# Practical-4

Aim: Draw Sequence and collaboration diagram for following case studies

(1). Customer goes to the restaurant and read the menu card provided by the waiter. & then places the order as per choice. Waiter sends the order to the kitchen for cook. Cook prepares food by order and after that food serve to the customer by waiter. Customer takes the food and asks for the bill. After that bill is been calculated as per order by manager & return back to customer through waiter. Customer pays the bill after check the amount.
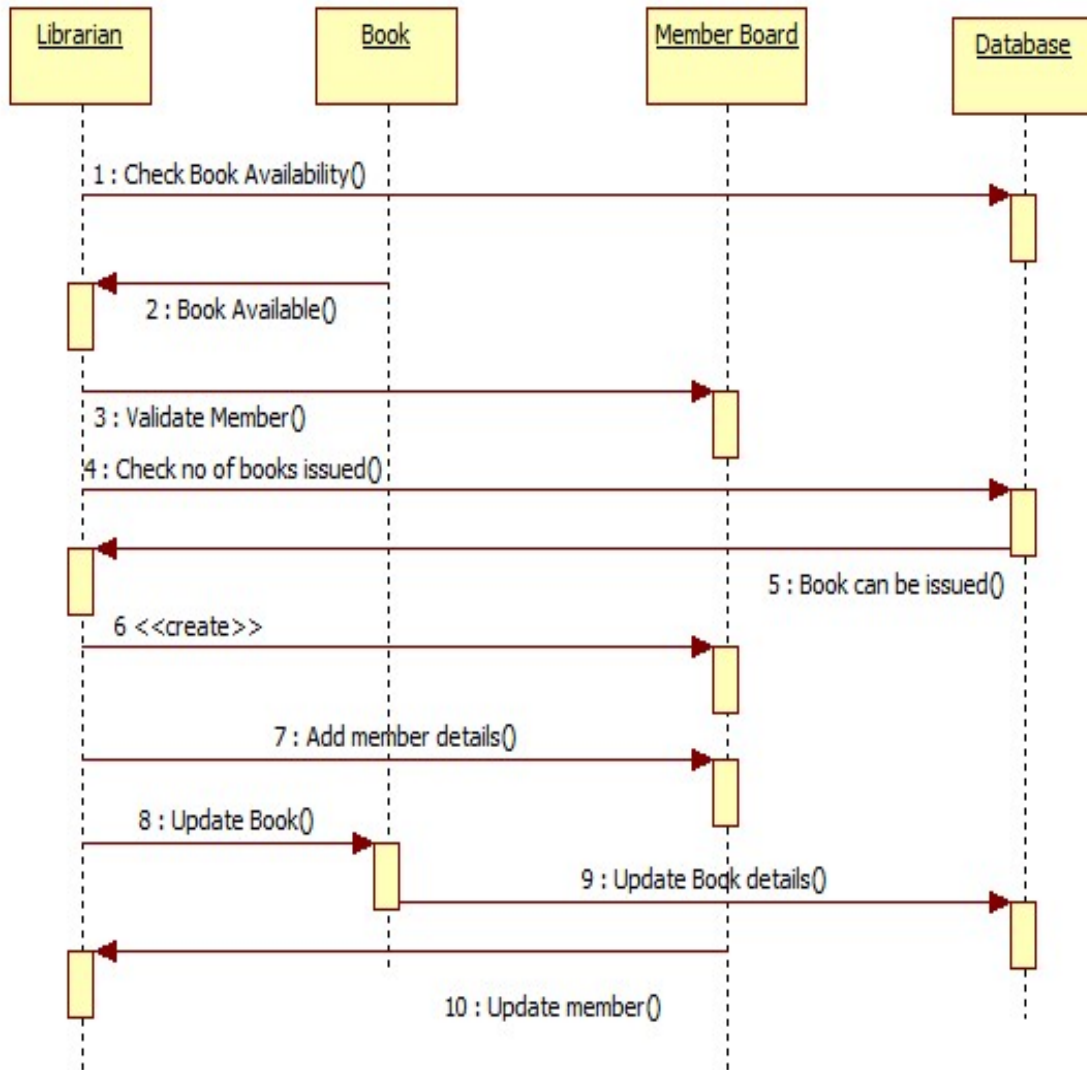
Sequence diagram:-
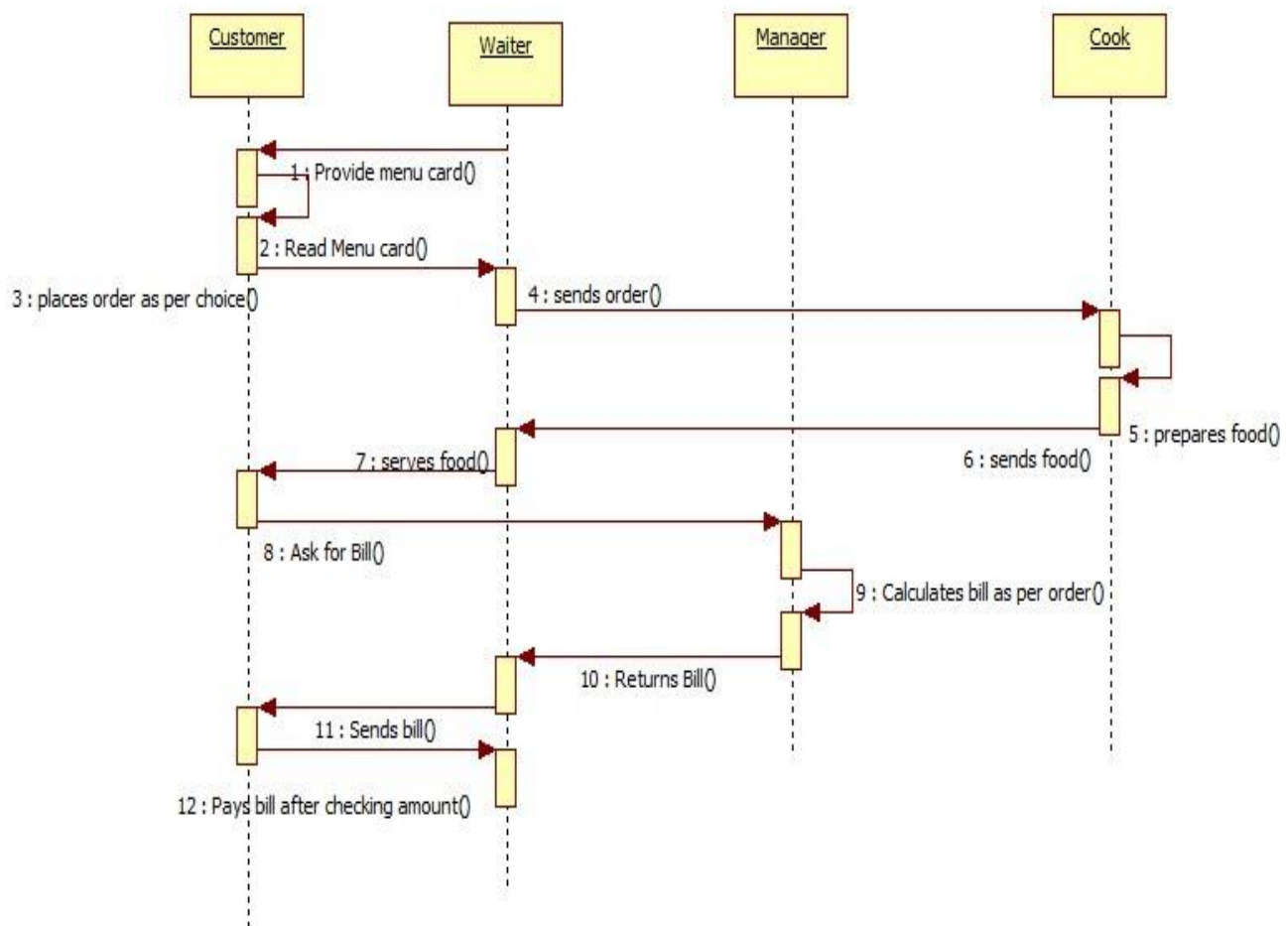
[Restaurant Management System]

