A Project Report on

The Mobile Shop

In Partial Fulfillment of

BACHELOR'S OF COMPUTER APPLICATIONS

2023-24

SUBMITTED BY :

(30) Makwana Kaushik Dineshbhai

(28) Kothiya Tushar Jeetendrabhai

(14) Gajjar Devansh Jigneshbhai

UNDER GUIDANCE OF :

Prof. Harsh Shah

SUBMITTED TO

SHRI CHIMANBHAI PATEL INSTITUTE OF COMPUTER APPLICATIONS

(Approved by & Affiliated to the Gujarat University)

Opp. Karnavati Club, Next to Shapath IV, S.G. Road, Sarkhej - Gandhinagar Hwy, Prahlad Nagar,

Ahmedabad, Gujarat 380015

Acknowledgement

With a sense of gratitude and respect, we would like to extend out heartiest thanks to all those who provided helped and guided us to make this project a success. We truly feel that the project is not only our efforts but culmination of support of all people concerned.

Let us take the opportunity to express our gratitude and indebtedness. Towards people whose assistance and encouragement has been of vital importance in this endeavor.

We extend our gratitude to our internal project guide **Prof. Harsh Shah**, who provided his guidance and inspirational remarks from time to time that enabled us to complete the project in stipulated time period.

We also thank extend our thank you to our institute **Shri Chimanbhai Patel Institute of Computer Applications** for providing the resources and guidance for fulfilling the requirements of our project.

Index

Project Profile 3

Introduction.....4

Feasibility 5

Existing System 7

Proposed System 8

Tools & Technology.....10

System Flow Diagram.....11

UML Diagram.....12

1. Use Case Diagram 13
2. Class Diagram 14
3. Activity Diagram 15
   - I. Activity Diagram for Search..... 15
   - II. Activity Diagram for Login..... 16
   - III. Activity Diagram for Order..... 17
   - IV. Activity Diagram for Review & Rating 18
   - V. Activity Diagram for Tracking 19
4. Sequence Diagram 20
   - i. Sequence Diagram of Search..... 20
   - ii. Sequence Diagram of Login 21
   - iii. Sequence Diagram of Order..... 22
   - iv. Sequence Diagram of Payment 23
   - v. Sequence Diagram of Tracking 24

E-R Diagram 25

Data Dictionary.....26

Conclusion 30

Bibliography 31

Project Profile

Project Title :	The Mobile Shop
Developed In :	.NET Technologies
Internal Guide :	Prof. Harsh Shah
Group Number :	23
Group Member :	(30) Makwana Kaushik Dineshbhai (28) Kothiya Tushar Jeetendrabhai (14) Gajjar Devansh Jigneshbhai

Introduction

- We are making a website :
  - The given name is The Mobile Shop, which helps people to find a mobile online.

- The customer is a user who want to buy products from our website.

- For buy mobile user need to register first and after they can buy any mobile product and finally make a online payment for confirm the same order.

- After doing payment for order the item will be delivered to customer delivery address.

- The Admin is a responsible person to run the whole website means the owner of a website.

- Admin can manage all mobile products, user detail, order detail, payment detail and maintain item stock.

- Admin can add, update and delete any information about product.

Feasibility

Feasibility analysis is an essential step in the decision-making process for any project or business initiative. It involves evaluating whether a proposed project or idea is practical, viable, and achievable. Feasibility studies help stakeholders determine whether it makes sense to proceed with a project, invest resources. There are several types of feasibility studies, each focused on different aspects of a project or business idea. Here are the main types of feasibility studies :

1. Economic Feasibility :

- Economic feasibility is used to determine the benefits and savings expected from the candidate system and to compare them with costs incurred.
- If benefits outweigh cost, then decision will be to design and implement system.
- Otherwise, alterations will have to be made to the proposed system. The proposed system is economically feasible.

2. Technical Feasibility :

- Technical feasibility centers on existing system and to what extent it can support proposed modifications. It involves financial enhancement.

- This evaluation determines whether the

technology needed for the proposed system is available or not. This is concerned with specifying satisfy the user requirements.

3. Scheduling Feasibility :

- It means that a project implemented in a specified time. It check company control the factors that affect schedule feasibility.

- For this Project it will take 1 Year (6 Month for System Analysis and Remaining Time for Implementation)

4. Operational Feasibility :

- The present system is easily understandable. The users are presented with friendly user interface that helps them to understand the flow of the system more easily.

- Maximum transparency has been provided. The new system is very much user friendly and operational cost is bearable. The maintenance and working of the new system needs less human efforts. The proposed project is beneficial to the organizational and is user friendly.

Existing System

- In the existing system details are maintained manually. Due to this the data retrieved is time consuming. Due to human calculation errors occur. Even when the data is maintained on spreadsheet inconsistency occurs as an order might be missed or wrongly entered or twice.

- Data are stride an excel sheet which takes lot of time and data may be corrupted.

- As storage and exchange of data is achieved only by use of excel sheets which lack validation capabilities, there is always risk of invalid, inaccurate or incomplete data being fed in computer.

- Difficulty in managing multiple forms.

- Lack of security.

- **Time Consuming** : In our current system, all the process are carried out by human so naturally it require more time and in that sense, it will require more time to complete transaction.

- **Difficult in Accounting** : It is difficult to calculate that every month how much product is selling and how much payment is given by customer.

- **Difficult in Stock Management** : It is difficult to find out that which product is sold more at the end of the month and on the basis of that the next time the shopkeeper can maintain the stock of that item.

Proposed System

- The proposed system is computerized and has been developed using advance language therefore it gives more facilities than present system. It provides quick access to any data. In this system user have to enter the data only once and then it get linked with all files. This reduces the workload of user and it is also a time saving process. The information about any Subscriber can be easily retrieved. The system maintains all records easy.

- The new system will convert manual work to the computerized work.

- By converting manual work to the computerized work in that case it will remove all paper work.

- By maintaining all the work on computer will increase our accuracy as well as speed of our work.

- It will easily used and the time consuming is decreased.

- Computerized Mobile Shop System is better than the Manual Shop System.

- Accuracy and Security can be maintained easily by the Admin.

- It can handle all the Information about the Customer, Clients, Items and Admin.

- All the information about sale, purchase will be maintain properly in this system.

- All manual calculation of sale or all the money management will be performed by the computer automatically.
- This system will provide timely report information.
- It will produce report for sale, bill information.
- The computer can hold amount of data in its storage device.
- The operation and speed of the computer is very high.
- We can calculate result and print any report within seconds.
- Any difficulties we can solve easily.
- A database application can be stored in computer effectively.

