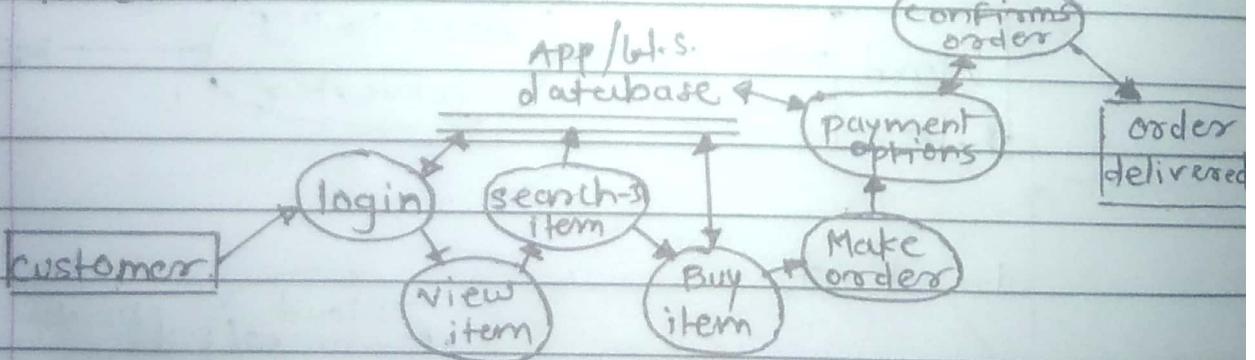
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level - 1

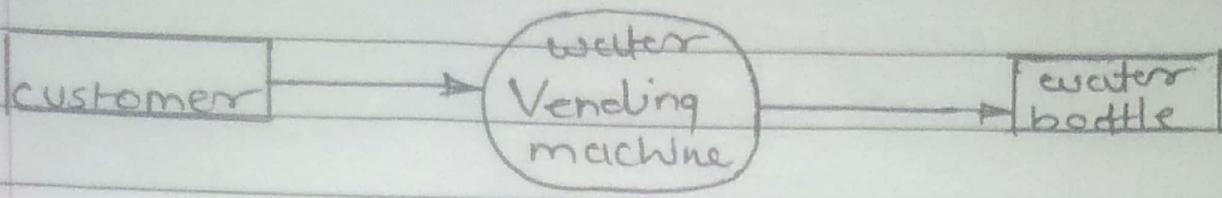


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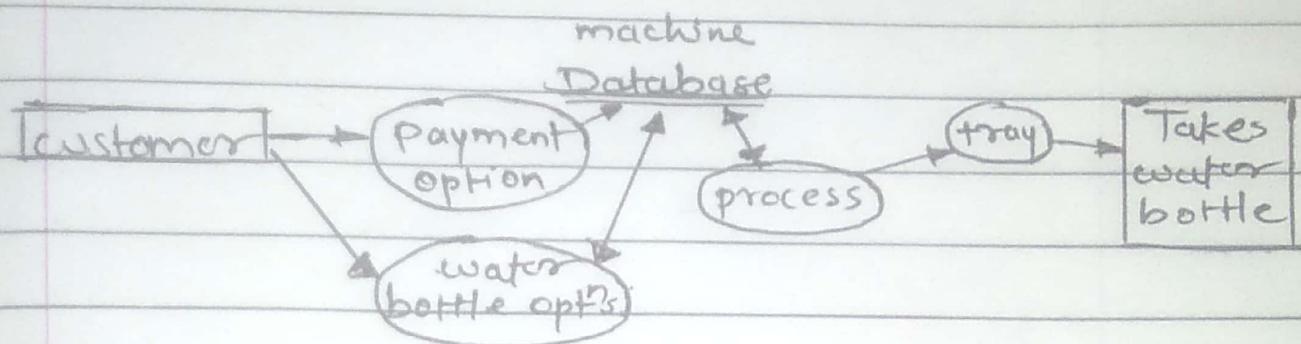


