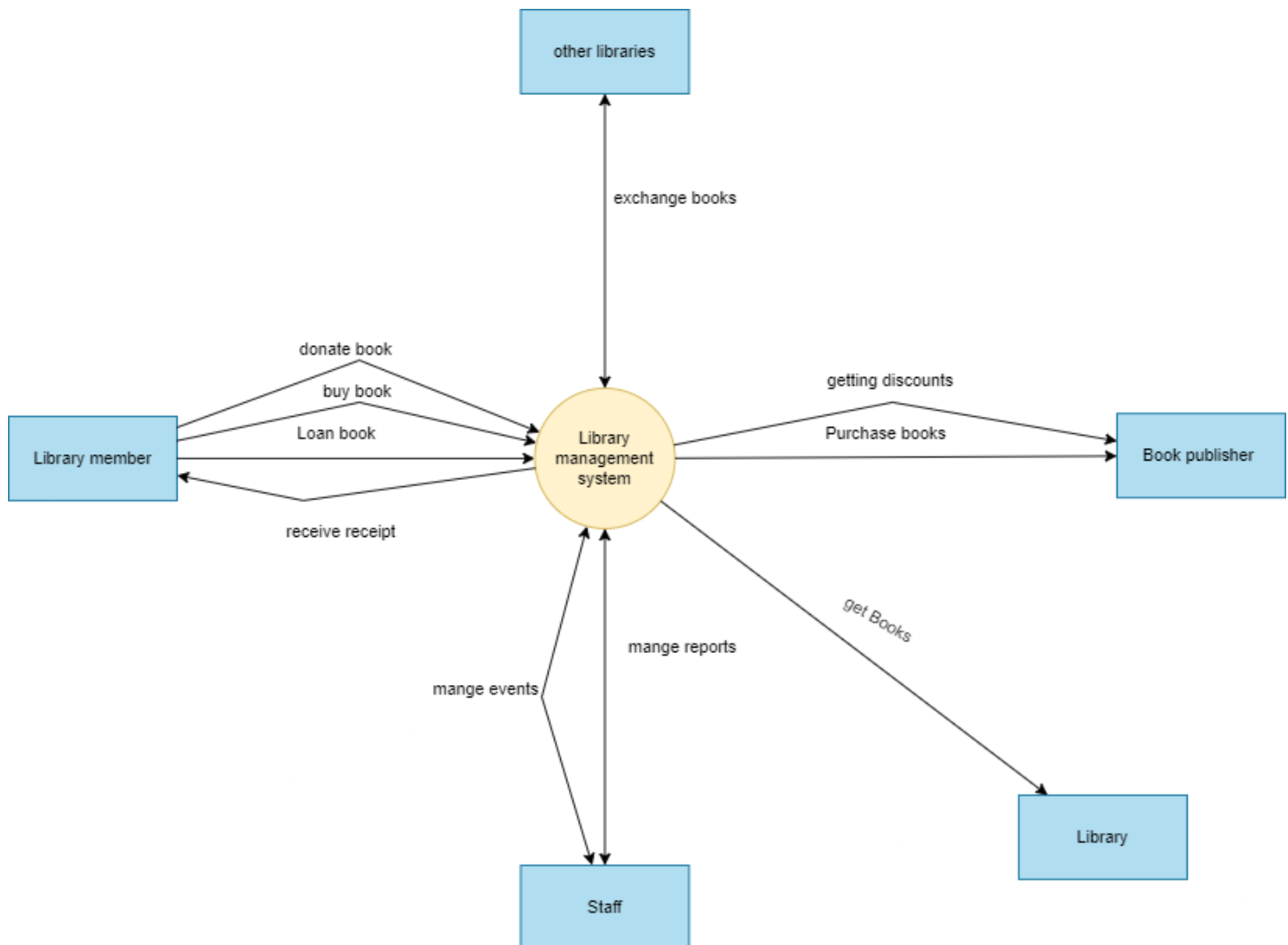


Assignment 2

Ahmed mokhtar mokhtar : 2110781

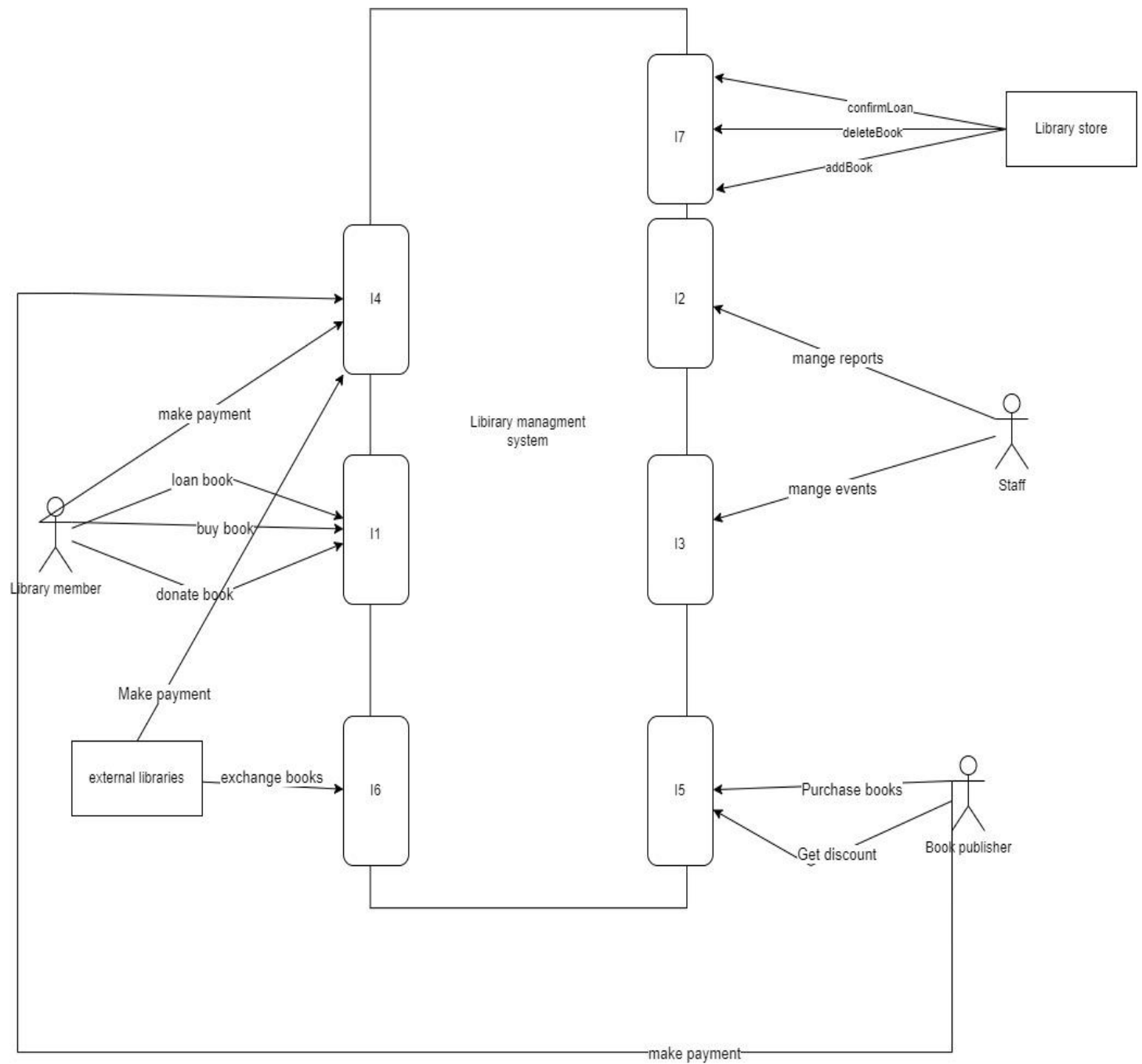
Ahmed mohamed mahdi 21100822

Context diagram :



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ACD :



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Interface definitions :

