

**SYSTEM DEVELOPMENT PROJECT
ON**

**MyLaundry
(Web Based Application)**

**IN PARTIAL FULFILMENT OF
BACHELOR'S DEGREE IN COMPUTER APPLICATIONS
(B.C.A.) GUJARAT UNIVERSITY (2020-2021)**

SUBMITTED BY

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105	Solanki Rohitkumar Manubhai
113	Thakkar Karan Dilipkumar

**SOM-LALIT INSTITUTE OF COMPUTER APPLICATIONS
(Affiliated to Gujarat University, BCA Programme)
SLIMS Campus, Nr. Xavier's corner, University Road, Navrangpura,
Ahmedabad – 380 009.**



SLICA

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CERTIFICATE

This is to certify that SOFTWARE DEVELOPMENT PROJECT

“MyLaundry” is developed and submitted to Gujarat University by

Mr. Sirsolkar Abhishek Subhashbhai

Mr. Solanki Rohitkumar Manubhai

Mr. Thakkar Karan Dilipkumar

In partial fulfillment of the requirement for the award of the

“Bachelor’s Degree in Computer Applications (B.C.A.)”

in the year 2020-2021.

This is the original work and carried out under guidance and supervision.

We further certify that to the best of our knowledge and belief the matter
presented in this project report is bonafied.

Name of guide
Prof. Khyati Shah

I/c Director
Mr. K. J. Patel

HASMUKH LAUNDRY SERVICES

ADDRESS :- SIR LAKHAJIRAJ ROAD ,
SANGANVA CHOWK , TRIKON BAG , RAJKOT -360007

CERTIFICATE

This is to certify that

Mr. Sirsolkar Abhishek Shubhash ,

Mr. Solanki RohitKumar ManuBhai and

Mr. Thakkar Karan DilipBhai

Student of Som-Lalit Institute of Computer Application (SLICA),

Ahmedabad, has done and successfully completed their Software

Development Project Phase: 1

“MYLAUNDRY”

In our organization during 15th Jun 2020 to 20th Nov 2021.

Their work and conduct during the project was found very good.

We wish them all the best in their future endeavors.

Date :

Organization Seal

Authorized Signatory

✉ **mylaundrybusiness@gmail.com**

☎ **884905951**

Acknowledgement

We extend our sincere thanks to our college “Som-Lalit Institute Of Computer Application (SLICA)”, our respected principal Mr. K. J. Patel, our respected faculties for giving us the golden opportunity to work on the project of “MYLAUNDRY” by providing us their precious time, deep and valuable knowledge to make project – a success.

We extend our warm thanks to our project guide Prof. Khyati Shah for her guidance and constant encouragement throughout the semester by providing their valuable time, advices for various problems whenever we needed for deciding the objectives of our report.

We extend our grateful thanks to Mr. Dilipbhai Thakkar, the owner of “Hashmukh Laundry Services”, for providing us the opportunity to work for their software creation of their Laundry Shop.

We express our thanks to our Parents, classmates and other external sources who helped us directly or indirectly.

Mr. Sirsolkar Abhishek S.
Mr. Solanki Rohit M.
Mr. Thakkar Karan D.

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❖ Introduction

- MyLaundry will be website that helps customer to select packages (yearly , monthly) or service (e.g. Wash , iron and dry cleaning) and it will also provide pickup and delivery from customer home.
- It will also help admin manage customer details, order details and keep records of customers , services and package online.

❖ Company Profile

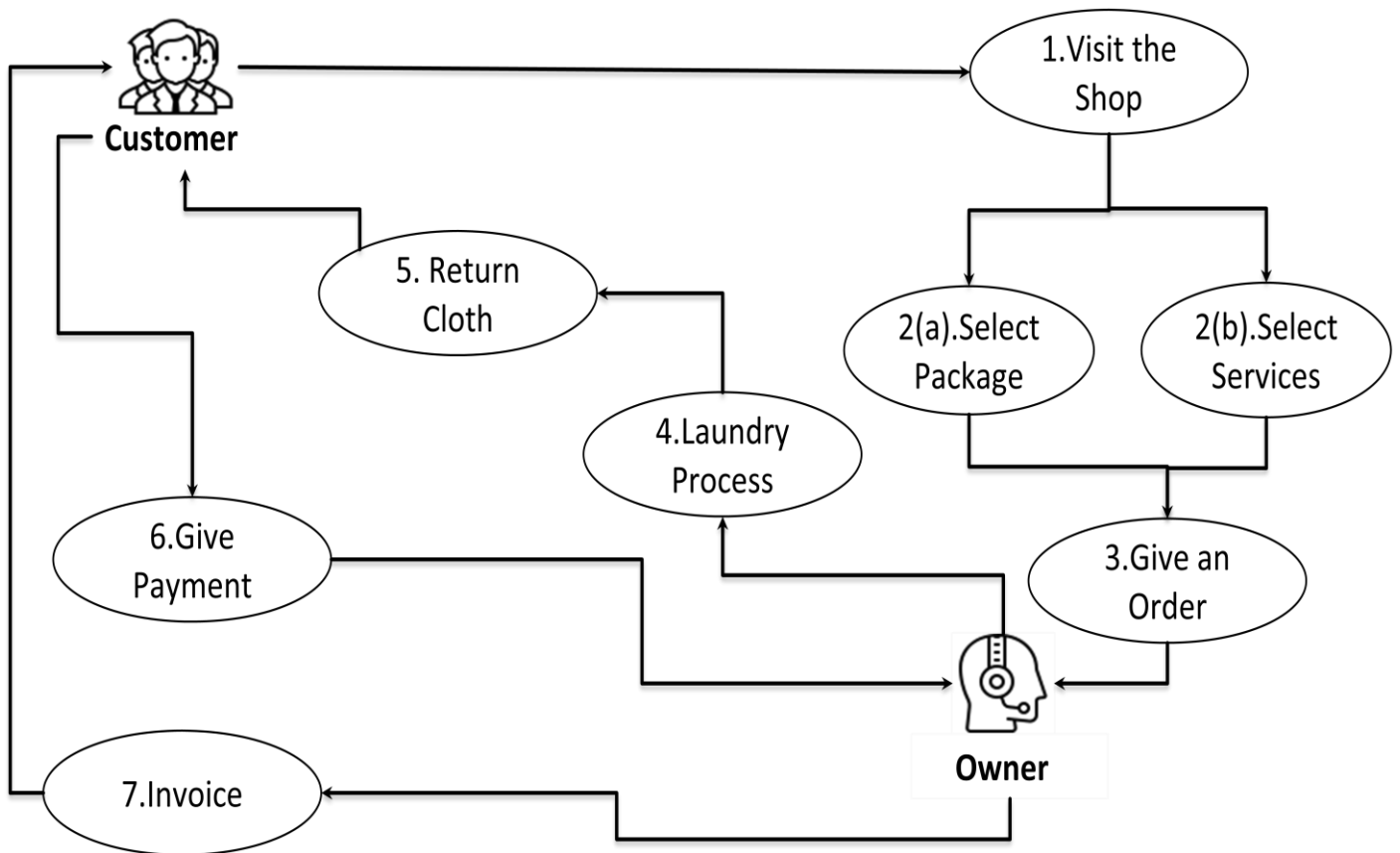
Company Name : Hashmukh Laundry Services

Address : Sir Lakhajiraj Road,
Sanganva Chowk,
Trikon Baag,
Rajkot-360 007

Contact No. : +91 8849059151

Email Id : mylaundrybusiness@gmail.com

❖ Process Description



❖ Existing System

- In the existing system all transaction & dealings of orders are done manually & Invoice is hand written.

[illegible]

❖ **Limitations of Existing System**

- Customers have to visit the shop to get the details for the order and it is time consuming.
- Maintaining customer information is a tedious because of paper work.
- No records are maintained for customer's feedback & rating.
- Customer can't check the status of their order.
- Report can't be generated.
- Customers have to visit the shop to get and give clothes, pay and get bills.

❖ **Proposed System**

➤ Proposed system has 4 users:

1. Admin
2. Employee
3. Customer
4. Visitor

❖ **Admin**

- Login
- Manage Profile
- Manage Employee Details
- Manage Customer Details
- Manage Appointments
- Manage Order Details
- Manage Services Details
- Manage Package(monthly , yearly)
- Manage Offers & Discount
- Manage Cloth's type price list
- Manage Complains & Queries
- Generate Invoice
- View Ratings & Feedback
- Send Notification to Customer
- Generate Report

❖ **Employee**

- Login
- Manage Profile
- View Customer Details
- View Appointment
- Pick-Up Cloth From Customer Home
- View Order Details
- Manage Order Status



Customer

- Login
- Manage Profile
- View and search package & services details
- Select Packages & Services
- Take Appointment
- View Cloth type & Price List
- View Offers & Discount
- Manage Cart
- Place Orders
- View Order history
- View Order Status
- Give feedback & Rating
- Get an e-Invoice
- Send Complaints & Queries
- Receive notification from Admin



Visitor

- Registration As customer
- View and search services & Packages
- Send Inquiry
- View Complain & Queries
- View Rating & Feedback

❖ Objectives of Proposed System

- Customer can see and give orders from any place any time using internet.
- Admin can easily maintain all the detail of customer and order.
- Customer can select individuals services and packages as per their requirements.
- Feedbacks and ratings given by customers can be easily recorded.
- Provide more reach and ease of management to the Laundry.
- Reports can be easily generated.

❖ Hardware and Software Requirement

➤ Hardware:

- Processor : Intel Core i3
- RAM : 4 GB
- Hard Disk : 1TB

➤ Software:

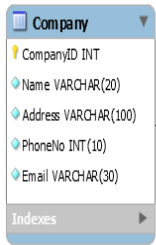
- Front End : ASP.NET
- Operating System : Windows 10
- IDE : Microsoft Visual Studio 2010
- Back End : SQL Server 2008
- Framework : .Net Framework 4.0
- Web Server : IIS
- Presentation Tool : Microsoft PowerPoint2016
- Diagram Tool : Visual Paradigm 8.0
- Programming Language : C#

❖ **Inputs :**

- Customer Details
- Employee Details
- Service Details
- Appointment Details
- Order Details
- Cloth type & Price List
- Package Details
- Delivery Details
- Feedback & Rating
- Complain & Queries

❖ **Outputs :**

- Customer detail (Area Wise)
- Employee detail
- Order Report
- Appointment Report (daily , weekly)
- Cloth type price list Report
- Package detail
- Invoice
- Delivery Report



❖ Use-Case Diagram:



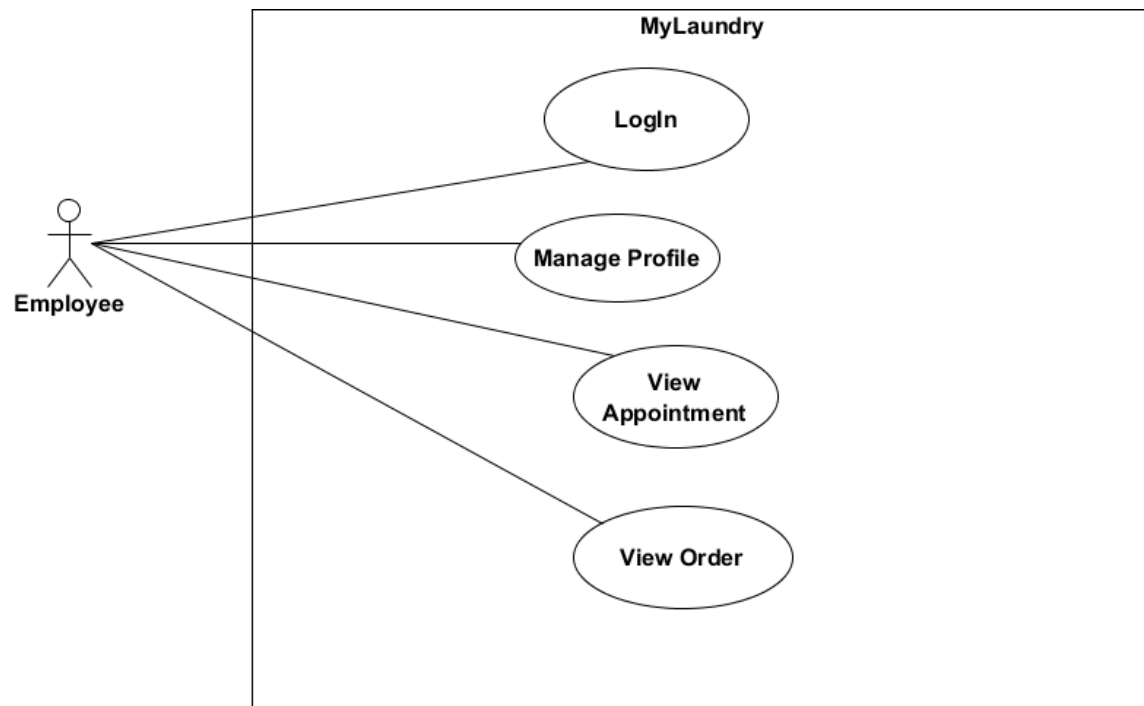
➤ Admin :



