



# Software Engineering II

DR. ABEER HAMDY

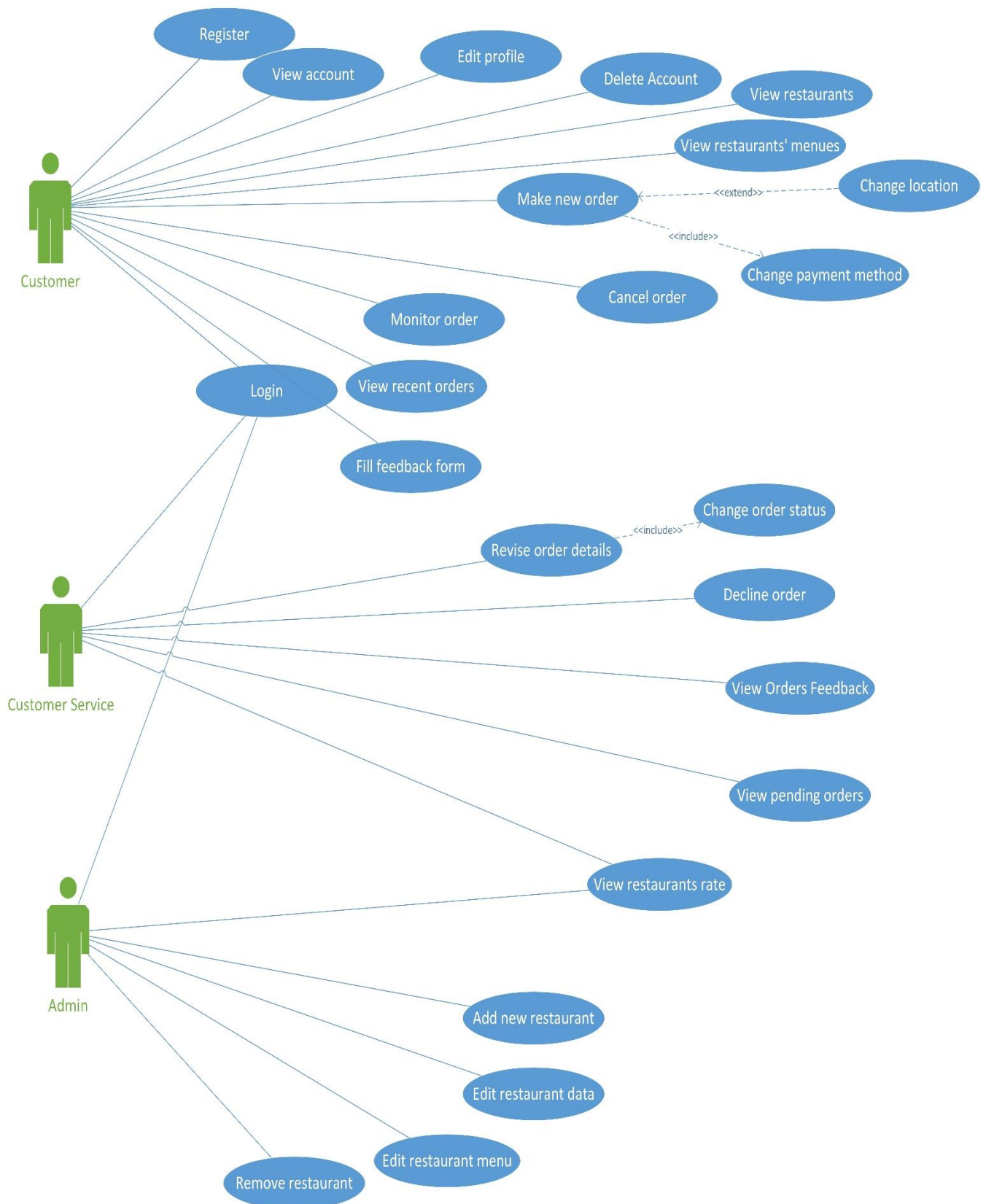
## FOOD ORDERING SERVICE

Name	ID
Gloria Ezzat	150753
Engy Samir	139394
Meran Nauman	148368
Wafaa Emad	147539

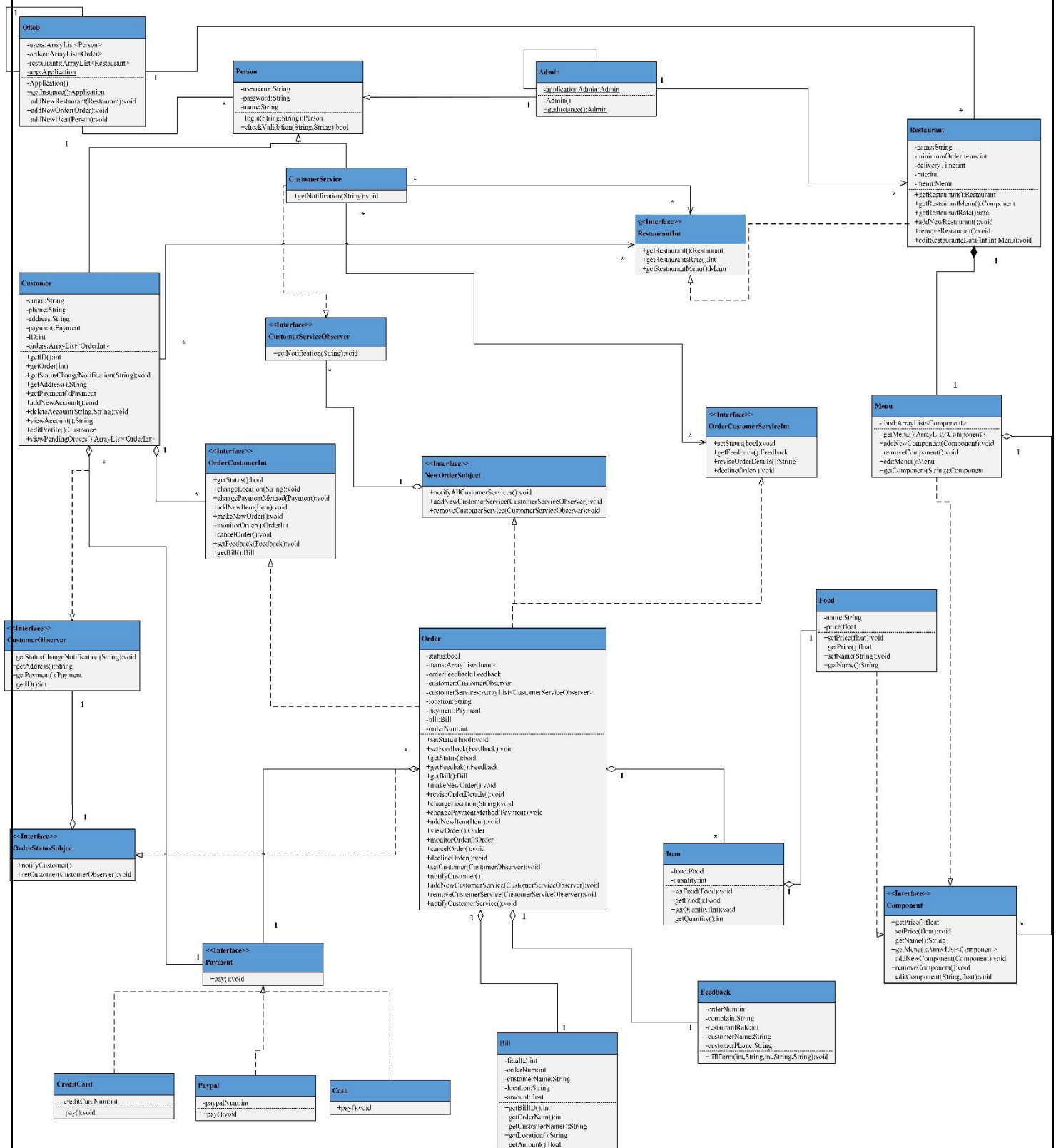
## **Table of contents**

1	Use case diagram (updated)
2	Class diagram
3	SSDs
4	Sequence diagrams
5	Design patterns

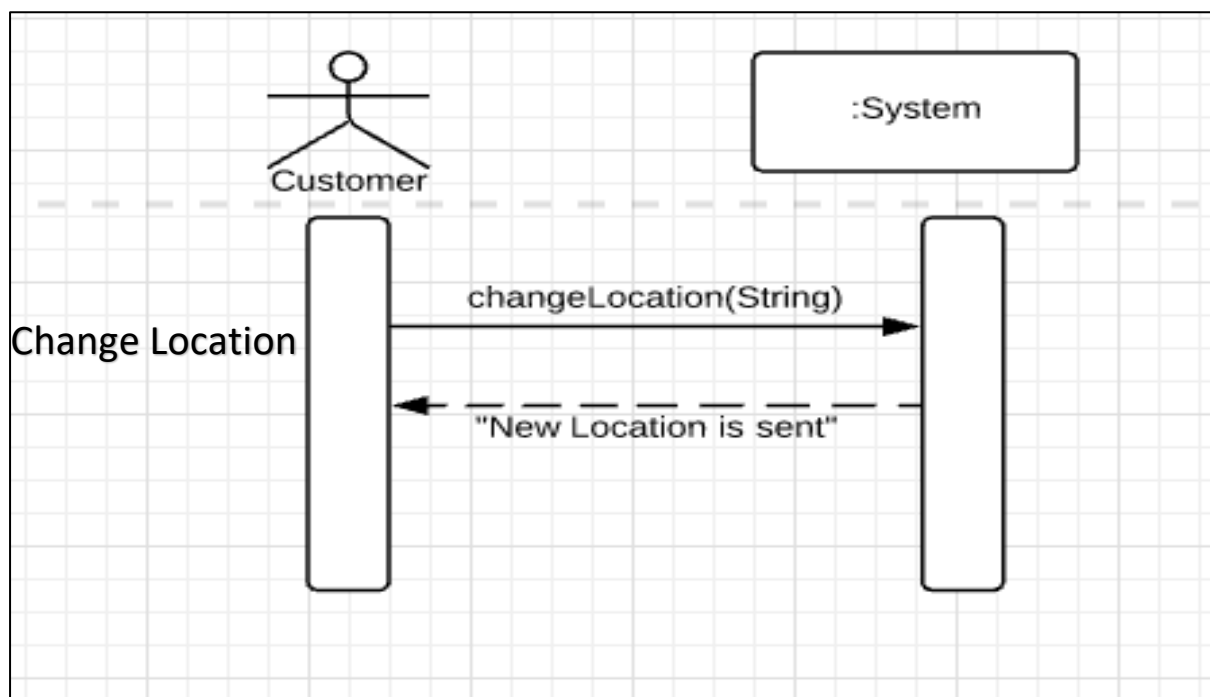
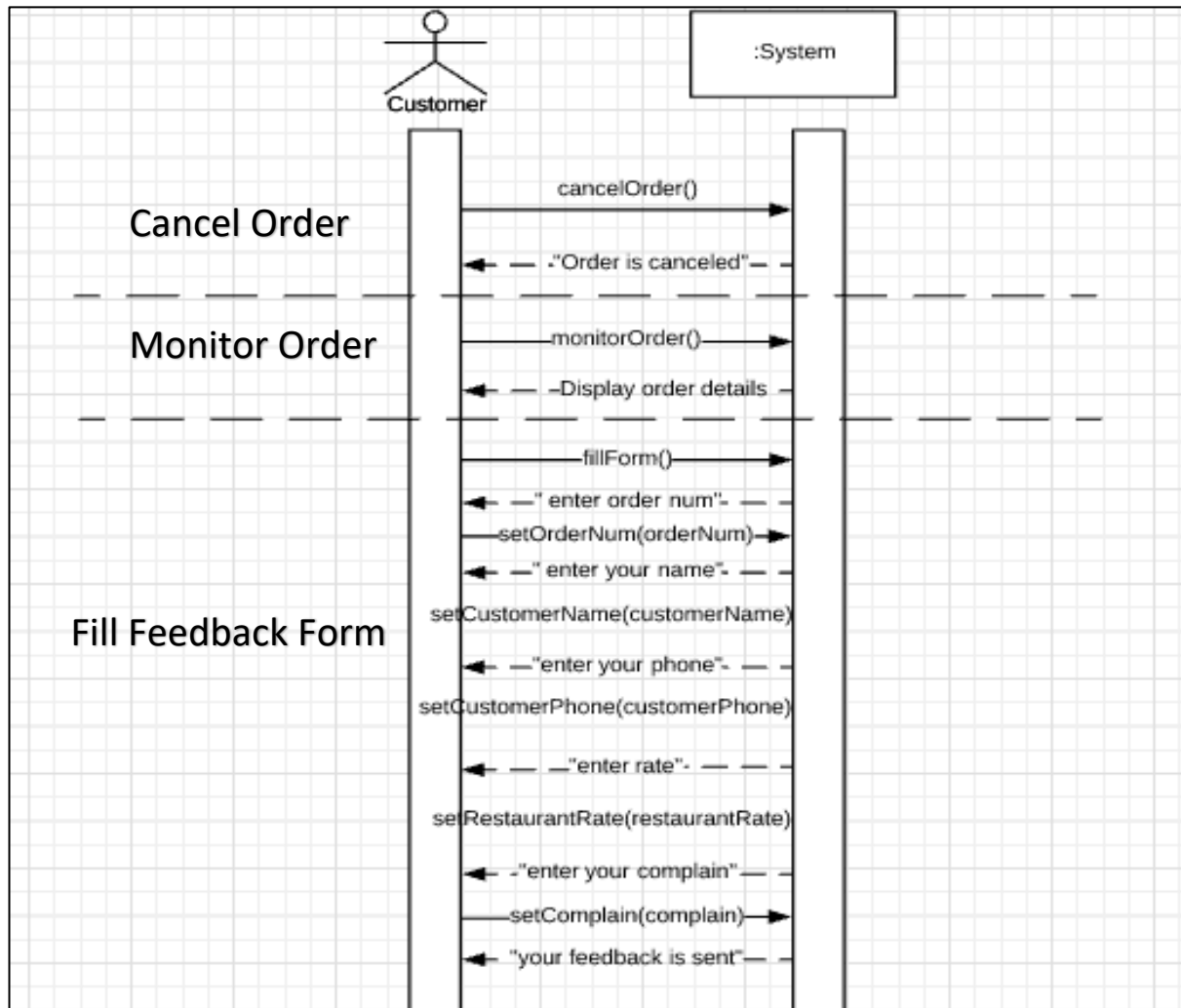
## 1- Use Cases (updated)