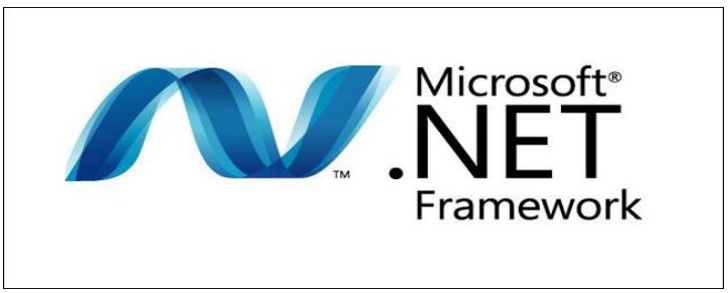
Tools & Technology

i. Language : ASP.NET

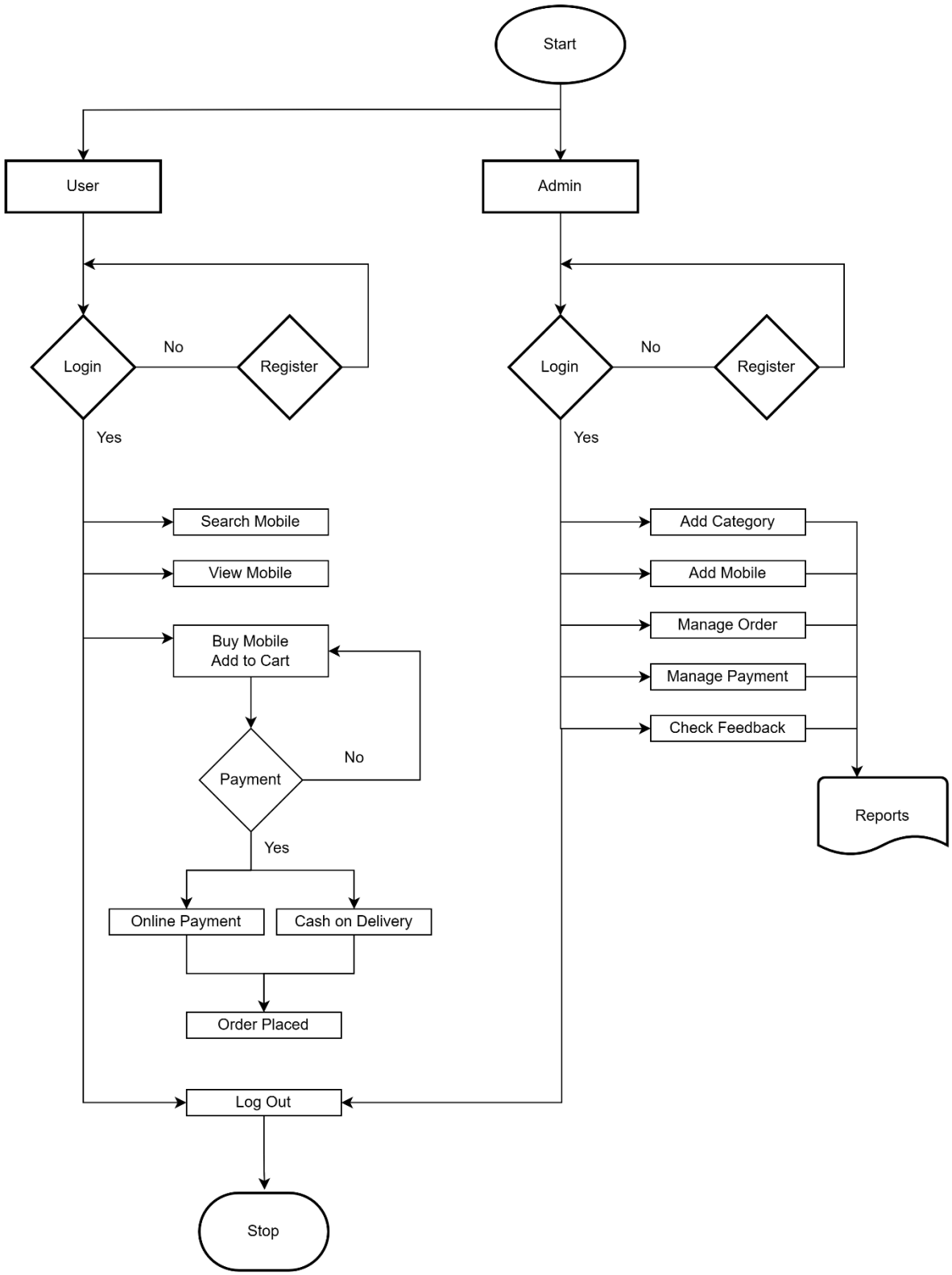
ii. Front-End : C#.NET

iii. Back-End : SQL Server 2022

iv. Framework : .NET Framework 4.5



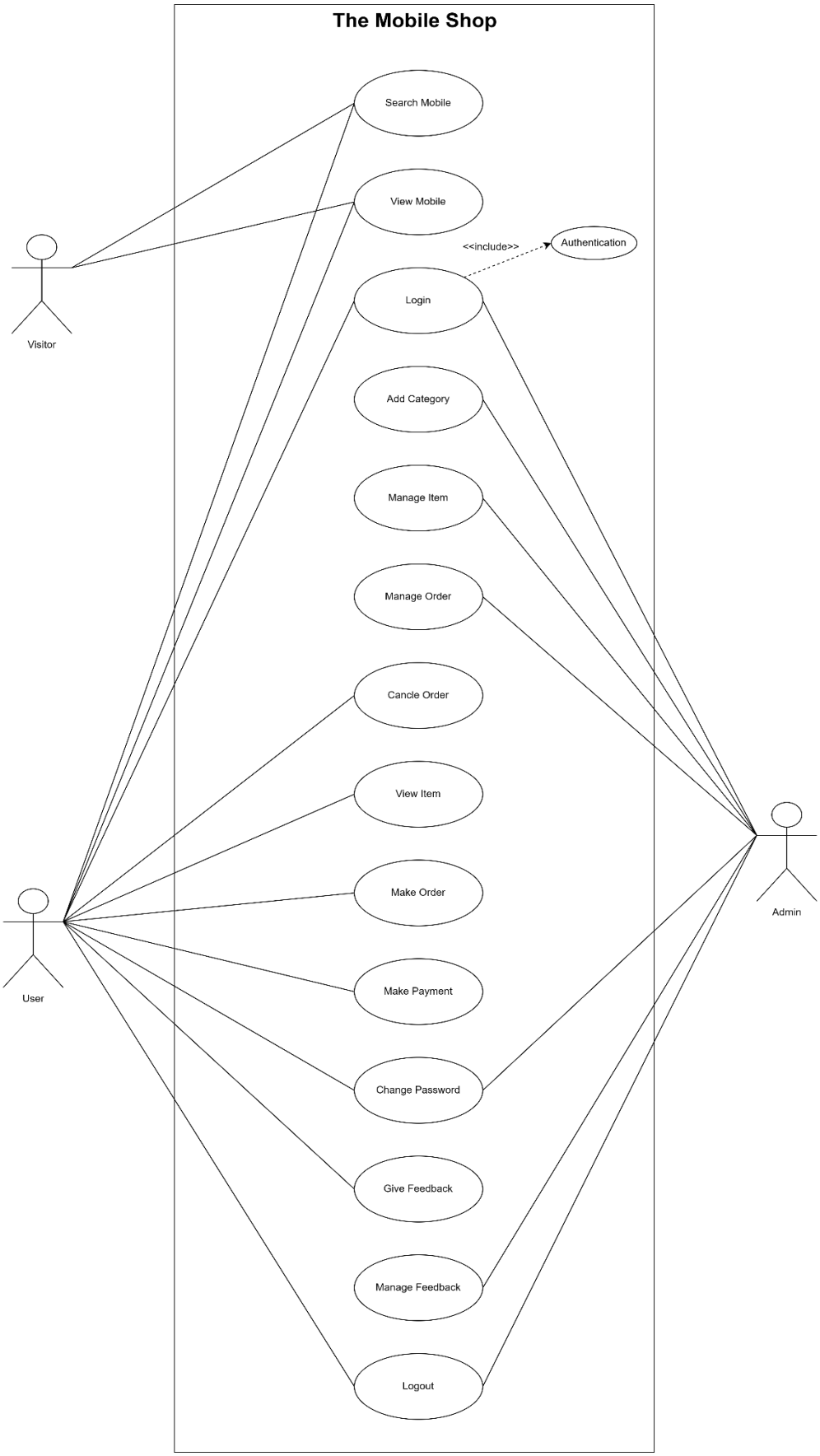
System Flow Diagram



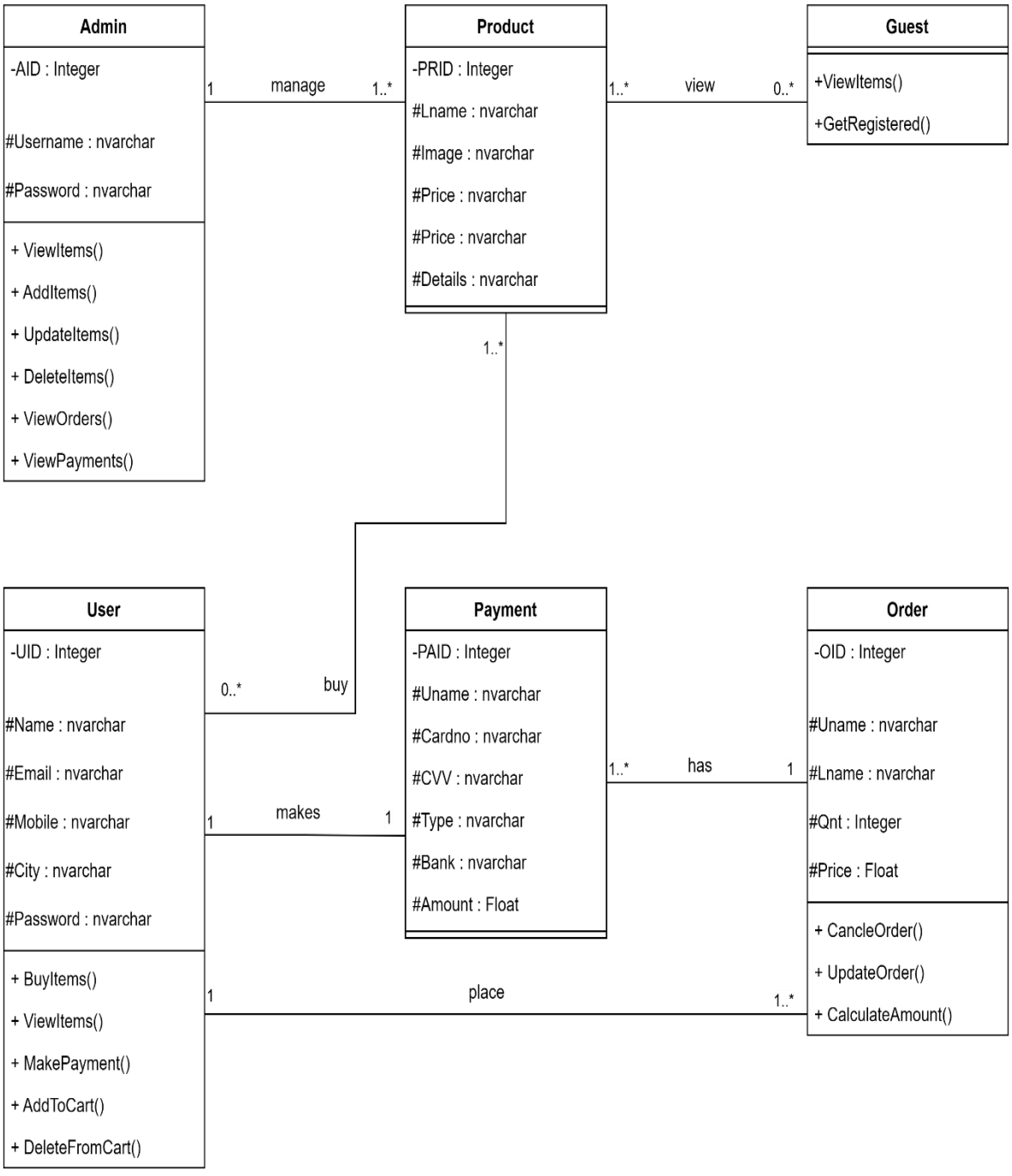
UML Diagram

Types of UML Diagram
1. Use Case Diagram
2. Class Diagram
3. Activity Diagram
4. Sequence Diagram

