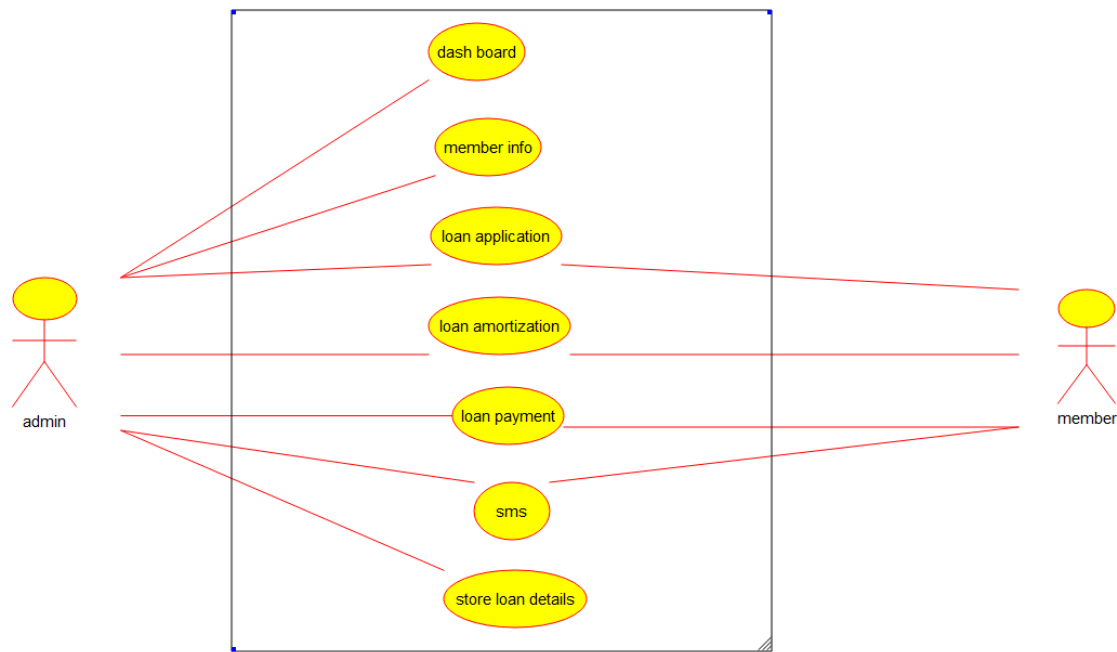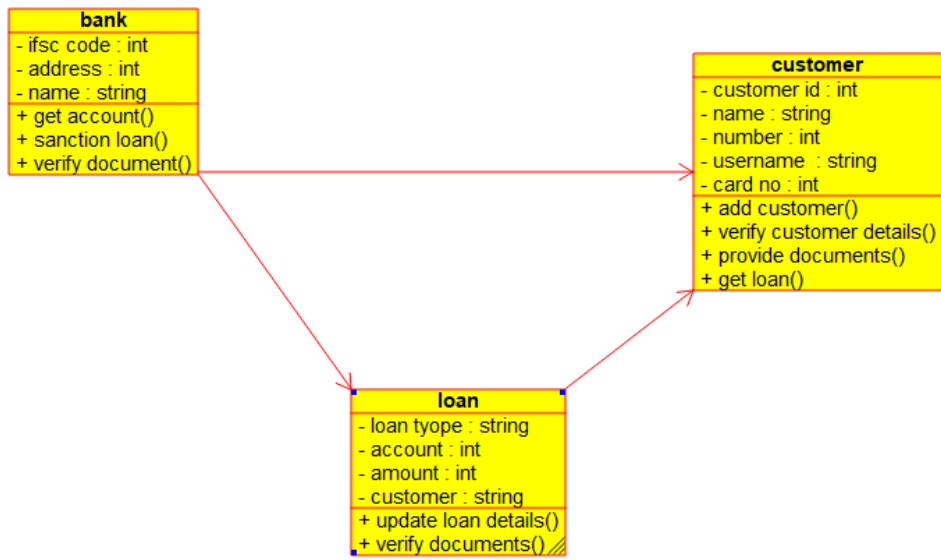1. Develop a system using UML for Personal Loan Management System. The admin should add new customers and view the customer's records. The admin should check the defaulters. The customer can see his/her account detail and apply for a new