4. Design

4.1 Use Case Scenarios

1. Admin Login

Use Case ID	UC01
Use Case Name	Login
Primary Actor	Admin
Pre-Condition	Admin must be registered
Basic Flow Of System	The website can be accessed through email id and password
Alternative Way	There is not any alternative way for login

2. Manage Provider

Use Case ID	UC02
Use Case Name	Manage Provider
Primary Actor	Admin
Pre-Condition	Admin must be logged in
Basic Flow Of System	Admin can add Provider, update the provider details and delete the provider
Alternative Way	There is not any alternative way for login

3. View Customer

Use Case ID	UC03
Use Case Name	View Customer
Primary Actor	Admin
Pre-Condition	Admin must be logged in
Basic Flow Of System	Admin can view all the customer which are enroll in this website
Alternative Way	There is not any alternative way for login

4. Manage Order

Use Case ID	UC04
Use Case Name	Manage Order
Primary Actor	Admin
Pre-Condition	Admin must be logged in
Basic Flow Of System	Admin can view order, confirm and reject the order and also view the status of the order
Alternative Way	There is not any alternative way for login

5. Manage Feedback

Use Case ID	UC05
Use Case Name	Manage Feedback
Primary Actor	Admin
Pre-Condition	Admin must be logged in
Basic Flow Of System	Admin can view feedback ,give response of that particular feedback
Alternative Way	There is not any alternative way for login

6. Manage Services and Subservices

Use Case ID	UC06
Use Case Name	Manage services and subservices
Primary Actor	Admin
Pre-Condition	Admin must be logged in
Basic Flow Of System	Admin can add, update and delete the services and subservices
Alternative Way	There is not any alternative way for login

7. Customer Login

Use Case ID	UC07
Use Case Name	Login
Primary Actor	Customer
Pre-Condition	Customer must be registered
Basic Flow Of System	The website can be accessed through email id and password
Alternative Way	There is not any alternative way for login

8. View Services and Subservices

Use Case ID	UC08
Use Case Name	View services and subservices
Primary Actor	Customer
Pre-Condition	There is not any pre-condition
Basic Flow Of System	Customer can view all services and subservices
Alternative Way	There is not any alternative way for login

9. Add to cart and place order

Use Case ID	UC09
Use Case Name	AddTocart
Primary Actor	Customer
Pre-Condition	User must be logged in
Basic Flow Of System	Customer can place their order by add service into cart
Alternative Way	There is not any alternative way for login

10. View Order

Use Case ID	UC10
Use Case Name	View Order
Primary Actor	Customer
Pre-Condition	User must be logged in
Basic Flow Of System	Customer can view their order and order status
Alternative Way	There is not any alternative way for login