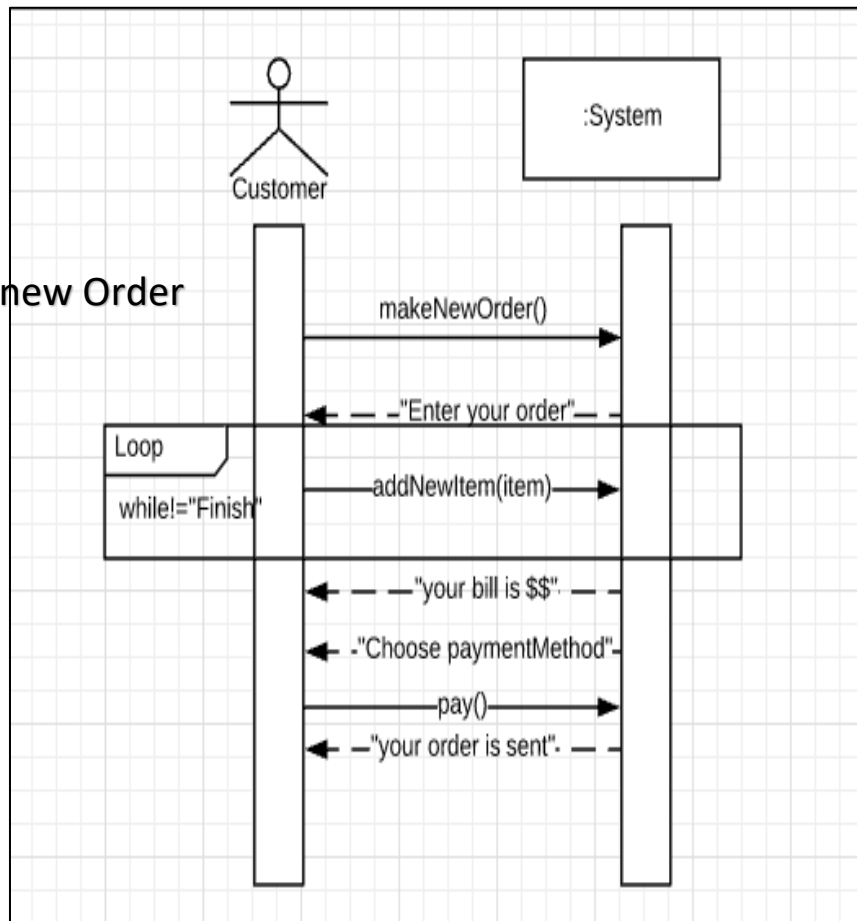
## 2- Class diagram



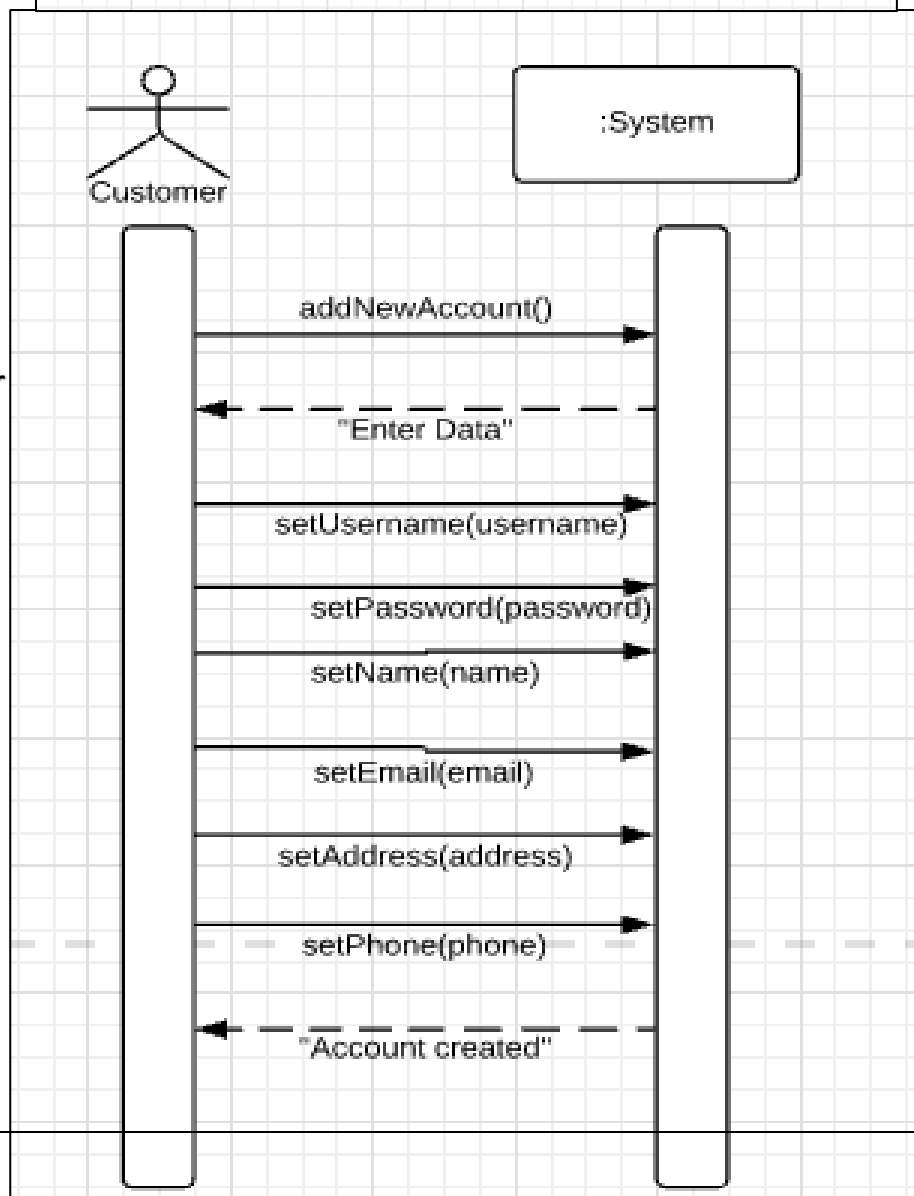
### 3- SSDs (System Sequence Diagrams)