I1: MemberBookManger

```
public void loanBook(Book book)
```

```
public void buyBook(Book book)
```

```
public void donateBook(Book book)
```

I2: EventManger

```
public void createEvent(String name, Date date , String address , String description);
```

```
public void getEvent();
```

```
public void updateEvent();
```

```
public void deleteEvent();
```

```
public void getEvents();
```

I3 : ReportManger

```
public void createReport(String title , int pages , String [] data)
```

```
public void getReport(String title)
```

```
public void deleteReport(int id)
```

```
public void getReports();
```

I4 : payment

```
public void pay(double pay);
```

I5 : Bookpublishers

```
public double getdiscount()
```

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public void makePayment()

I6 : ExternalLibraryManger

public void exchangeBook(Book book , Book book2 , int fees);

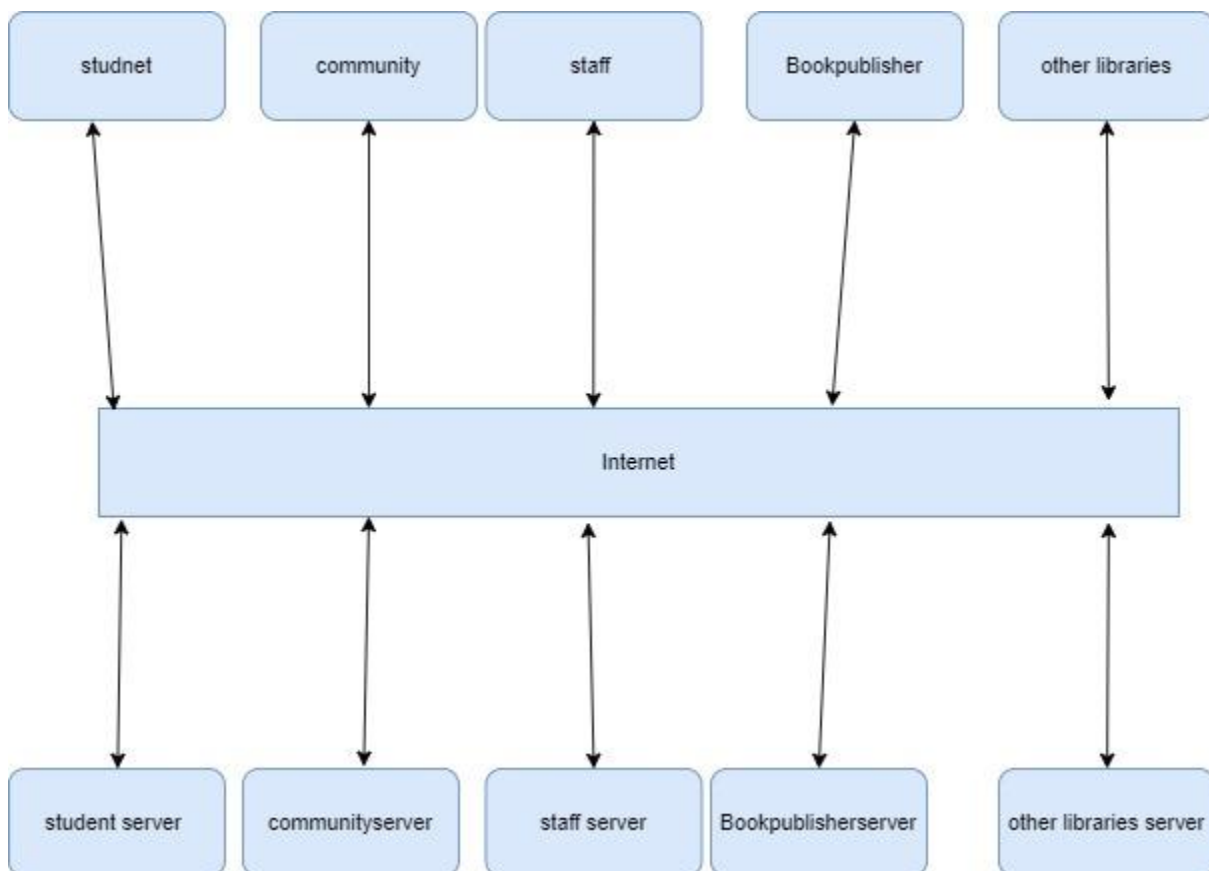
I7 : LibraryStore

public void confirmLoan()

