An airline company considers constructing an online flight reservation system. Customers can purchase tickets, change reservation, cancel reservation, and view itinerary. If a customer prefers to make phone calls, the customer service representative can use the online system to help the phone user to purchase tickets. Customers are supposed to use credit cards to pay for their reservations. Then, the reservation system will check credit with the credit system to validate the credit card information. This is to make sure that a valid card number was entered and that the credit account has sufficient funds. However, for change reservation, the system checks credit if and only if the amount of the reservation has changed. If the amount has not changed, "Check Credit" does not need to run.

**Q1: Please draw a use case diagram for the above statement.**

**Q2: Prepare the textual description for the use case of “purchase ticket”**

|  |  |  |
| --- | --- | --- |
| Use case name | | Purchase Ticket |
| Participating Actors | |  |
| Flow of events |  | |
| Entry condition |  | |
| Exit condition |  | |
| Quality requirements |  | |

**Q3: If the customers can be further categorized as individual customers and corporate customers, how can you revise your use case diagram to reflect such details?**