## 4. Water Vending machine

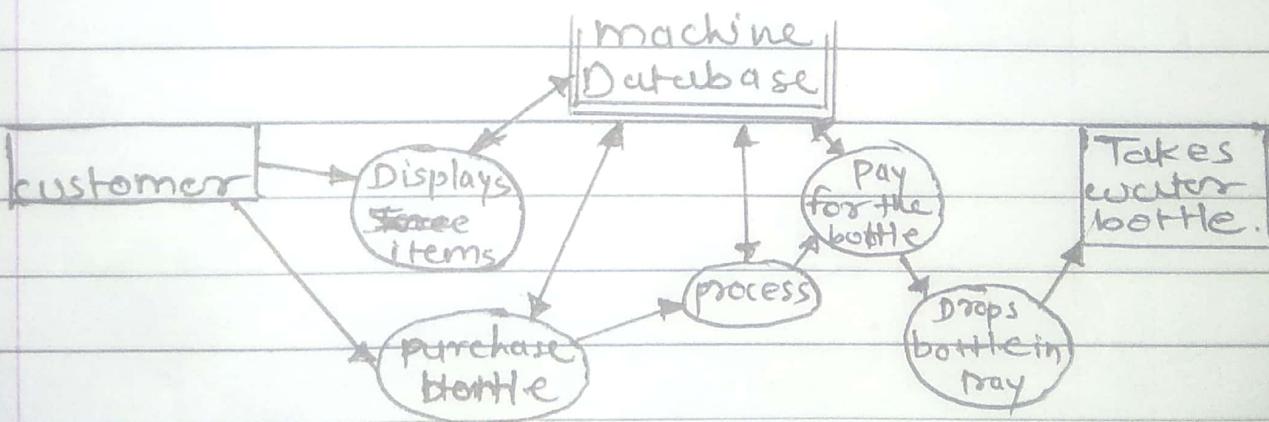
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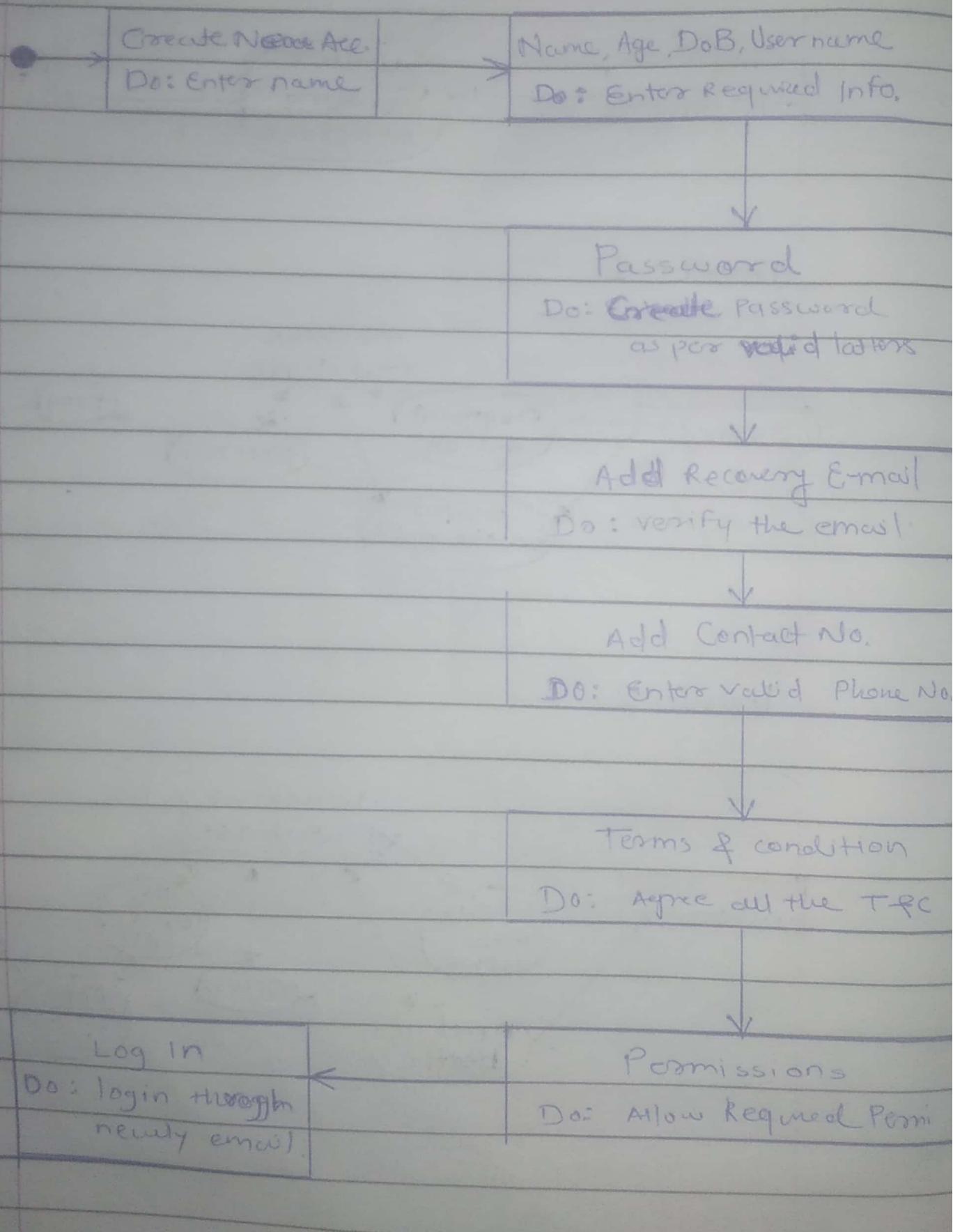
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