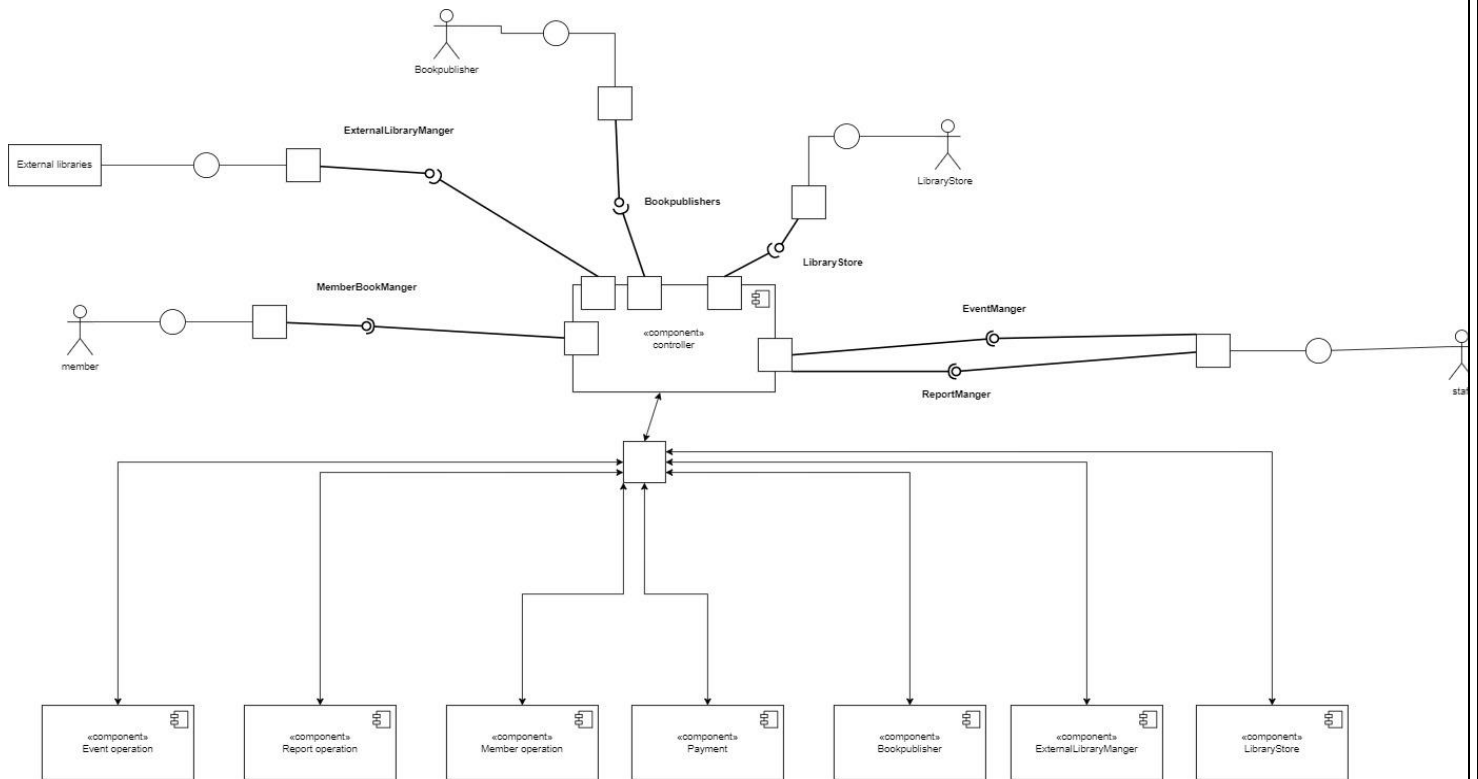
public void confirmBuy()

public void confirmdonate()

Style of Architecture :



Component diagram



If the image is not clear enough, please click on the following link to view it.