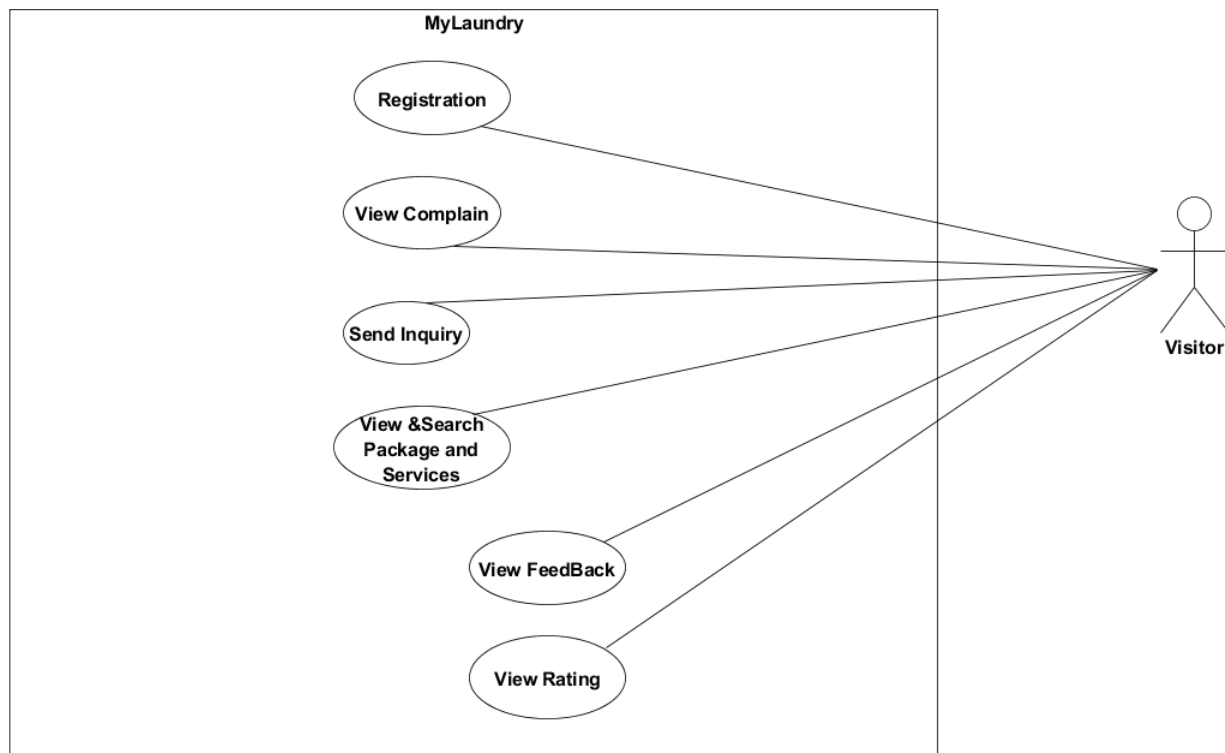
➤ Customer :



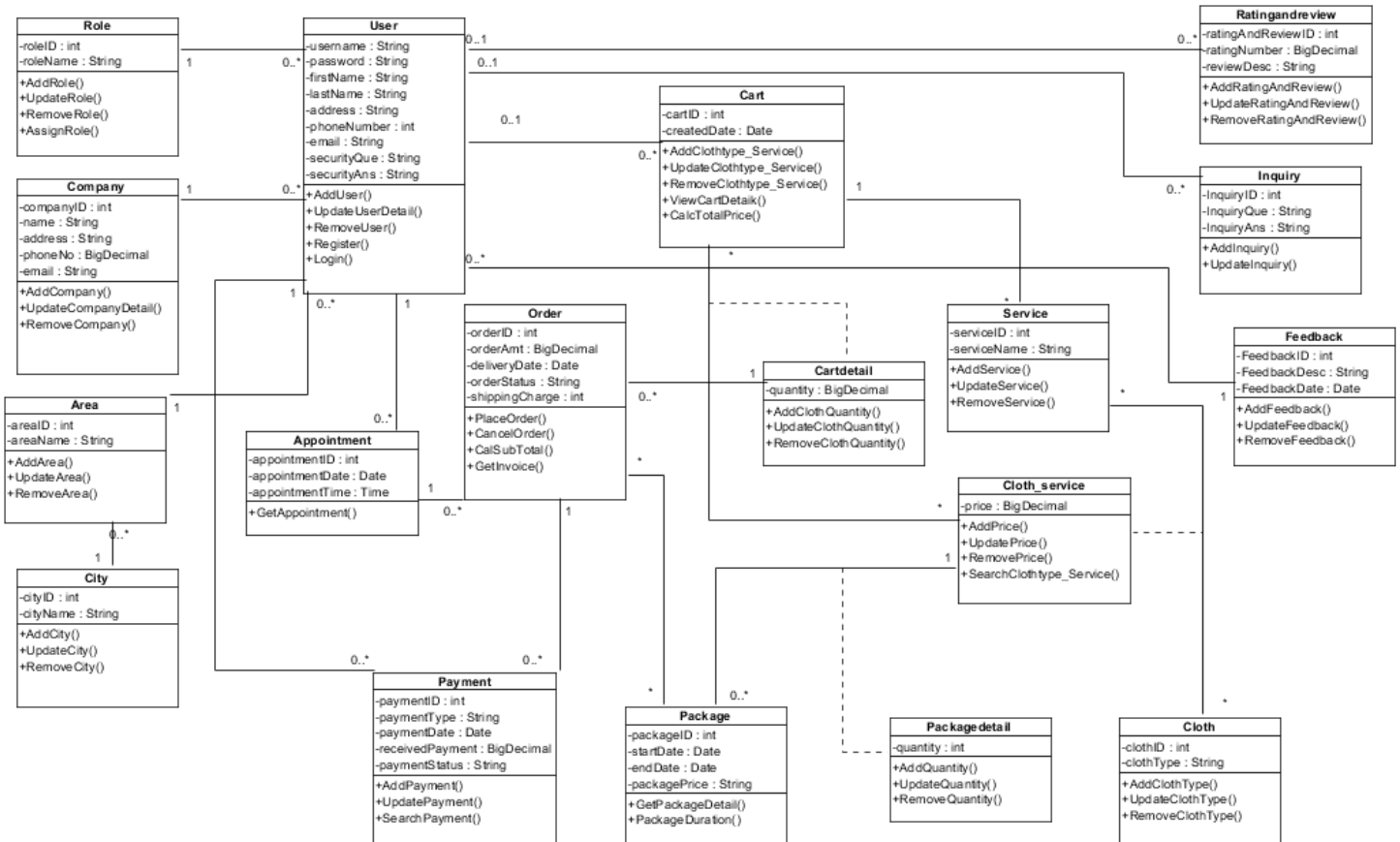
➤ Employee :



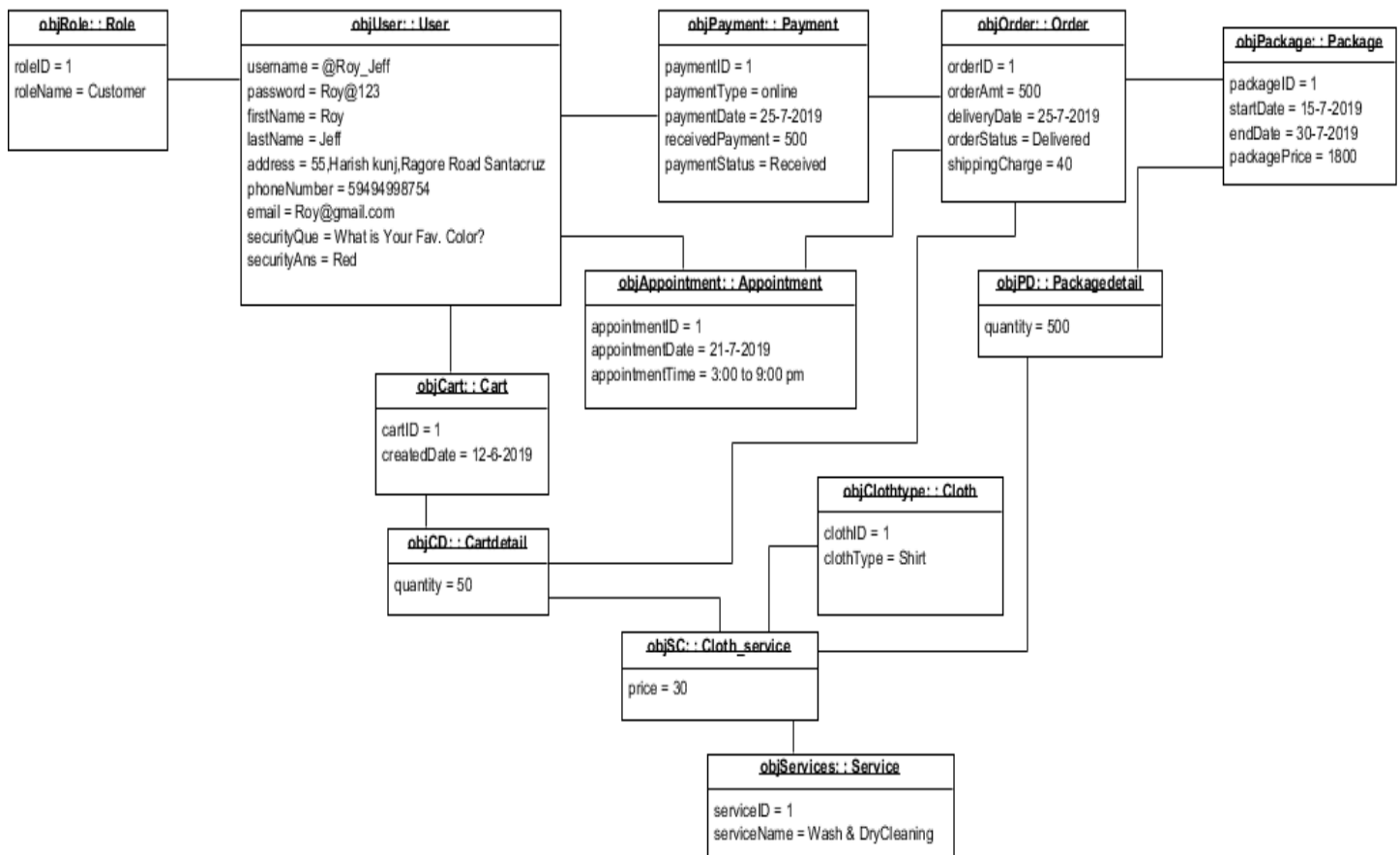
➤ Visitor :



❖ Class Diagram :

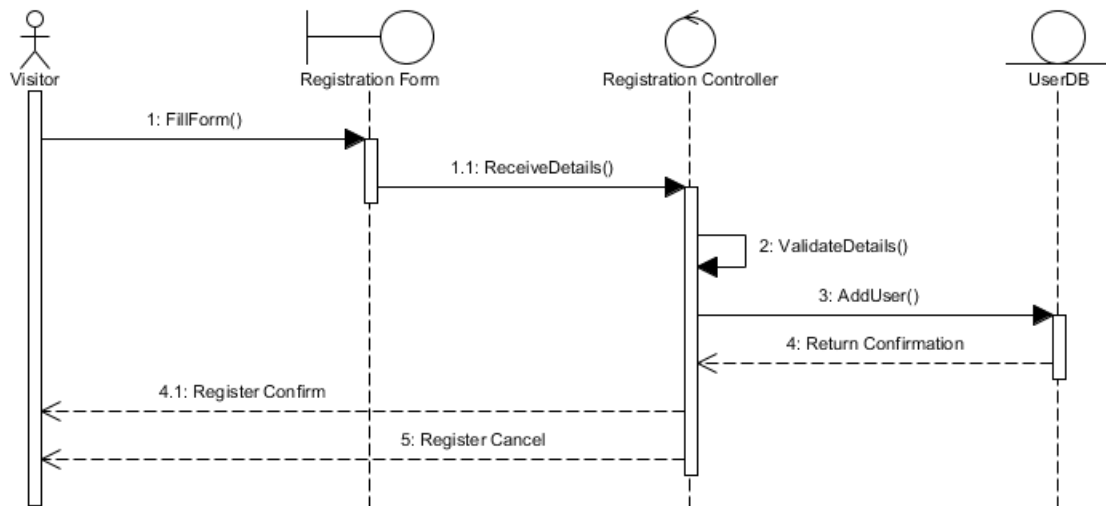


❖ Object Diagram :

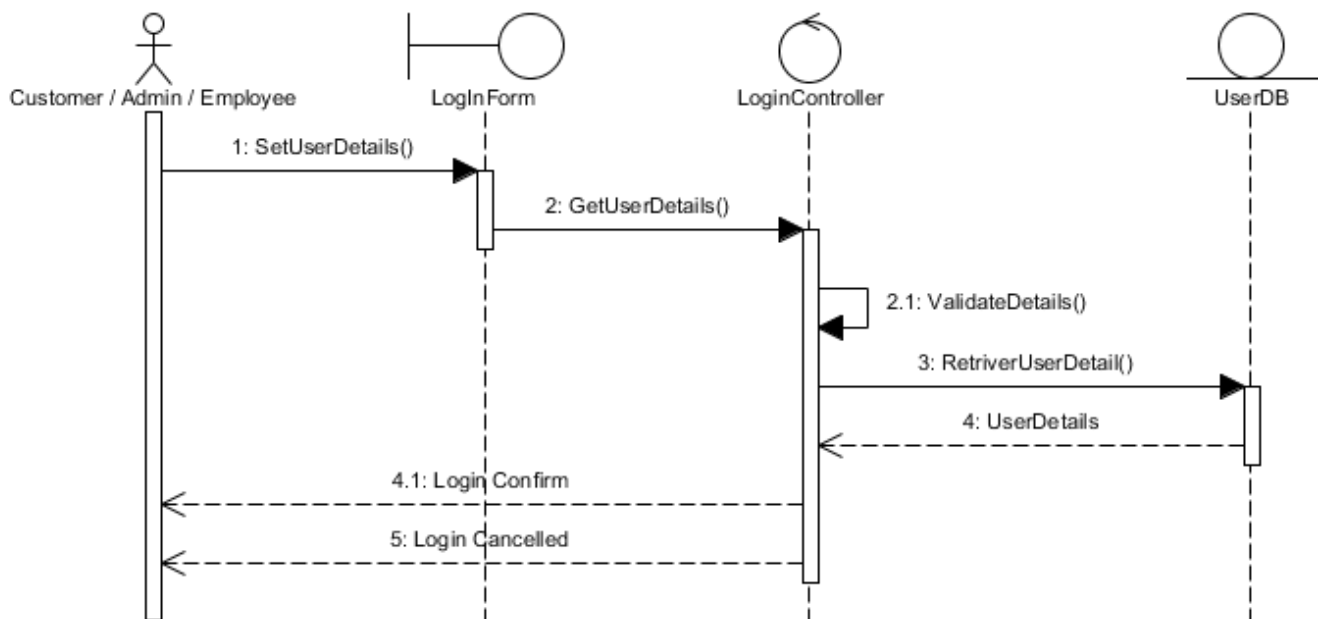


❖ Sequence Diagram :

