1.1 Use case

book store

- add book
- edit book
- delete book
- view book
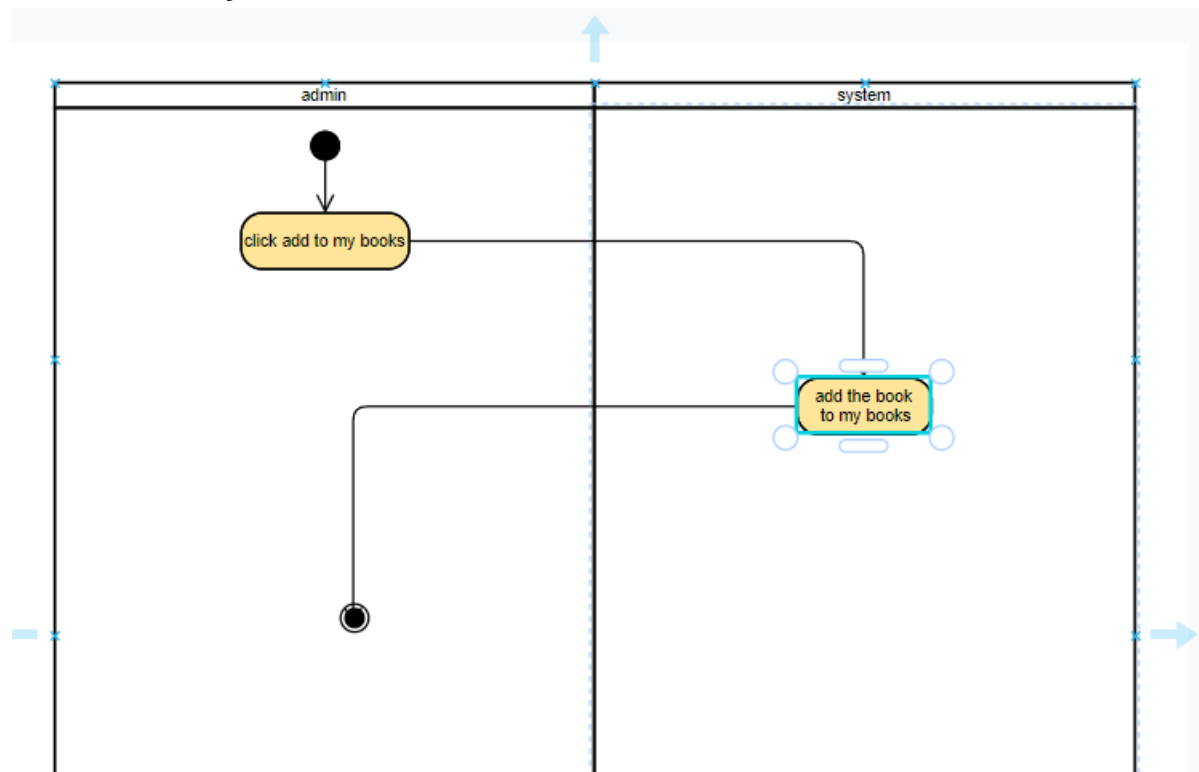- add book to cart
- remove book to cart
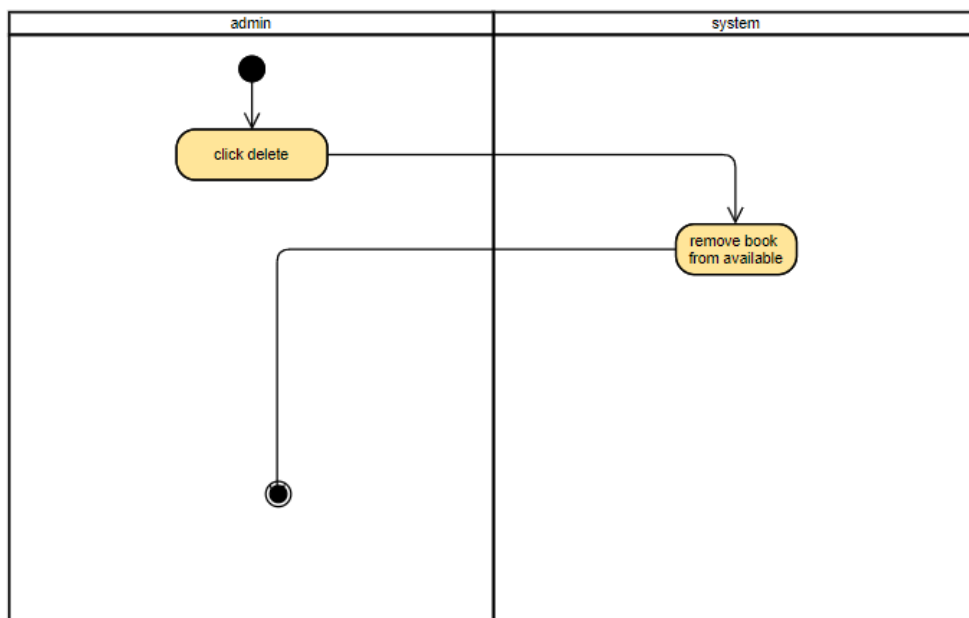
admin

