**Question 1: Given the following use case descriptions draw system sequence diagram SSD**

**Car Rental System**

***Create a New Reservation***

* Primary Actor: Customer
* Secondary Actor: Online Visa Card Validator System
* Pre-conditions: Customer is on the main page.
* Basic Flow:
  1. Customer selects the “Create a New Reservation” option.
  2. System requests reservation information [pickup location, pickup date, return date, pickup time, return time, and vehicle].
  3. Customer submits reservation information.
  4. System requests customer information [first name, last name, email address, driver’s license number, credit card number and date]
  5. Customer submits his/her information.
  6. System sends credit card information [first name, last name, credit card number and date] to Online Visa Card Validator System.
  7. Online Visa Card Validator System validates credit card information.
  8. Online Visa Card Validator System sends a message acknowledging credit card validation to System.
  9. System displays a message confirming the new reservation and showing the reservation details.
  10. System sends an email message to Customer’s email address confirming the new reservation and showing the reservation details.
* Post-conditions: If the basic flow was successful, a new reservation is created. Otherwise, the system state is unchanged.
* **Ordering System**

***Create New Order Use Case***