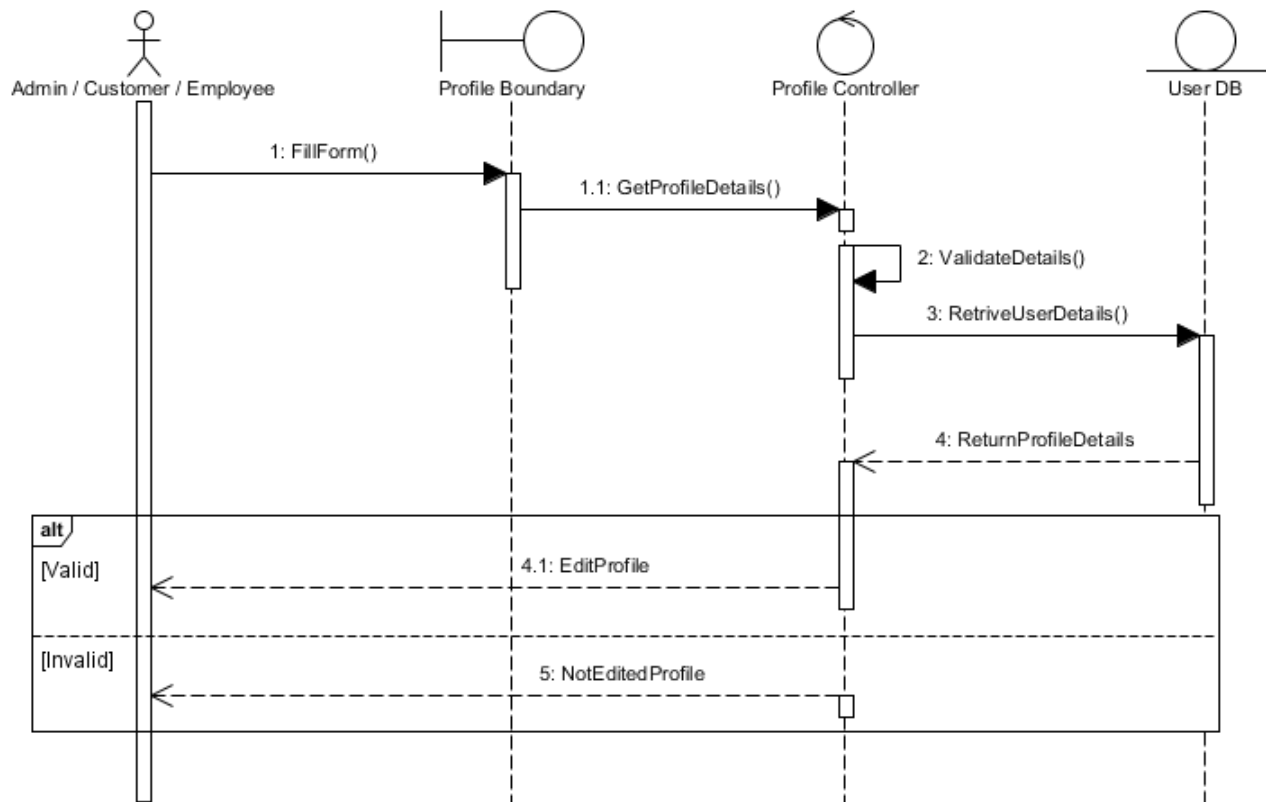
➤ Registration :



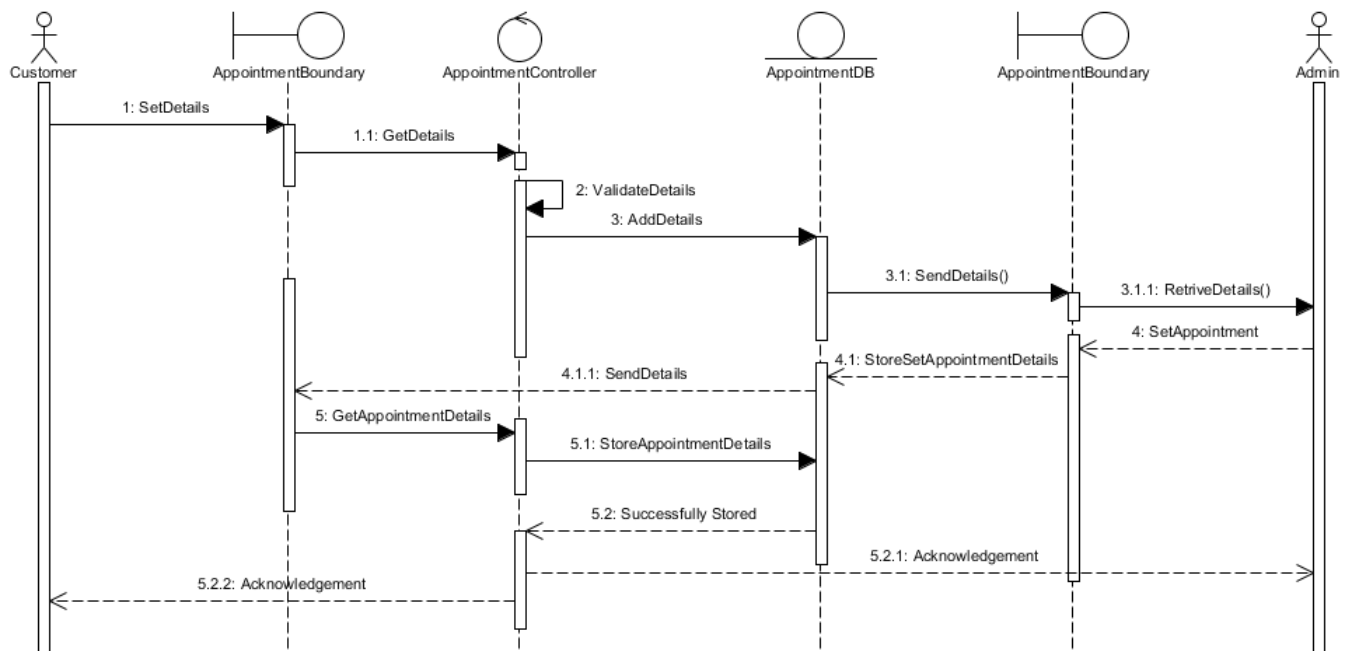
➤ Login :



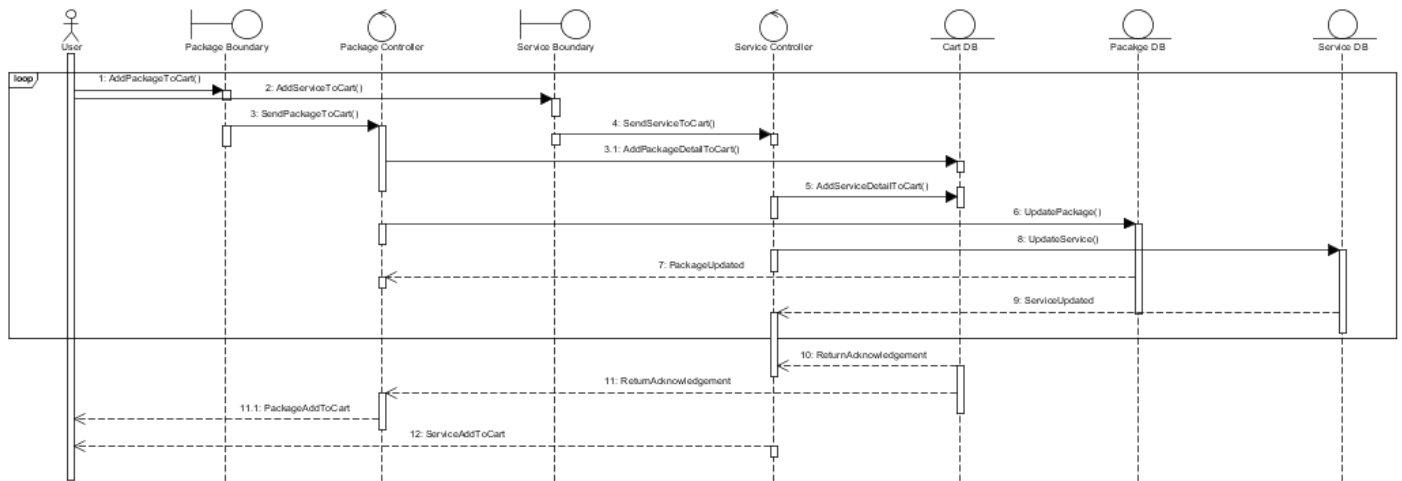
➤ Manage Profile :



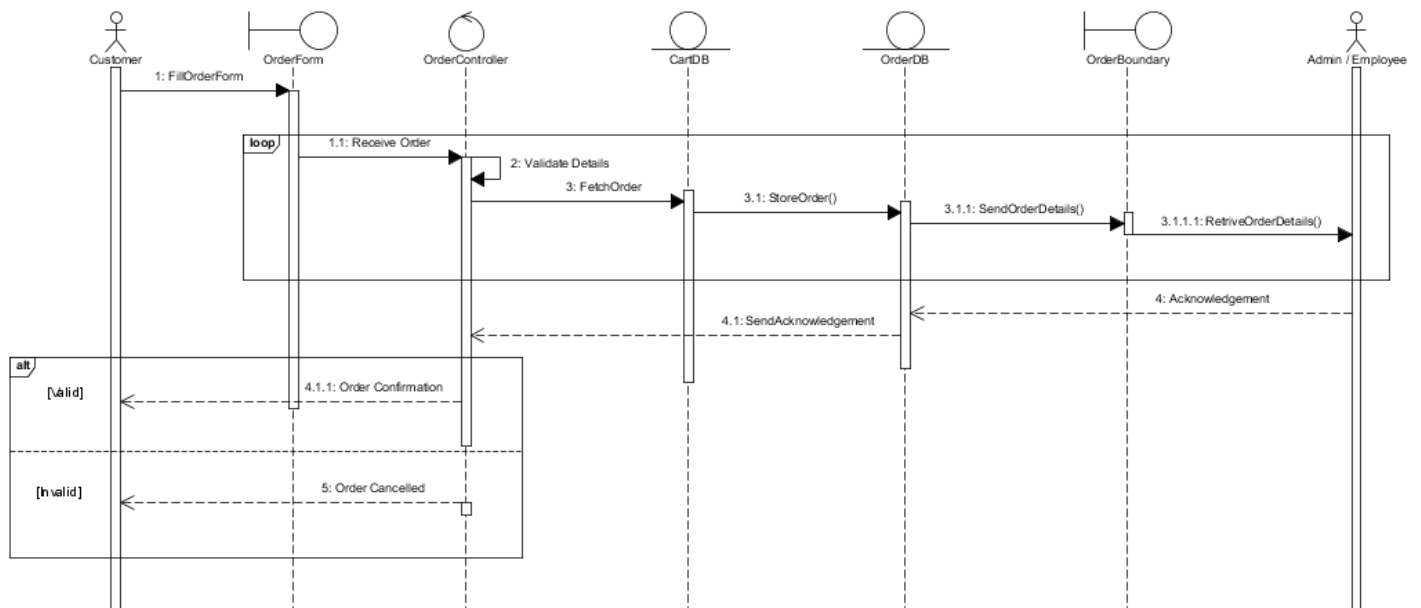
➤ Appointment :



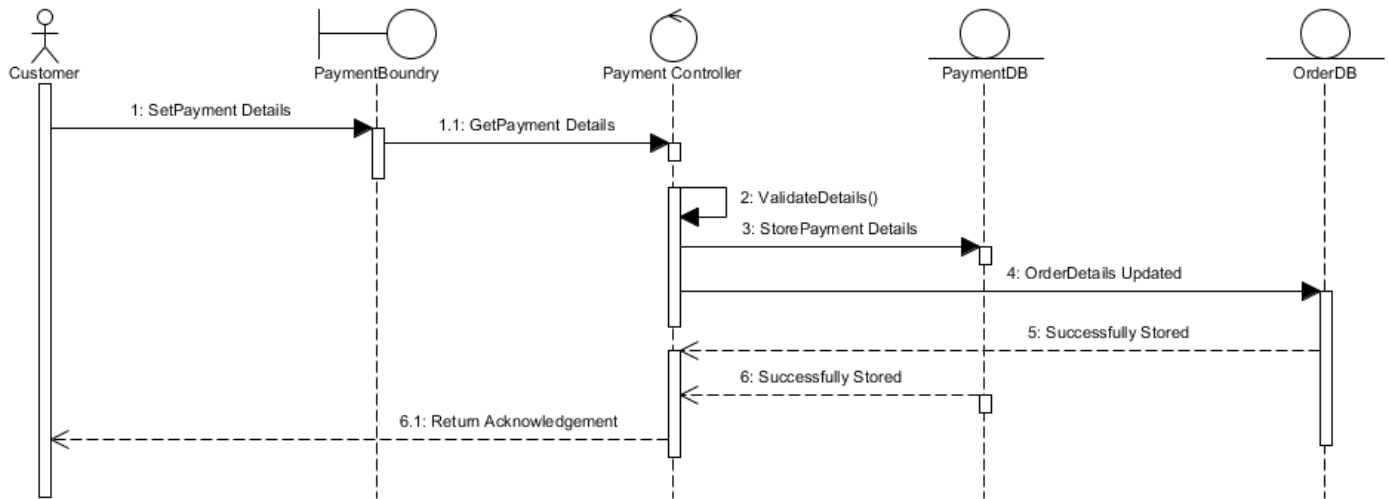
➤ Manage Cart :