Collaboration diagram:-
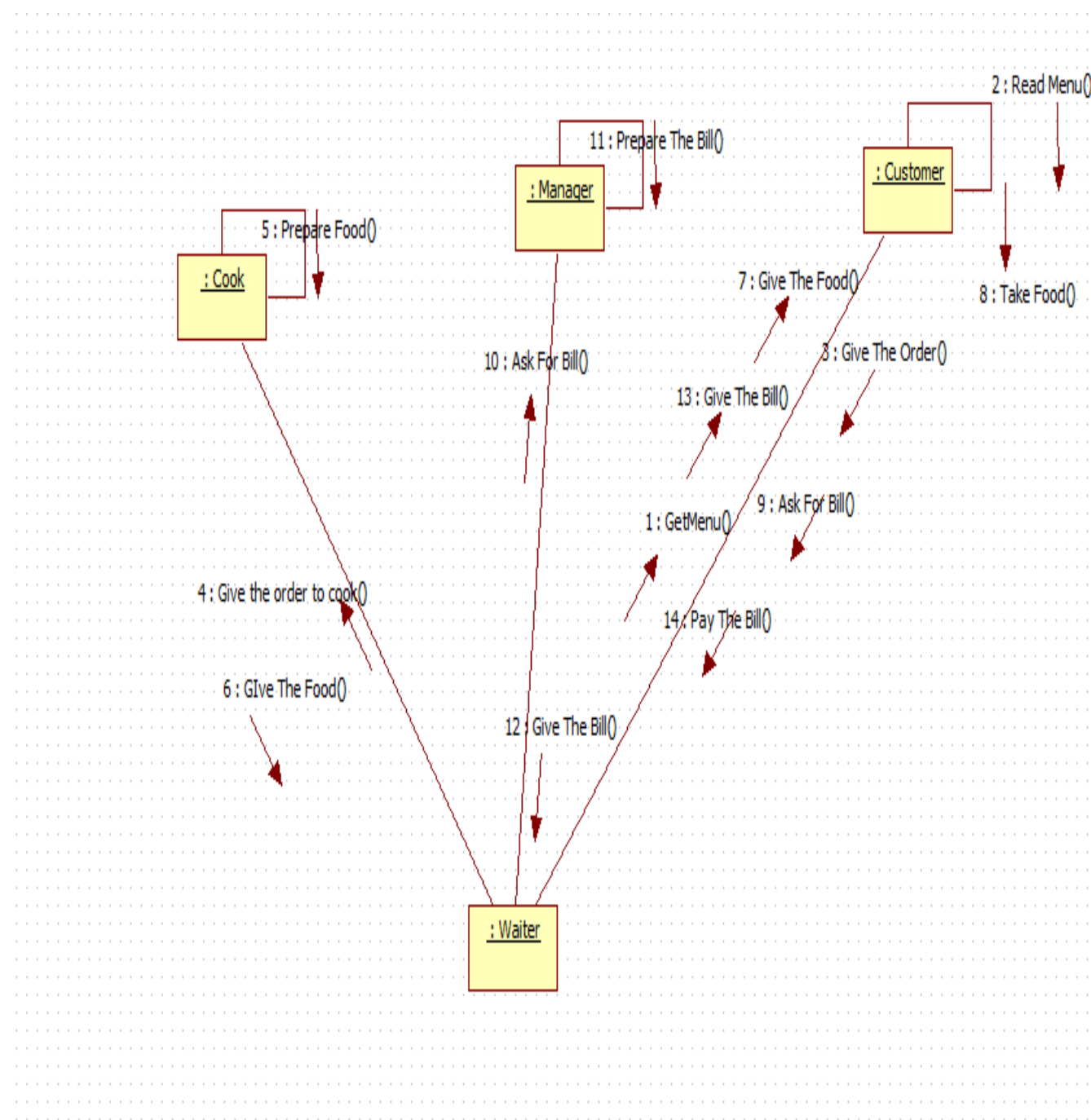