4.2 UML Diagram

4.2.1 Class Diagram:
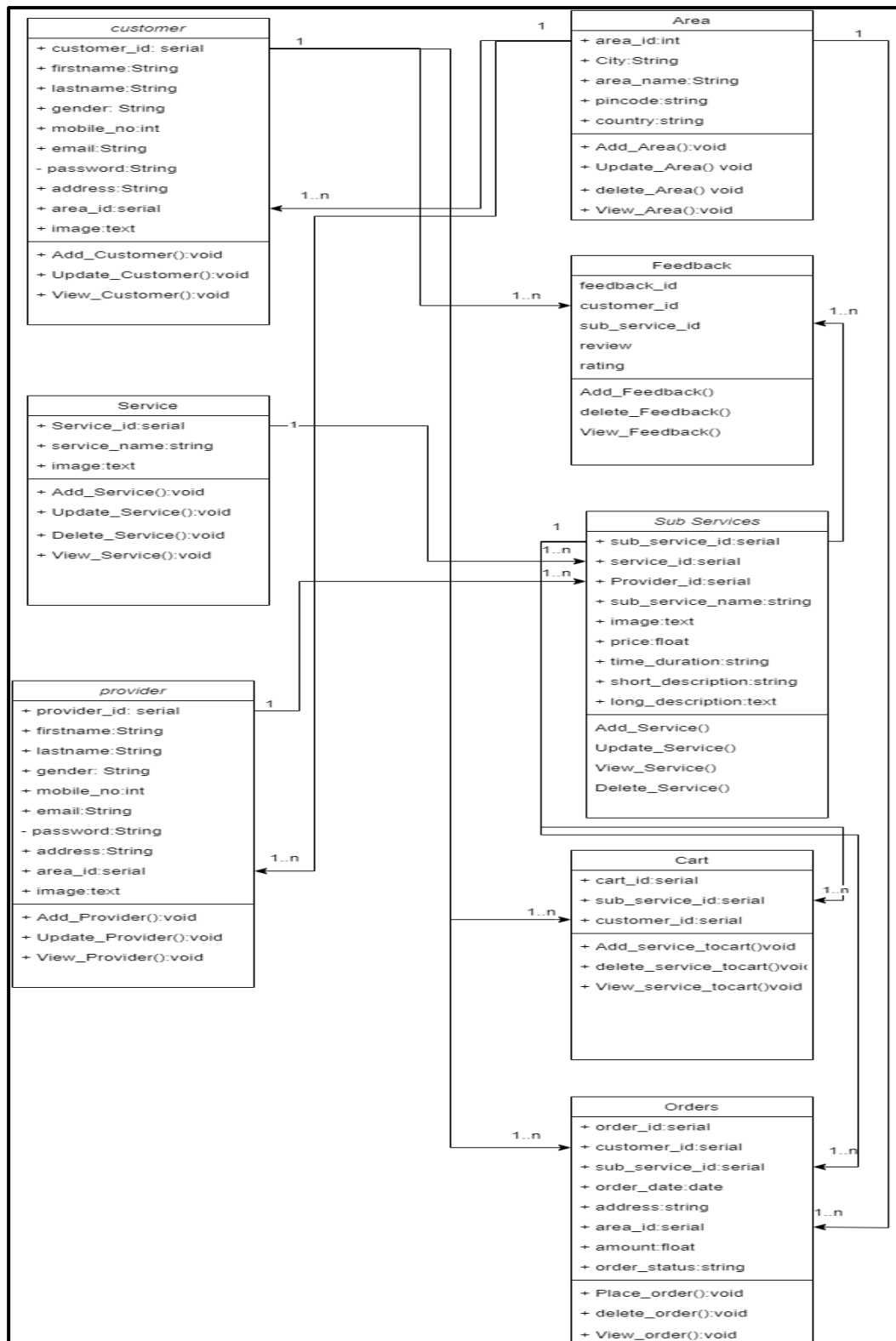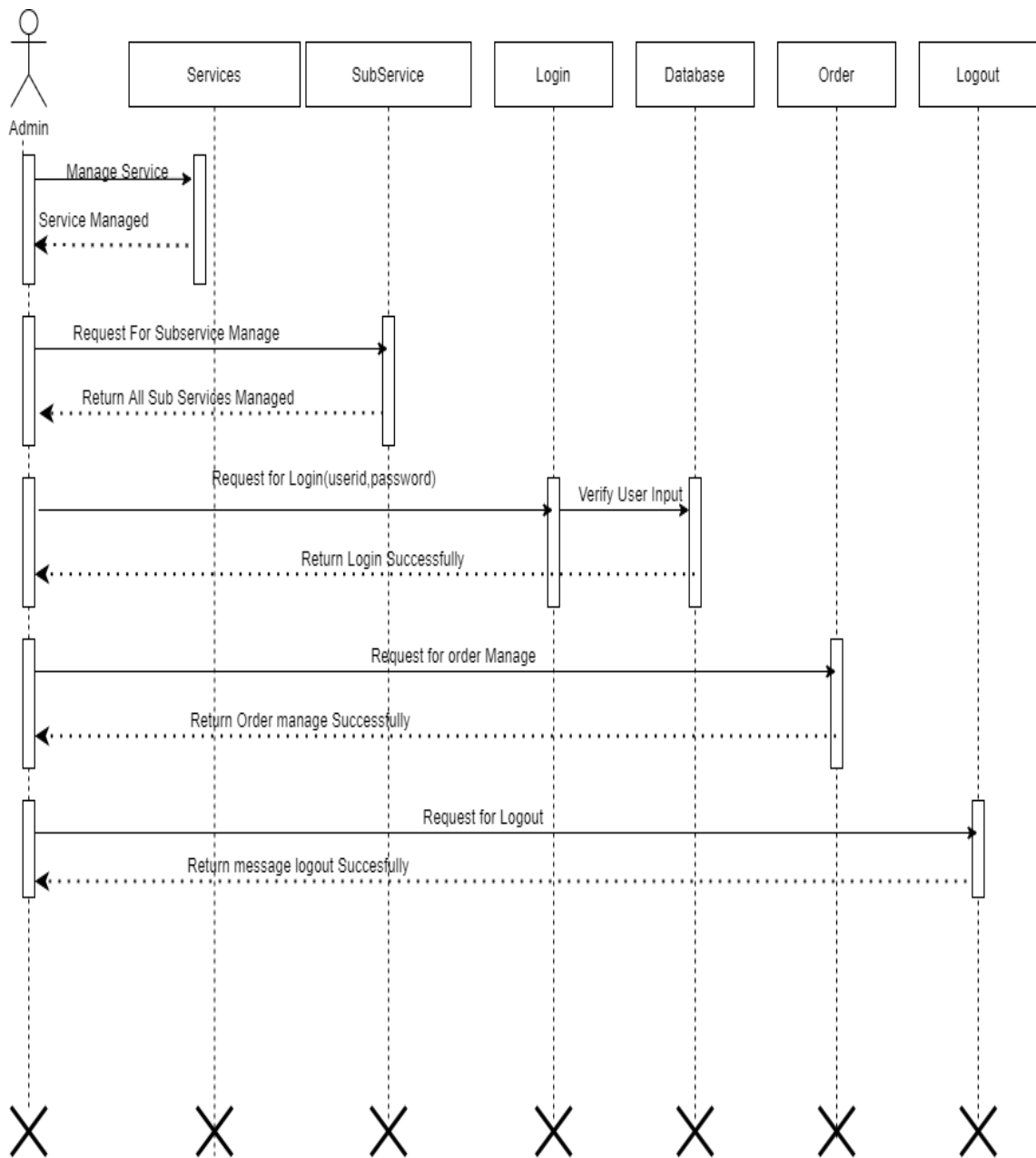
Figure 4 class diagram