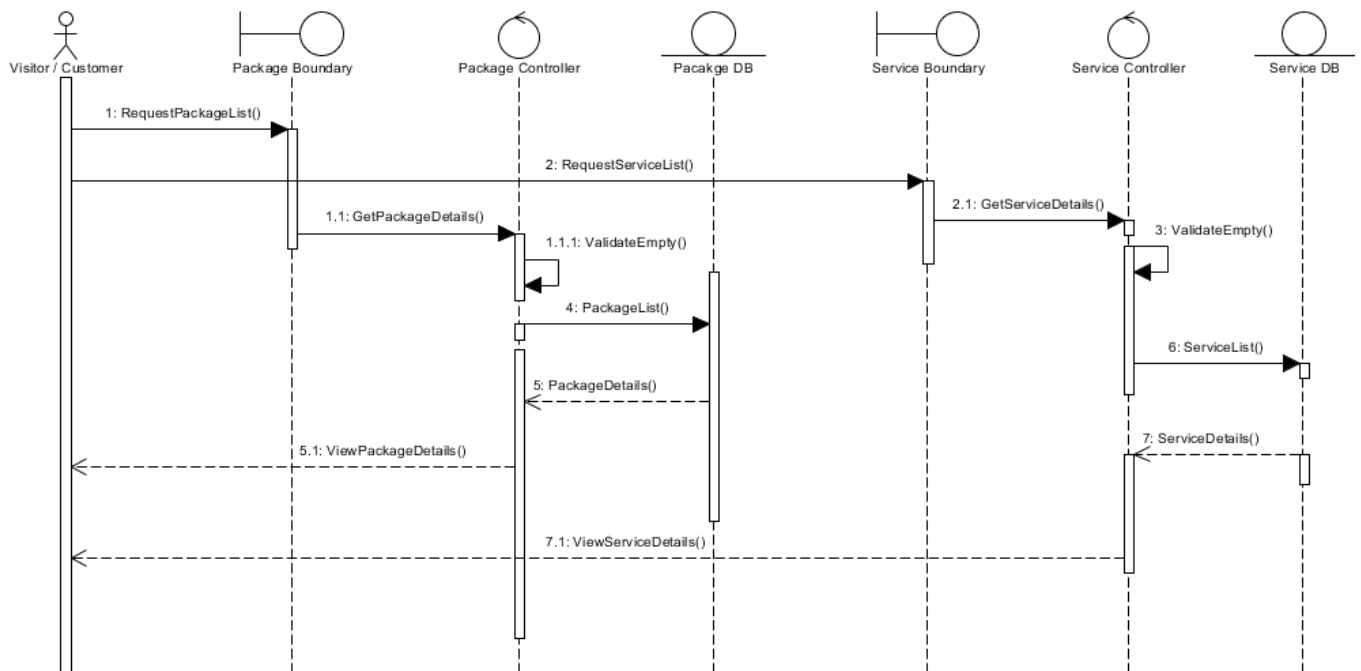
➤ Place Order :



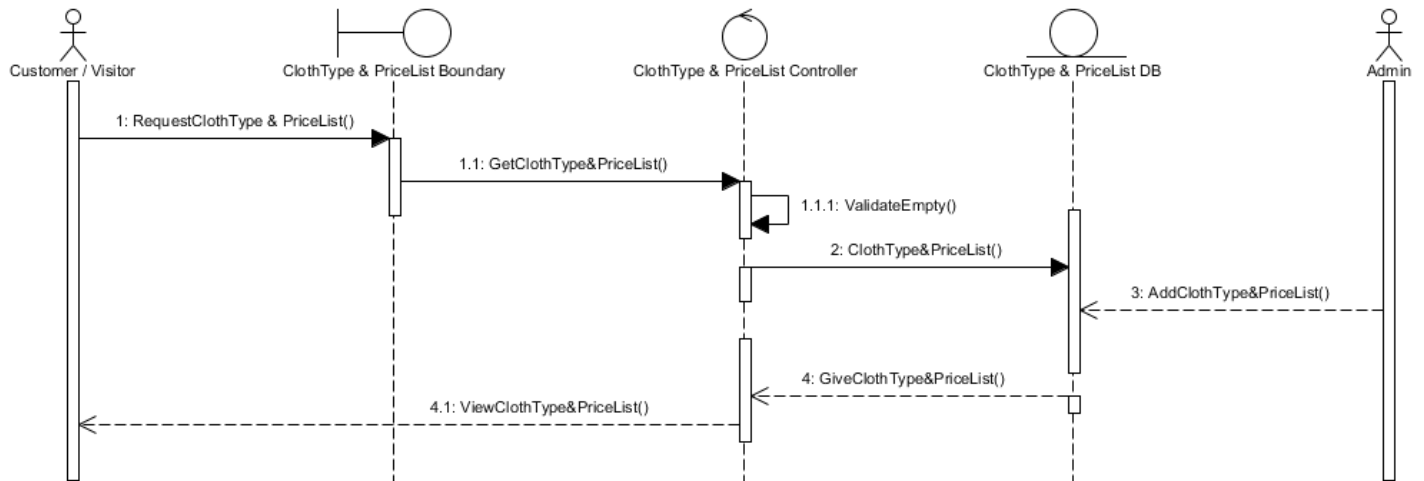
➤ Payment :



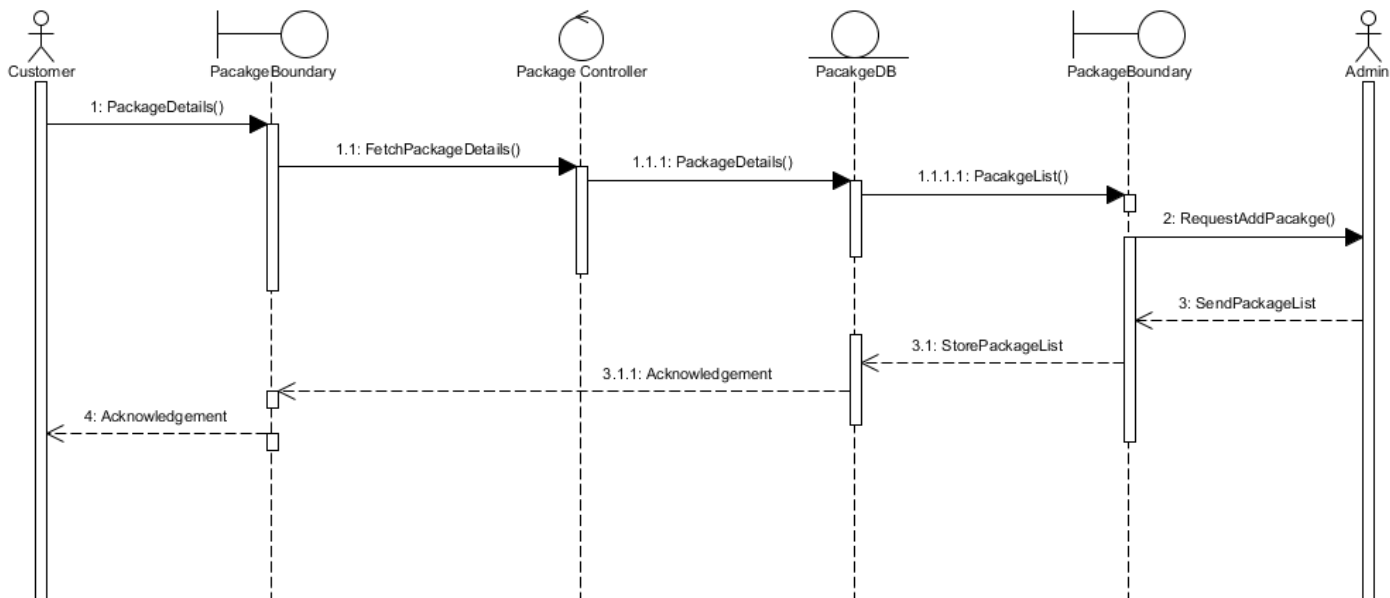
➤ View & Search Packages And Services :



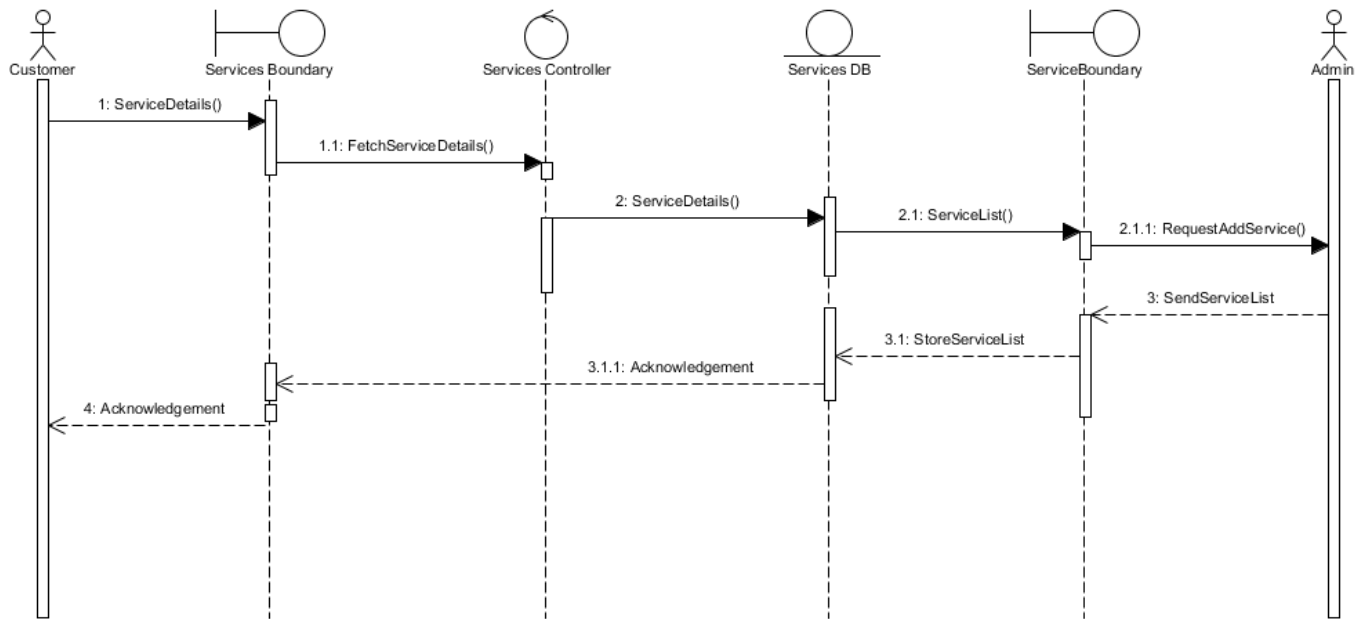
➤ View Cloth & Pricelist :



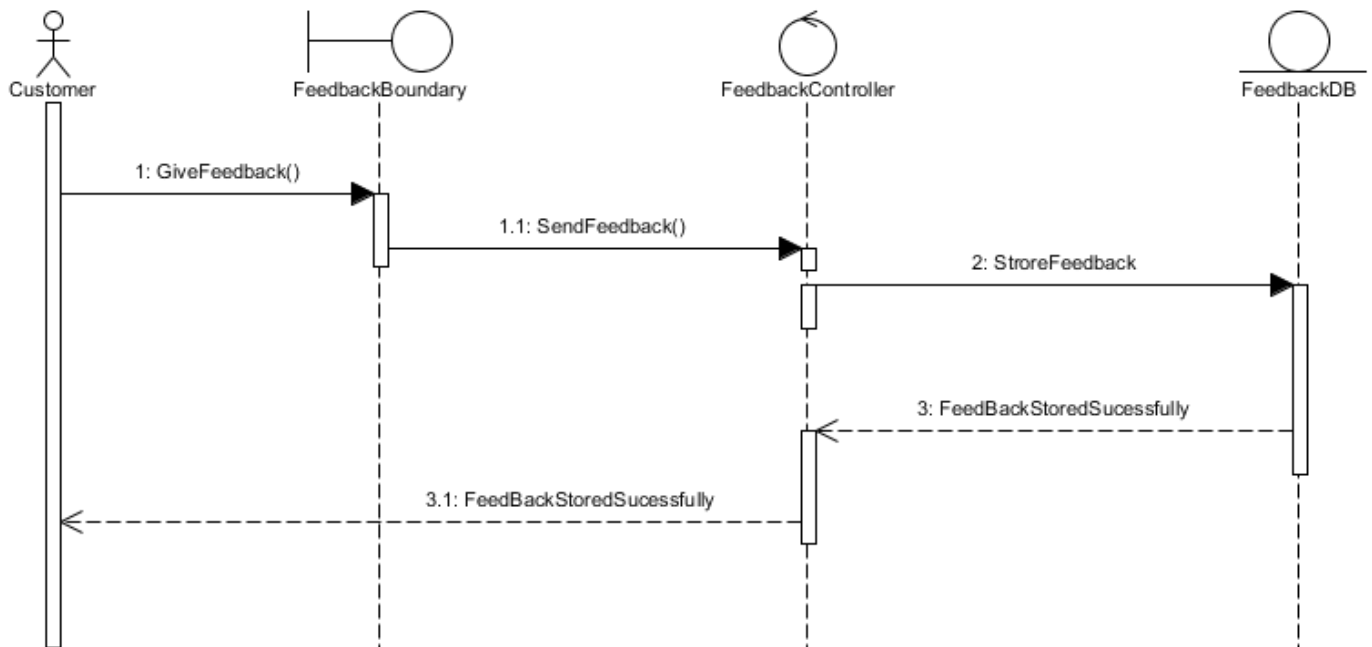
➤ Select & Manage Packages :