client

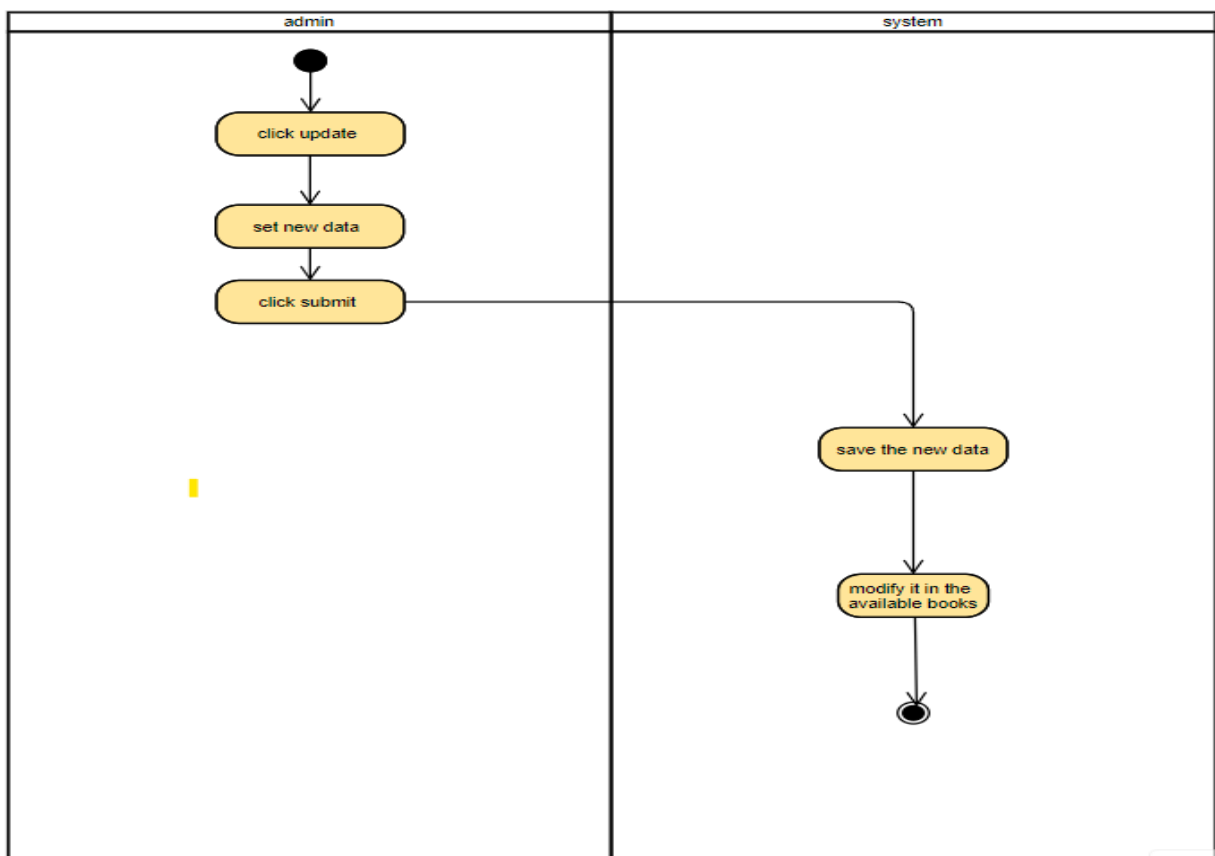## 2.0 activity diagram

2.1 add new book