4.2.2 Sequence Diagram:
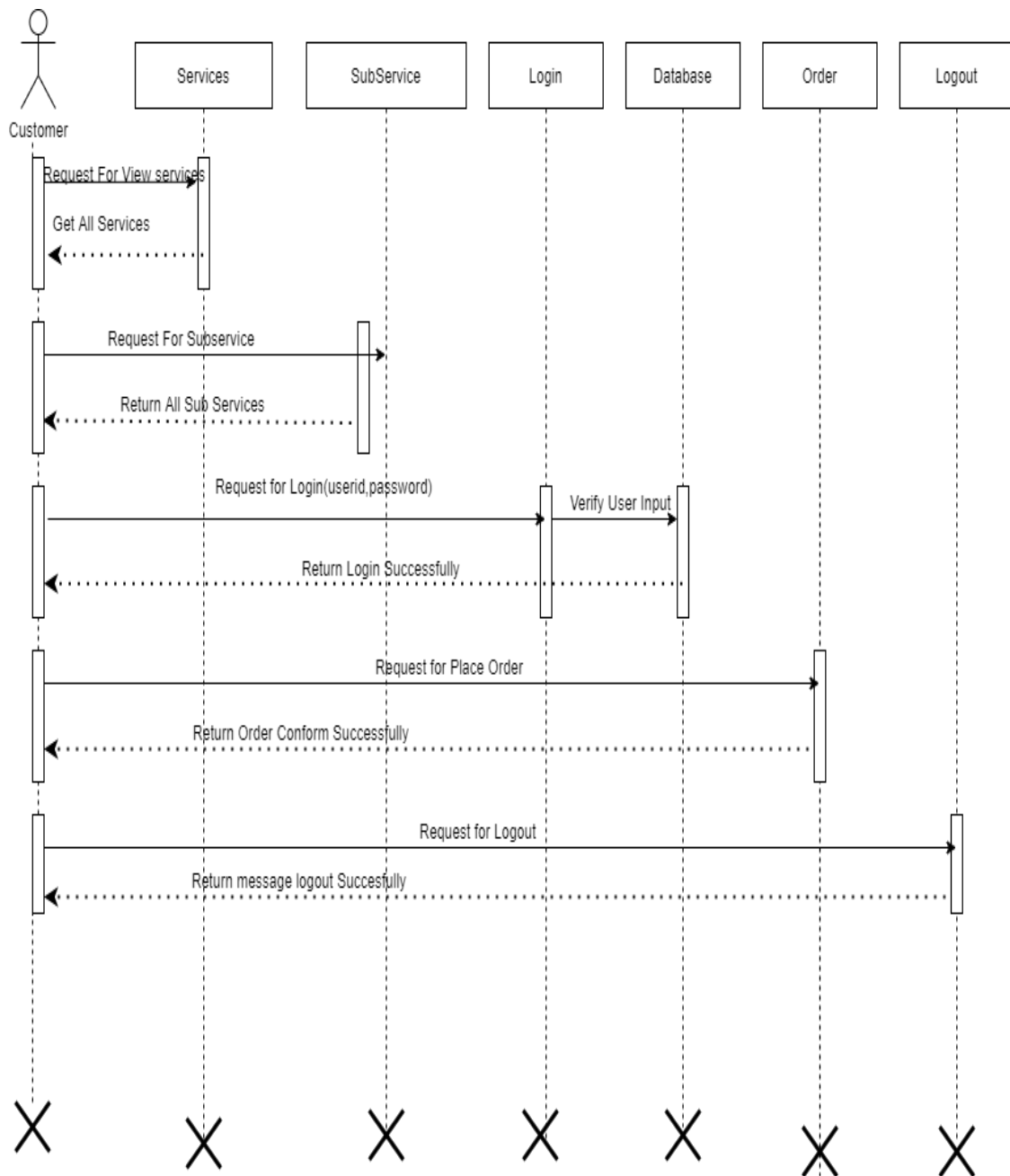
1. Admin

Figure 5 Admin sequance diagram