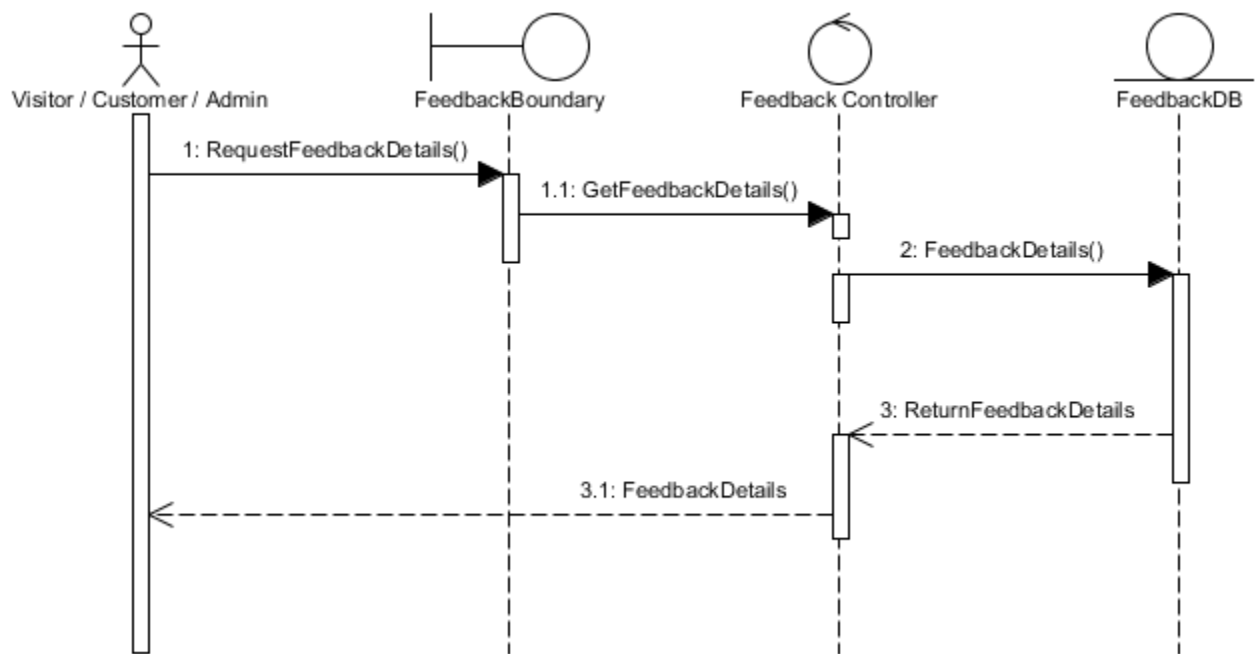
➤ Select & Manage Services :



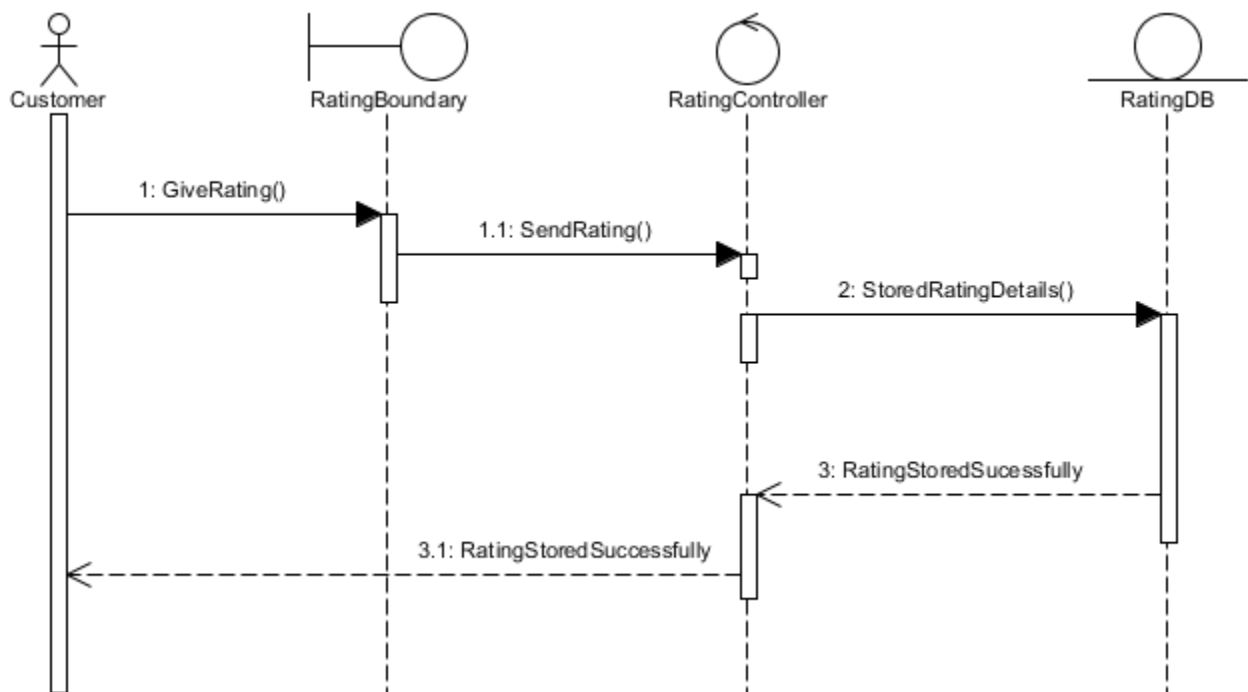
➤ Feedback :



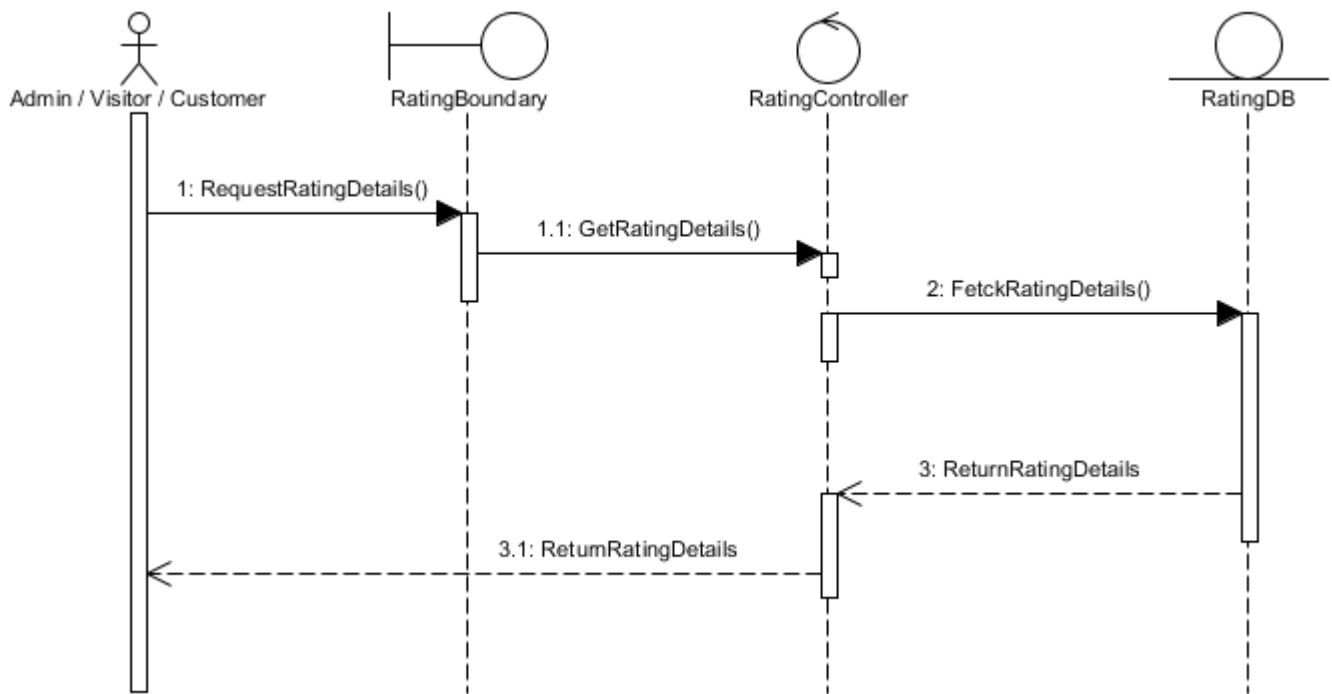
➤ View Feedback :



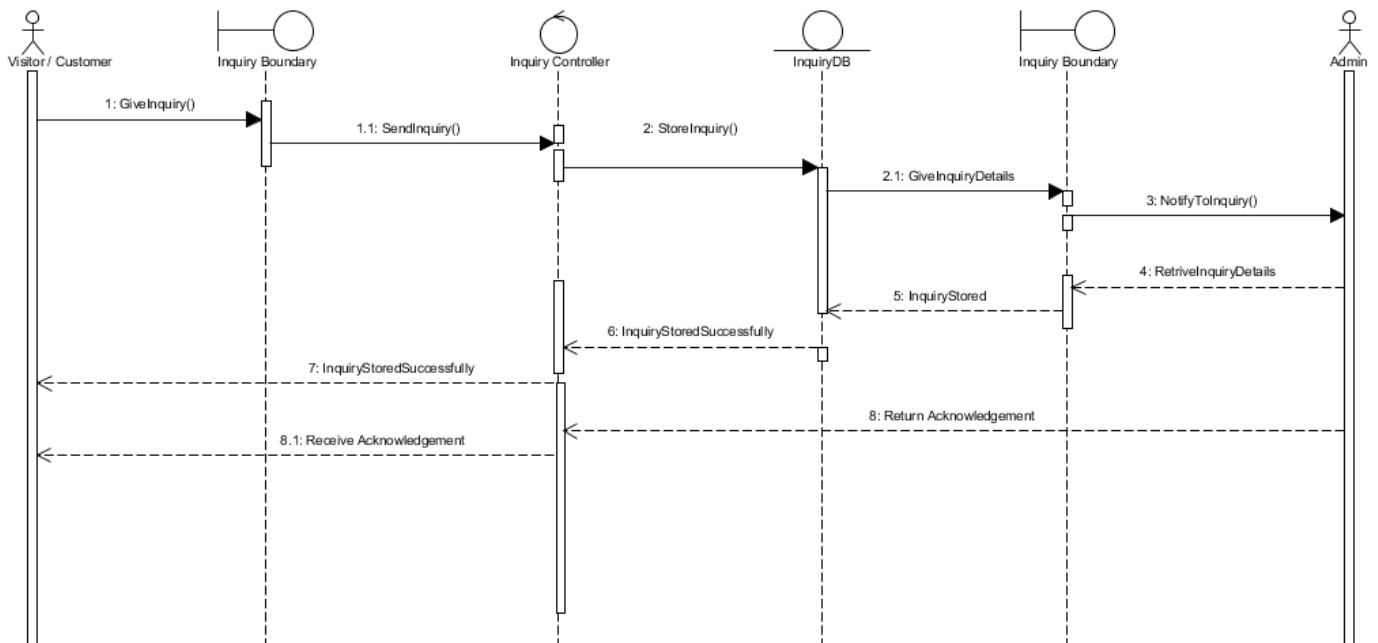
➤ Rating :



➤ View Rating :

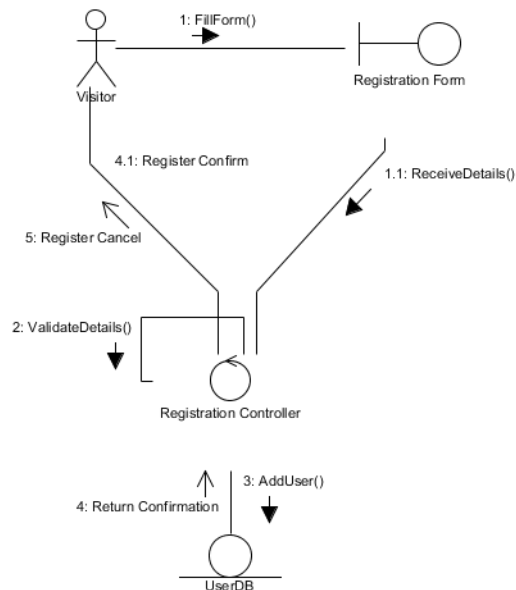


➤ Inquiry :