1. Use Case Diagram

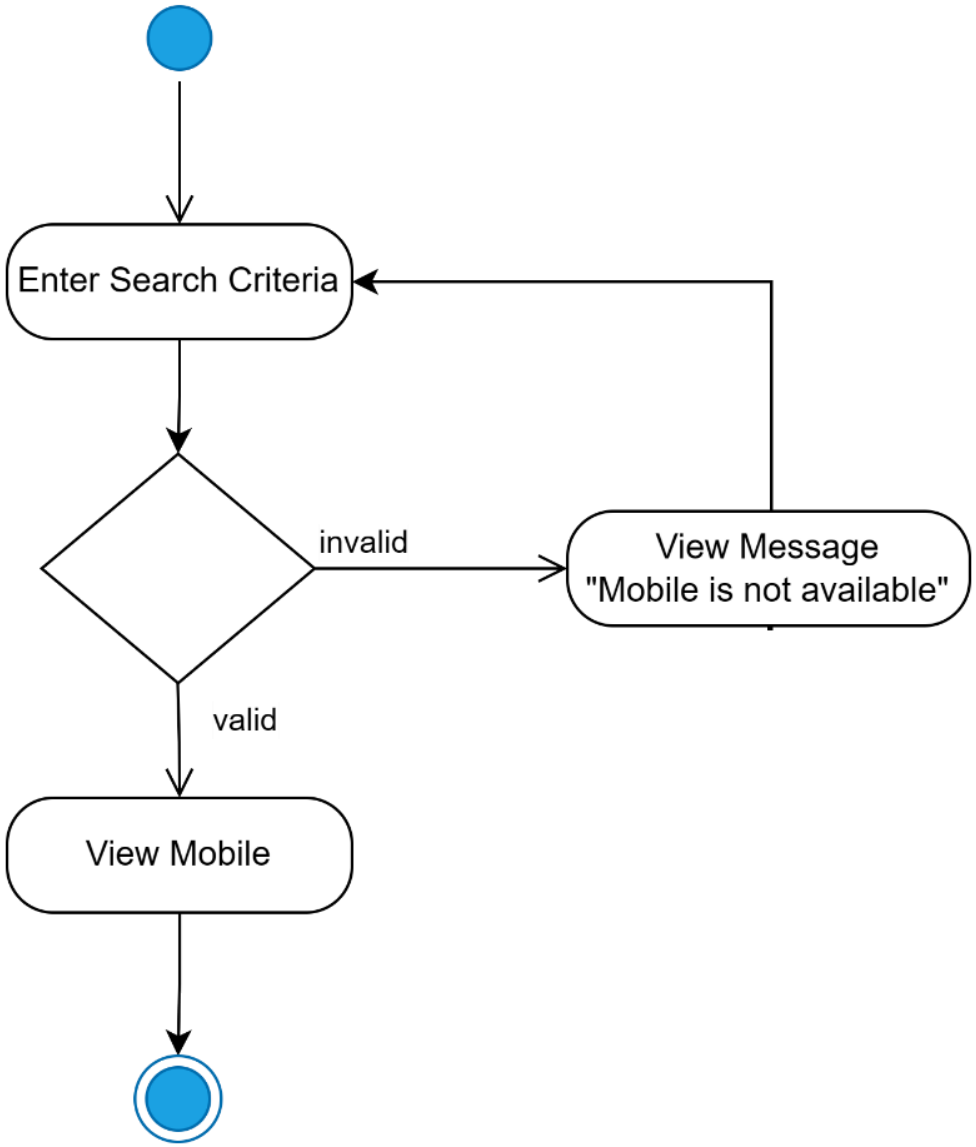


2. Class Diagram

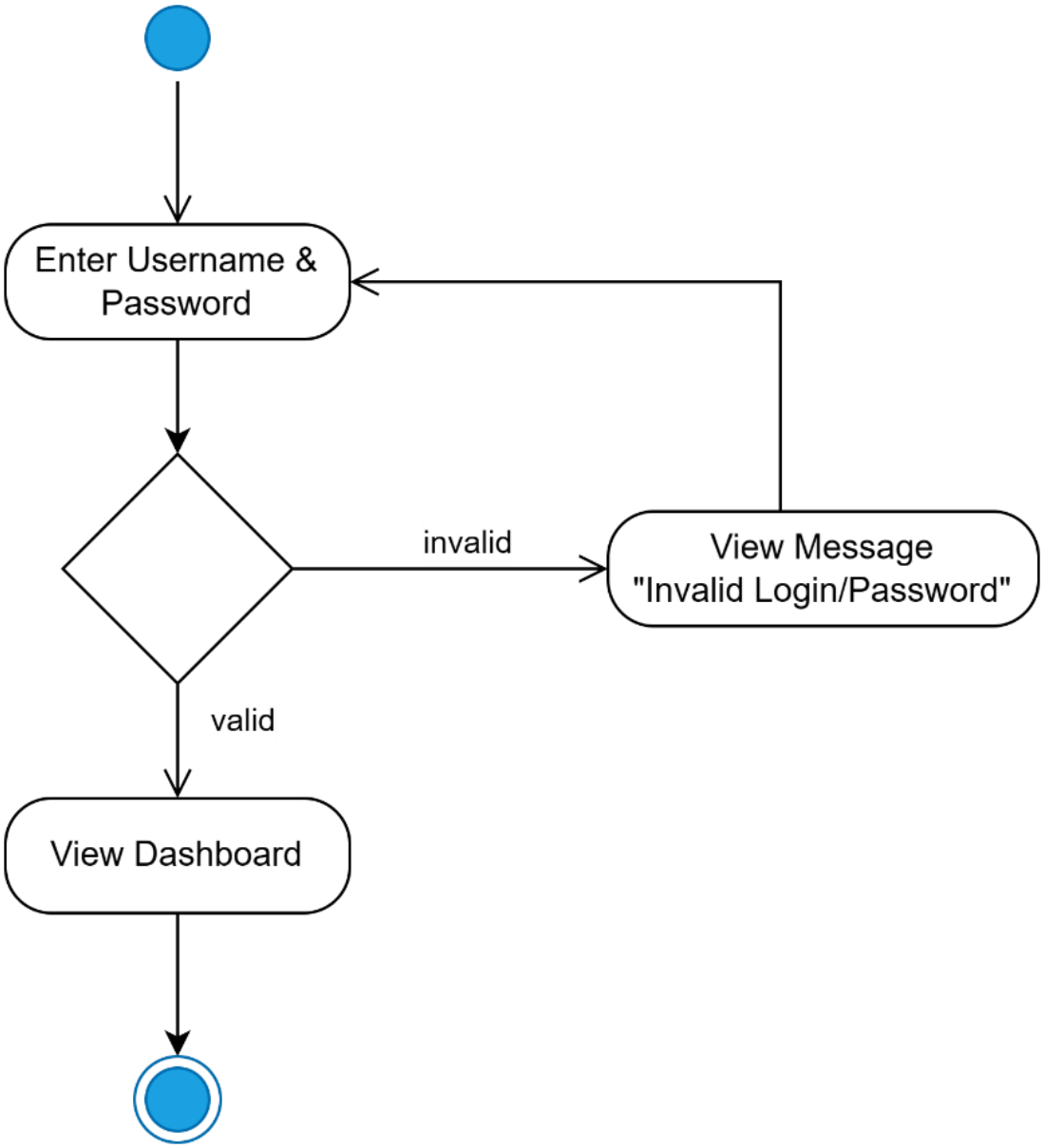


3. Activity Diagram

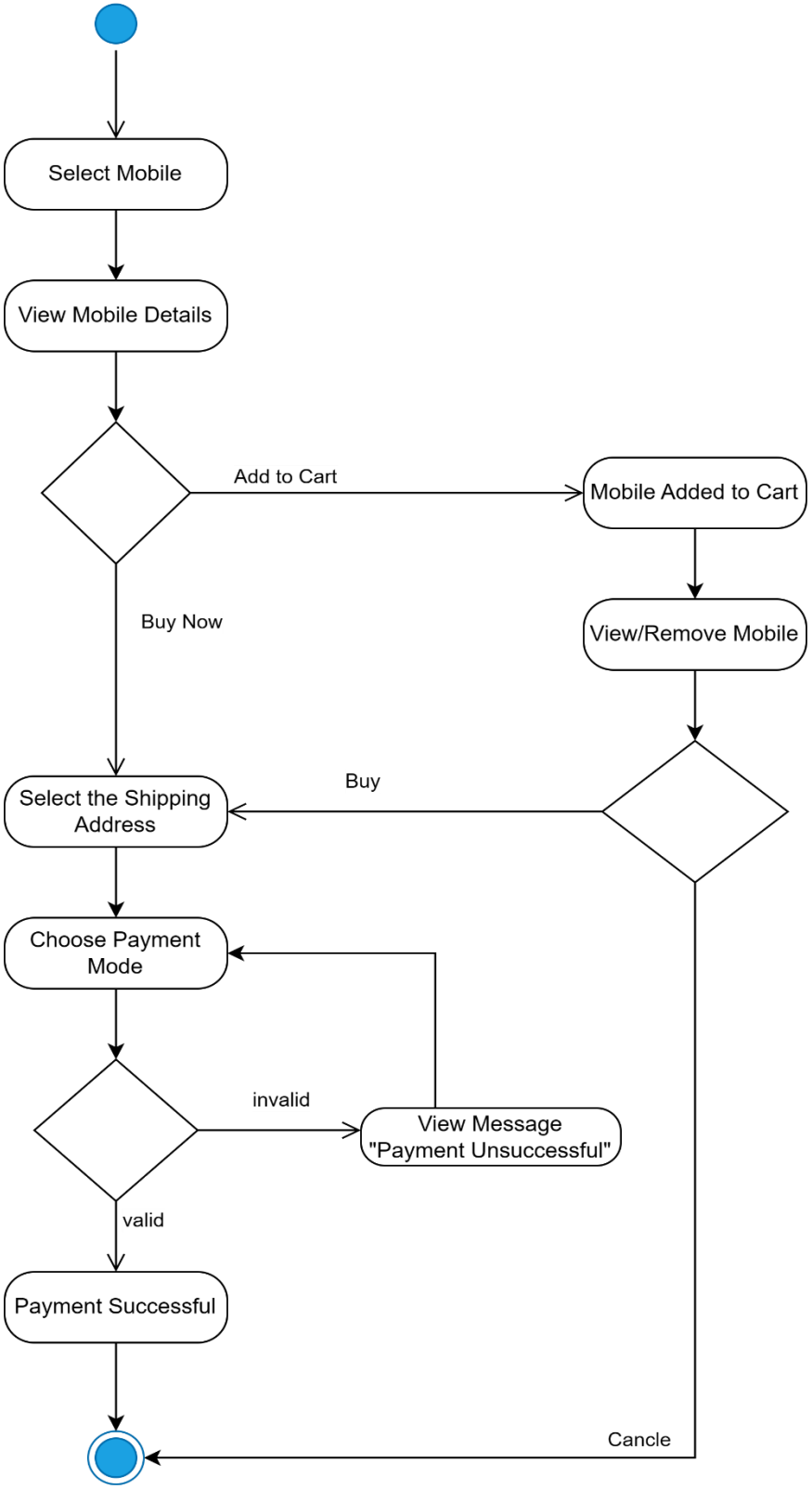
I. Activity Diagram for Search



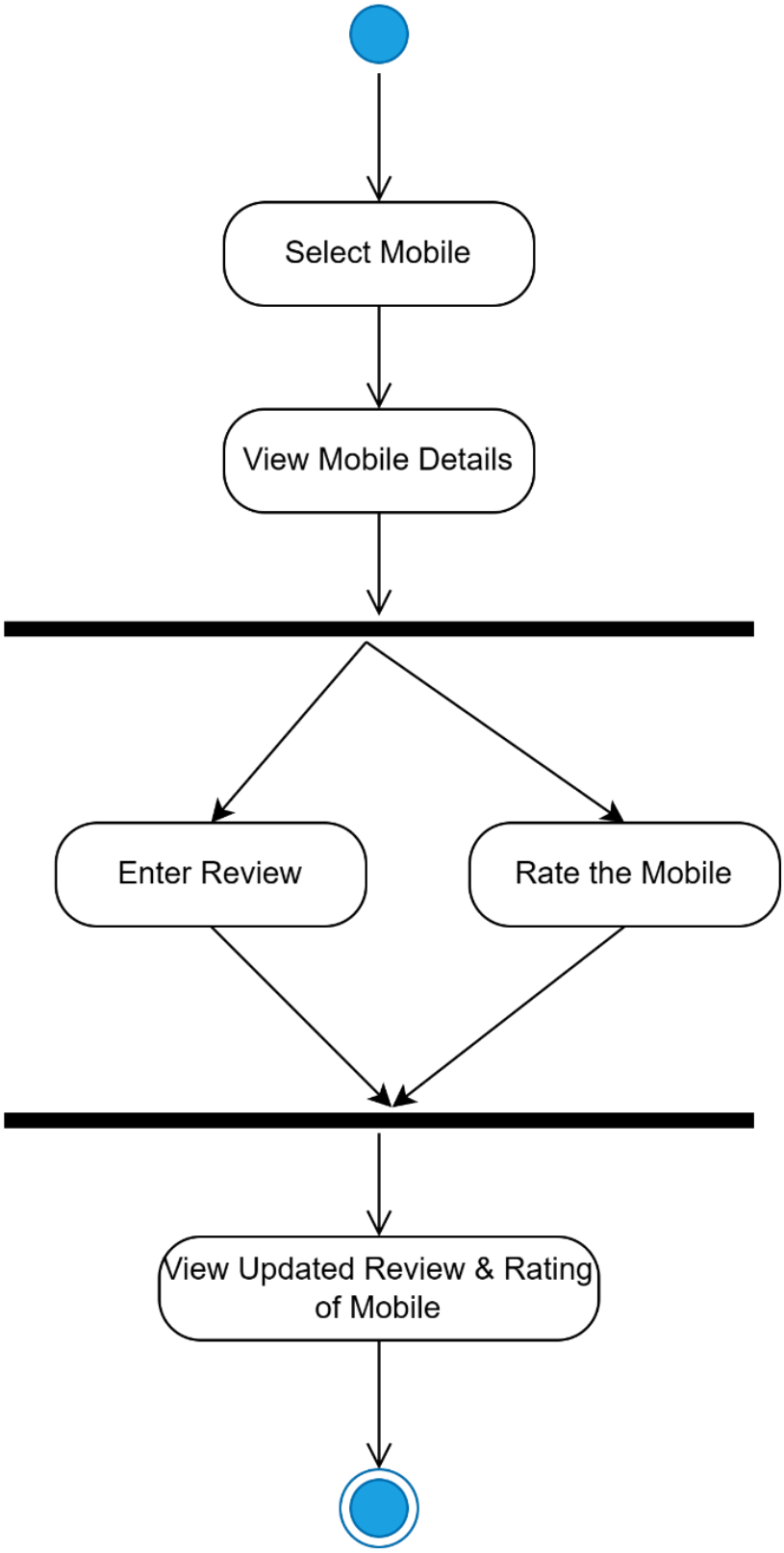
II. Activity Diagram for Login



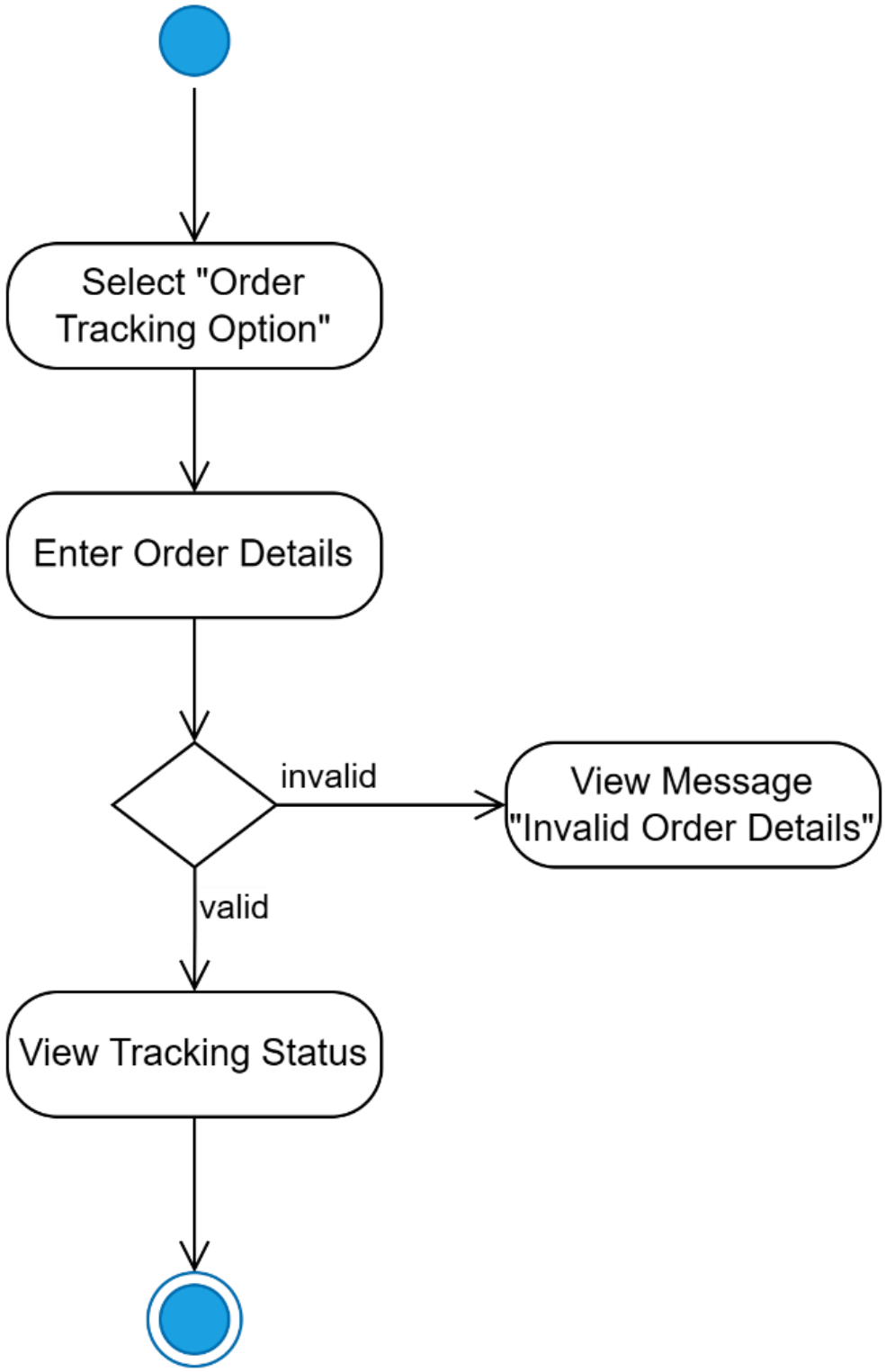
III. Activity Diagram for Order



IV. Activity Diagram for Review & Rating

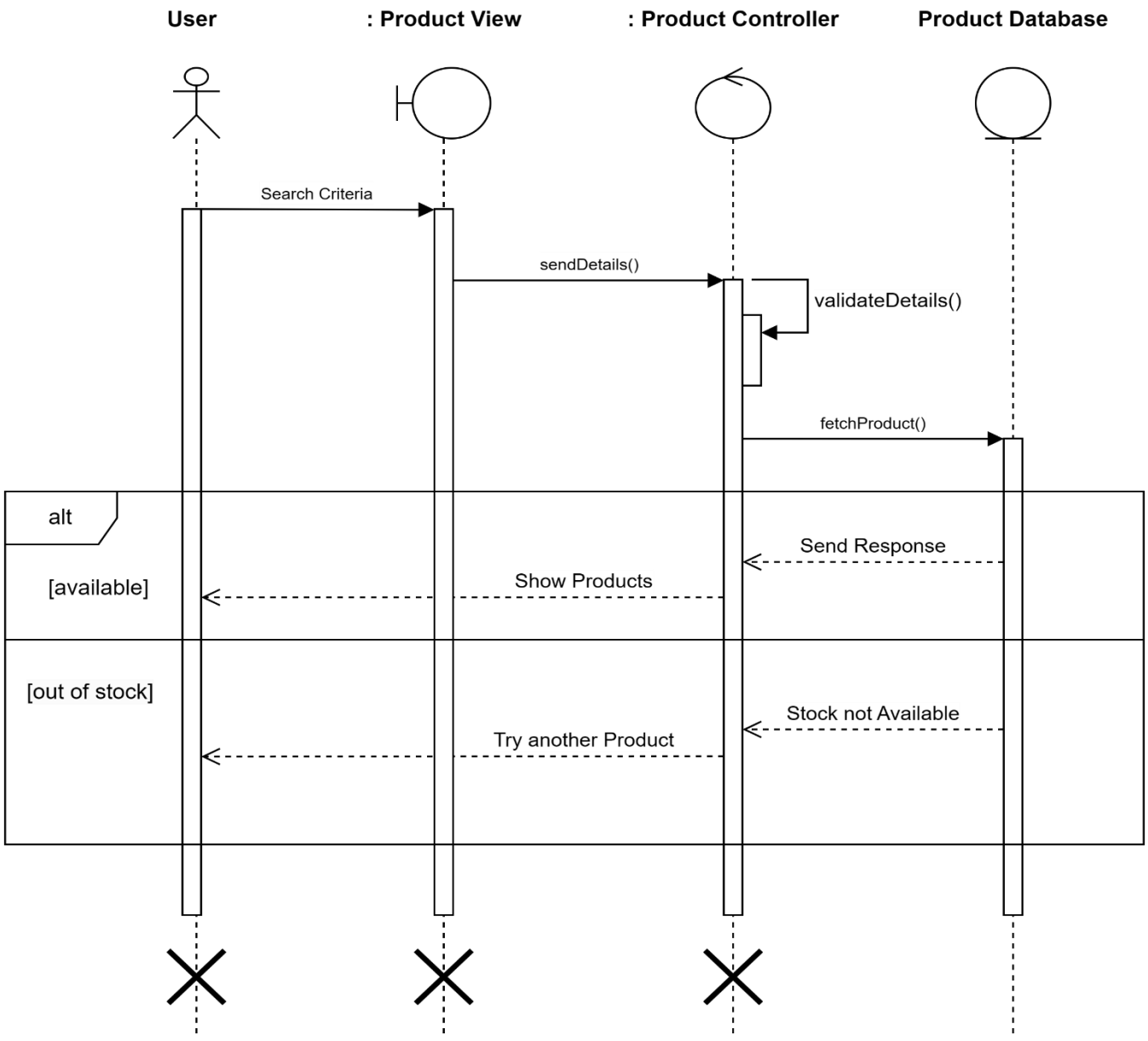


V. Activity Diagram for Tracking

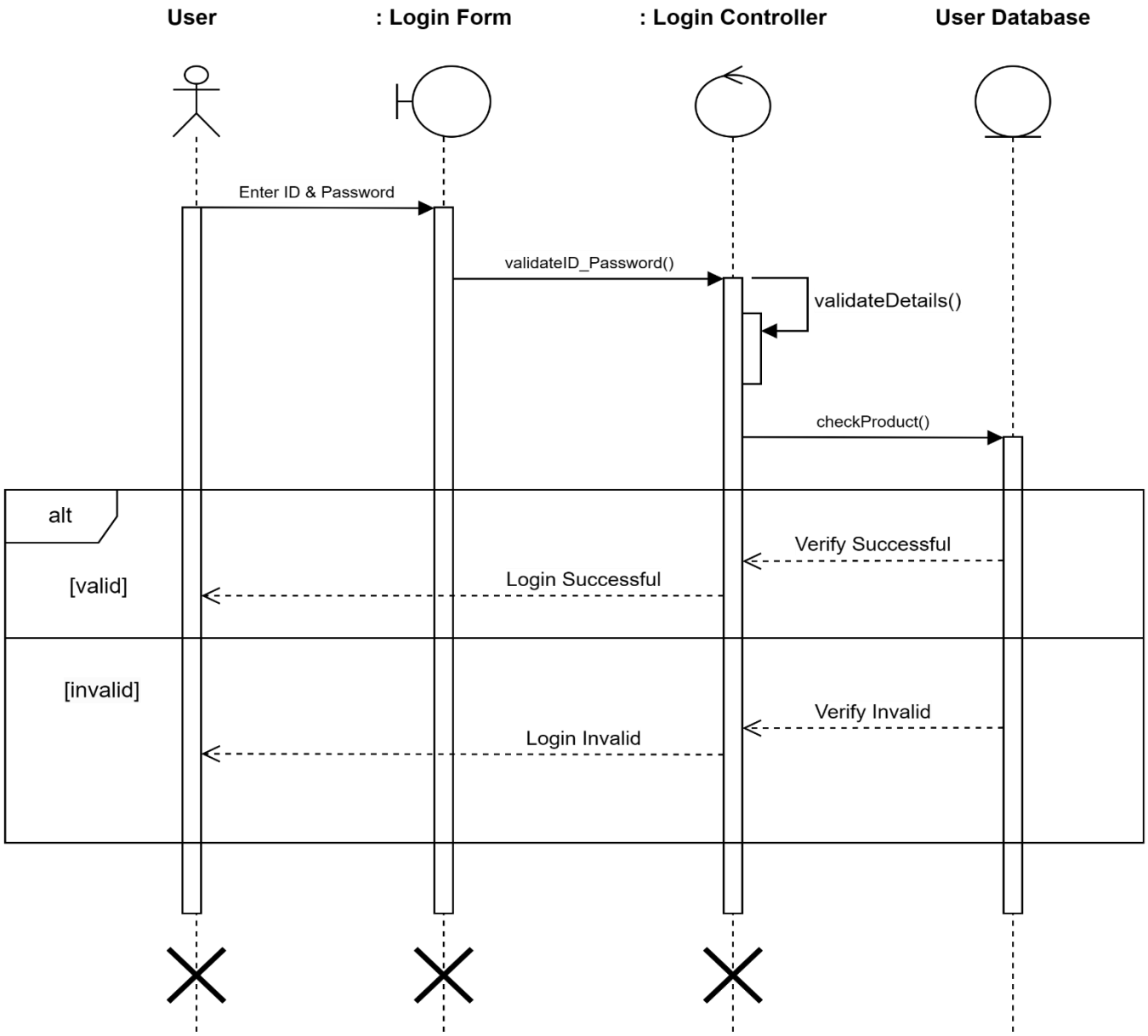


4. Sequence Diagram

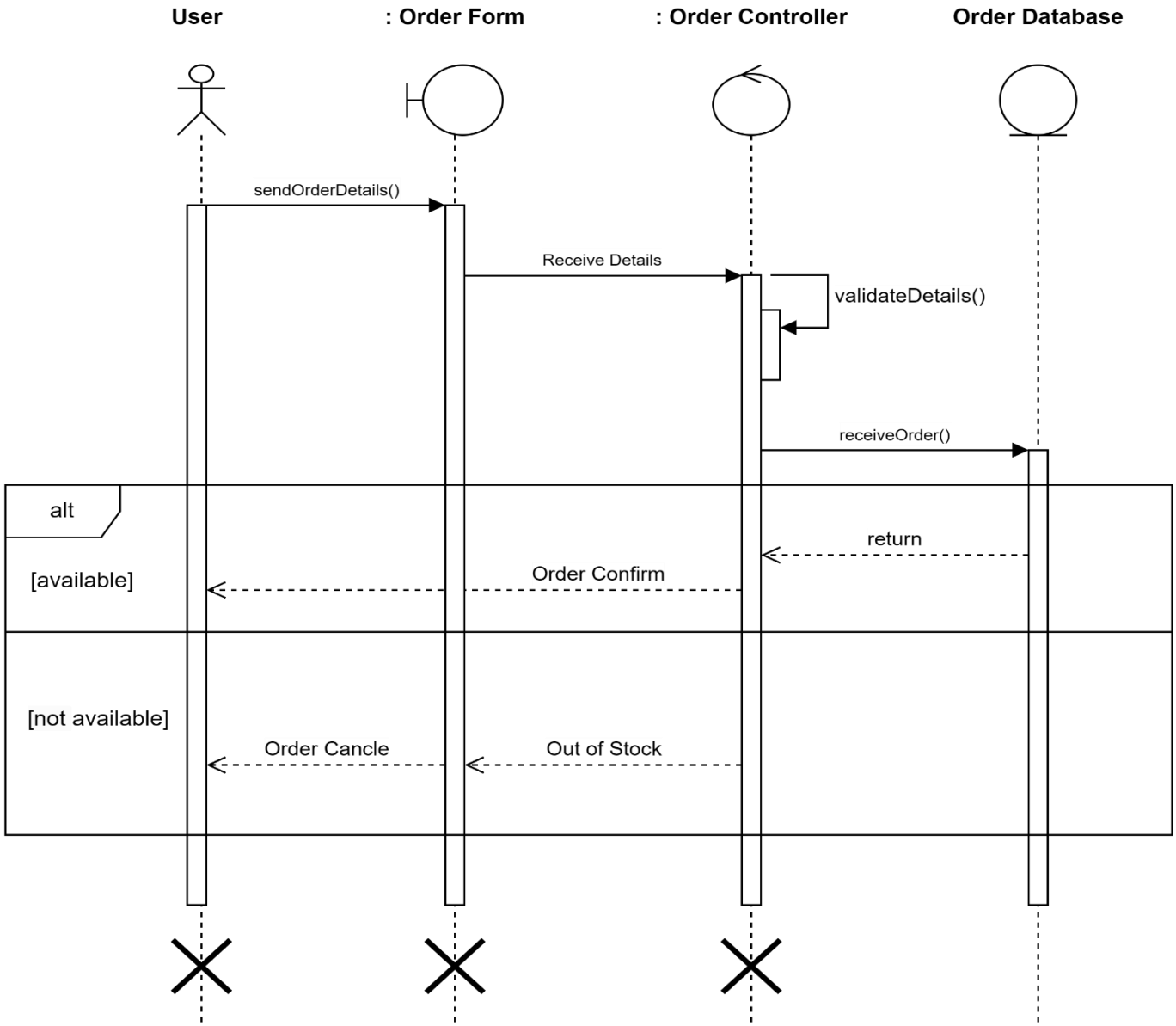
i. Sequence Diagram of Search



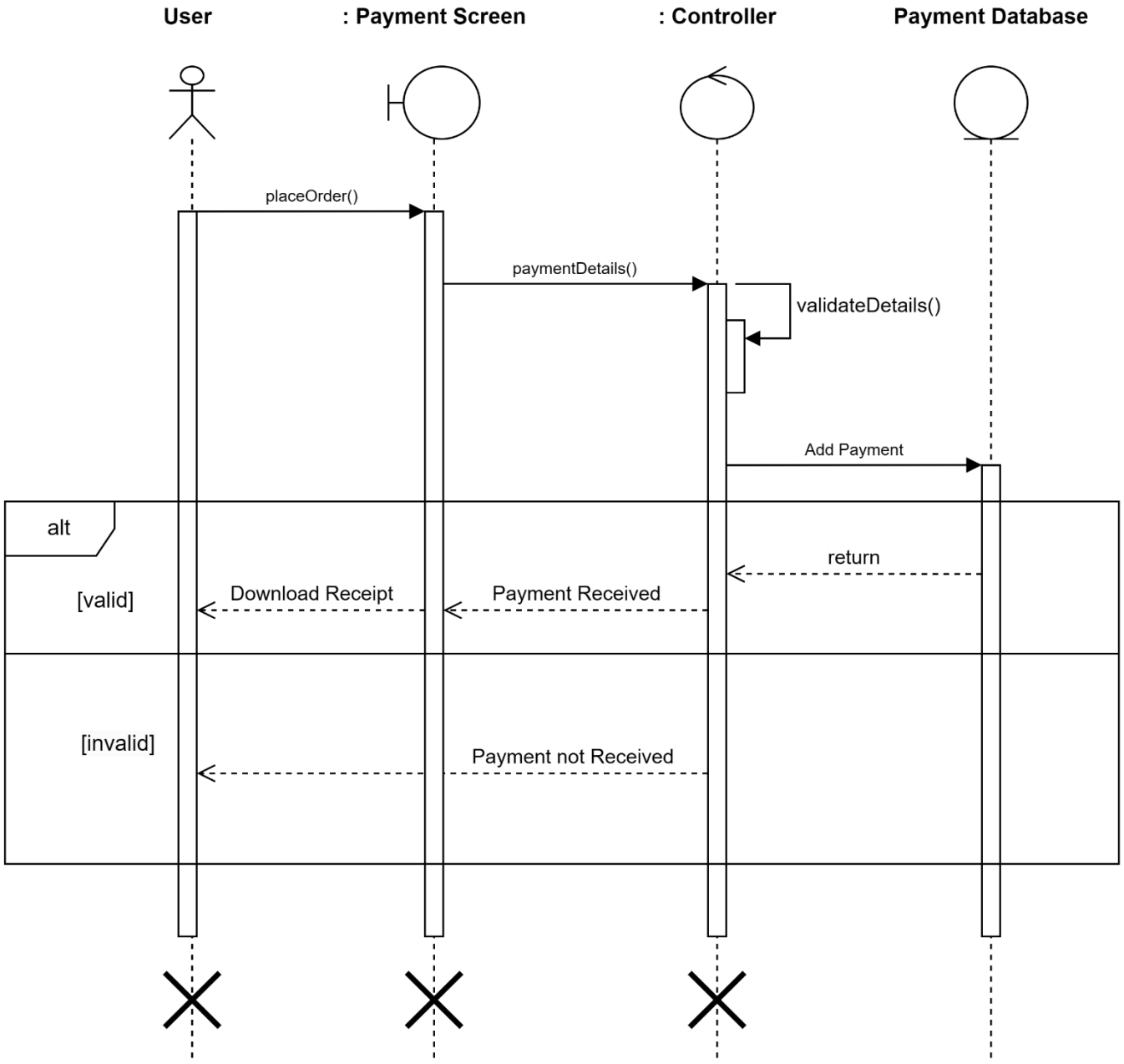
ii. Sequence Diagram of Login



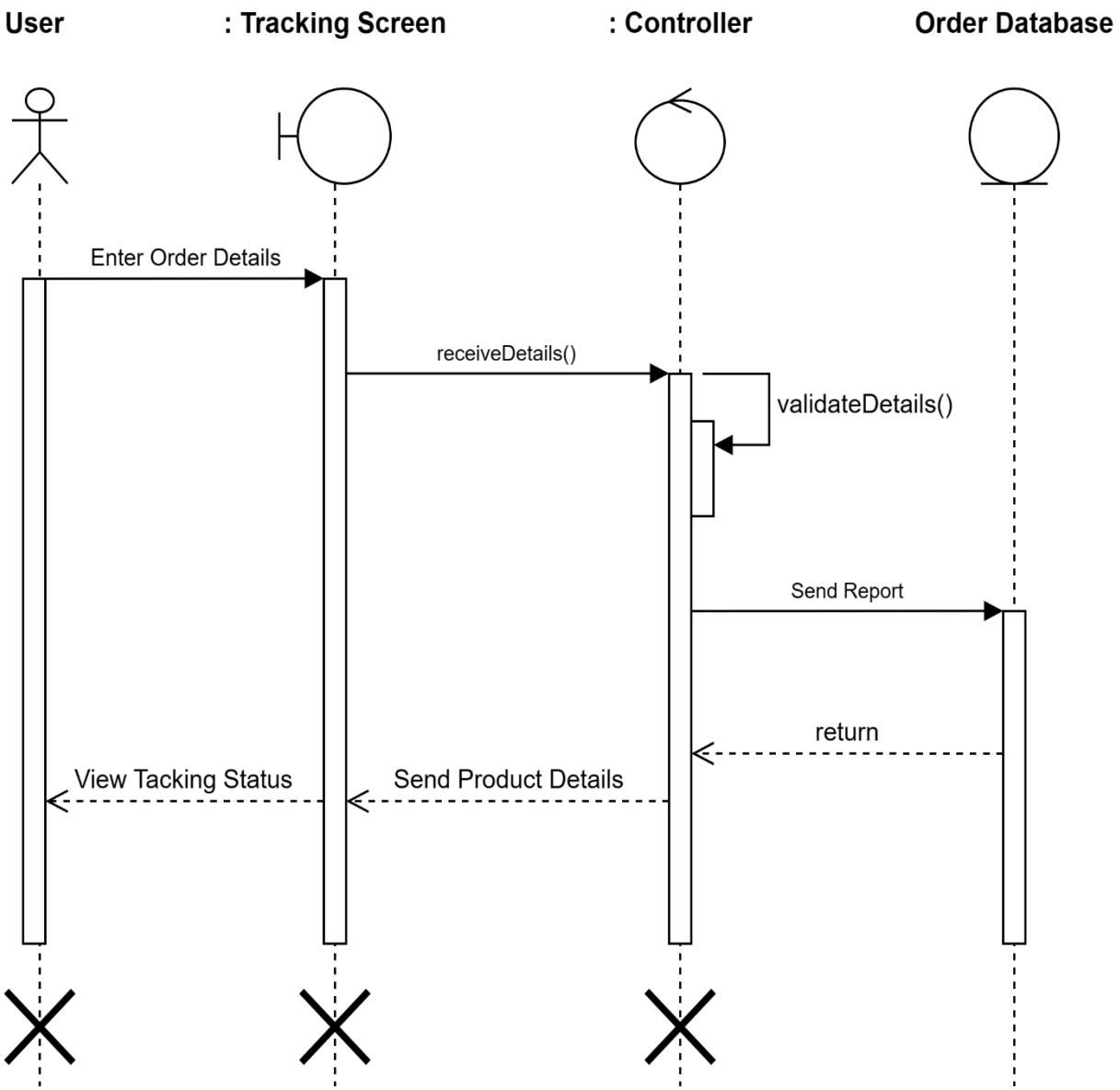
iii. Sequence Diagram of Order