(2). ATM system

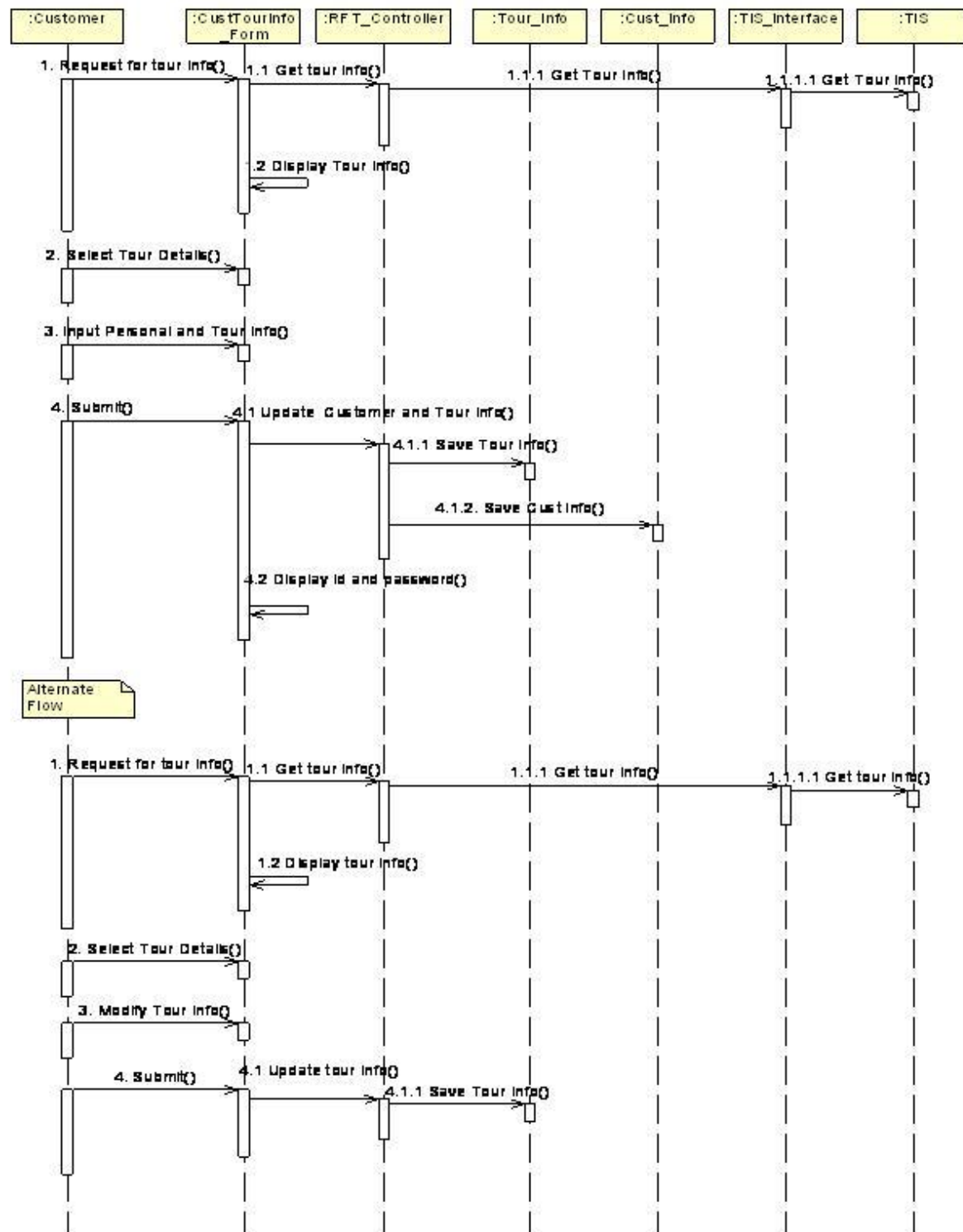**Sequence diagram:-**