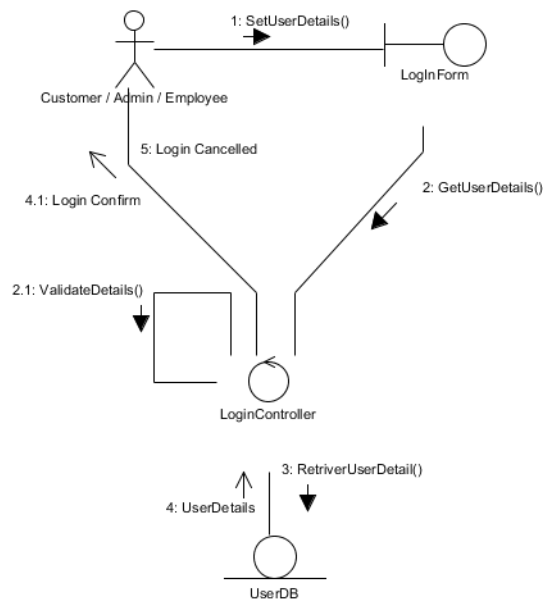


❖ Collaboration Diagram :

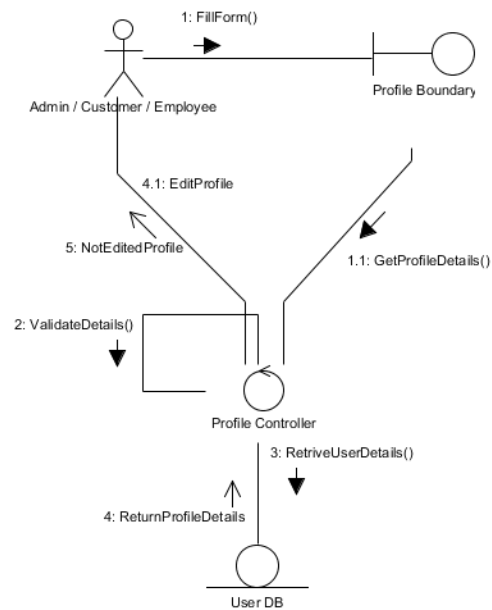
➤ Registration :



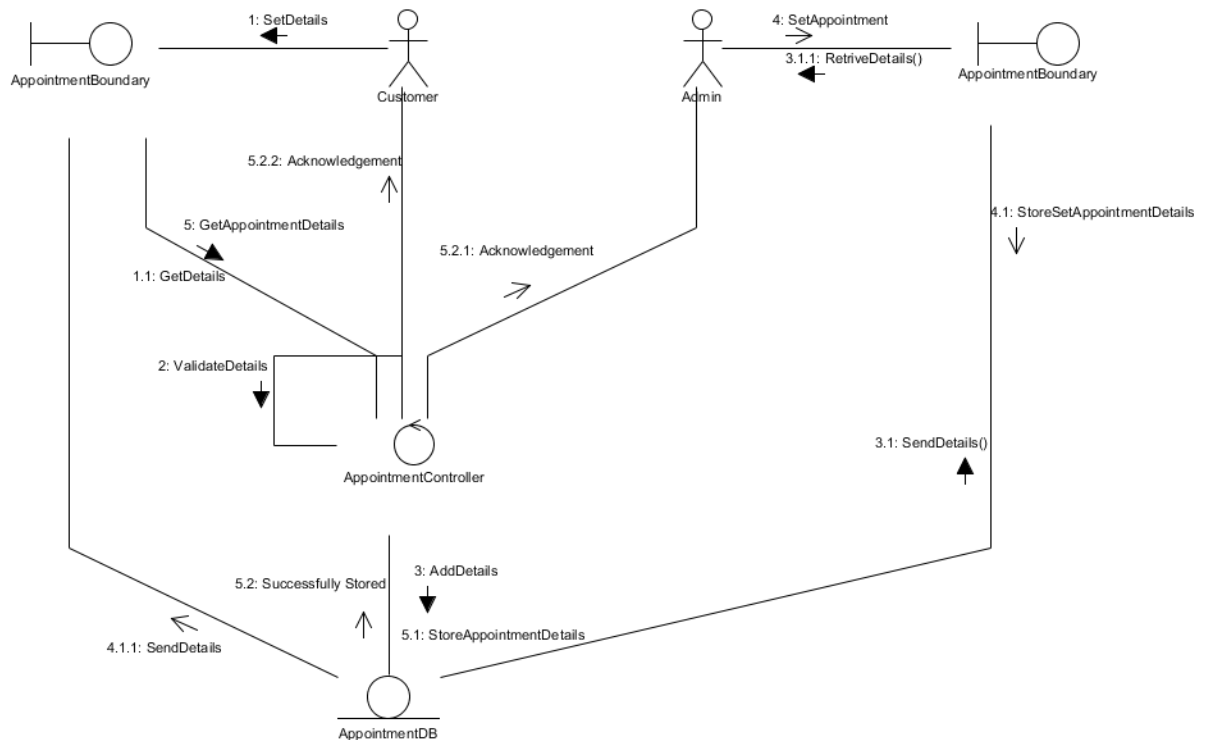
➤ Login :



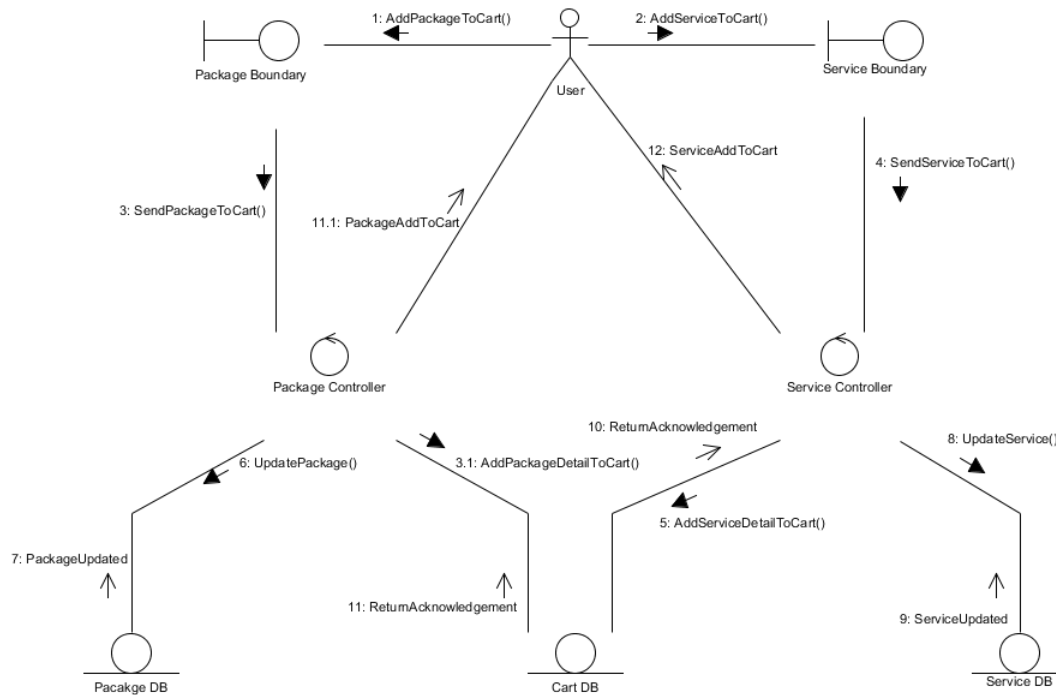
➤ Manage Profile :



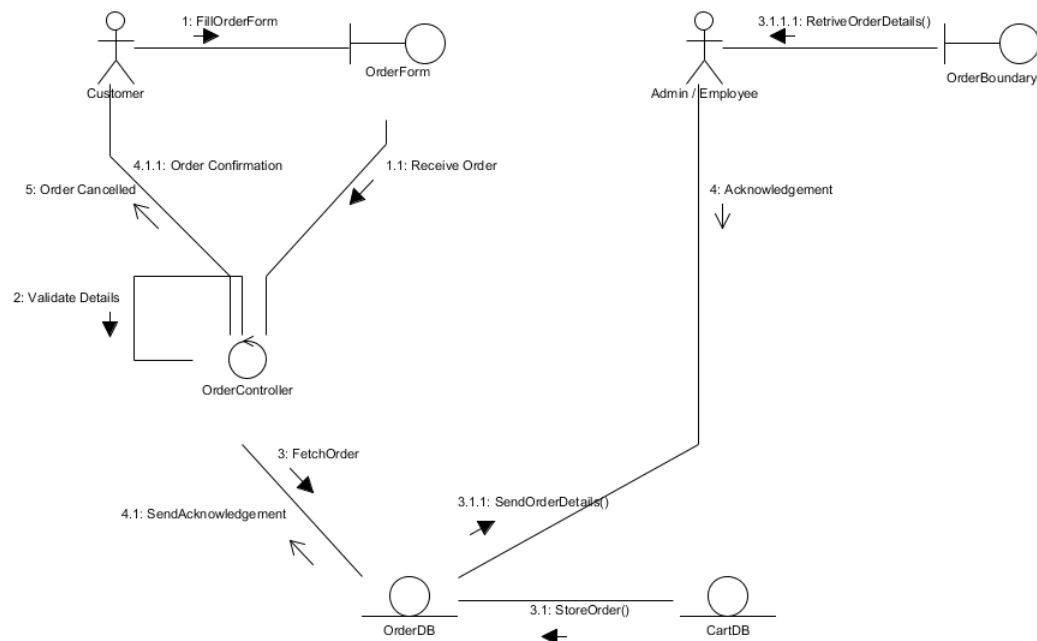
➤ Appointment :



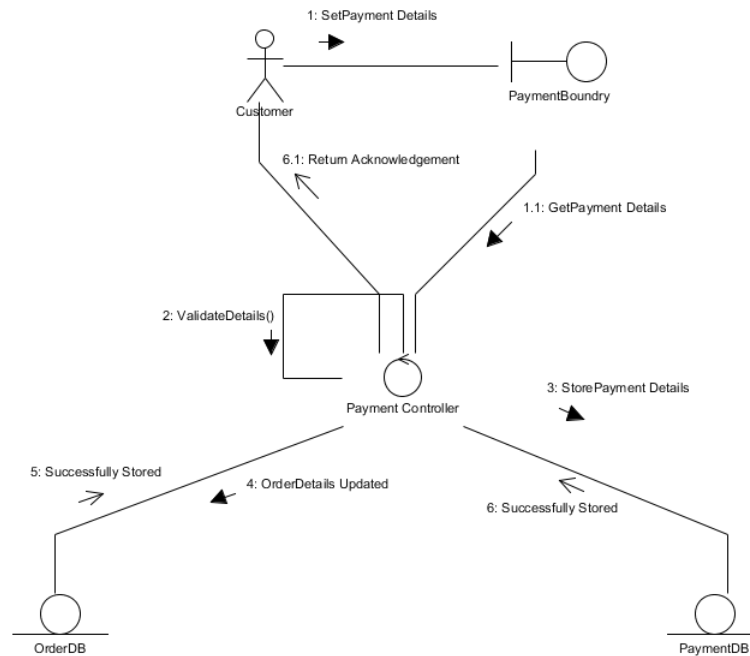
➤ Manage Cart :



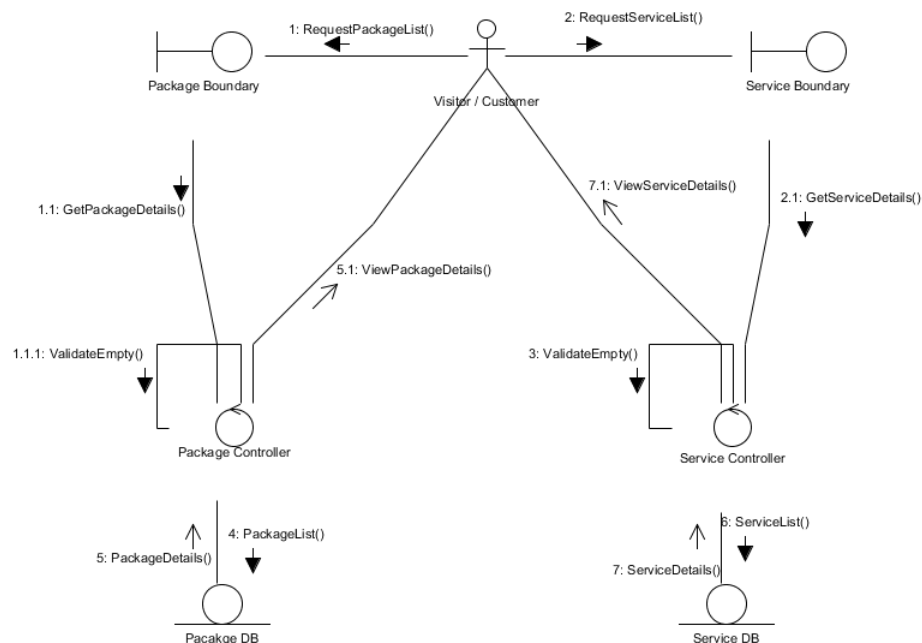
➤ Place Order :