## Make new Order



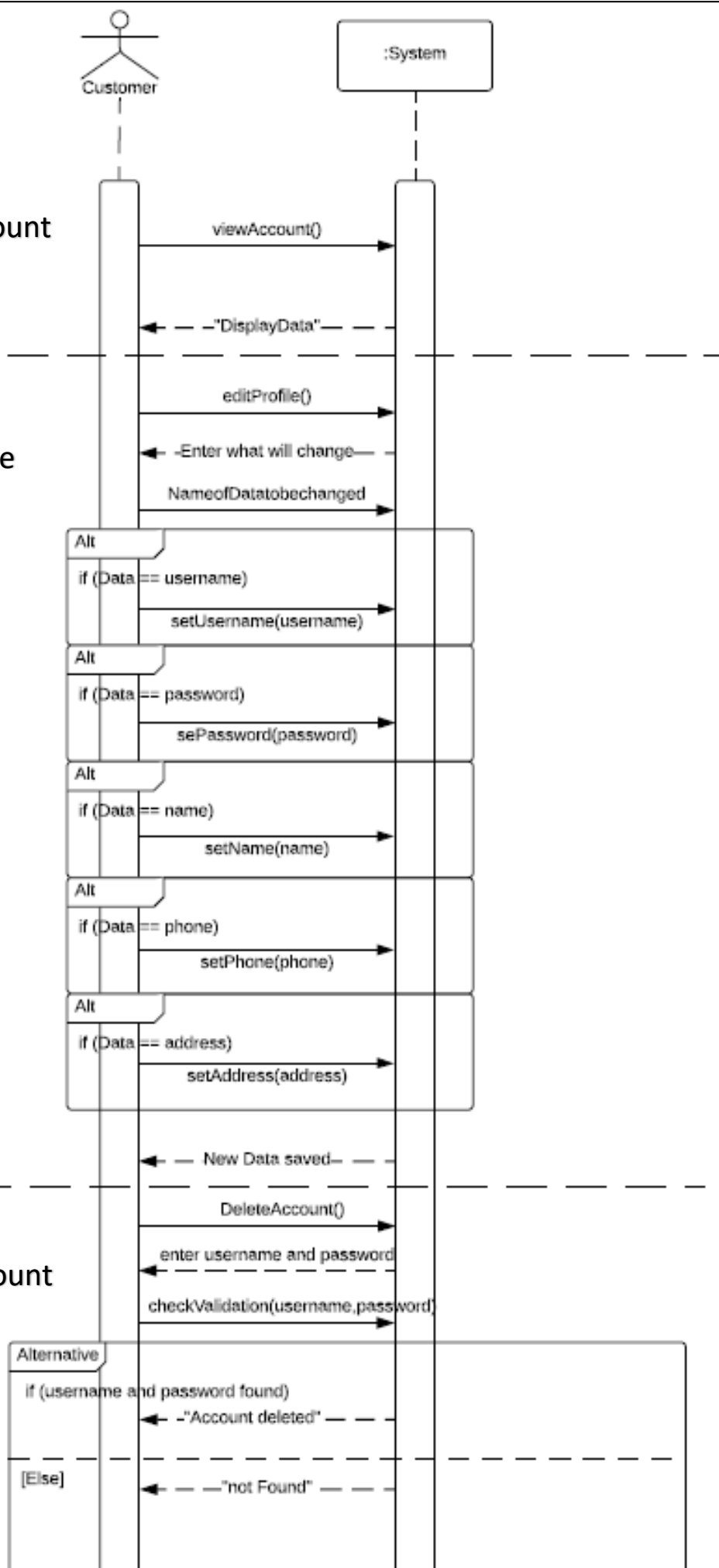
## Register

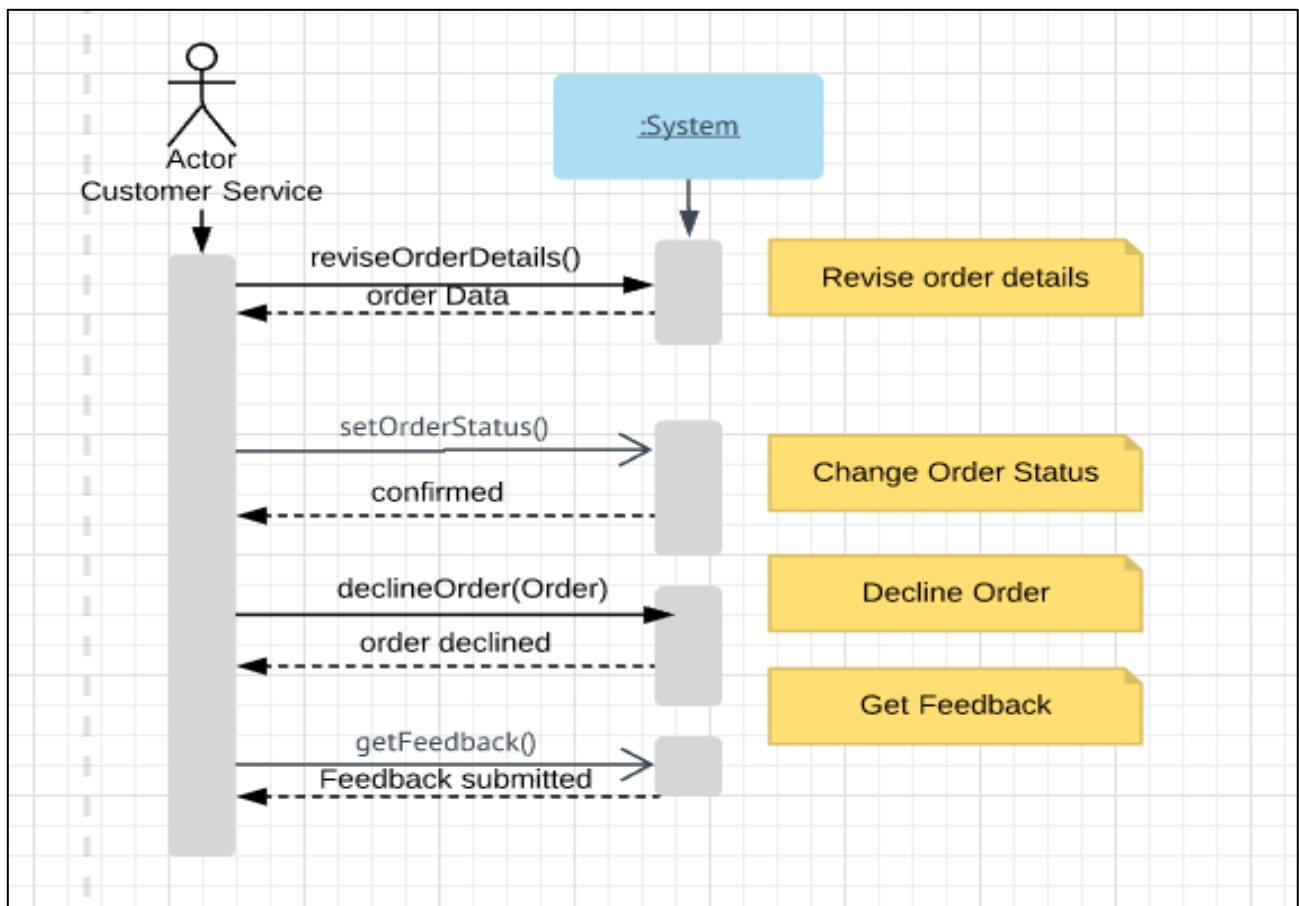
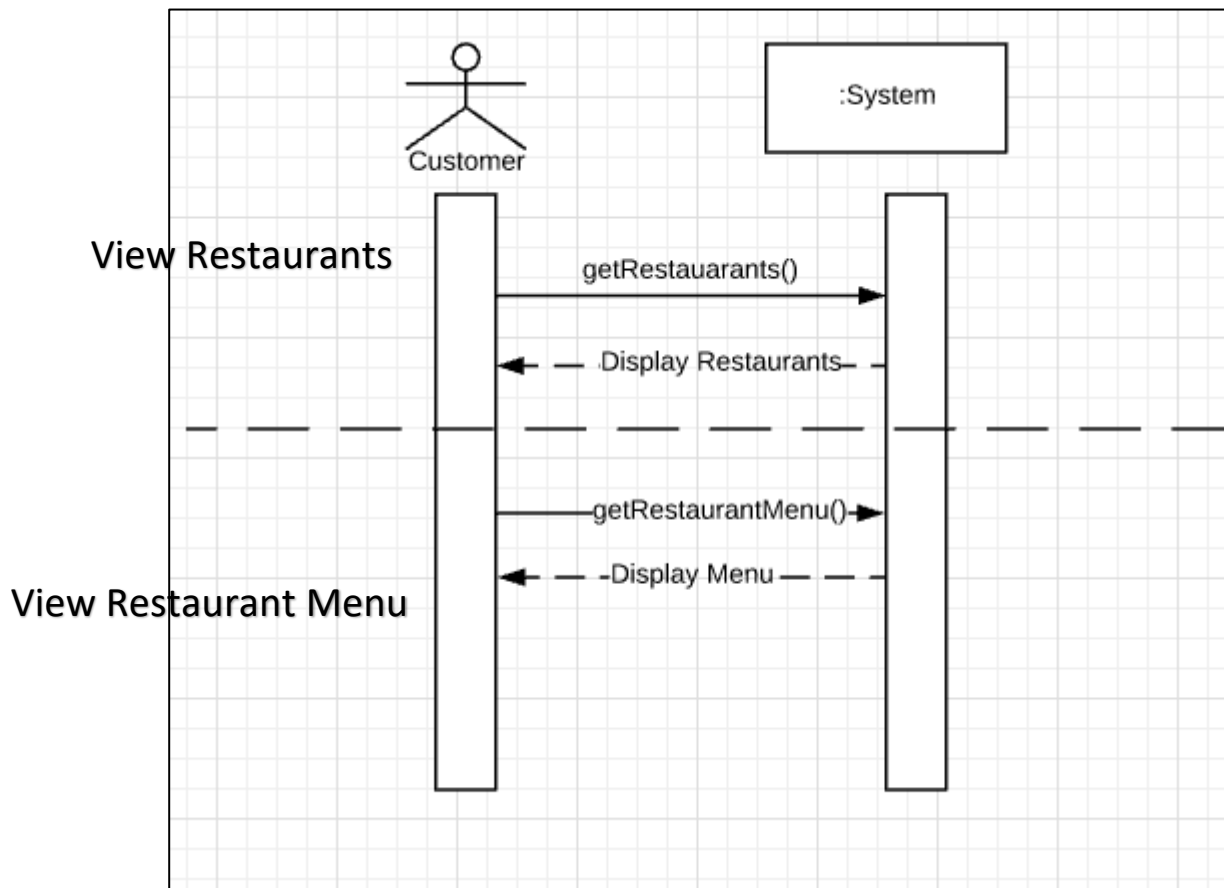


View Account

Edit Profile

Delete Account









Admin

:system

### Login

login(username,password)

user account

### ViewPendingOrders

viewPendingOrders()

alt

OrderStatus==pending

pending orders

### ViewResturantRate

viewResturantsRate()

Display restaurants rate

### AddNewResturant

addNewResturant()

"Enter Restaurant Data"

setName(name)

setMinimumOrderItems(num)

setDeliveryTime(time)

setMenu(menu)

### EditResturantData

editResturantData()

Enter what you will edit

alt

if(selection==Name)

setName(name)

if(selection==OrderItems)

setMinimumOrderItems(num)

if(selection==DeliveryTime)

setDeliveryTime(time)

if(selection==Menu)

setMenu(menu)

"Resturant updated"

### RemoveResturant

removeResturant()

"Resturant deleted"

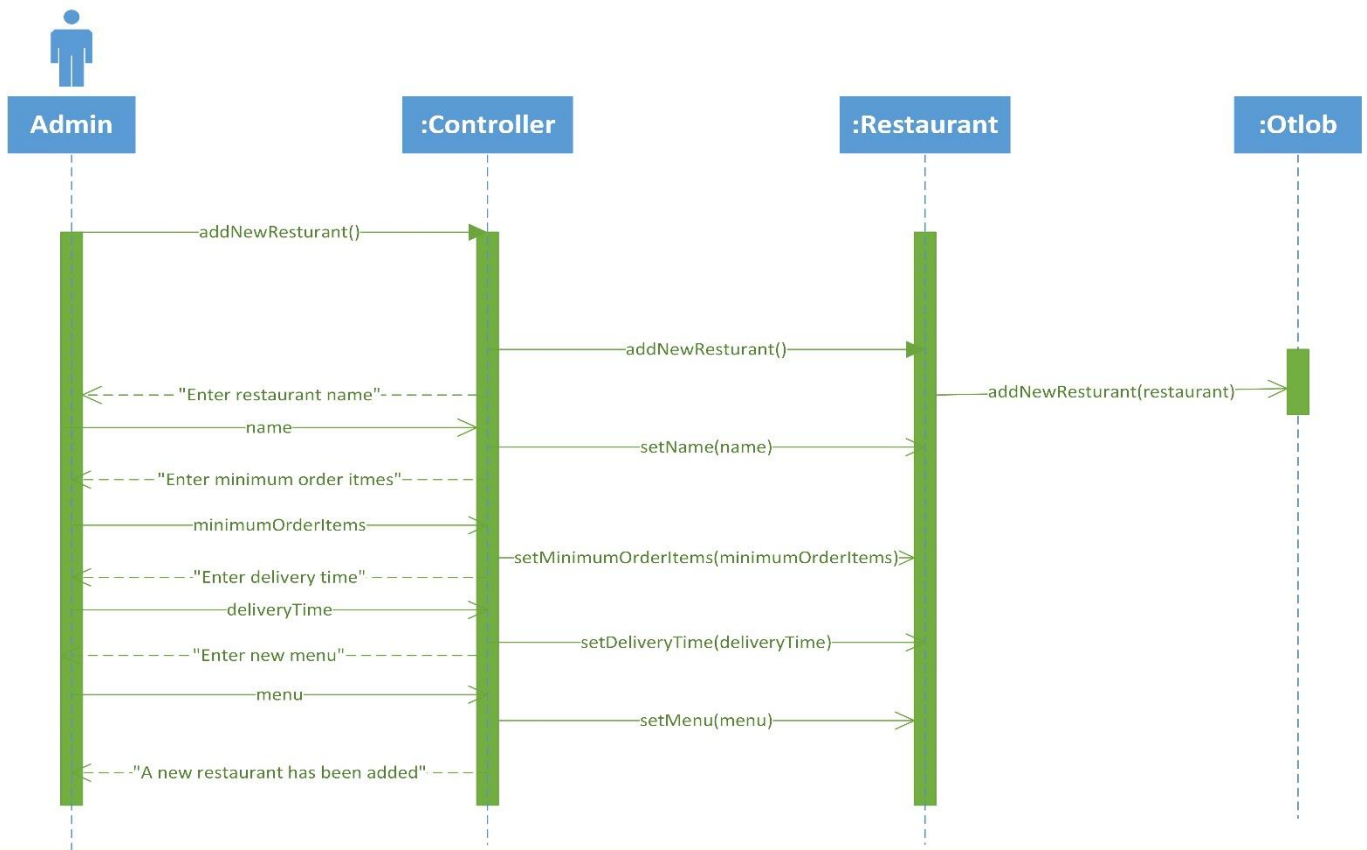
### EditResturantMenu

editMenu(newItem,num)