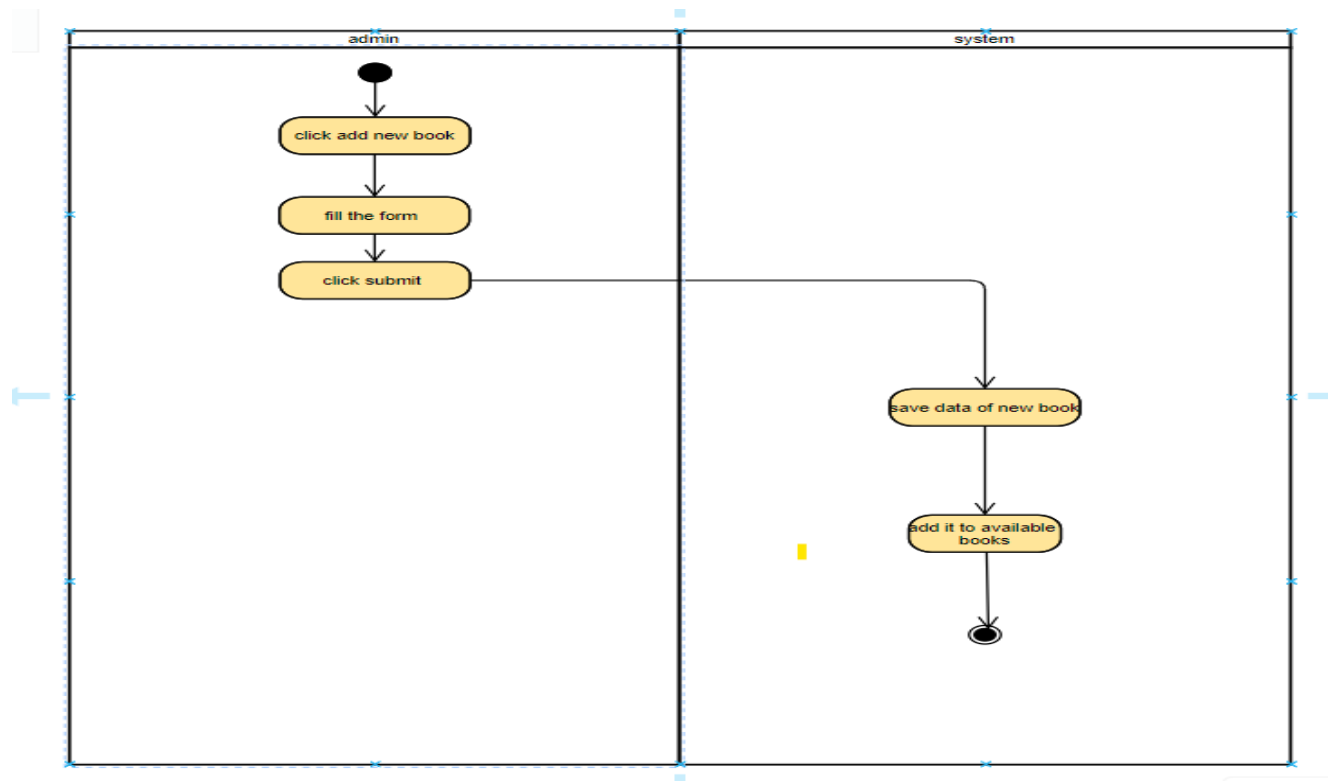
2.2 add to my books
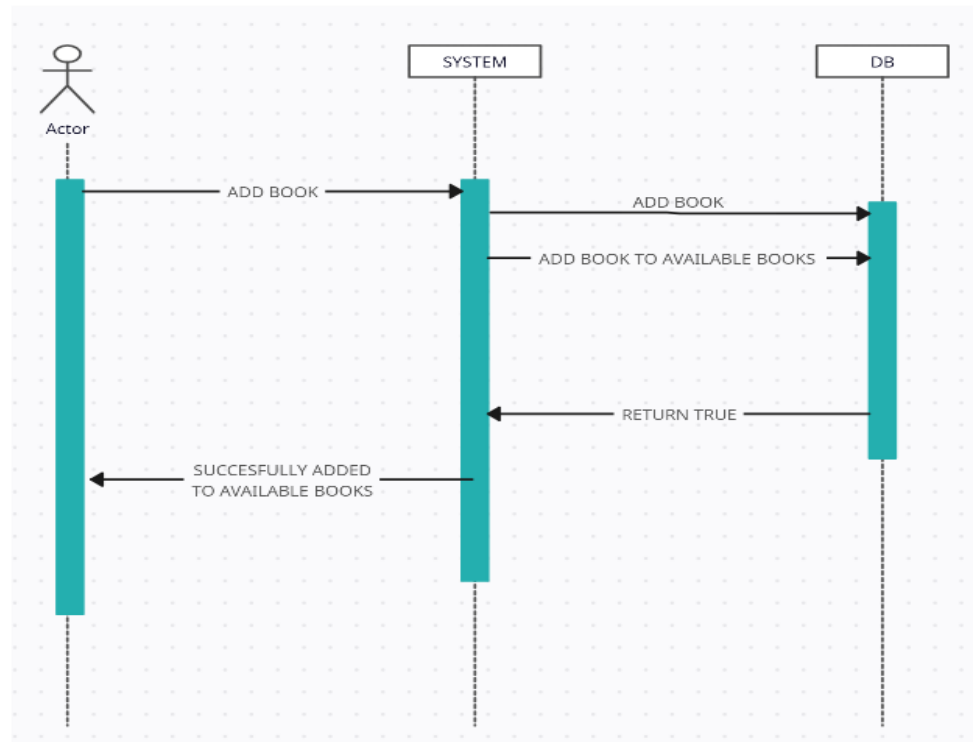