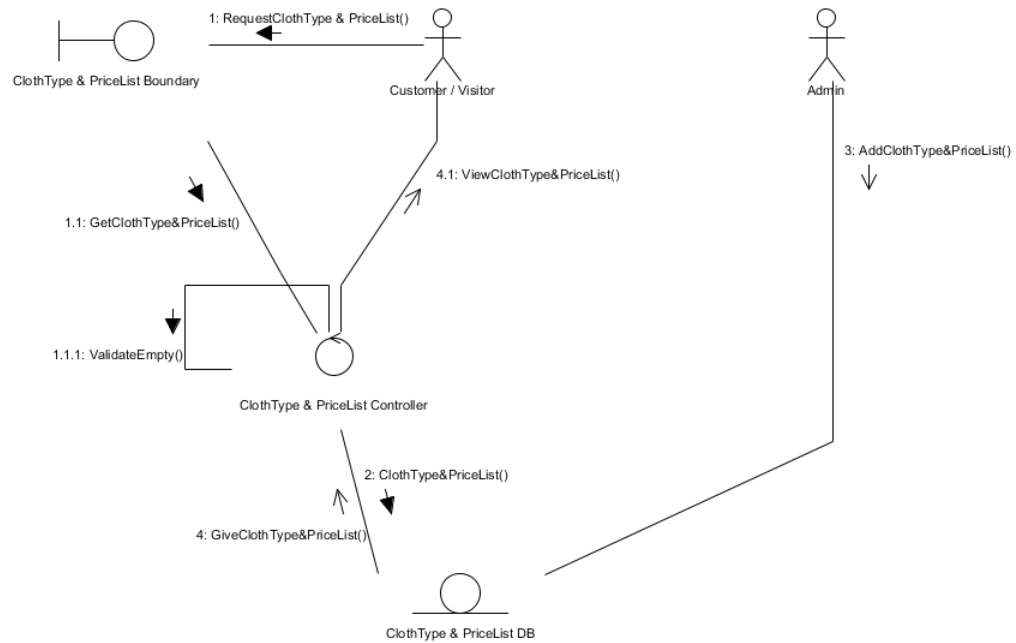
➤ Payment :



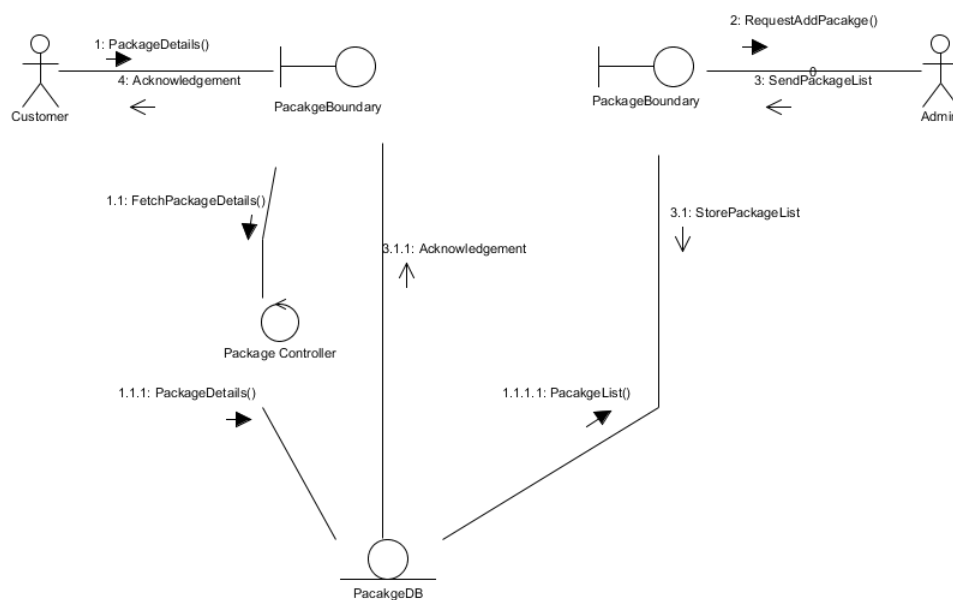
➤ View & Search Packages And Services :



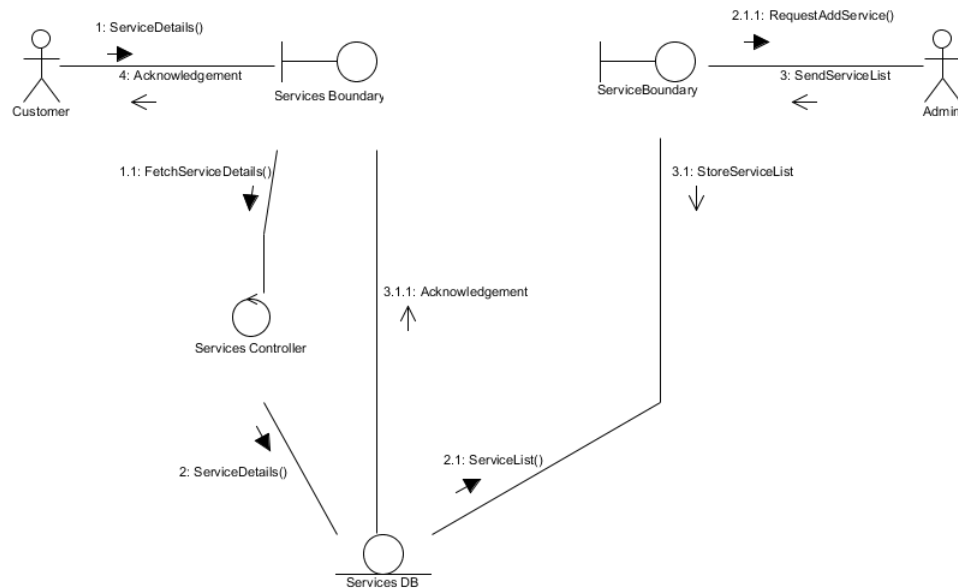
➤ View Cloth & Pricelist :



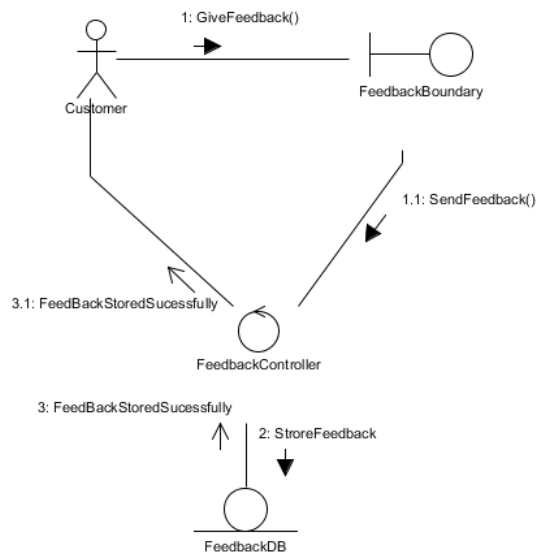
➤ Select & Manage Packages :



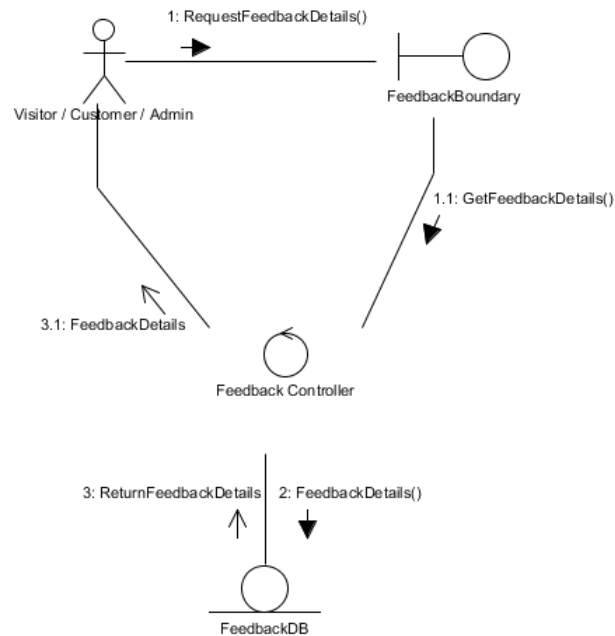
➤ Select & Manage Services :



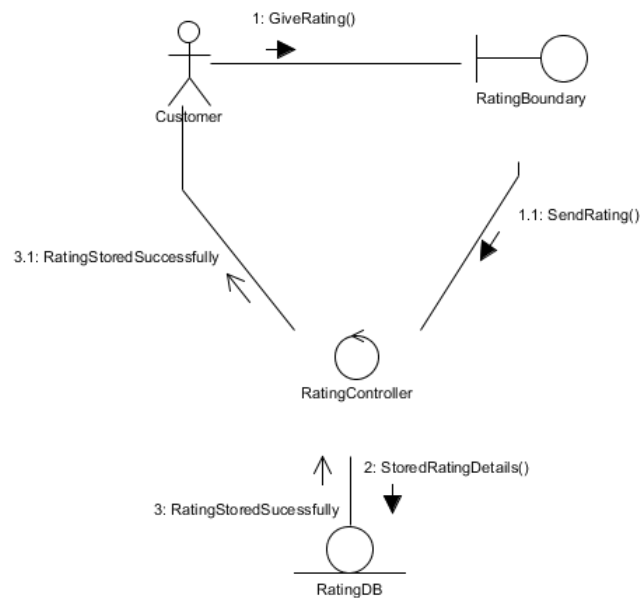
➤ Feedback :



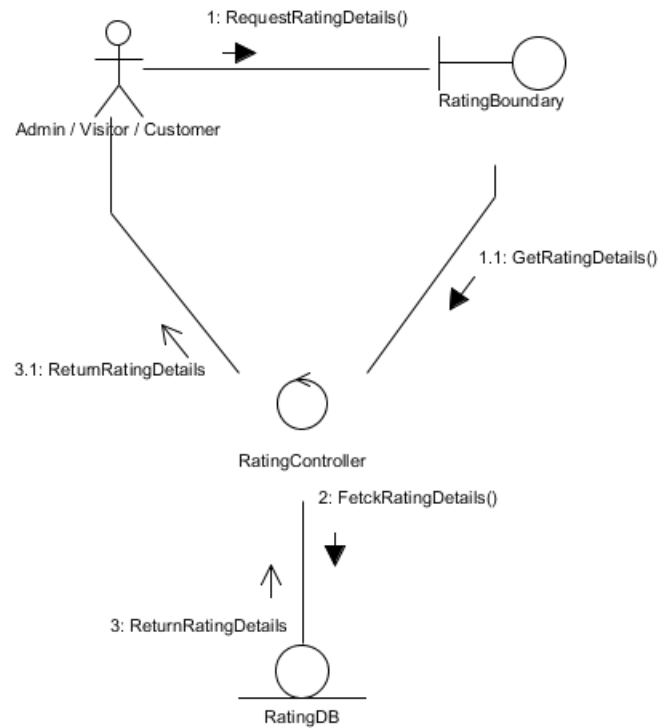
➤ View Feedback :



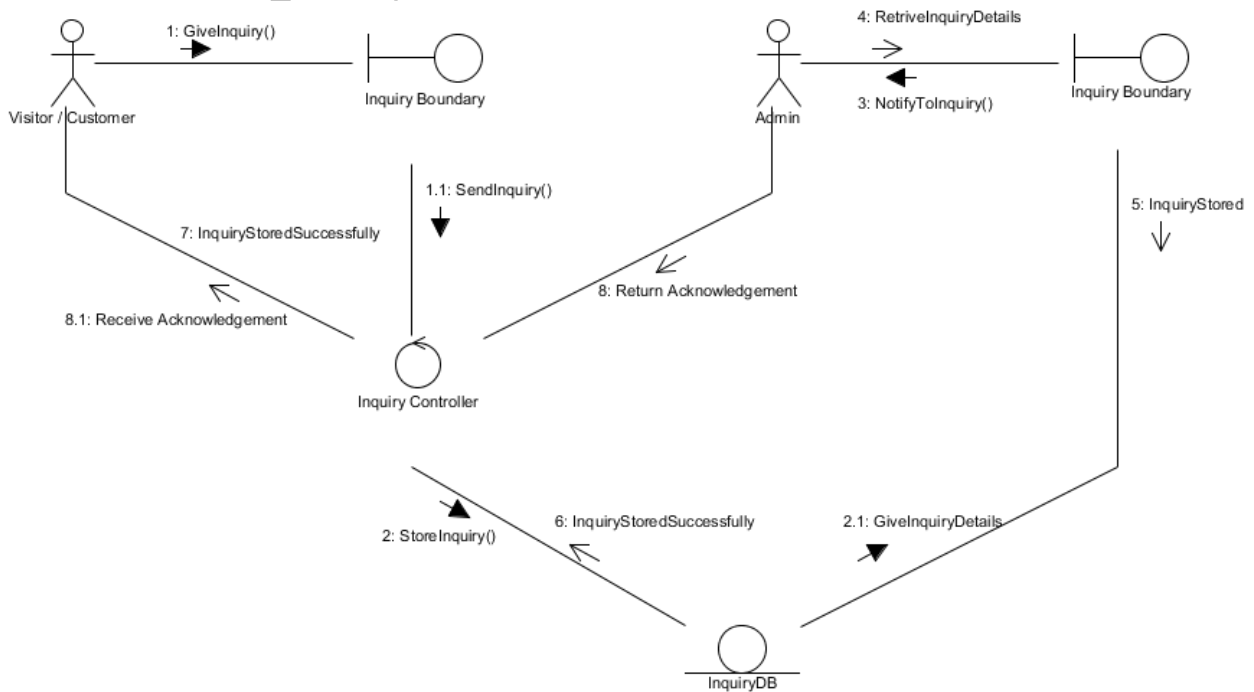
➤ Rating :