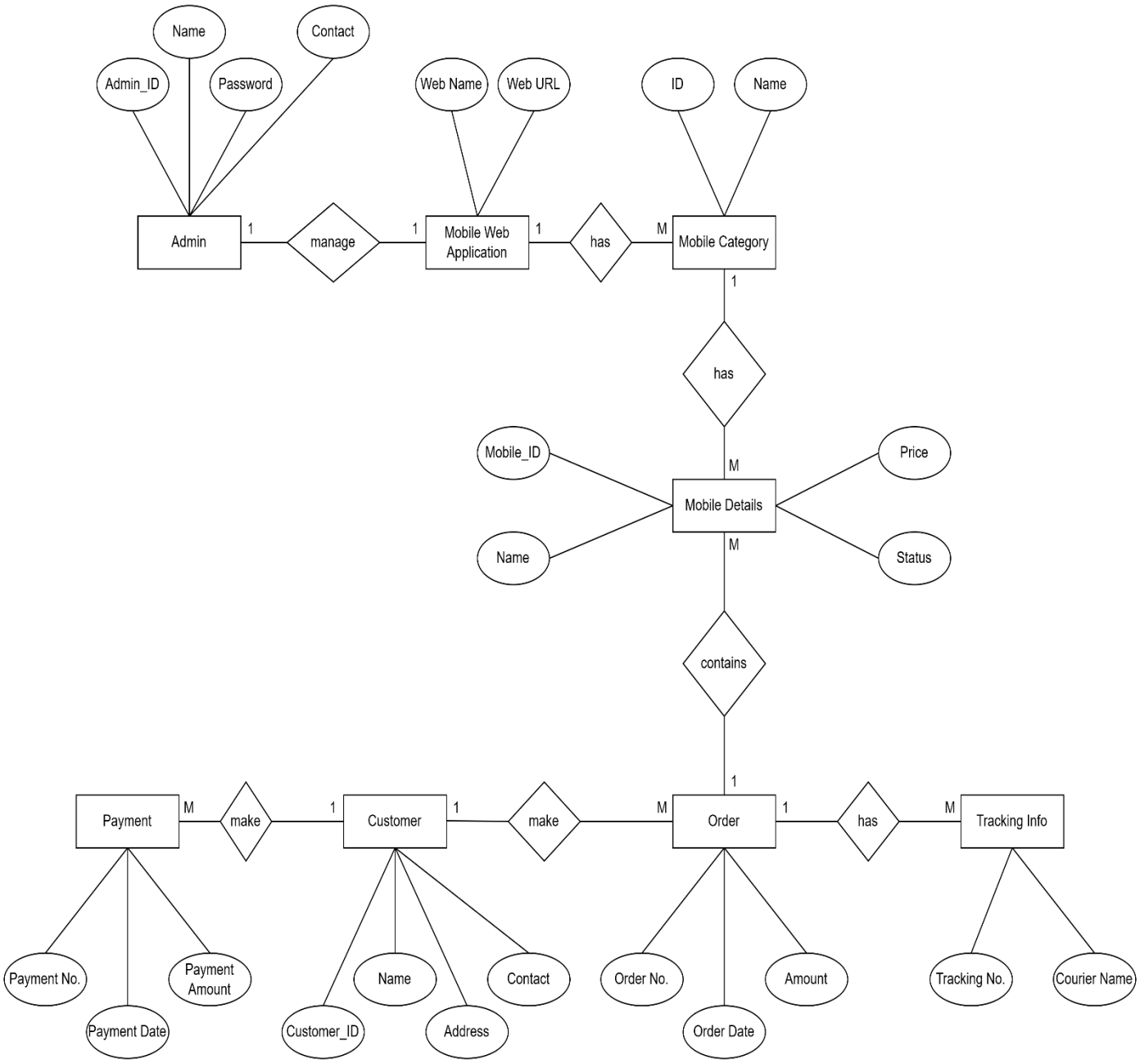
iv. Sequence Diagram of Payment



v. Sequence Diagram of Tracking



E-R Diagram


Name
Contact
Admin_ID
Password
Web Name
Web URL
ID
Name
Admin
1
manage
1
Mobile Web Application
1
has
M
Mobile Category
1
has
Mobile_ID
Price
M
Mobile Details
Name
Status
M
contains
1
Payment
M
make
1
Customer
1
make
M
Order
1
has
M
Tracking Info
Payment No.
Payment Amount
Payment Date
Name
Contact
Customer_ID
Address
Order No.
Amount
Order Date
Tracking No.
Courier Name

Data Dictionary

A set of information describing the contents, format, and structure of a database and the relationship between its elements, used to control access to and manipulation of the database.

Table List

Sr. No.	Table Name
1.	PaymentMST
2.	CateMST
3.	Feedbackmstr