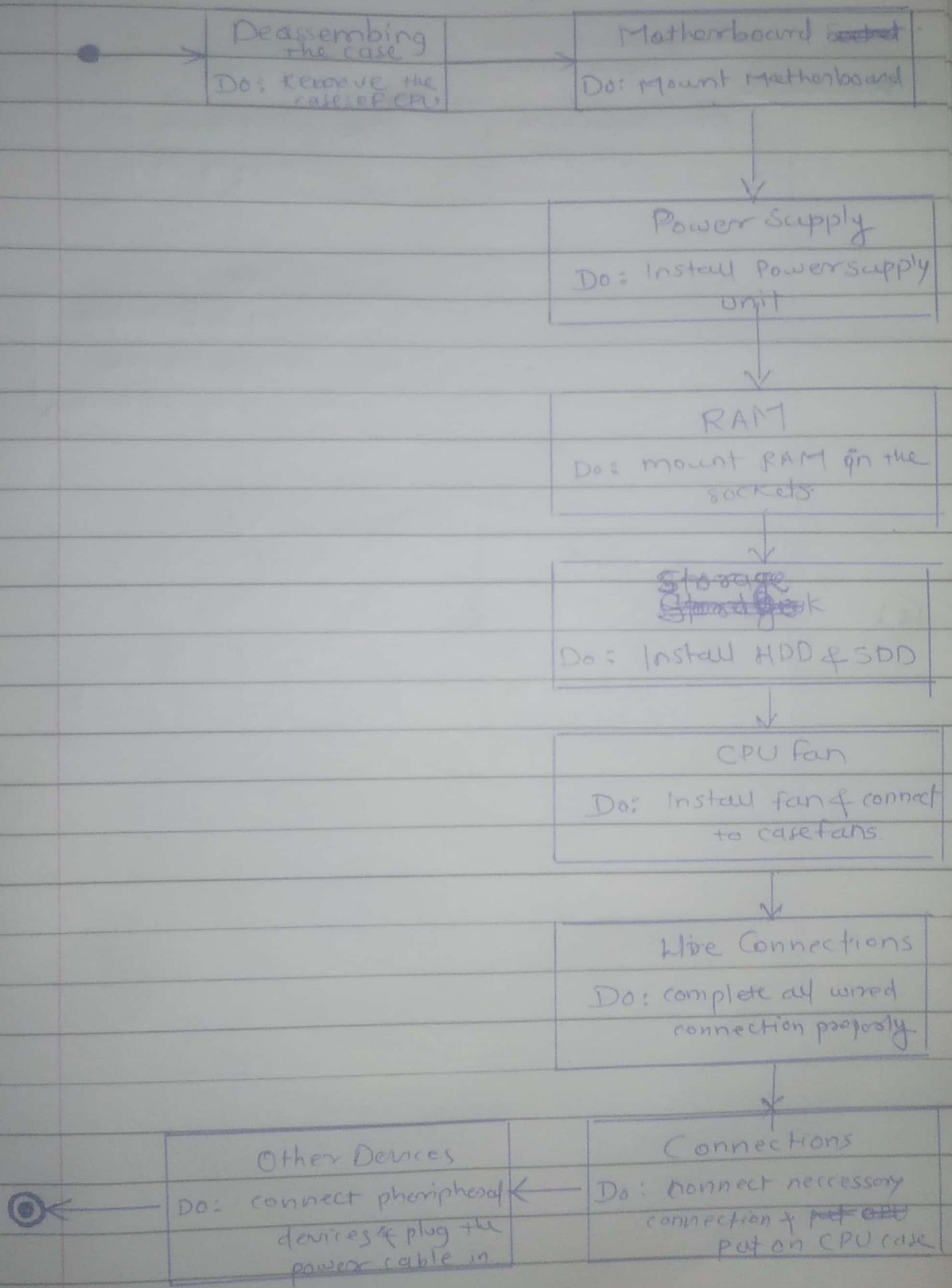
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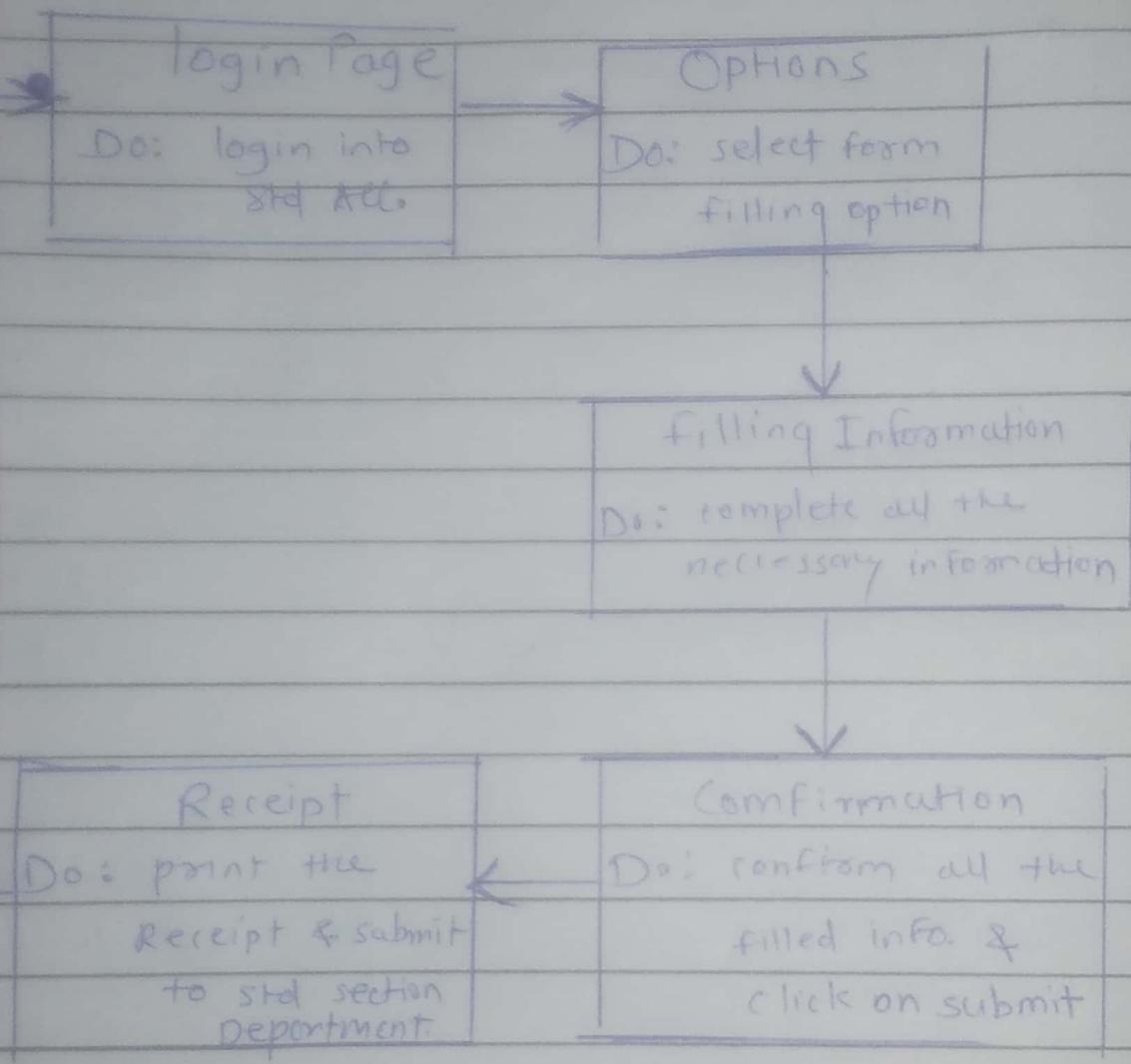
## 5. Prepare State diagram for New email account opening.