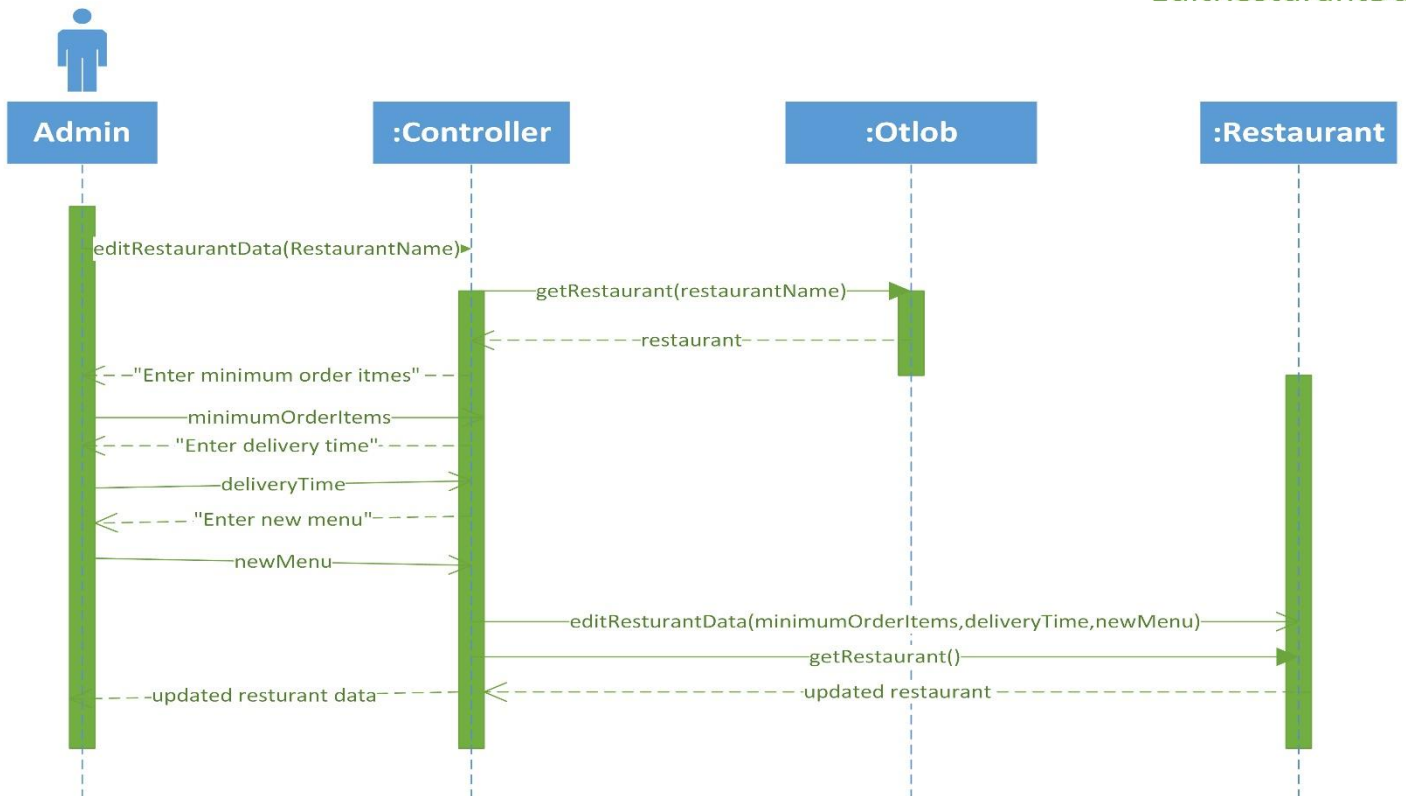
edited menu

## 4- Sequence diagrams

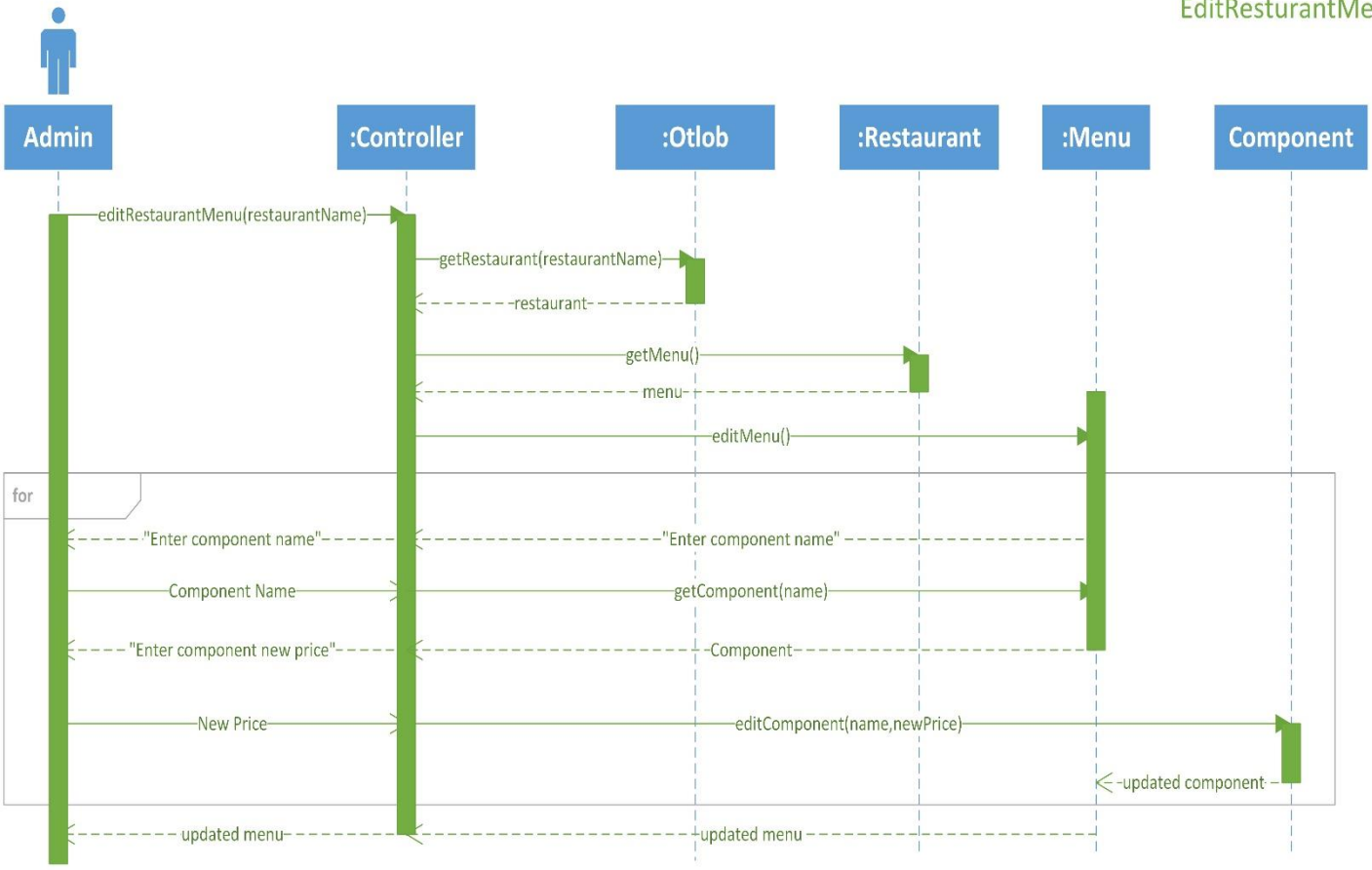
AddNewResturant



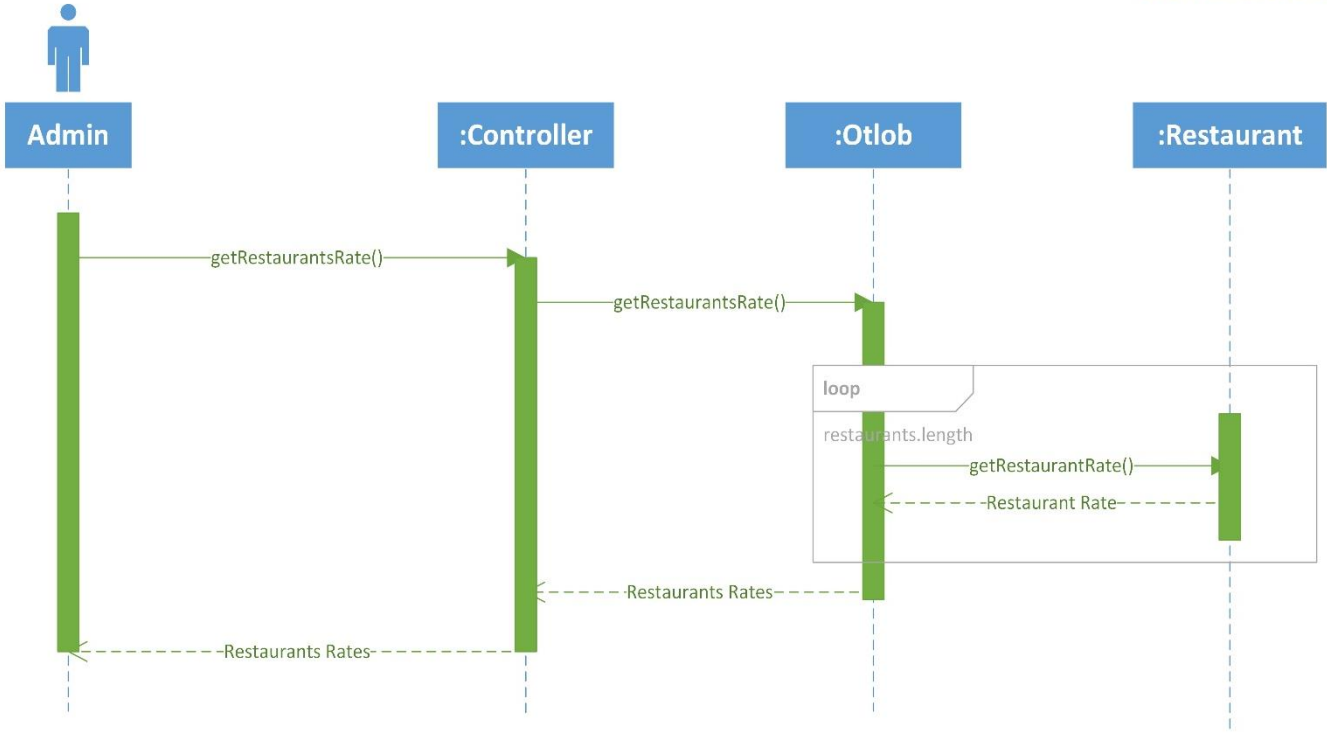
EditResturantData



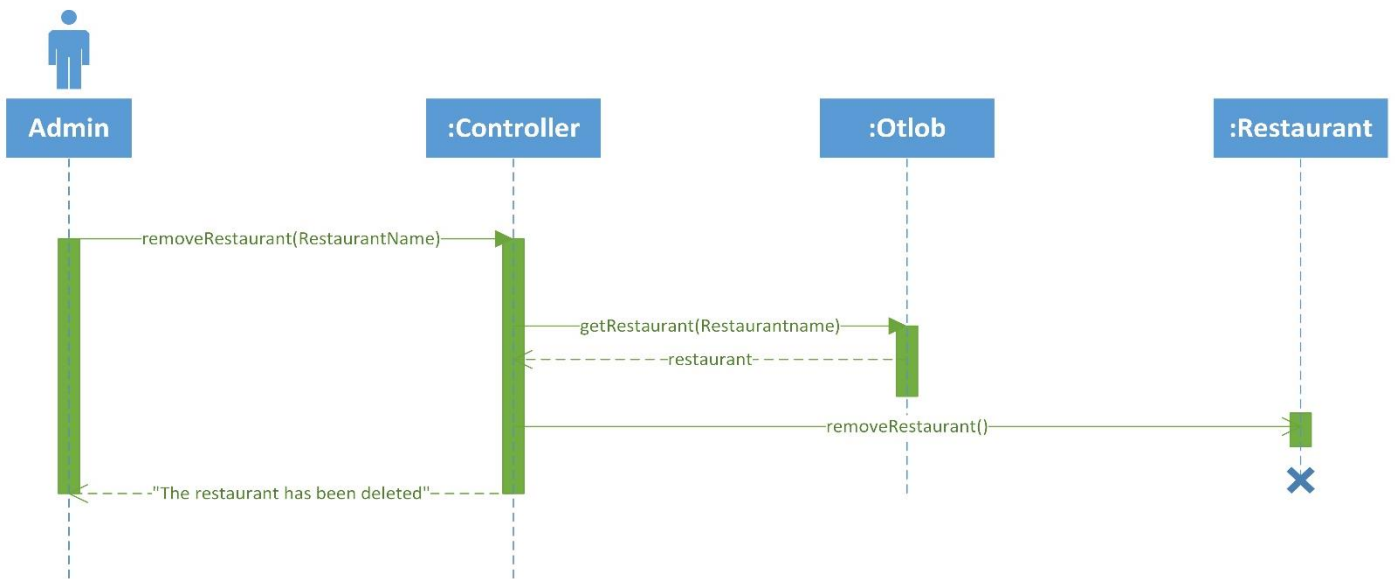
EditResturantMenu



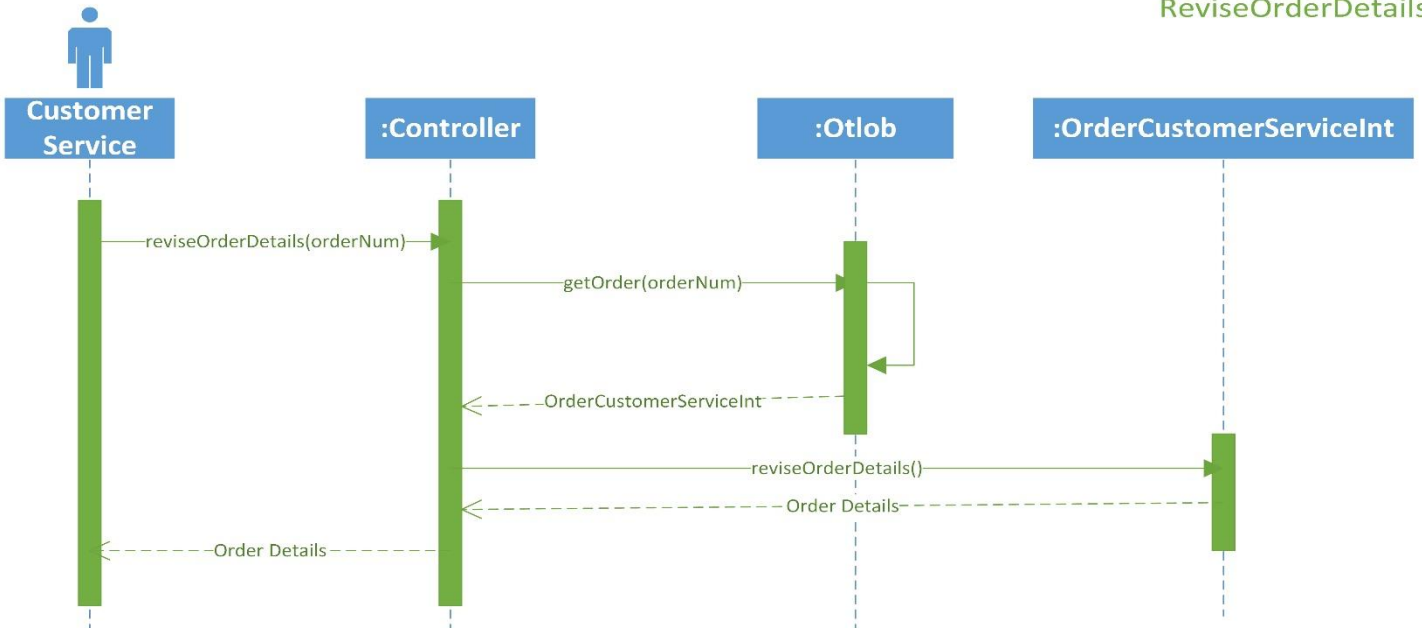
ViewRestaurantsRate



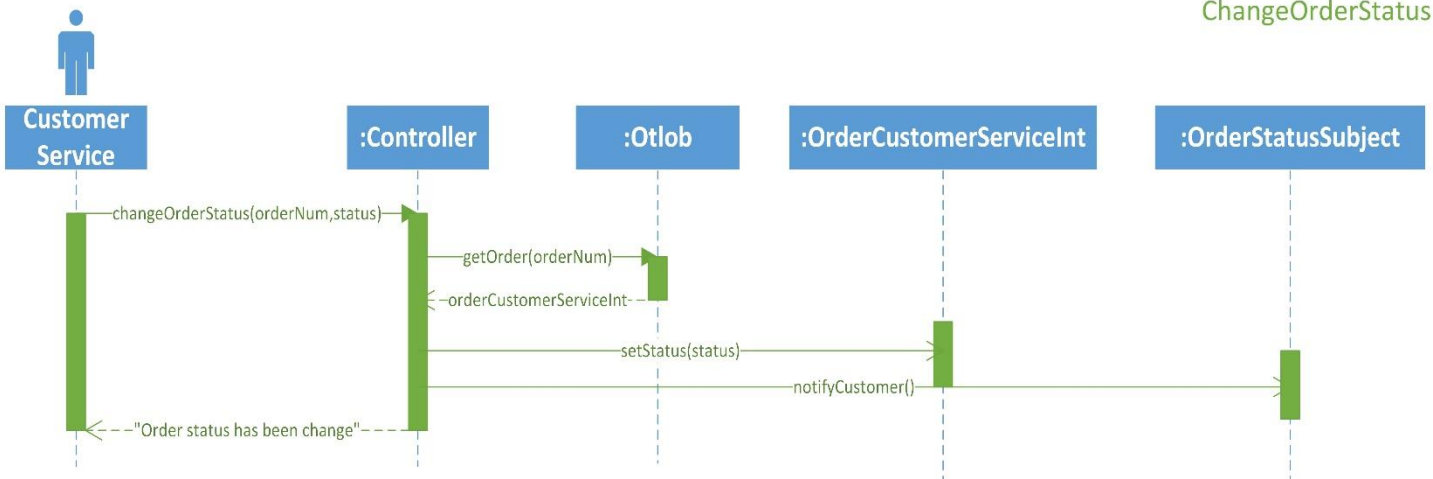
## RemoveRestaurant



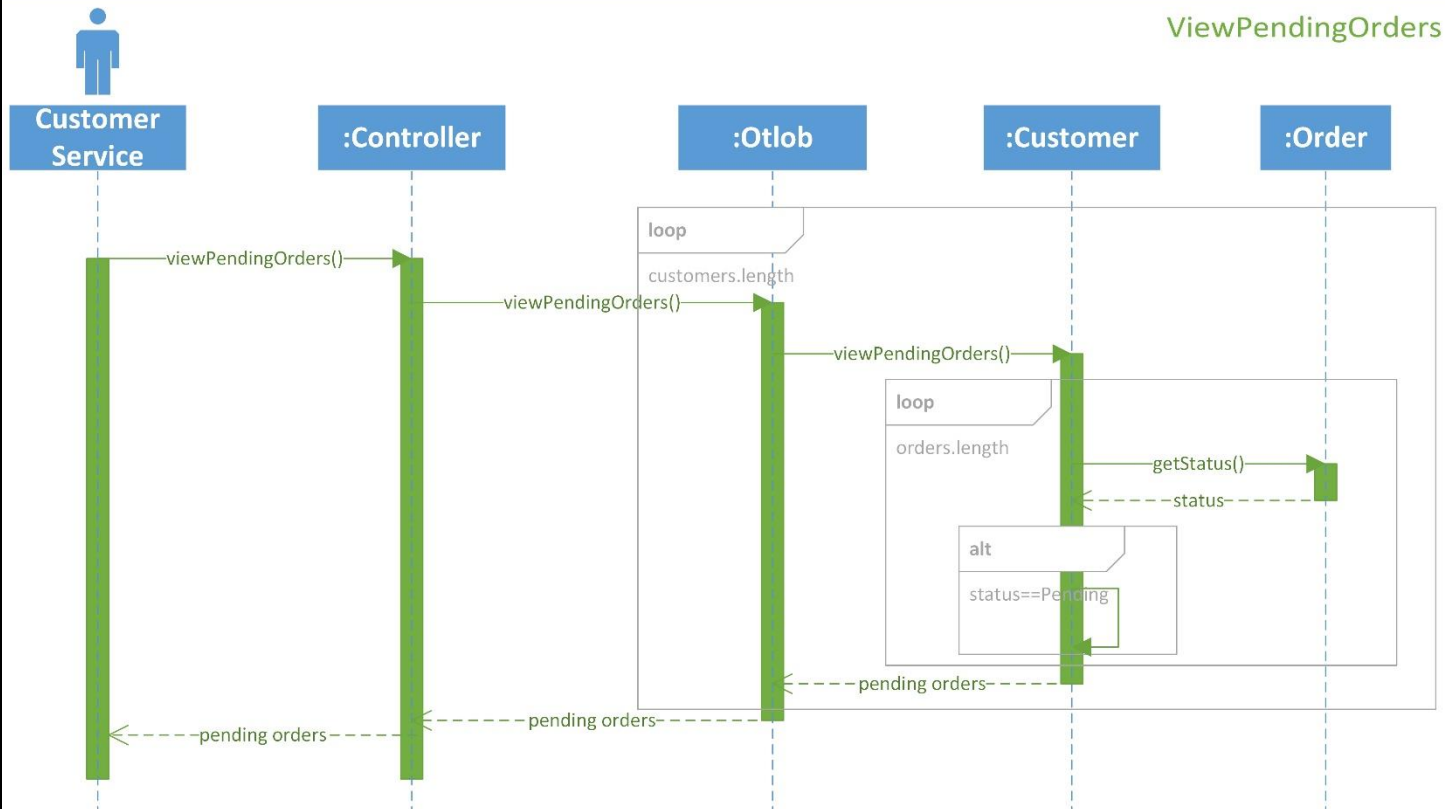
## ReviseOrderDetails



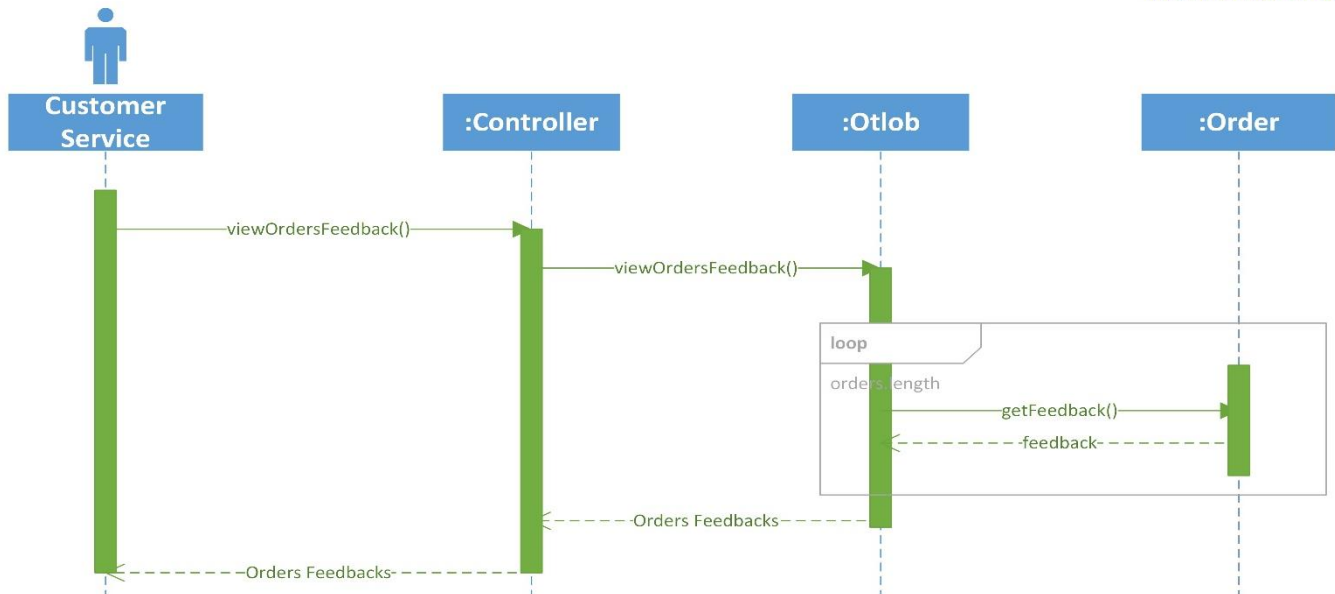
## ChangeOrderStatus



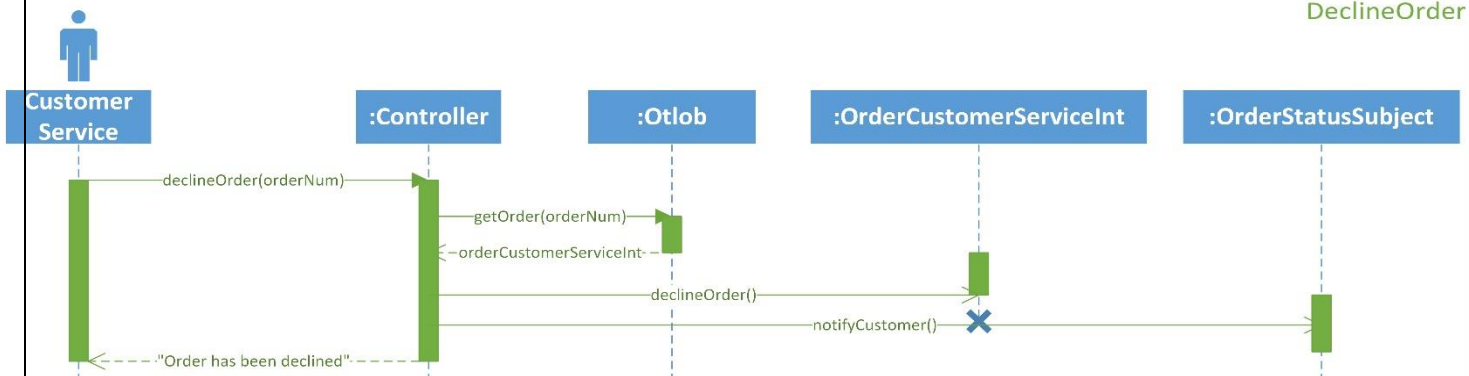