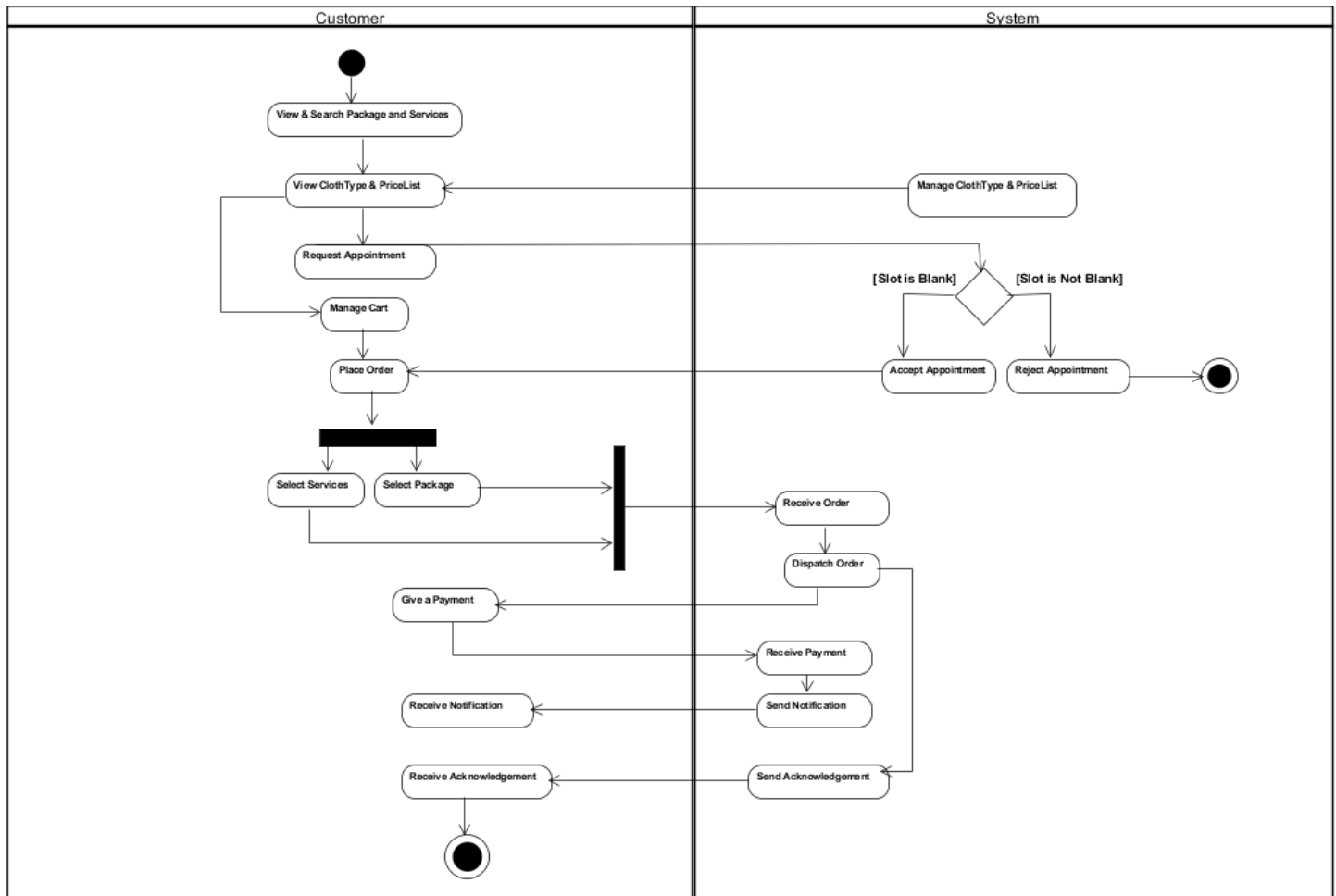
➤ View Rating :



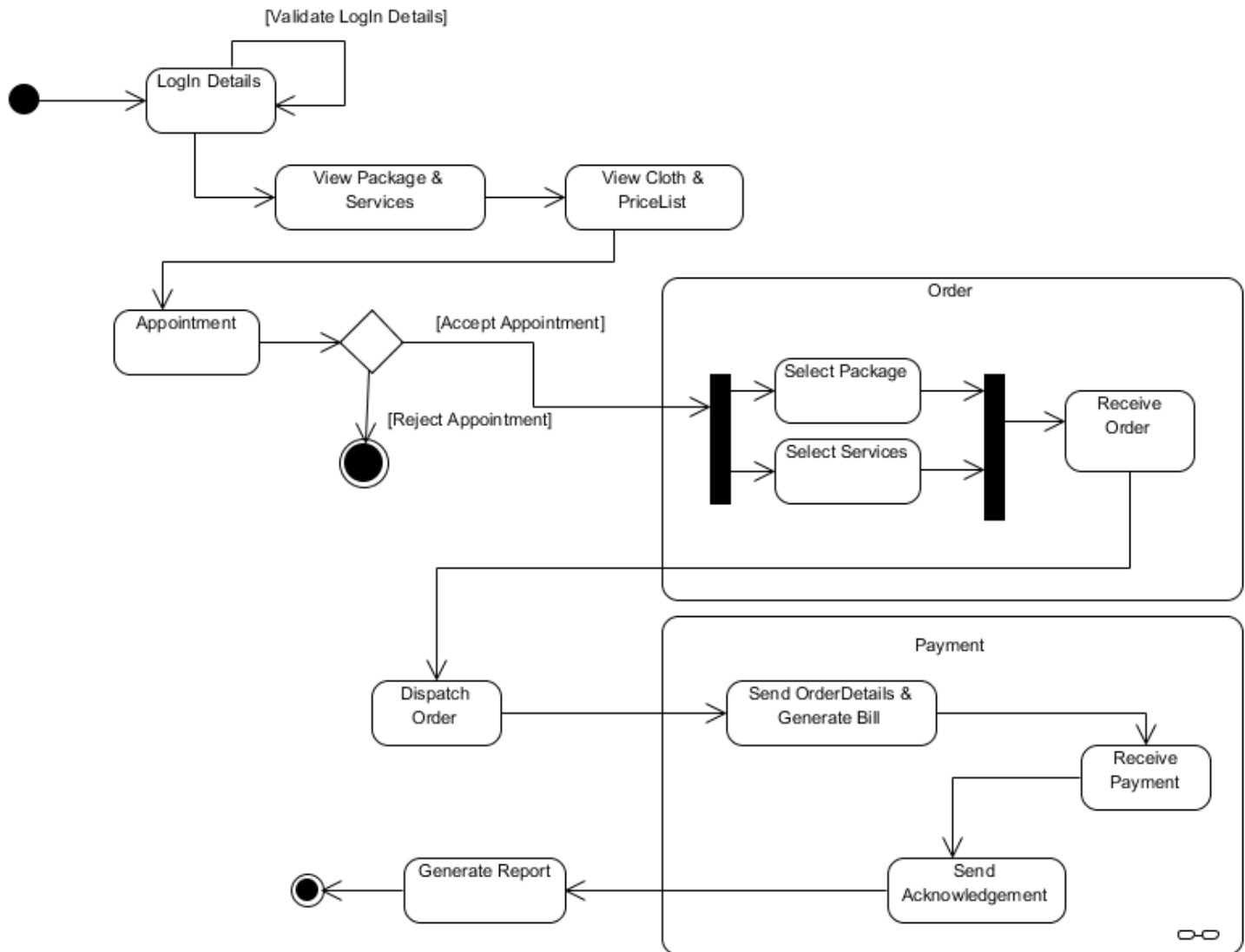
➤ Inquiry :



❖ Activity Diagram :



❖ State Diagram :



❖ **Data Dictionary :**

➤ **Role :** This table will store details of Role.

Field Name	Data Type	Constraints	Description
RoleID	Integer	Primary Key	Id of Role
RoleName	Varchar(15)	Not Null	Name of Role

➤ **Company :** This table will store details of Company.

Field Name	Data Type	Constraints	Description
CompanyID	Integer	Primary Key	Id of Company
Name	Varchar(15)	Not Null	Name of Company
Address	Varchar(100)	Not Null	Company Address
PhoneNo	Numeric(13)	Not Null	Phone Number
Email	Varchar(25)	Not Null	Email Address

➤ **City** : This table will store details of City.

Field Name	Data Type	Constraints	Description
CityID	Integer	Primary key	Id of City
CityName	Varchar(15)	Not Null	Name of City

➤ **Area** : This table will store details of Area.

Field Name	Data Type	Constraints	Description
AreaID	Integer	Primary key	ID of Area
AreaName	Varchar(15)	Not Null	Name of Area
CityID	Integer	Foreign key	ID of City

➤ **User** : This table will store details of User.

Field Name	Data Type	Constraints	Description
UserName	Varchar(15)	Primary key	Login Username
Password	Varchar(20)	Not Null	Login Password
FirstName	Varchar(15)	Not Null	User's First Name
LastName	Varchar(15)	Not Null	User's Last Name
Address	Varchar(100)	Not Null	User's Address
PhoneNumber	Numeric(13)	Not Null	User's Phone Number
Email	Varchar(25)	Not Null	Email Address
SecurityQue	Varchar(100)	Not Null	Security Question
SecurityAns	Varchar(100)	Not Null	Security Answer
RoleID	Integer	Foreign key	ID of Role
CompanyID	Integer	Foreign key	ID of Company
AreaID	Integer	Foreign key	ID of Area

➤ **Cloth** : This table will store details of Cloth.

Field Name	Data Type	Constraints	Description
ClothID	Integer	Primary Key	Id of Cloth
Cloth	Varchar(15)	Not Null	Type of Cloth

➤ **Service** : This table will store details of Services.

Field Name	Data Type	Constraints	Description
ServiceID	Integer	Primary key	Id of Service
Servicename	Varchar(15)	Not Null	Name of Service

- **Cloth_Service** : This table will store details of Cloth and Service tables (Bridge Table).

Field Name	Data Type	Constraints	Description
ClothID	Integer	Primary Key + Foreign key	Id of Cloth
ServiceID	Integer	Primary Key + Foreign key	Id of Service
Price	Numeric	Not Null	Price

- **Package** : This table will Store details of Package.

Field Name	Data Type	Constraints	Description
PackageID	Integer	Primary key	ID of Package
StartDate	Date	Not Null	Package Start Date
EndDate	Date	Not Null	Package End Date
PackagePrice	Numeric	Not Null	Price of Package

➤ **Cart** : This table will store details of Cart.

Field Name	Data Type	Constraints	Description
CartID	Integer	Primary Key	Id of Cart
CreatedDate	Date	Not Null	Cart Created Date
Username	Varchar(15)	Foreign Key	Reference of User

➤ **CartDetails** : This table will store details of Cart and Cloth_Service tables (Bridge Table).

Field Name	Data Type	Constraints	Description
CartID	Integer	Primary Key + Foreign Key	Id of Cart
ClothID	Integer	Primary Key + Foreign Key	Id of ClothType
ServiceID	Integer	Primary Key + Foreign Key	Id of Service
Quantity	Numeric	Not Null	Quantity

➤ **PackageDetails** : This table will store details of Package and Cloth_Service (Bridge Table).

Field Name	Data Type	Constraints	Description
PackageID	Integer	Primary key + Foreign key	Id of Package
ClothID	Integer	Primary key + Foreign key	Id of ClothType
ServiceID	Integer	Primary key + Foreign key	Id of Service
Quantity	Numeric	Not Null	Quantity of Order

➤ **Appointment** : This table will store details of Appointment.

Field Name	Data Type	Constraints	Description
AppointmentID	Integer	Primary Key	Id of Appointment
AppointmentDate	Date	Not Null	AppointmentDate
AppointmentTime	Time	Not Null	AppointmentTime
Username	Varchar(15)	Foreign key	Reference of User

➤ **Order** : This table will store details of Order.

Field Name	Data Type	Constraints	Description
OrderID	Integer	Primary Key	Id of Order
OrderAmt	Numeric	Not Null	Amount Ordered
DeliveryDate	Date	Not Null	Date of Delivery
OrderStatus	Varchar(10)	Not Null	Status of Order
ShippingCharge	Numeric	Not Null	Charge of Shipping
AppointmentID	Integer	Foreign key	Id of Appointment
PackageID	Integer	Foreign key	Id of Package
CartID	Integer	Foreign key	Id of Cart

➤ **Inquiry** : This table will store details of Inquiry.

Field Name	Data Type	Constraints	Description
InquiryID	Integer	Primary Key	Id of Inquiry
InquiryQue	Varchar(100)	Not Null	Inquiry Question
InquiryAns	Varchar(100)	Not Null	Answer for Inquiry
Username	Varchar(15)	Foreign key	Reference of User

➤ **Payment** : This table will store details of Payment.

Field Name	Data Type	Constraints	Description
PaymentID	Integer	Primary key	Id of Payment
PaymentType	Varchar(15)	Not Null	Type of Payment
PaymentDate	Date	Not Null	Date of Paying
RecievedPayment	Numeric	Not Null	Amount Paid
PaymentStatus	Varchar(20)	Not Null	Status of Payment
Username	Varchar(15)	Foreign key	Reference of User
CartID	Integer	Foreign key	Id of Cart

➤ **Rating&Review** : This table will store details of Rating And Review.

Field Name	Data Type	Constraint s	Description
RatingAndReviewID	Integer	Primary key	Id of Rating and Review
RatingNumber	Numeric	Not Null	Number of Rating
ReviewDesc	Varchar(100)	Not Null	Review Description
Username	Varchar	Foreign key	Reference of User

➤ **Feedback** : This table will store details of Feedback.

Field Name	Data Type	Constraints	Description
FeedbackID	Integer	Primary key	Id of Feedback
FeedBackDesc	Varchar(100)	Not Null	Feedback Description
FeedBackDate	Date	Not Null	Date of Feedback

❖ **Bibliography :**

➤ **Reference Books :**

- **Object Oriented Analysis And Design**
- **Database System Concepts**
- **Database Management System-II**

➤ **Reference Website :**

- <https://www.mssqltips.com>
- <https://stackoverflow.com>
- <https://w3schools.com>