## 6. Hardware Assembling

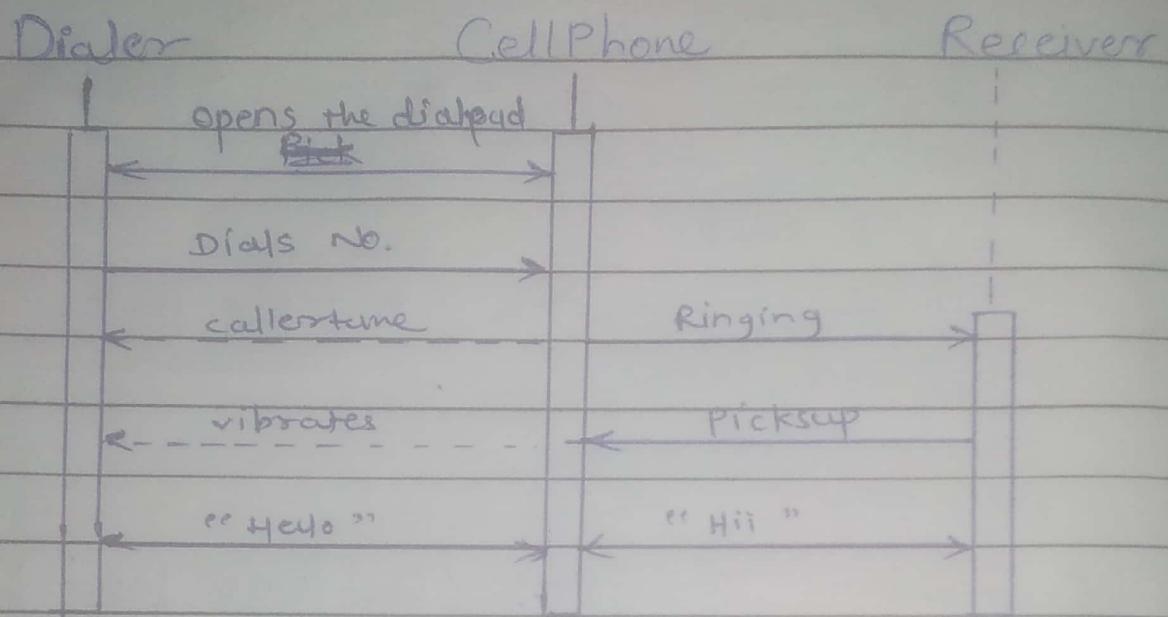


## 7 Online System for Exam form filling

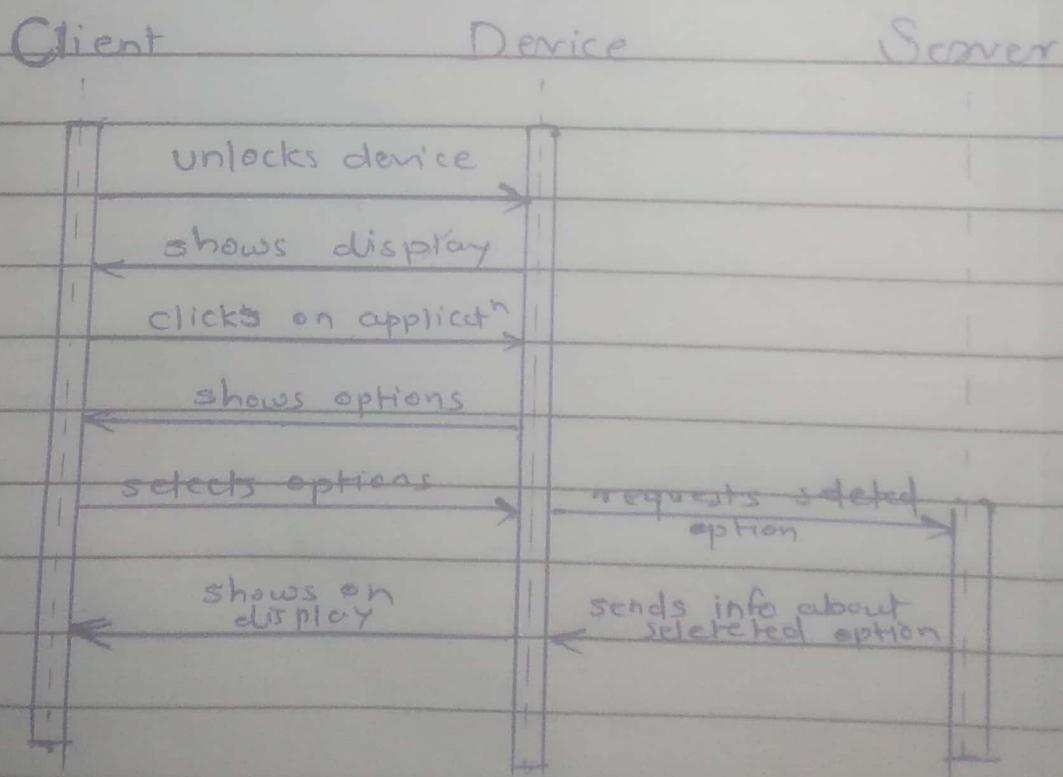


# Assignment - 6

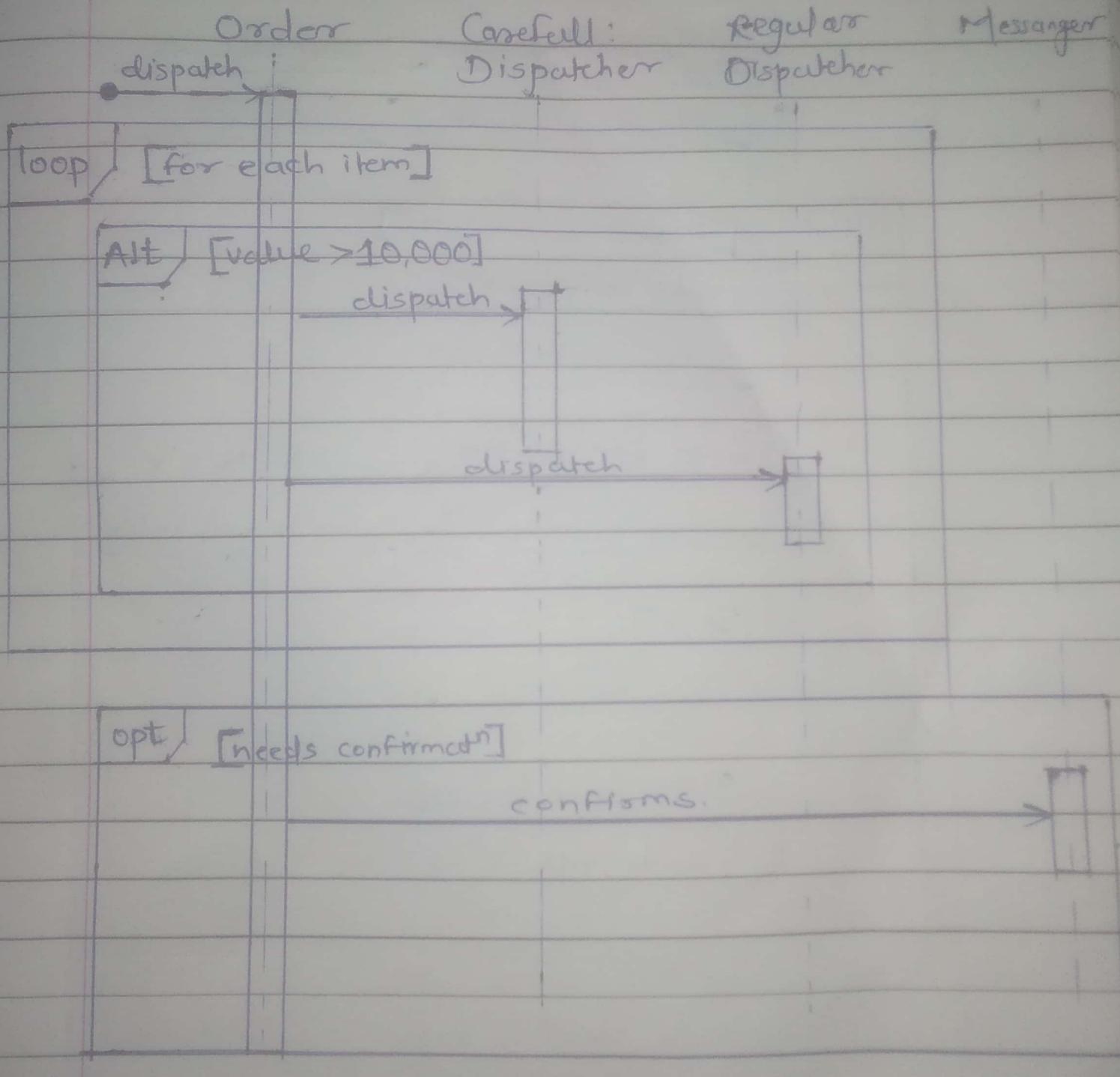
## 1. Make phone call



## 2. Client Server



### 3 Sequence diagram for dispatching order and giving confirmation.



#### 4. Online Book Store.

Customer              System              Database

send request  
searches in system  
for a book.