2. Customer

Figure 6 Customer sequance diagram
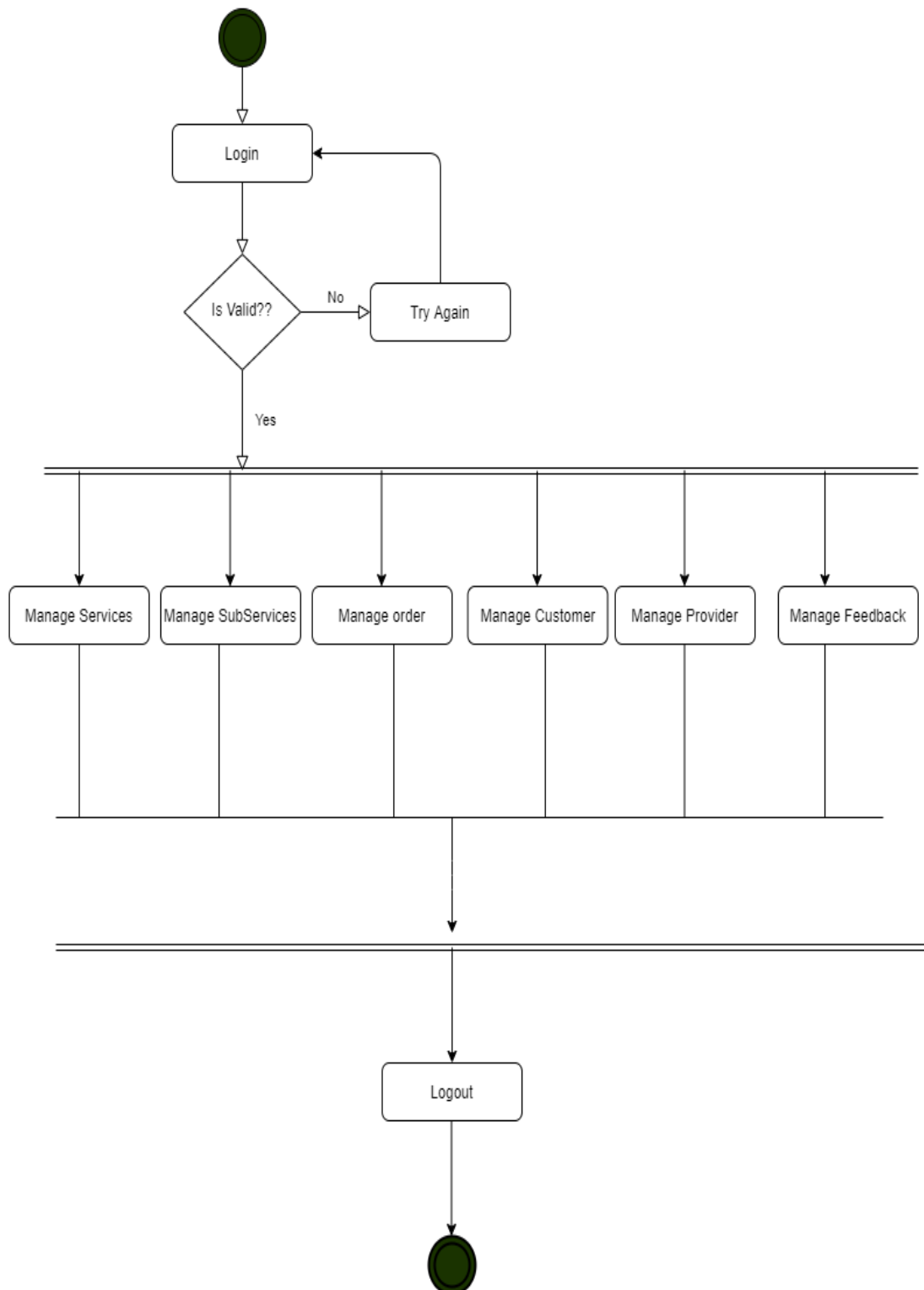
4.2.3 Activity Diagram:

1. Admin
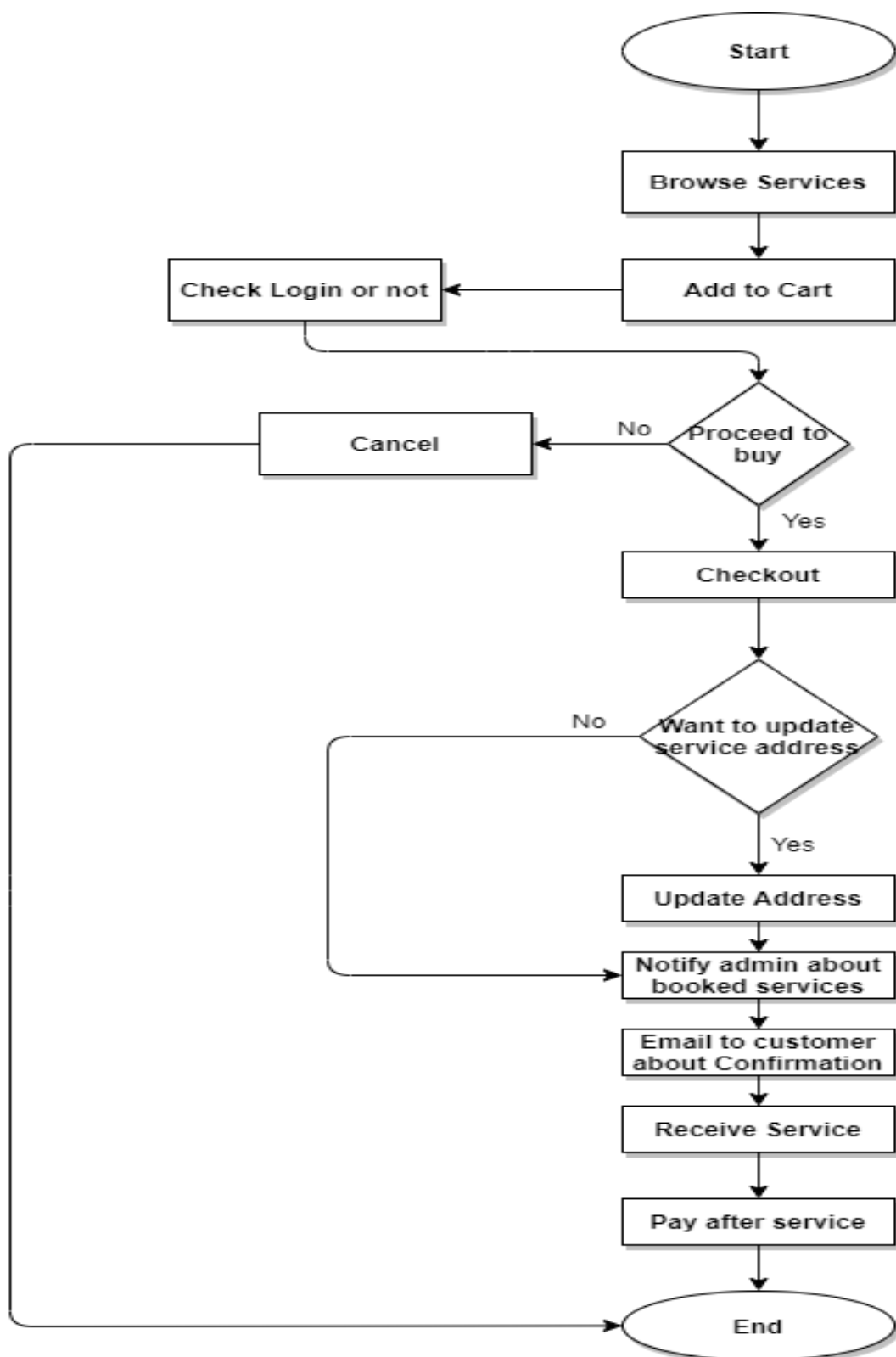

Figure 7 Admin Activity diagram

2. Customer


```
                                    ┌─────────┐
                                    │  Start  │
                                    └─────────┘
                                         │
                                         ▼
                                  ┌────────────────┐
                                  │ Browse Services│
                                  └────────────────┘
                                         │
                                         ▼
   ┌────────────────────┐        ┌────────────────┐
   │ Check Login or not │ ◄───── │   Add to Cart  │
   └────────────────────┘        └────────────────┘

                                    ◇ Proceed to buy ◇
                          No
   ┌──────────┐  ◄────────
   │  Cancel  │
   └──────────┘                         Yes
                                  ┌────────────────┐
                                  │    Checkout    │
                                  └────────────────┘

                                  ◇ Want to update service address ◇
                          No
                                         Yes
                                  ┌────────────────┐
                                  │ Update Address │
                                  └────────────────┘
                                  ┌────────────────────┐
                                  │ Notify admin about │
                                  │  booked services   │
                                  └────────────────────┘
                                  ┌────────────────────┐
                                  │ Email to customer  │
                                  │ about Confirmation │
                                  └────────────────────┘
                                  ┌────────────────┐
                                  │ Receive Service│
                                  └────────────────┘
                                  ┌────────────────┐
                                  │Pay after service│
                                  └────────────────┘
                                         │
                                         ▼
                                    ┌─────────┐
                                    │   End   │
                                    └─────────┘
```