2.3 activity diagram delete book
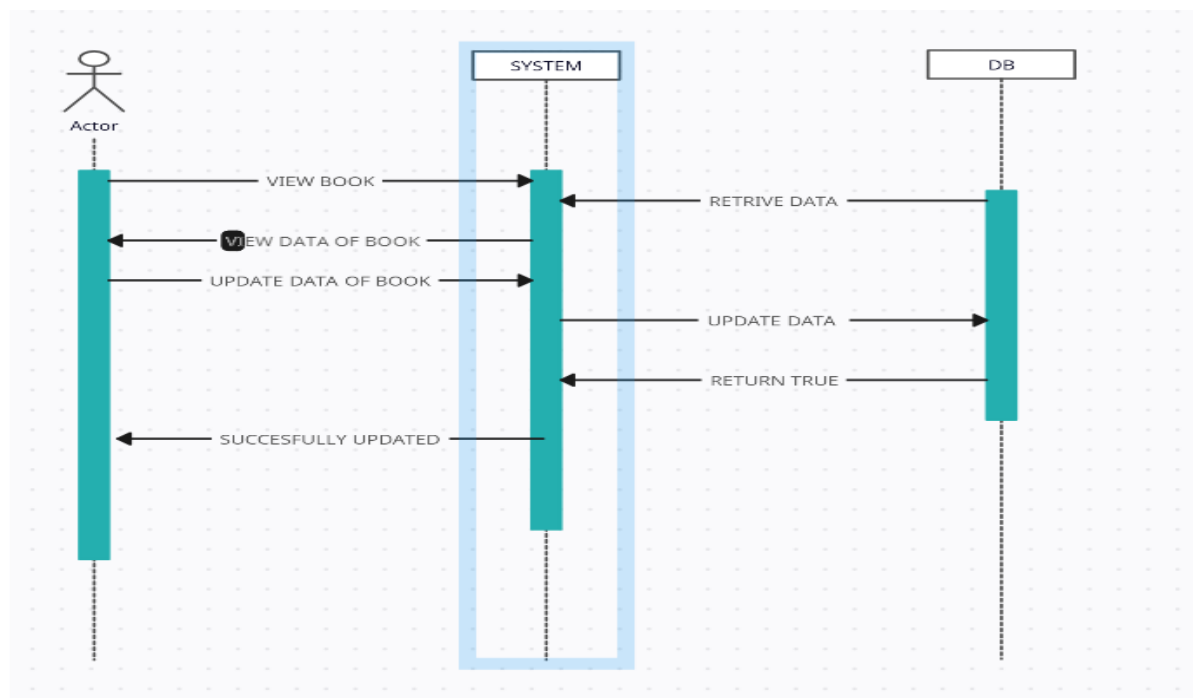