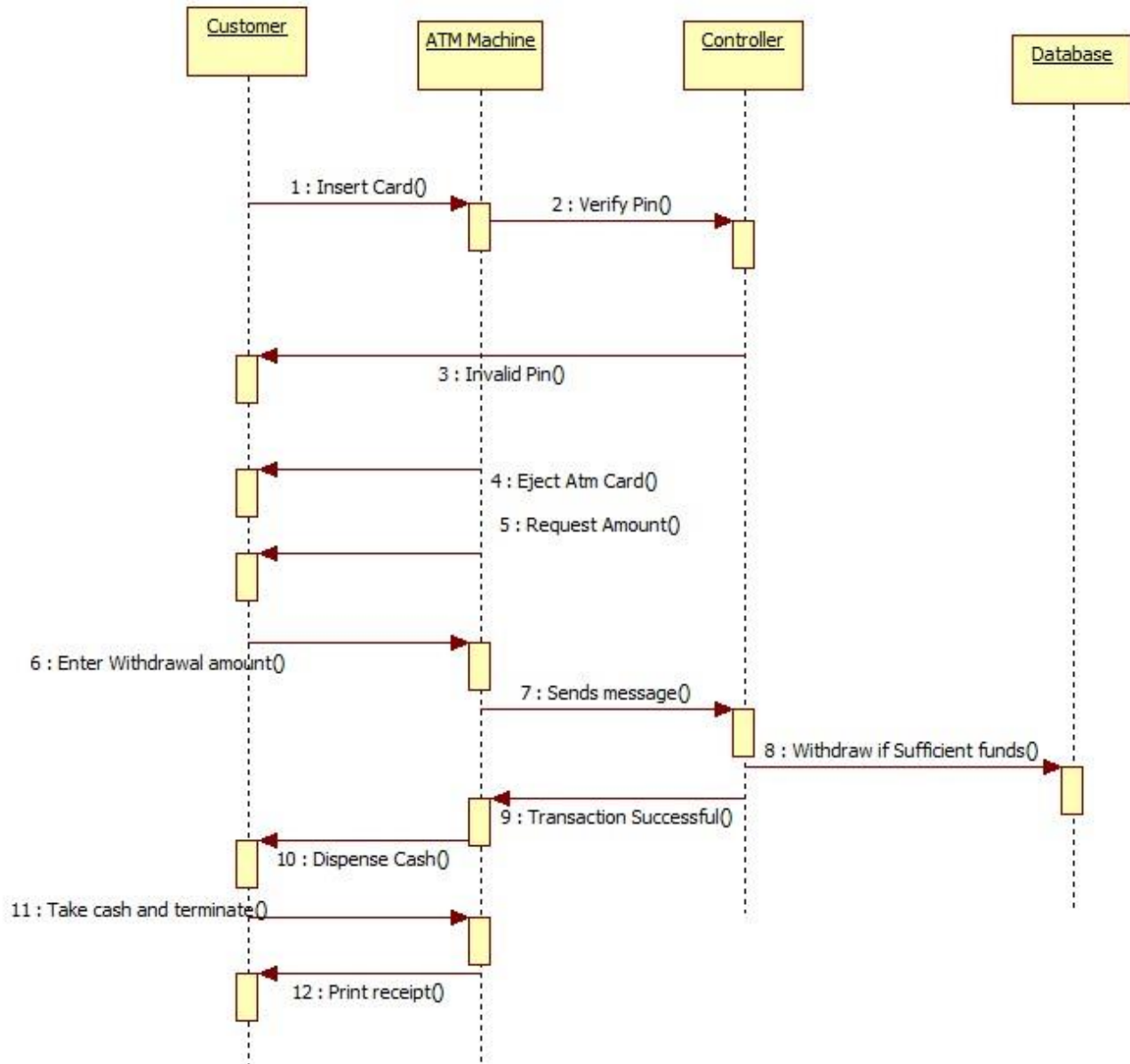
[ATM Management System]