Figure 8 Customer activity diagram

4.2.4 Collaboration Diagram
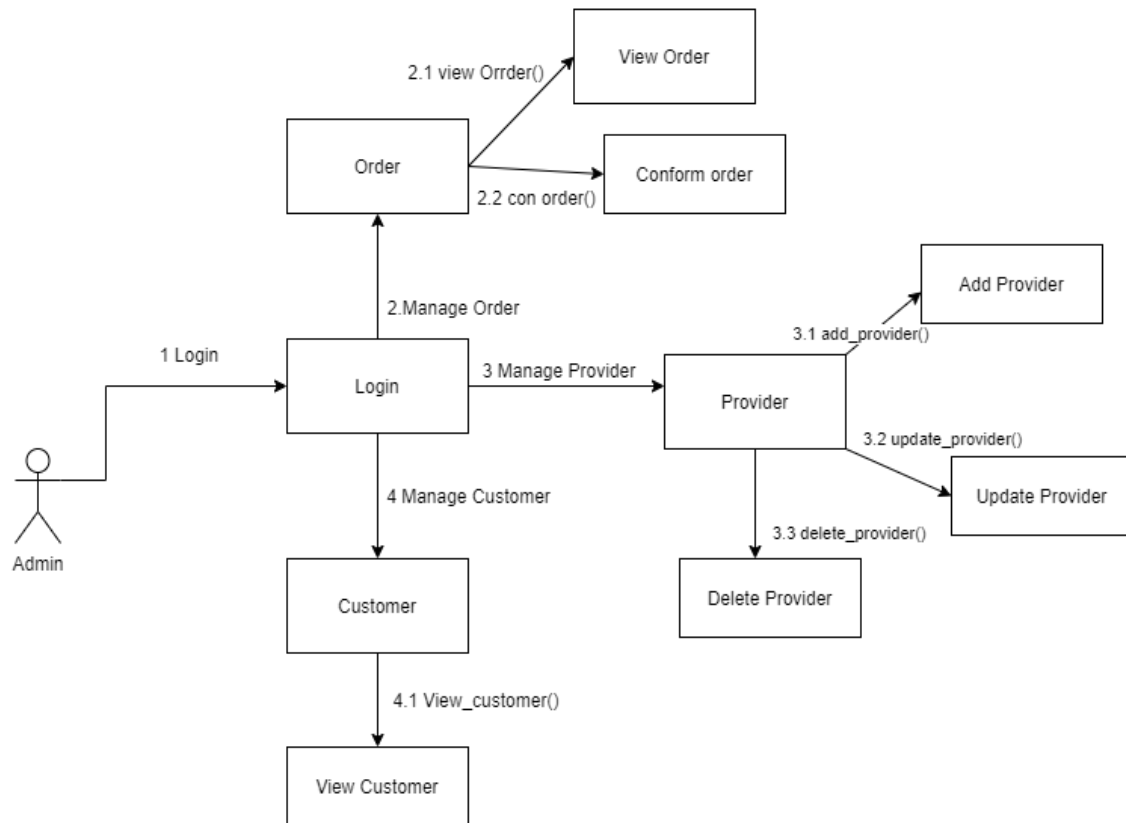