4.	UserMST
5.	OrderMST
6.	AdminMST
7.	ItemMST

PaymentMST

This table contains basic details of the Payment.

PaymentMST		
Column Name	Data Type	Contraint
PID	int	Primary Key
Uname	nvarchar(20)	Foreign Key
Amount	float	Not Null
Type	nvarchar(20)	Not Null
Bank	nvarchar(25)	Not Null
Branch	nvarchar(25)	Not Null
CardNo	int	Not Null
EntryDate	datetime	Not Null

CateMST

This table contains basic details of the Category.

CateMST		
Column Name	Data Type	Contraint
CID	int	Primary Key
Cname	nvarchar(15)	Foreign Key

Feedbackmstr

This table contains basic details of the Feedback.

Feedbackmstr		
Column Name	Data Type	Contraint
FID	int	Primary Key
Uname	nvarchar(50)	Foreign Key
Message	nvarchar(50)	Not Null
EntryDate	datetime	Not Null

UserMST

This table contains basic details of the User.

UserMST		
Column Name	Data Type	Contraint
UID	int	Primary Key
Name	nvarchar(25)	Not Null
Surname	nvarchar(25)	Not Null
Address	nvarchar(50)	Not Null
City	nvarchar(20)	Not Null
Pincode	int	Not Null
Mobile	int	Not Null
Email	nvarchar(20)	Foreign Key
Password	nvarchar(15)	Not Null
EntryDate	datetime	Not Null

OrderMST

This table contains basic details of the Order.

OrderMST		
Column Name	Data Type	Contraint
OID	int	Primary Key
Uname	nvarchar(25)	Not Null
Iname	nvarchar(25)	Not Null
Qnt	int	Not Null
Price	decimal	Not Null
Tprice	decimal	Not Null
Status	nvarchar(20)	Not Null
EntryDate	datetime	Foreign Key
Image	varbinary(max)	Not Null

AdminMST

This table contains basic details of the Admin.

AdminMST		
Column Name	Data Type	Contraint