## ViewPendingOrders



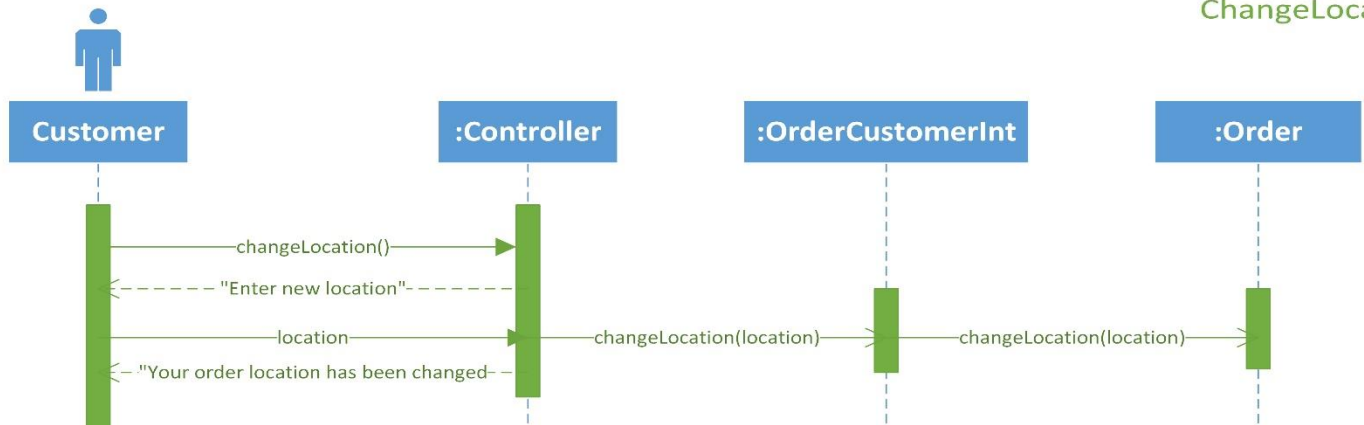
## ViewOrdersFeedback



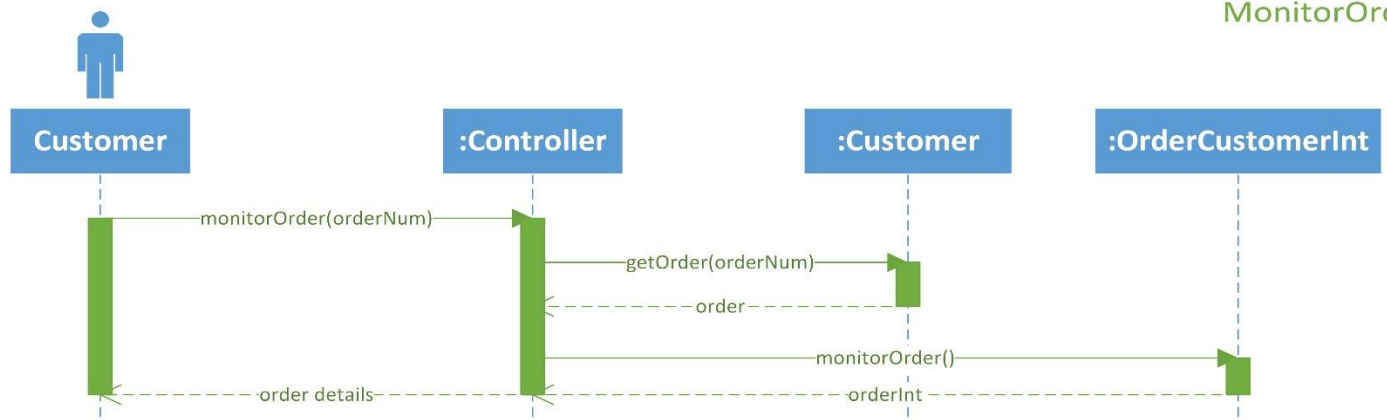
## DeclineOrder



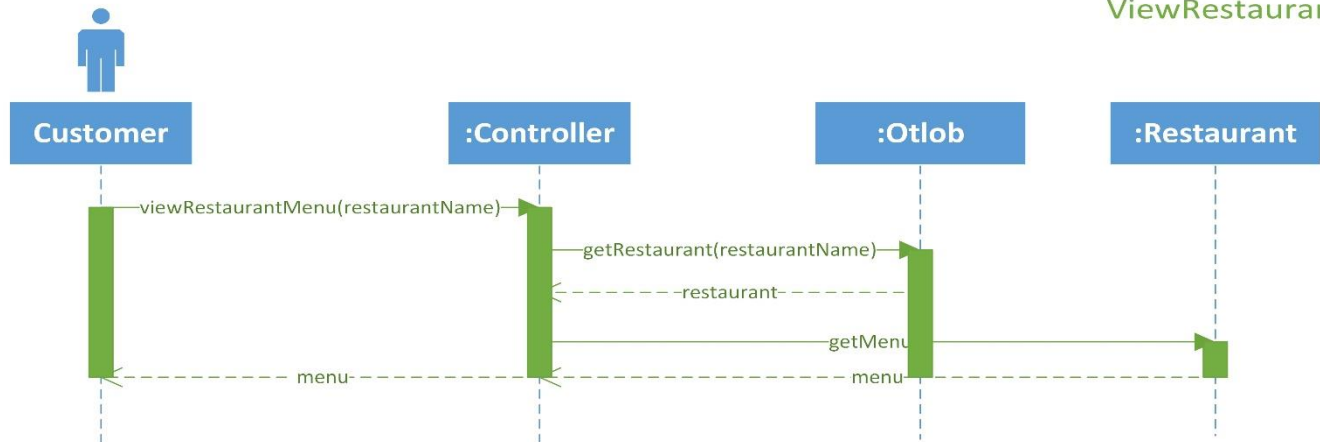
## ChangeLocation



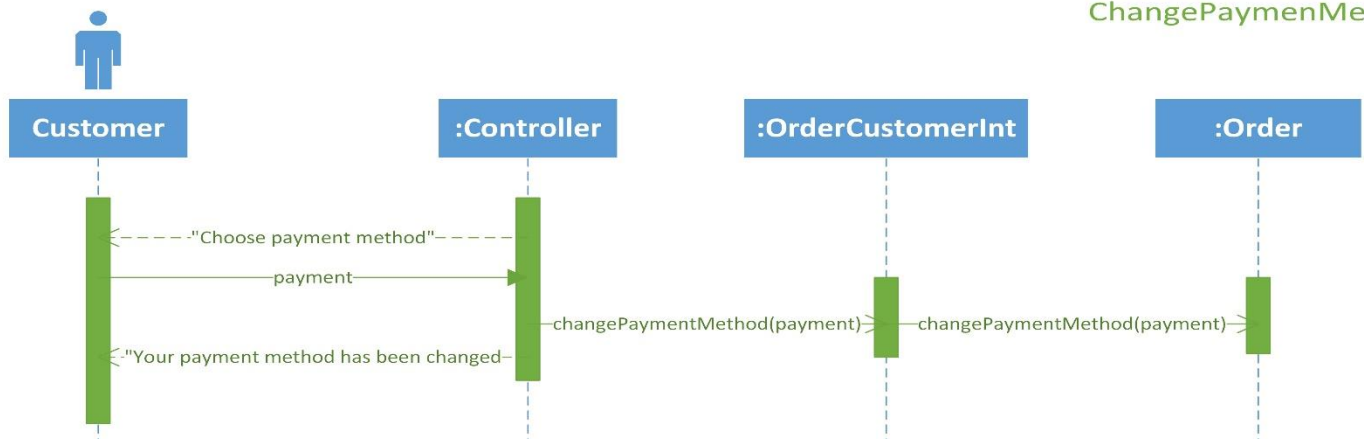
## MonitorOrder



## ViewRestaurantMenu

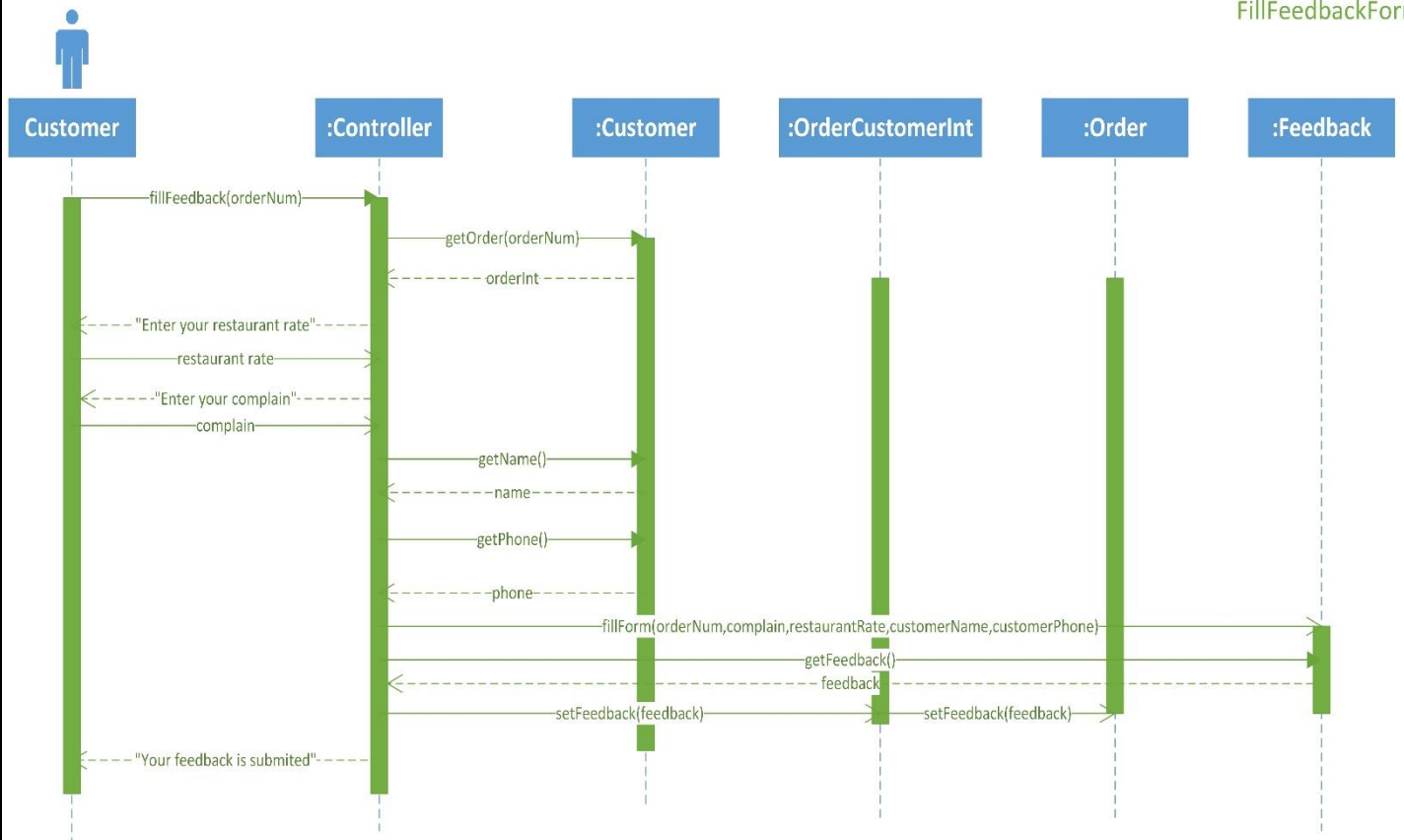


## ChangePaymentMethod

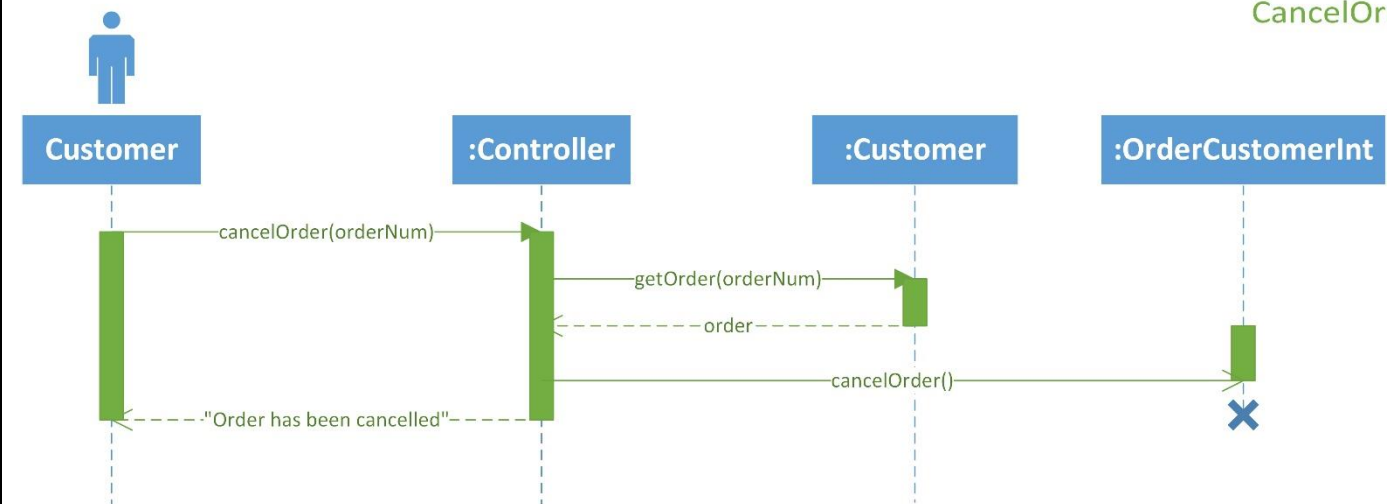




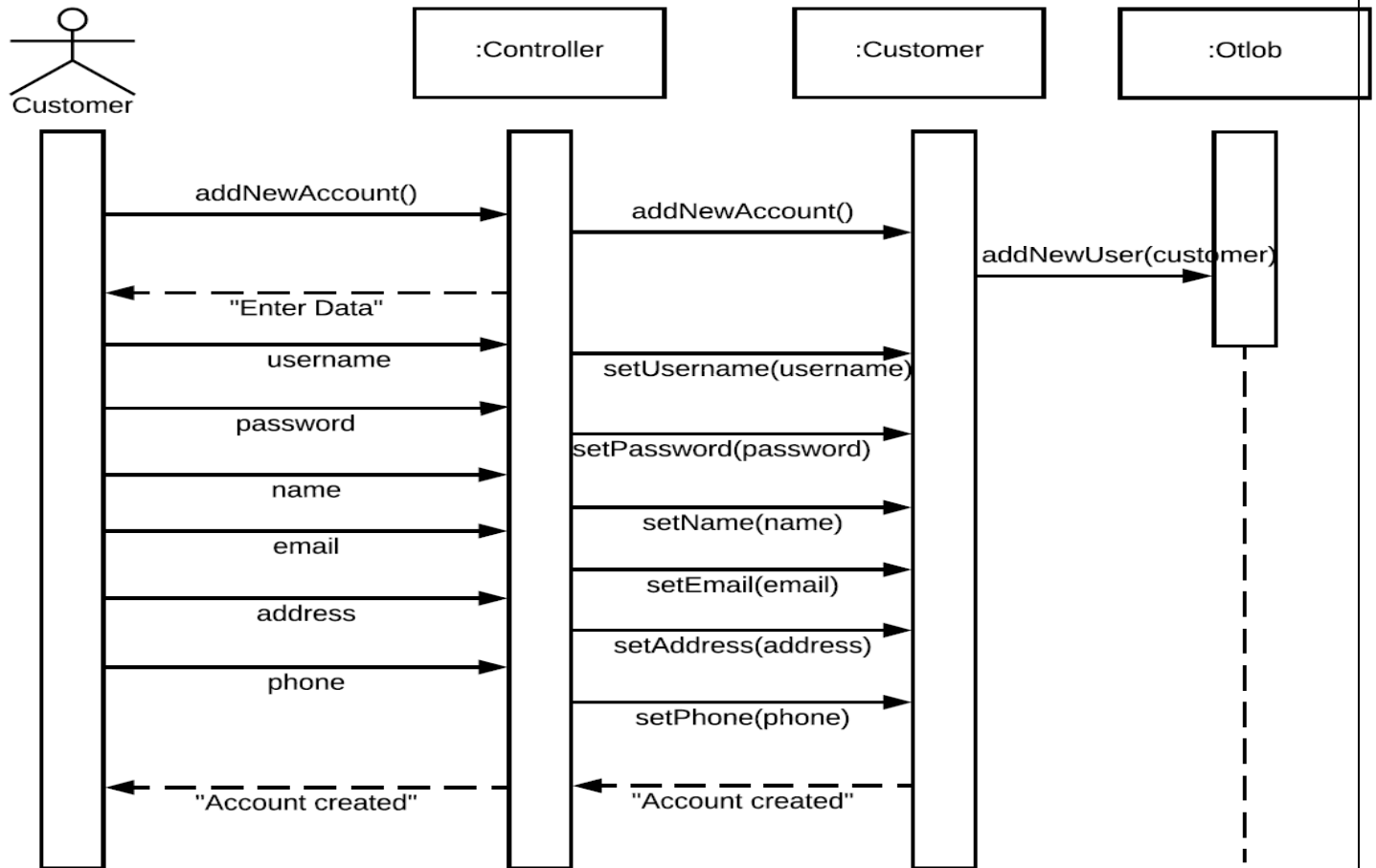
## FillFeedbackForm



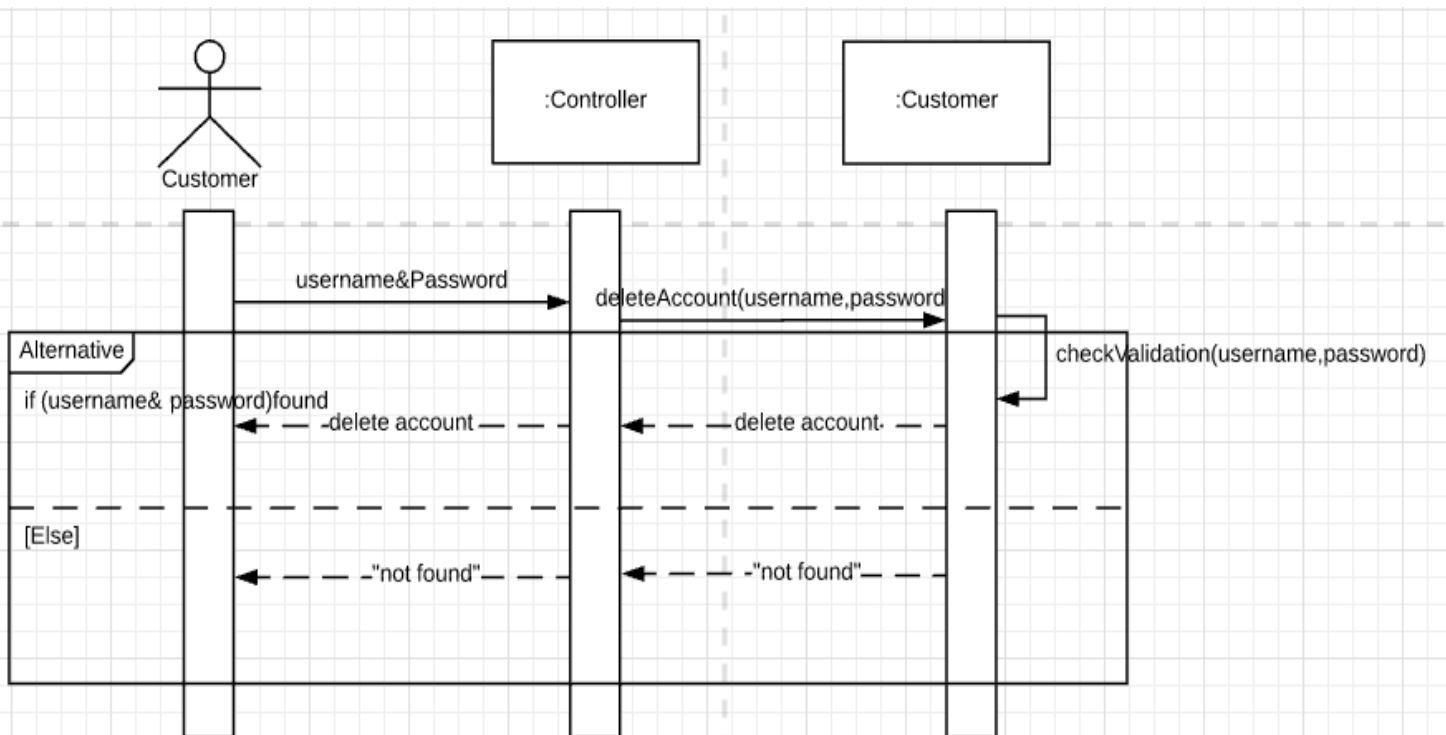
## CancelOrder



## -Register

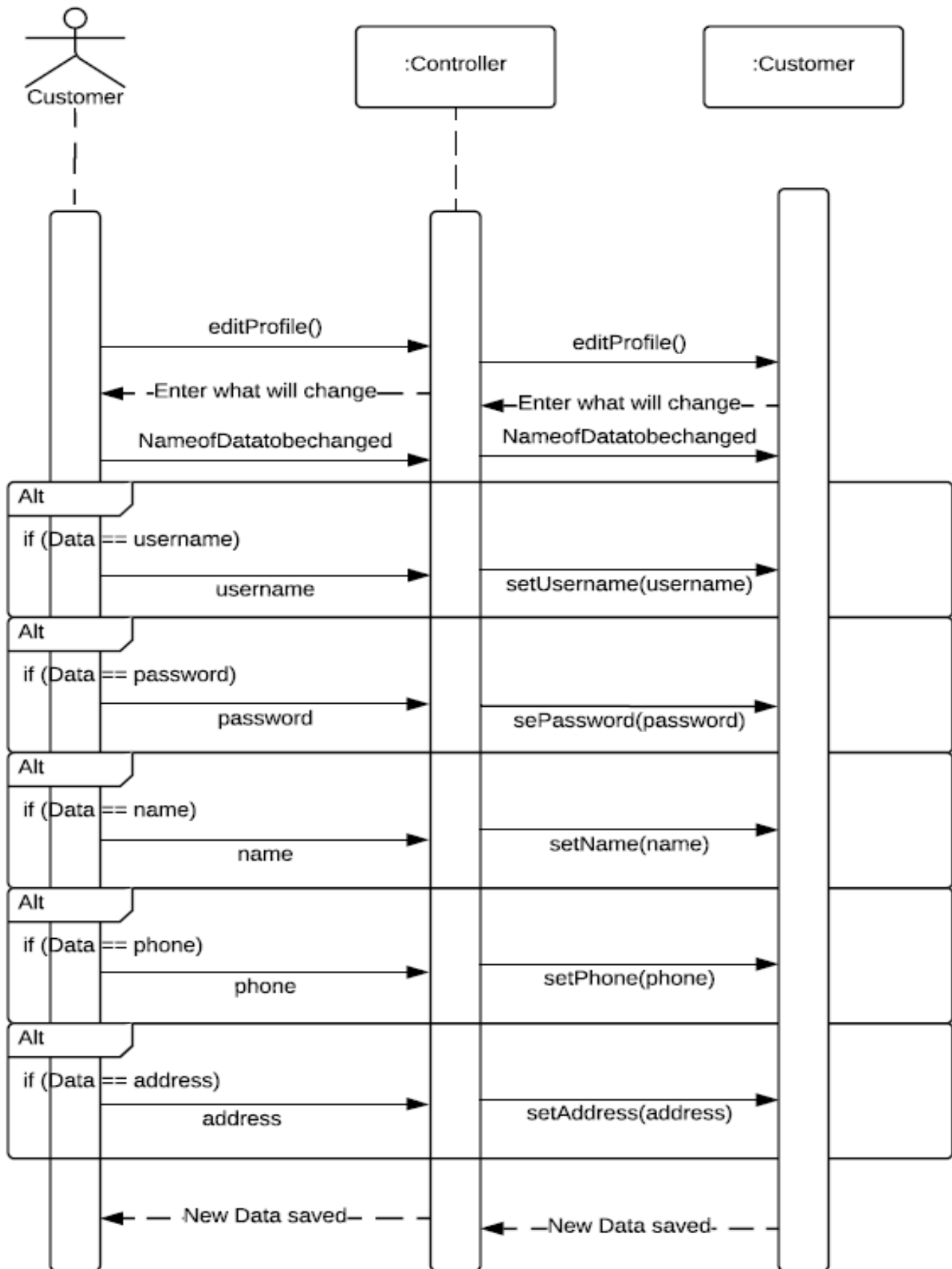