info about result

searches in db

sends ACK

out

[if book is available]

add to cart

shows buying opt^n

selects opt^n & buys

inform to db

sends message  
of confirmed order

confirms order

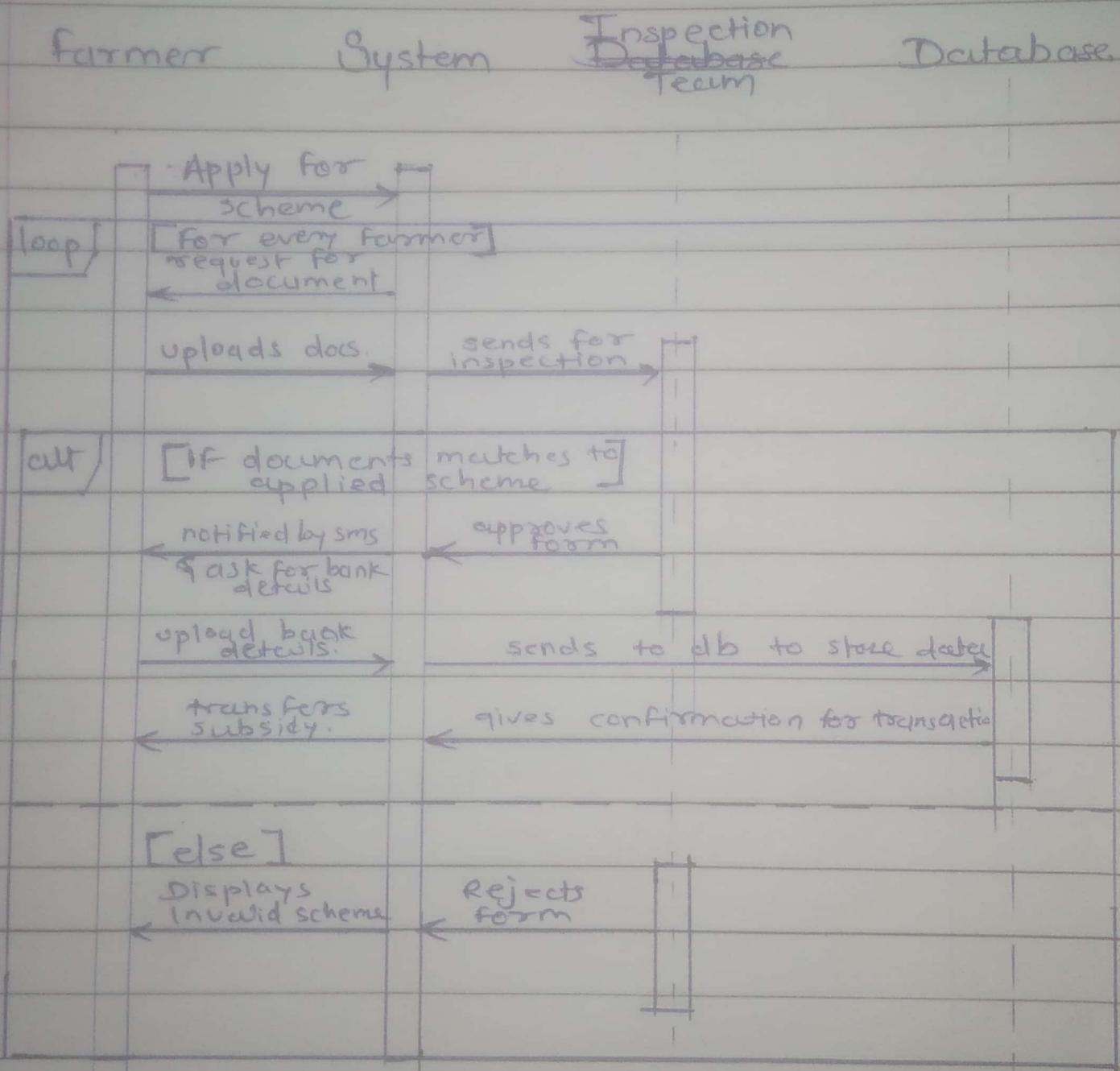
[else]

displays  
"Out of Stock"

selects "Notify Me  
when available"

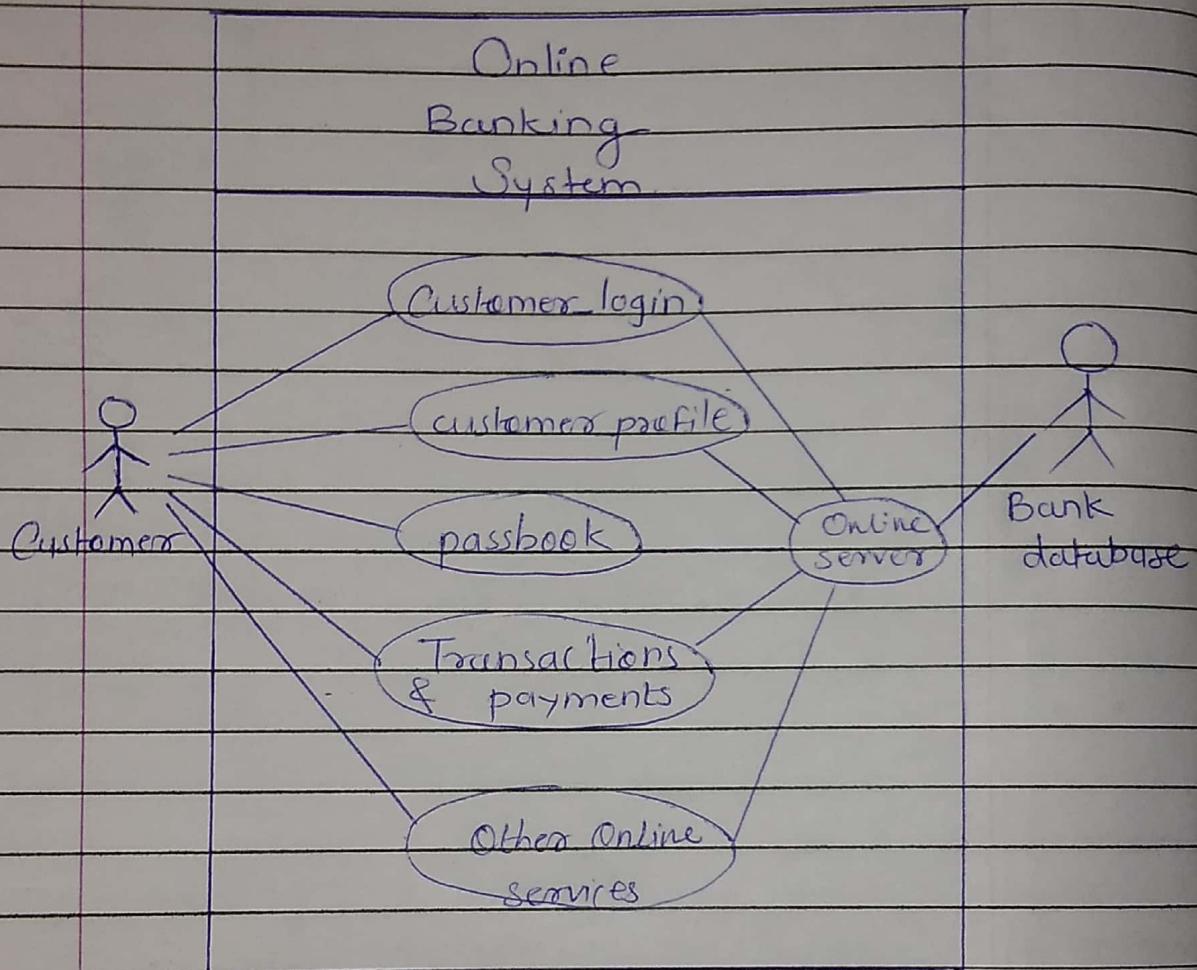
sends ACK.