AID	int	Primary Key
Username	nvarchar(25)	Not Null
Password	nvarchar(15)	Not Null

ItemMST

This table contains basic details of the Item.

ItemMST		
Column Name	Data Type	Contraint
IID	int	Primary Key
Iname	nvarchar(25)	Foreign Key
Detail	nvarchar(100)	Not Null
Price	decimal	Not Null
Image	varbinary(max)	Not Null
Qnt	int	Not Null
Aqnt	int	Not Null
Sqnt	int	Not Null
Cname	nvarchar(15)	Foreign Key
EntryDate	datetime	Not Null
Image1	varbinary(max)	Not Null
Image2	varbinary(max)	Not Null
Image3	varbinary(max)	Not Null
Model	nvarchar(100)	Not Null
Color	nvarchar(15)	Not Null
Type	nvarchar(20)	Not Null
Sim	nvarchar(20)	Not Null
Ram	nvarchar(10)	Not Null
Memory	nvarchar(10)	Not Null
Display	nvarchar(50)	Not Null
Camera	nvarchar(50)	Not Null
Battery	nvarchar(15)	Not Null

Conclusion

- At the end of this semester we learned what is actual analysis behind the projects as well as the importance of the teamwork.

- The team's rigorous efforts ensured user needs were met, with clear diagrams and a structured data dictionary forming a solid foundation.

- The insights gained from analysis will guide the implementation, enriching technical skills and emphasizing teamwork and learning.

- This is the best start for our project.

Bibliography

Website

- https://www.quickstart.com/blog/
- https://www.amazon.com/
- https://www.flipkart.com/
- https://www.alliancetek.com/
- https://www.scribd.com/
- https://www.w3schools.com/

Reference Book

- Magnifying Object-oriented Analysis and Design [Author : Arpita Gopal, Netra Patil]

Thank You