2.4 activity diagram update book
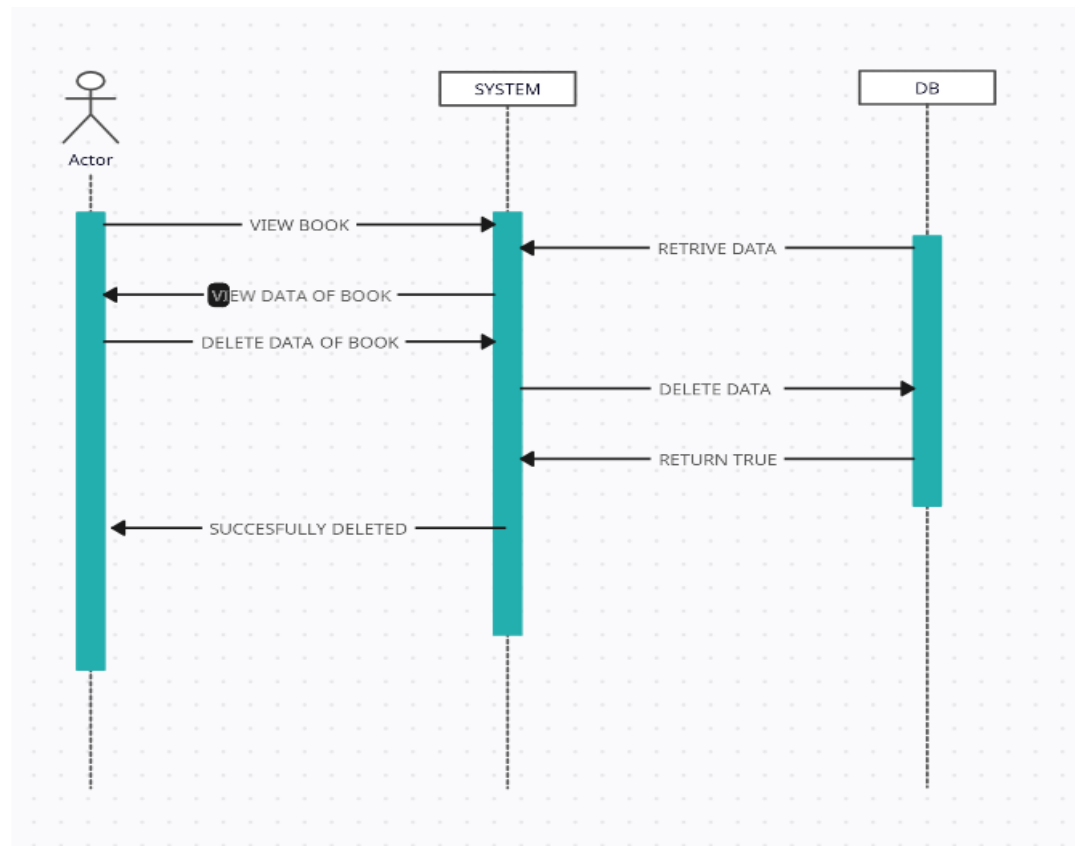
3.0 Sequence diagram