5. Government wishes to transfer subsidy to farmer's bank account with land less than 2 acres.

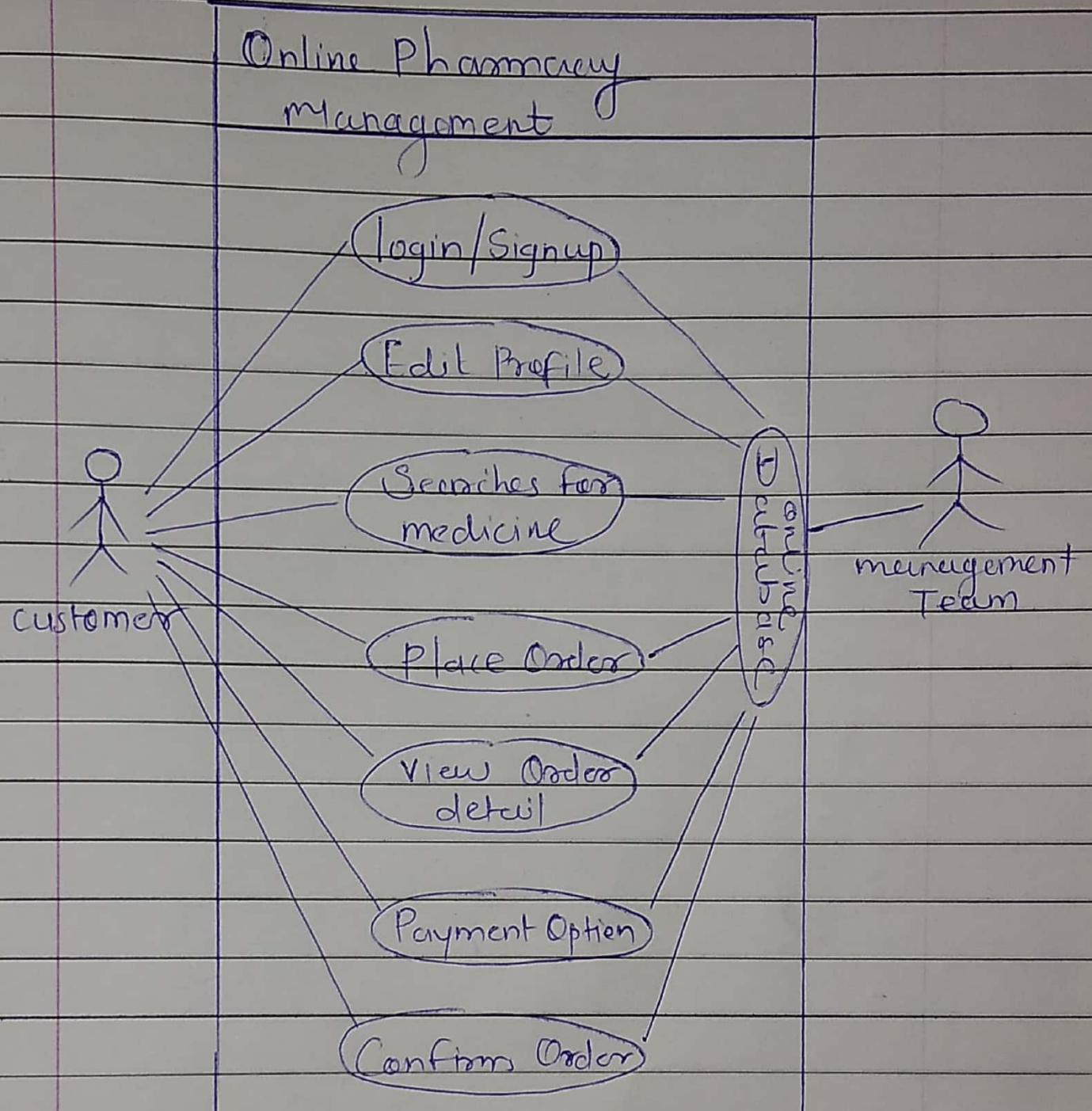


# Assignment - 7

Q1 Use case diagram on online banking

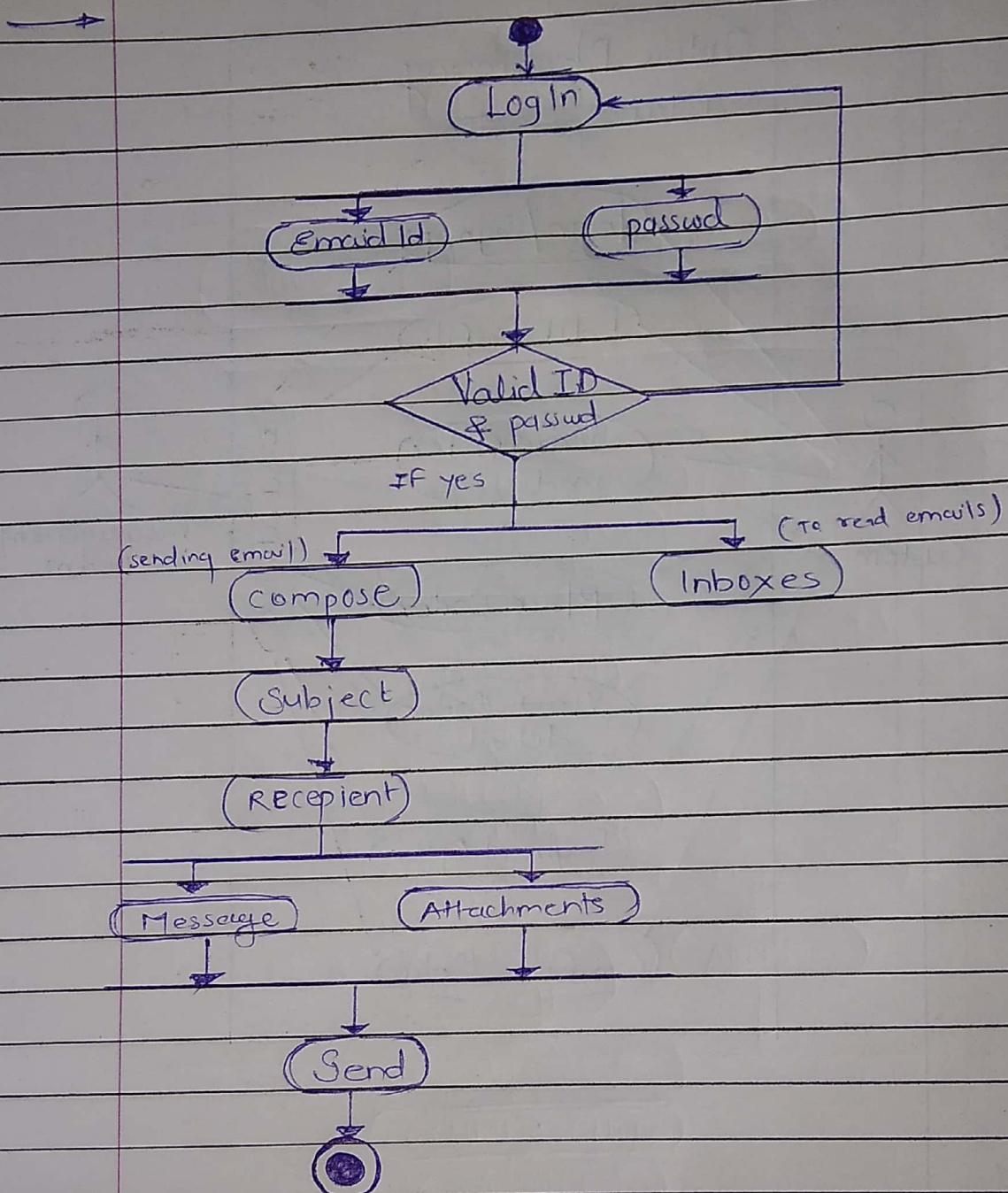


Q2. Use case diagram on Online Pharmacy Management.