## -Delete account

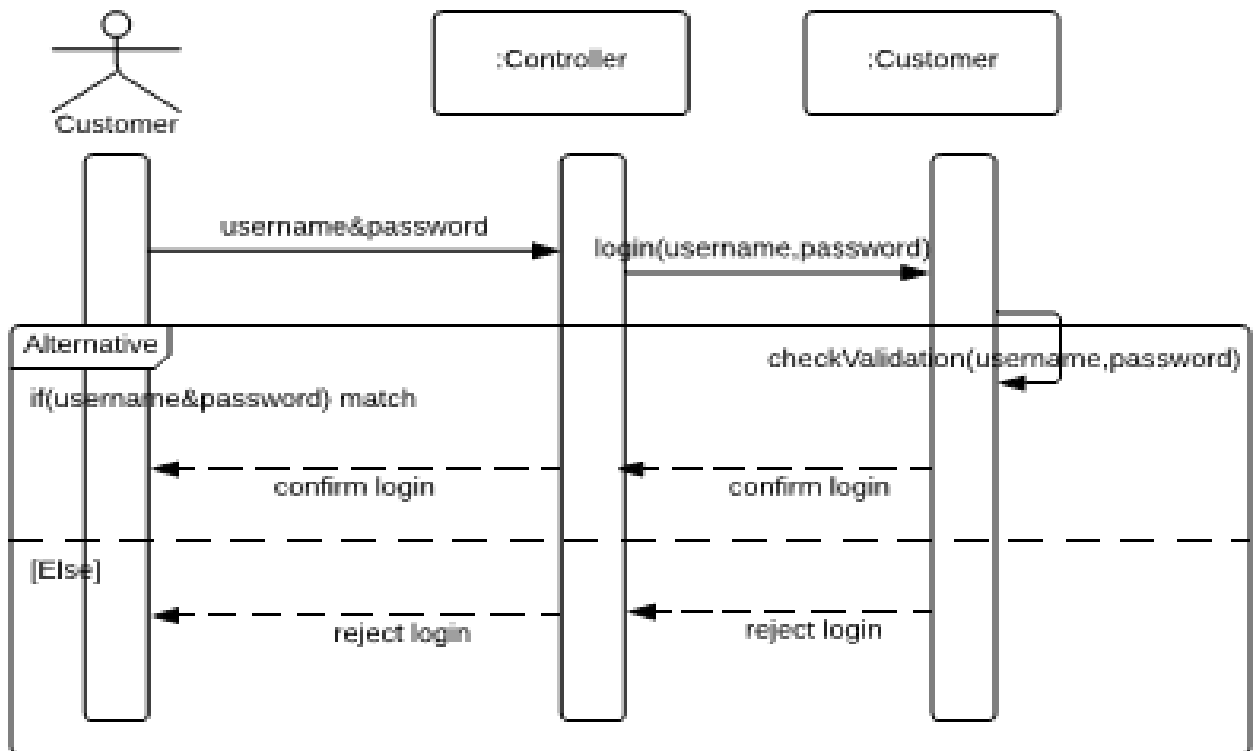




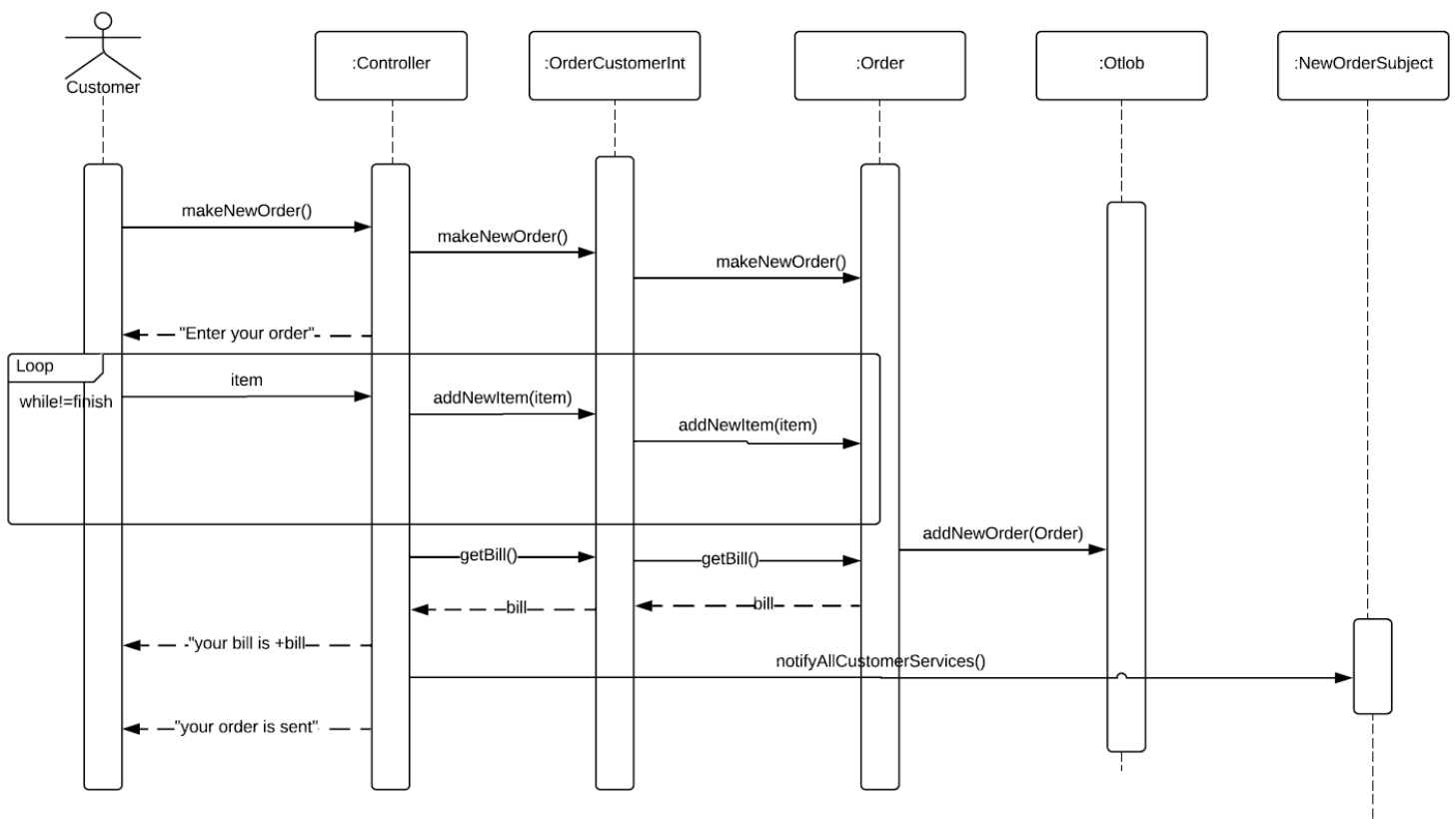
## -Edit profile



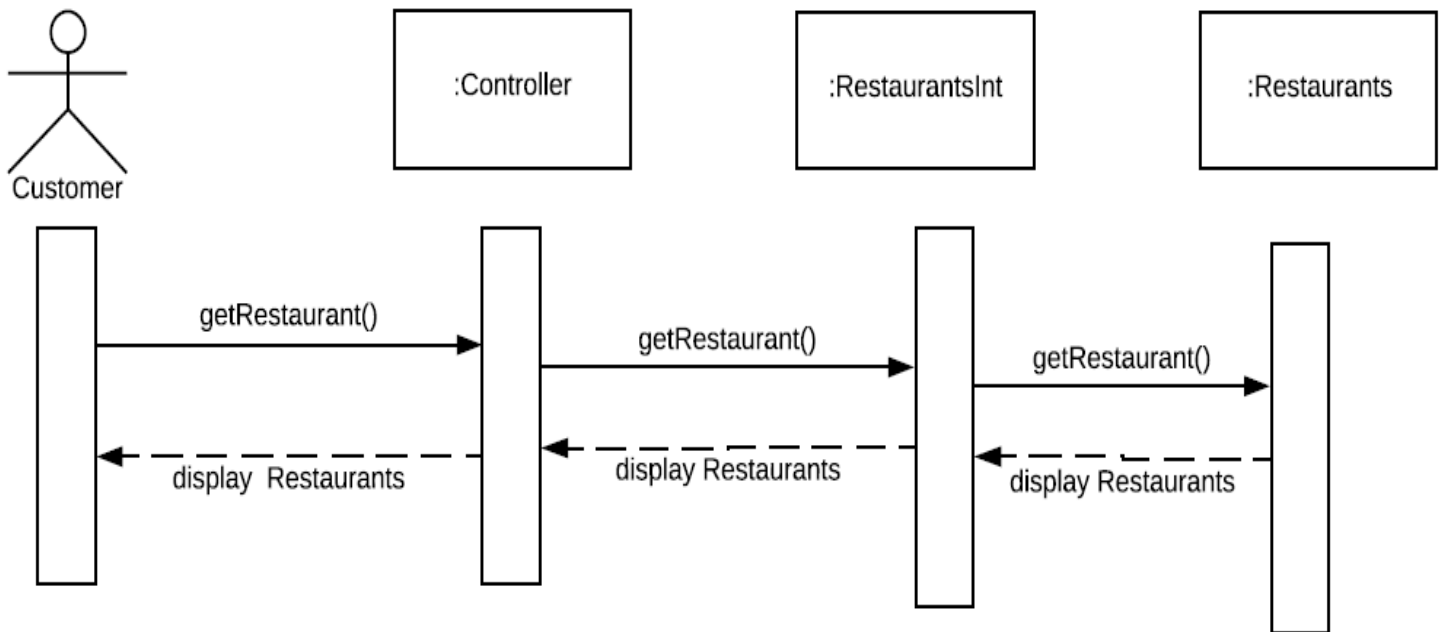
## -Login



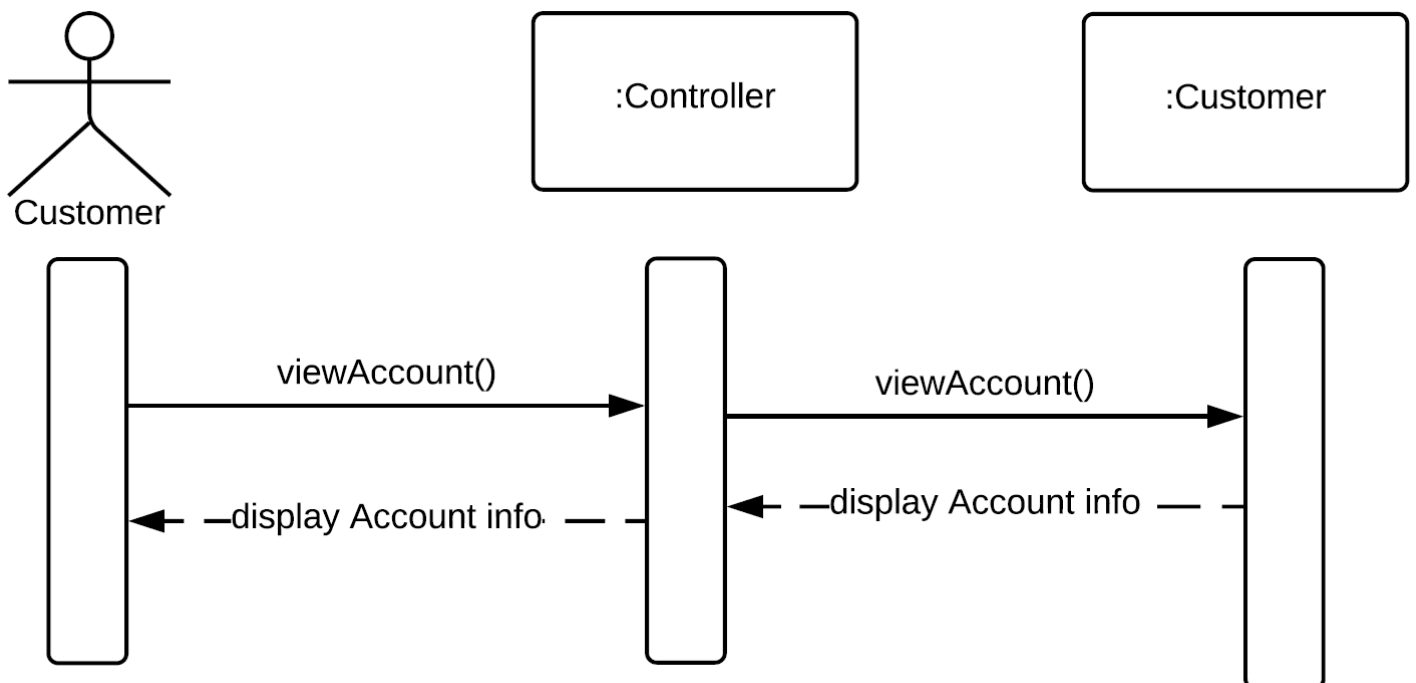
## -Make new order



## -View Restaurants



## -View Account



## 5- Design patterns

- **Singleton:** [Admin, Otlob](#)

In our system (otlob application) we only have one admin, so we will have only one instance for this class.

Same for Otlob class, which is a class that holds all the users, restaurants and orders data.

- **Strategy:** [Payment](#)

(PayPal, credit card, cash) classes have the same method with different implementation, so we used the strategy pattern.

- **Composite:** [Menu, Food, Component](#)

A menu can have sub menu and the menu have array of food. So that the menu is treated uniformly like food.

- **Read-only:** [-Order](#)

The order class is accessed by two users (customer, customer service), each user has access on specific methods, each one has his interface.

- [-Restaurant](#)

The restaurant class is accessed by all users (customer, customer service, admin), each user has access on specific methods, admin has his own interface unlike customer and customer service who share the same interface.

- **Observer:** [-Order, Customer](#)

When the order status is changed, or when the order is declined, a notification is sent to the customer.

- [-Order, Customer Service](#)

When a new order is created, a notification is sent to the customer service.

- **Delegation:** [Otlob](#)

This class contains objects of different classes and it uses their methods.

- **Immutable:** [Bill](#)

No one can change the bill data.