3.1 sequence diagram add book
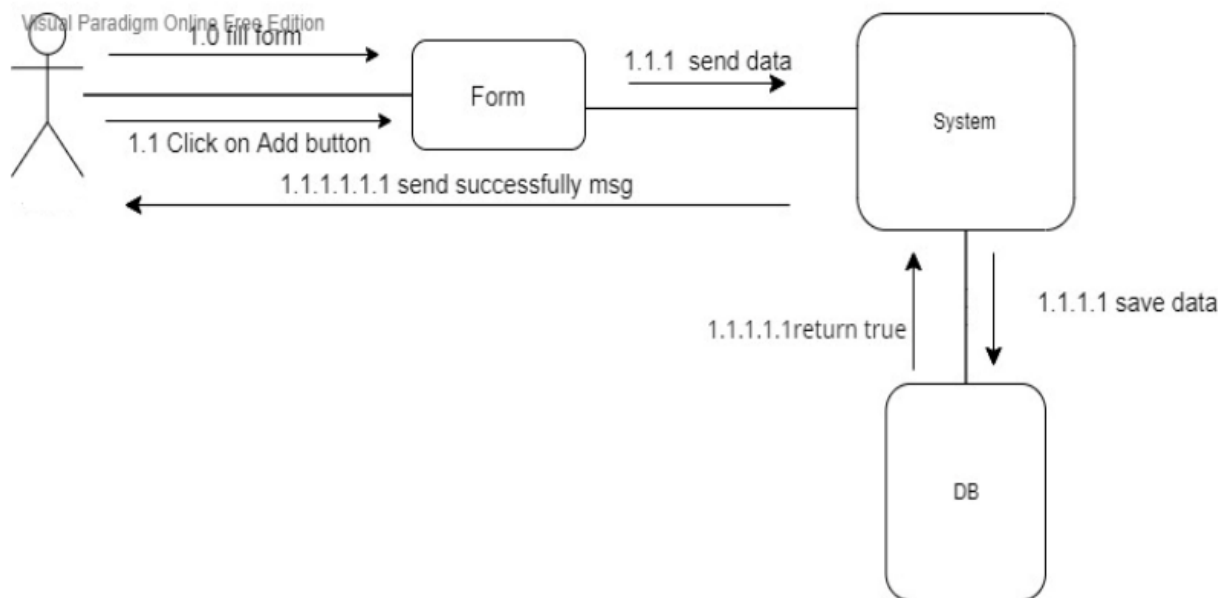

3.2 sequence diagram update book

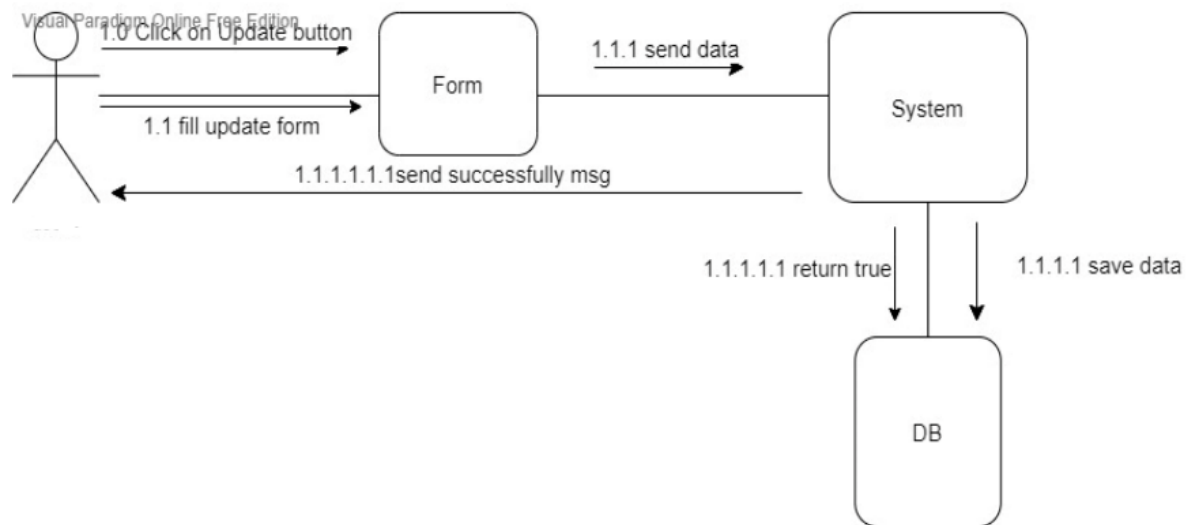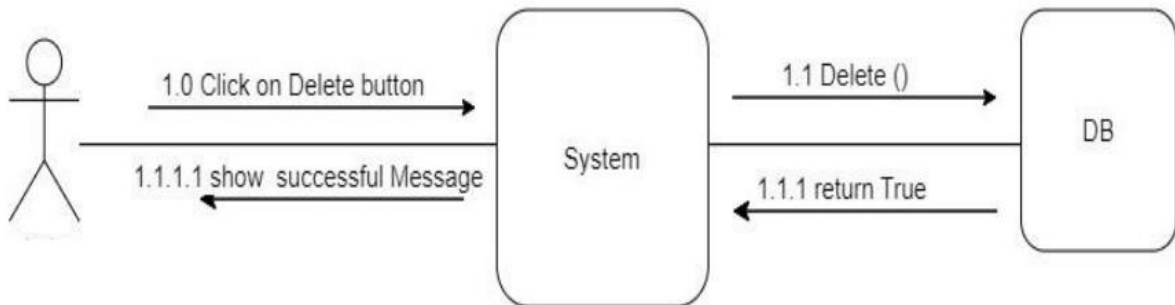## 3.3 sequence diagram delete book