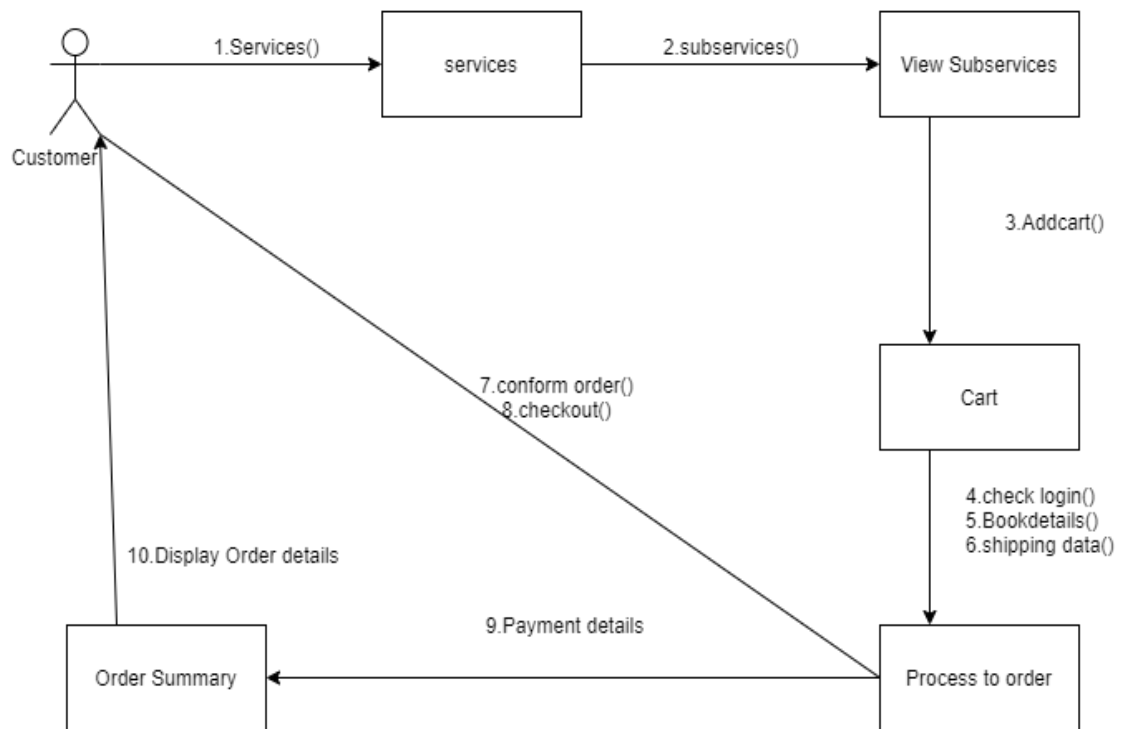
1. Admin

Figure 9 Admin collaboration diagram
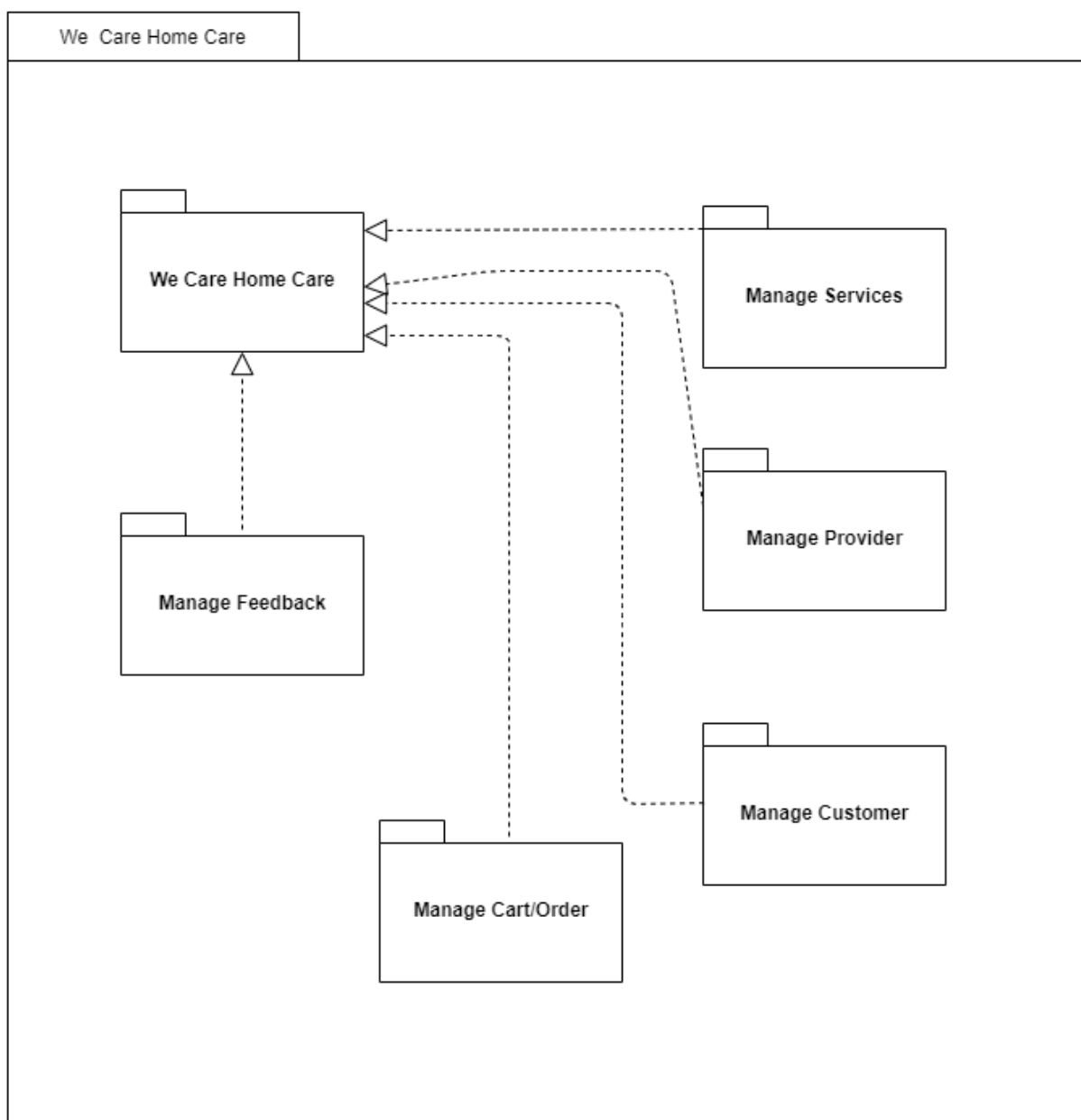
2. Customer