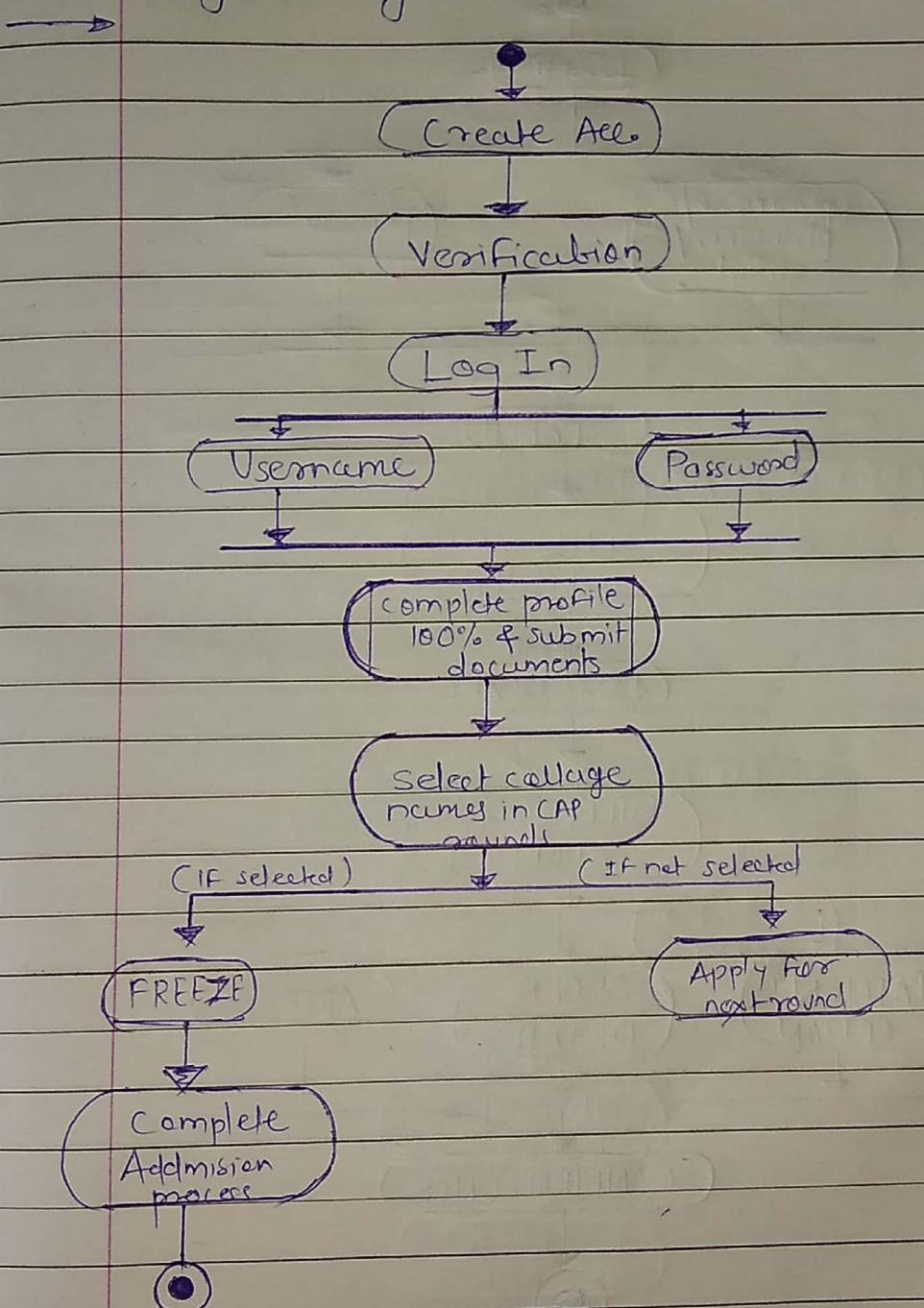


# Assignment - 8

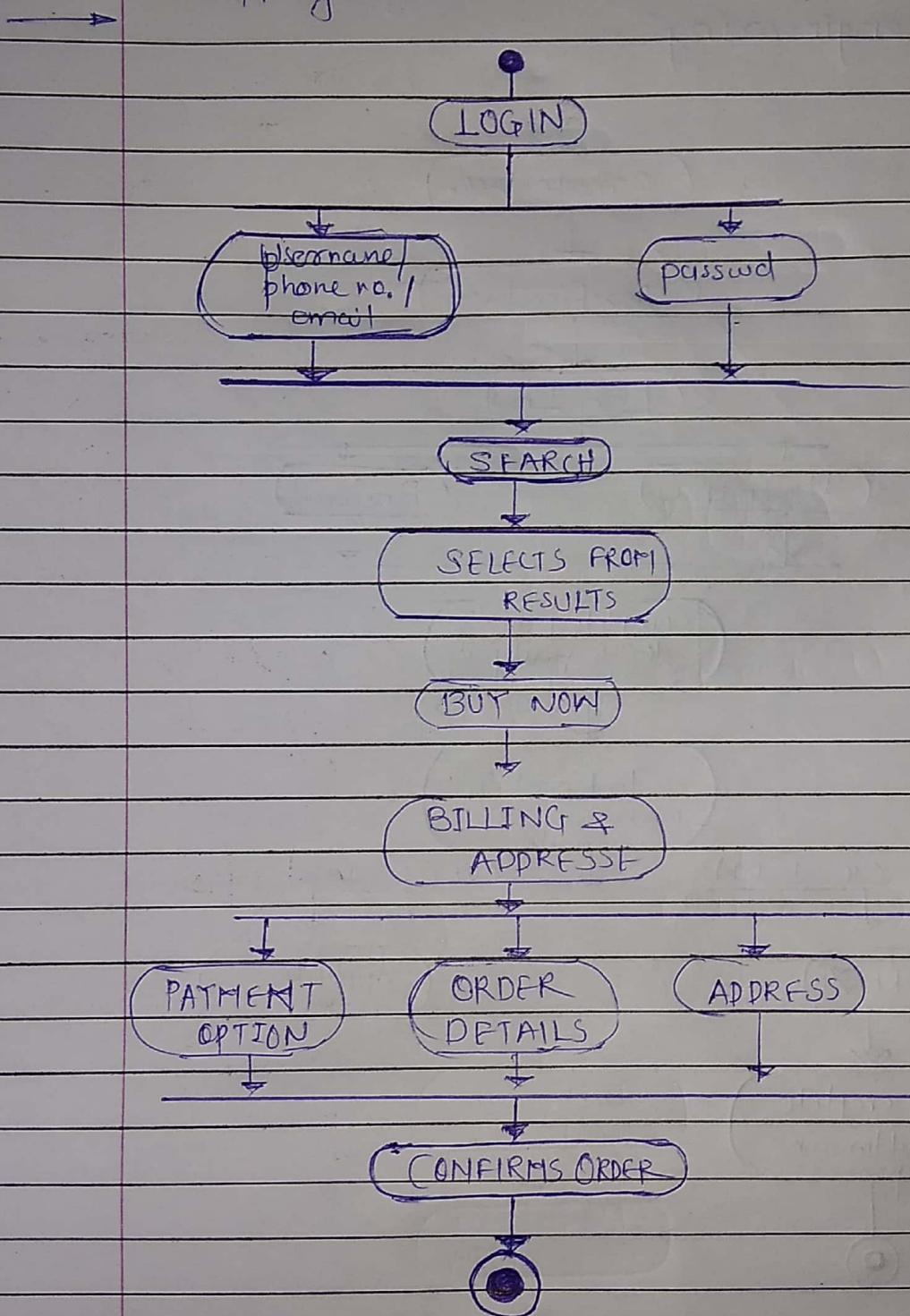
Q.1 Make an Activity diagram on sending an E-mail



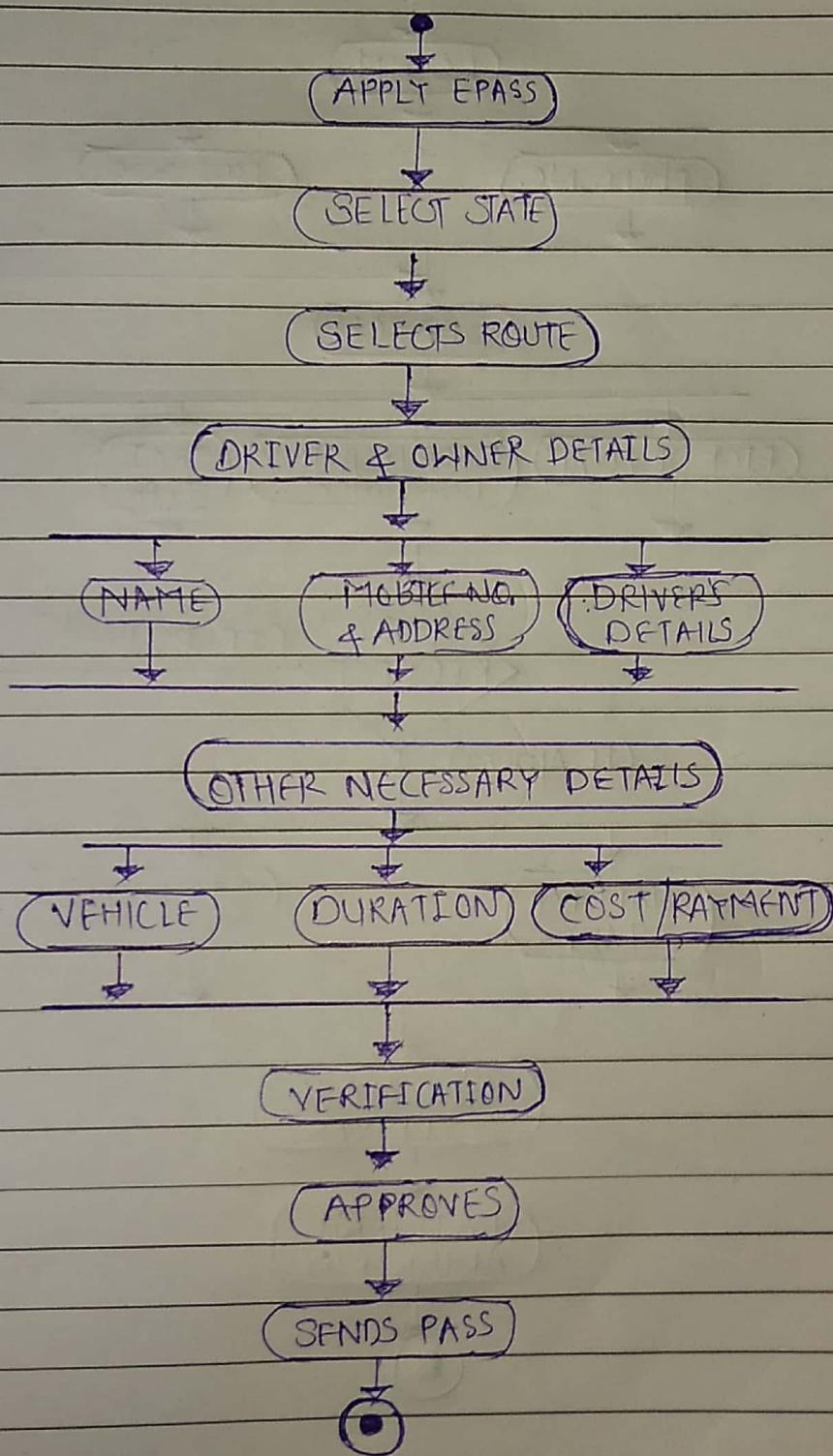
Q.2 Make a Activity diagram on Online Application for first year diploma engineering.



Q.3 Make an Activity diagram on Online Shopping.



Q.4 Make an Activity diagram for Vehicle pass for taxi travelling in different States.



Q.5 Make a Activity diagram on Online Taxi Booking.