4.0 communication diagram

4.1 communication diagram add book

4.2 communication diagram update book

1.0 Click on Update button →

Form

1.1.1 send data →

System

1.1 fill update form →

← 1.1.1.1.1.1send successfully msg

1.1.1.1.1 return true ↓   1.1.1.1 save data ↓

DB

4.3 communication diagram delete book

1.0 Click on Delete button →

System

1.1 Delete () →

DB

← 1.1.1.1 show successful Message

← 1.1.1 return True

4.4 communication diagram view book

1.0 Click on view button →

System

1.1 Get Data ( ) →

DB

← 1.1.1.1 show

← 1.1.1 Send
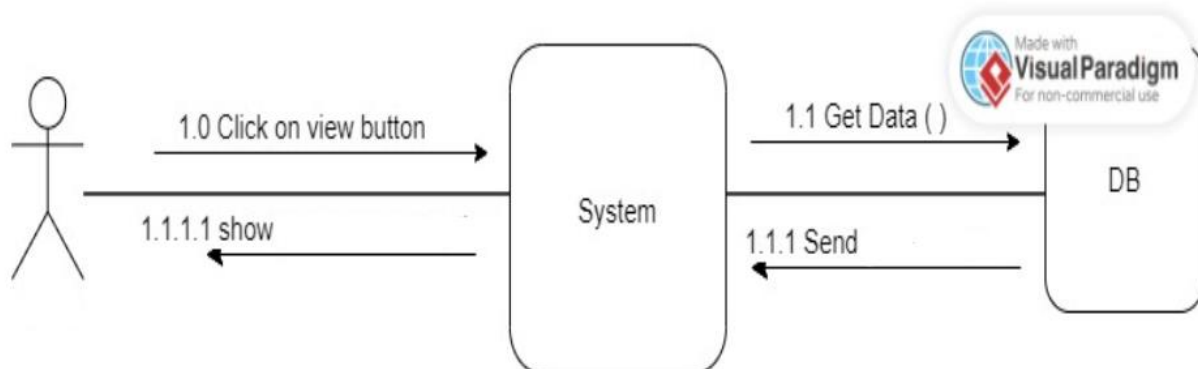
5.0 ERD diagram
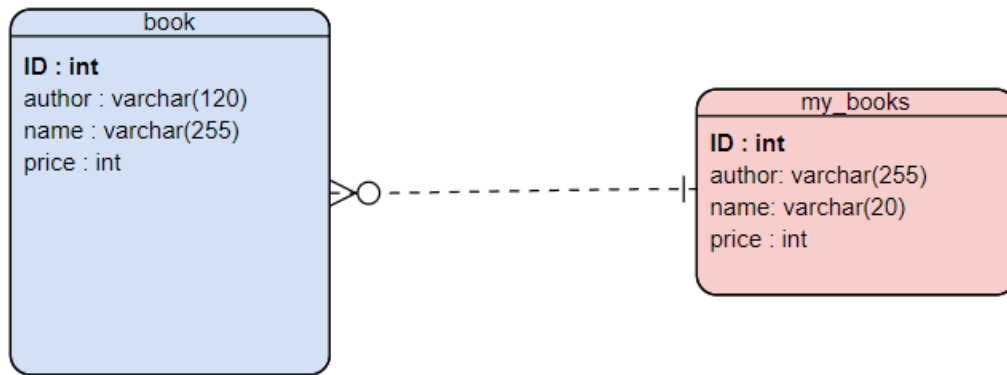
6.0 class diagram
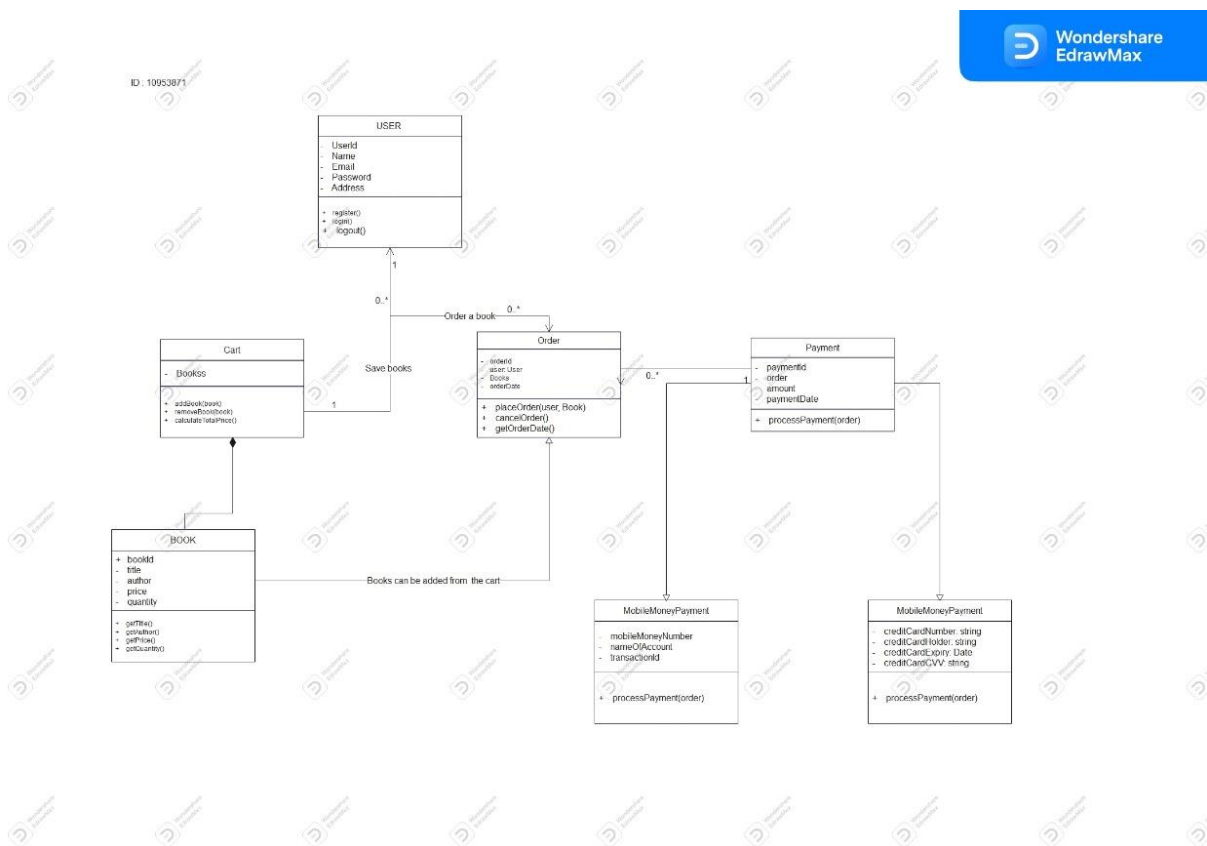
7.0 OCL Constrains:

7.1: context Cart

 def: operation getBooks(): Set(Book) =

  self.book->asSet();

7.2: context USER

 def: operation hasCart(): Boolean =

  self.cart->notEmpty();

7.3: context Cart

 def: operation getTotalPrice(): Real =

  self.book->collect(price)->sum();

7.4: context BOOK

 inv: self.quantity >= 0;