Collaboration diagram:-

(3). "Issuing a book" at library through library management system.

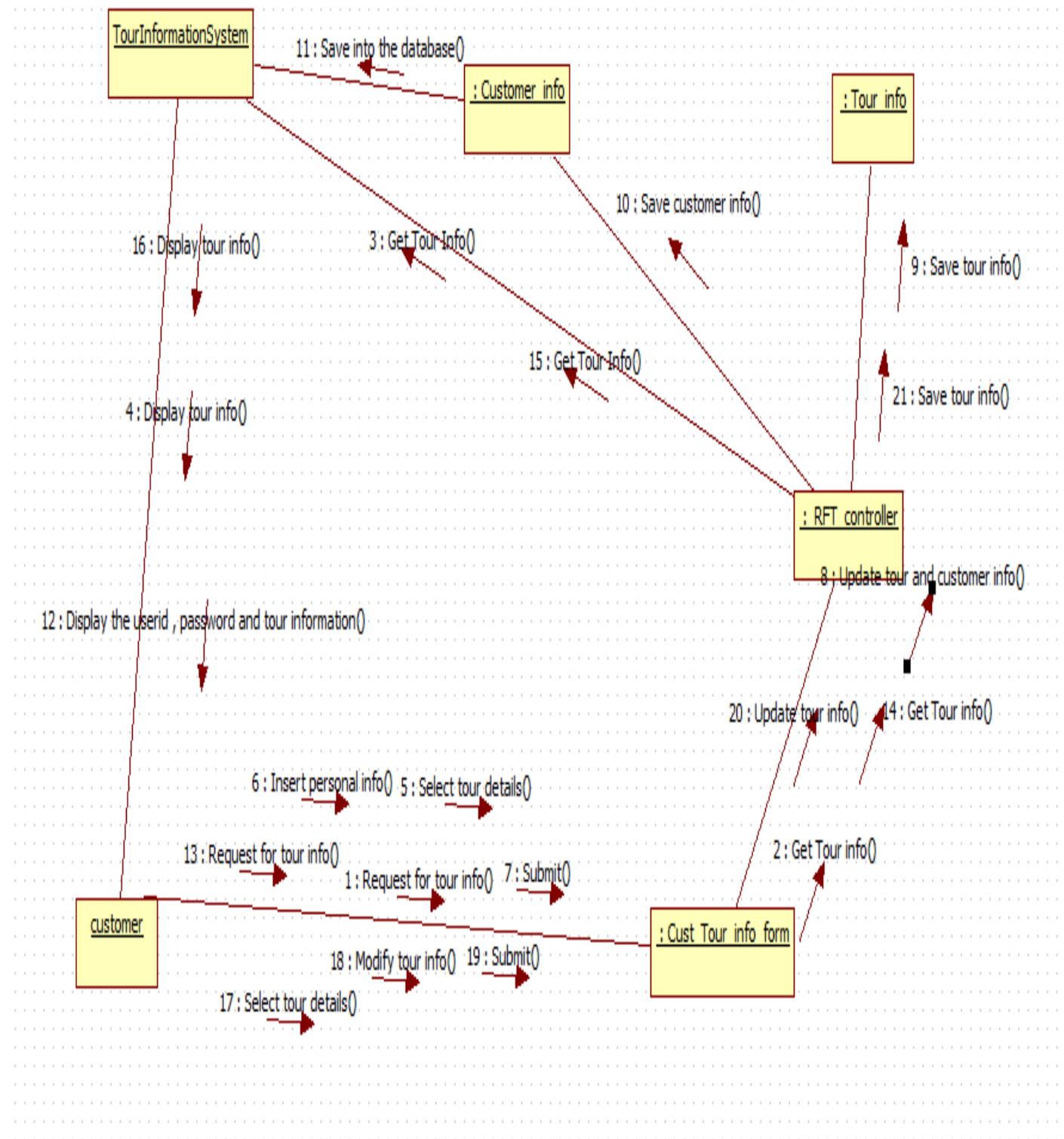**Sequence diagram:-**

[Library Management System]

Collaboration diagram:-

7 : Take the Book()

: Person

8 : Update the record()

: DataBase

9 : Display the THANK YOU message()

6 : Update the Book availability()

5 : Provide the Book()

4 : Display sorry message()

2 : Check Avalilability of Book()

1 : Ask for Book()   3 : Return Status of Book()

LibraryManagementSoftware

(4). Tour Information System Tour Reservation System has made life very easy for such visitors by saving both their time and energy. Visitor requests for scheme to check the availability of the desired tour package. This information is stored in Tour Information System. System will check whether the customer is existing or new. New user will enter his personal and tour details for reservation. In turn he/she will be provided with system generated unique ID and password. This login information could be used for further transactions. When customer is satisfied with tour package he/she would request for reservation of tour. Personal details of new customer is stored in cust_info while the details regarding the tour selected by particular customer is stored in tour_info and the details regarding it would be restructured in Tour Information System. Existing customer can update his/her personal details in cust_info and cancel reservation for tour from tour_info and changes regarding it are also reflected in Tour Information System. After confirming the tour package the customer will make payment either online or through staff by personally going at the office. Customer can make payment by cash, credit card or by cheque. System checks for the validity of staff. Once the payment is done by customer, valid staff will make Ticket Reservation System. Reserved customer will be able to view details about reservation by providing login information from cust_info and tour_info system. Administrator can add, delete or modify tour schemes from Tour Information System.

Sequence diagram:-

Collaboration diagram:-

(5). Vending Machine:

Sequence diagram:-

Collaboration diagram:-