4.2.5 Package Diagram

Figure 10 Package diagram

4.3 Entity Relationship Diagram

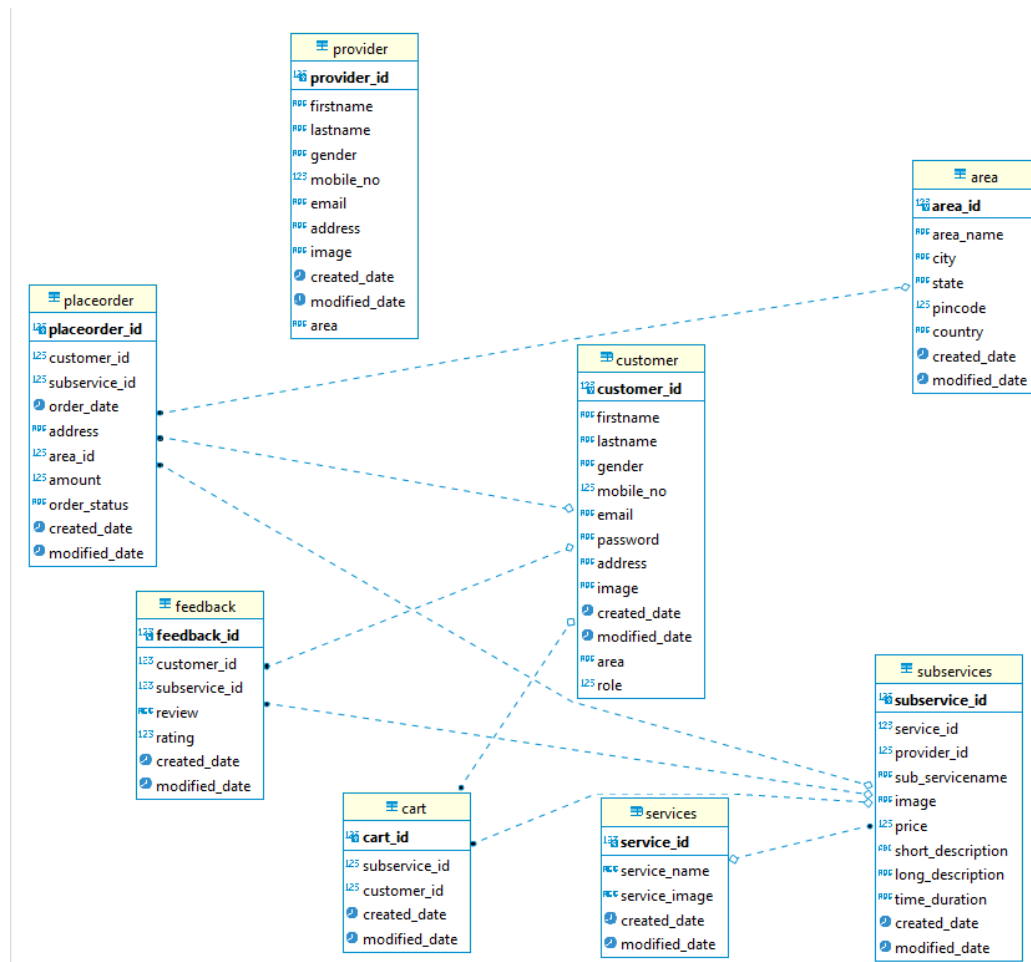*Figure 11 Entity Relationship diagram*

4.4 Data Dictionary

1. Customer

Field	Data Type	Constraints	Description
ID	Alpha-Numeric	Primary key	Store unique id of customer
Firstname	Text	Required	Store firstname of customer
lastname	Text	Required	Store lastname of customer
Gender	Text	Required	Store gender of customer
Mobileno	Float	Required	Store mobileno of customer

Email	Text	Required	Store email of customer
Password	Text	Required	Store password of customer
Address	Text	Required	Store address of customer
Image	Text	Required	Store image of customer
Area	Text	Required	Store area of customer
Created_date	Date	Required	Store date of customer registration
Modified_date	Date	Required	Store date of customer update their details

2. Provider

Field	Data Type	Constraints	Description
ID	Alpha-Numeric	Primary key	Store unique id of provider
Firstname	Text	Required	Store firstname of provider
lastname	Text	Required	Store lastname of provider
Gender	Text	Required	Store gender of provider
Mobileno	Float	Required	Store mobileno of provider
Email	Text	Required	Store email of provider
Address	Text	Required	Store address of provider
Image	Text	Required	Store image of provider
Area	Text	Required	Store area of provider
Created_date	Date	Required	Store date of provider registration
Modified_date	Date	Required	Store date of provider update their details

3. Services

Field	Data Type	Constraints	Description
ID	Alpha-Numeric	Primary key	Store unique id of Services
Service_name	Text	Required	Store service name

Image	Text	Required	Store image of service
Created_date	Date	Required	Store date
Modified_date	Date	Required	Store date of service update

4. SubServices

Field	Data Type	Constraints	Description
ID	Alpha-Numeric	Primary key	Store unique id of SubServices
Provider_id	Alpha-Numeric	Foreign key(provider)	
Service_id	Alpha-Numeric	Foreign key(service)	
SubService_name	Text	Required	Store subservice name
Image	Text	Required	Store image of subservice
Price	Number	Required	Store price of subservice
Short_description	Text	Required	Store short description
long_description	Text	Required	Store long description
Time_duration	Text	Required	Store time
Created_date	Date	Required	Store date
Modified_date	Date	Required	Store date of sub service update

5. Cart

	Data Type	Constraints	Description
ID	Alpha-Numeric	Primary key	Store unique id of cart
customer_id	Alpha-Numeric	Foreign key(customer)	
subService_id	Alpha-Numeric	Foreign key(subservice)	
Created_date	Date	Required	Store date
Modified_date	Date	Required	Store date of cart update

6. PlaceOrder

Field	Data Type	Constraints	Description
ID	Alpha-Numeric	Primary key	Store unique id of order
customer_id	Alpha-Numeric	Foreign key(customer)	

subService_id	Alpha-Numeric	Foreign key(subservice)	
Order_date	Date	Required	Store the order date
Address	Text	Required	Store deliver address
Area	Text	Required	Store area
Amount	Number	Required	Store price of service
Order_status	Text	Required	Store the order status
Created_date	Date	Required	Store date
Modified_date	Date	Required	Store date of order update

7. Feedback

Field	Data Type	Constraints	Description
ID	Alpha-Numeric	Primary key	Store unique id of feedback
customer_id	Alpha-Numeric	Foreign key(customer)	
subService_id	Alpha-Numeric	Foreign key(subservice)	
Review	Text	Required	Store the review
Rating	Number	Required	Store the rating
Created_date	Date	Required	Store date
Modified_date	Date	Required	Store date of feedback update