loan by providing the required documents, and pay slip. The admin should verify the document submitted and approve the loan after verifying the payback potential of the customer.
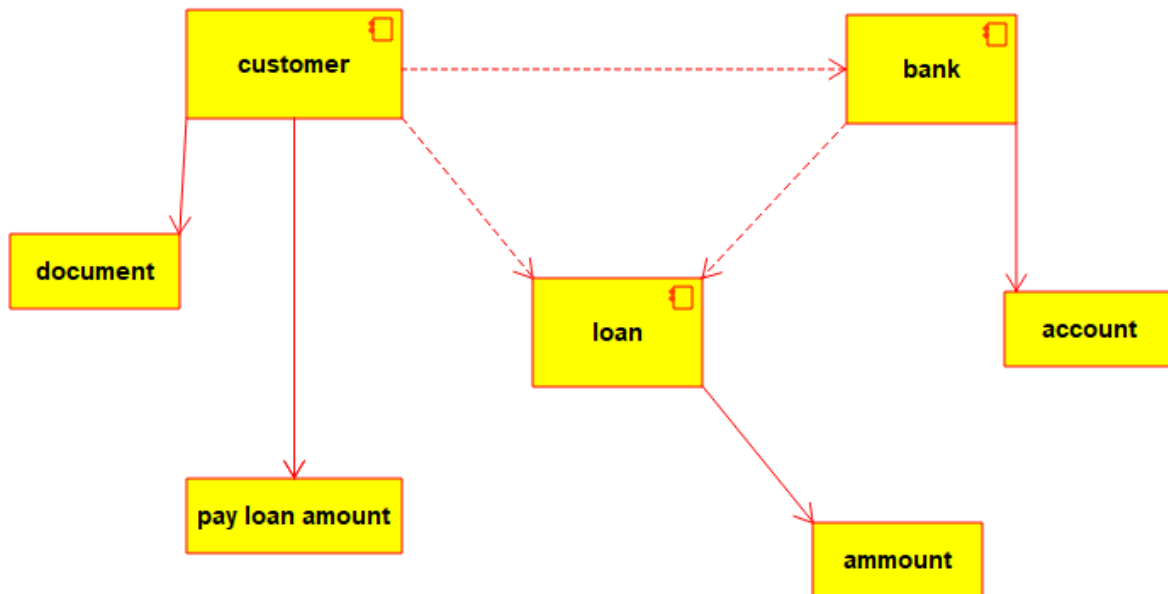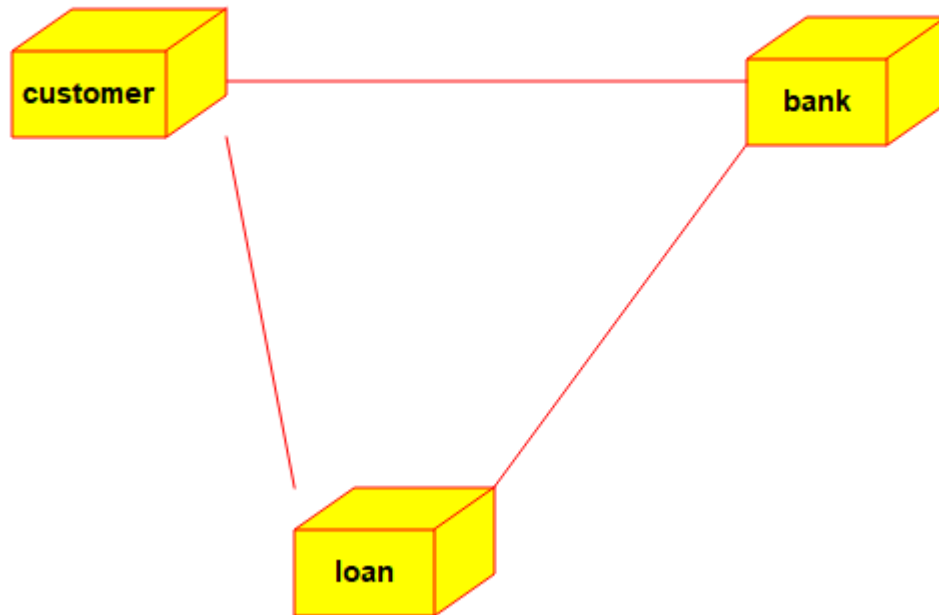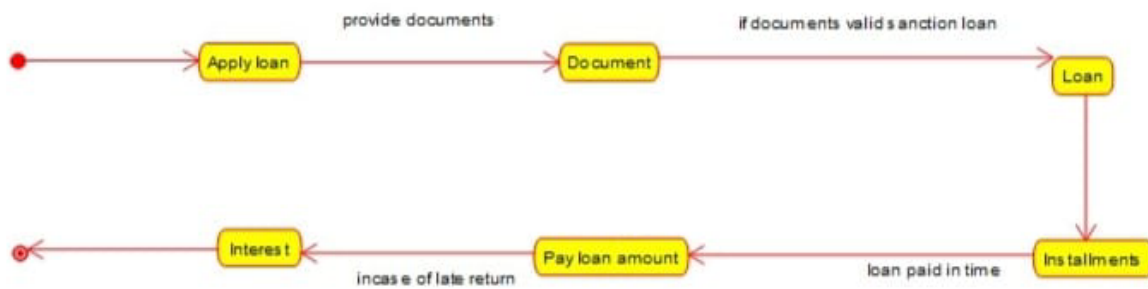
Use case diagram:

Class diagram:

bank

- ifsc code : int
- address : int
- name : string

+ get account()
+ sanction loan()
+ verify document()

customer

- customer id : int
- name : string
- number : int
- username : string
- card no : int

+ add customer()
+ verify customer details()
+ provide documents()
+ get loan()

loan

- loan tyope : string
- account : int
- amount : int
- customer : string

+ update loan details()
+ verify documents()

Component diagram:

customer

bank

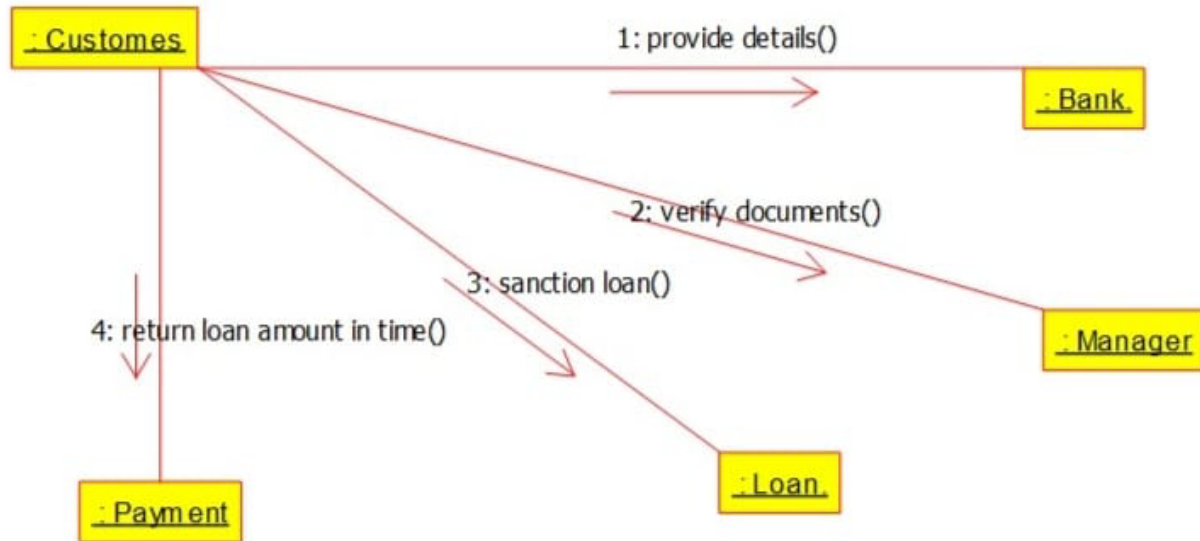document

loan

account

pay loan amount

ammount

Deployment diagram:

State chart diagram:

Communication diagram:

Activity diagram:

```
                    ●

              Apply for loan

            Provide documents

            Verify documents

                 ◇ ───────────▶  not valid

            sanction the loan

          pay the money in time

                 ◇

            interest increases

            pay with interest

                    ◉
```
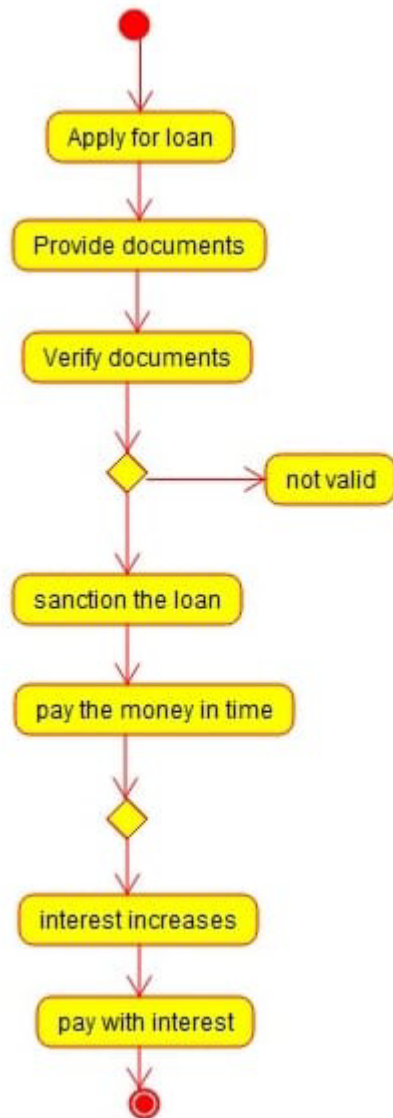
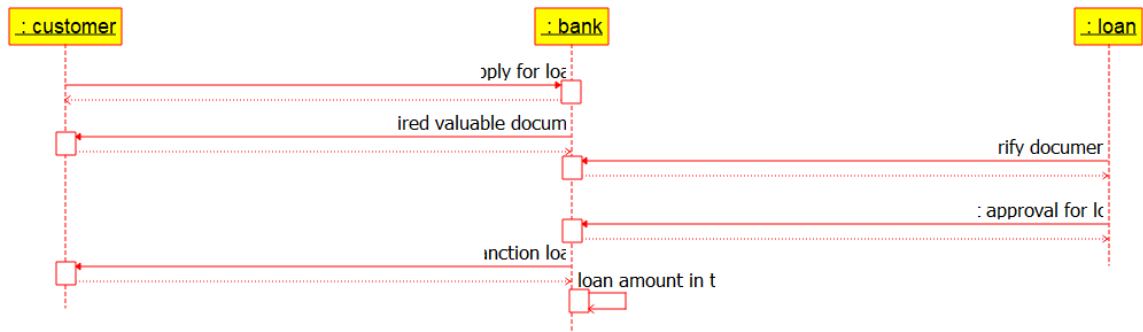## Sequence diagram:

Entity diagram:
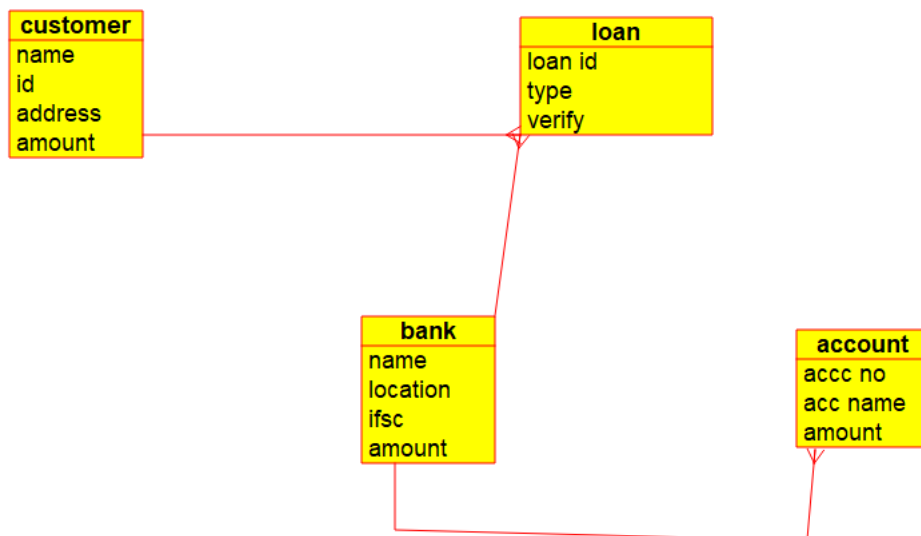

Result:

Thus an UML diagrams for Loan Management System has been drawn successfully by using

Umbrella software.