<https://ibb.co/pKMh68Y>

Used control style is centralized control style

Class diagram :



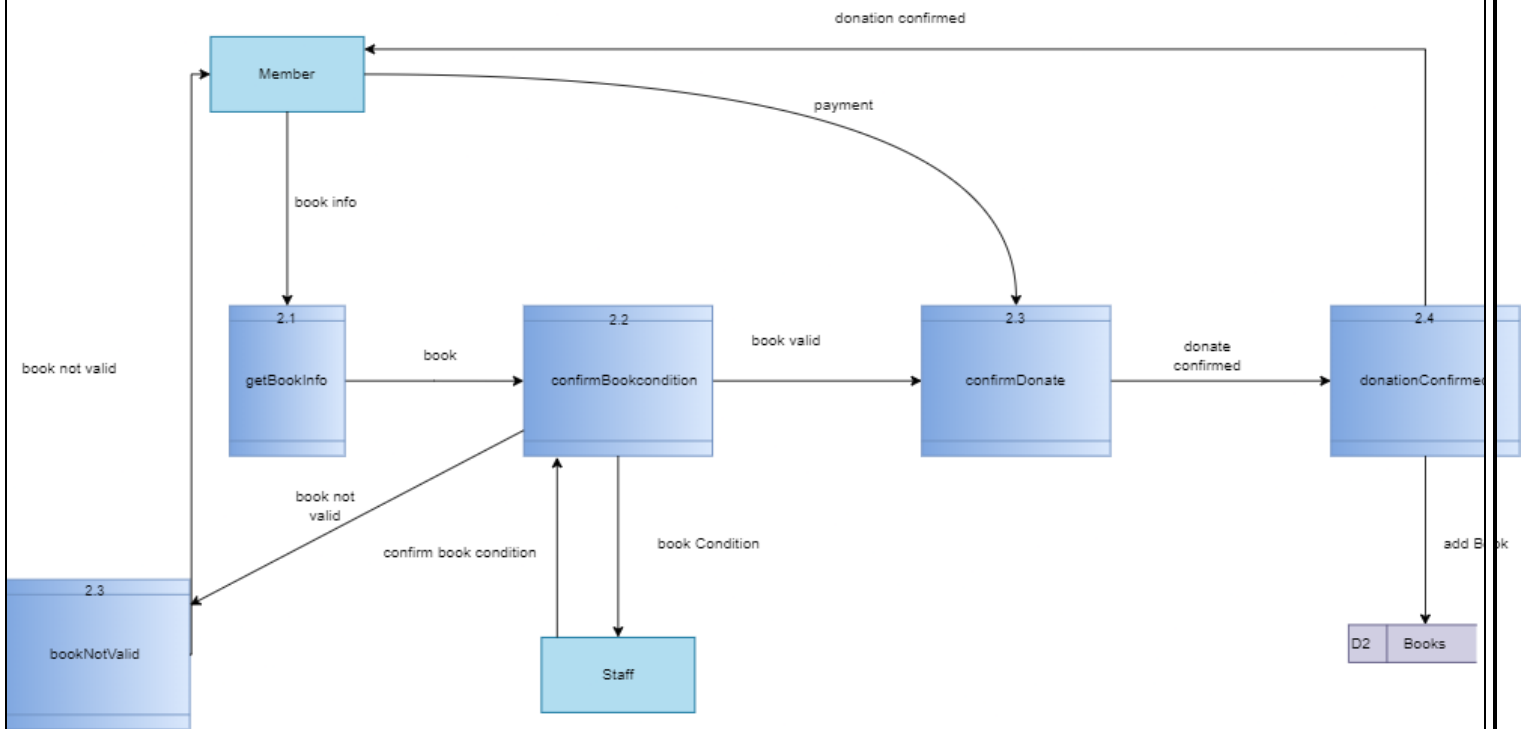
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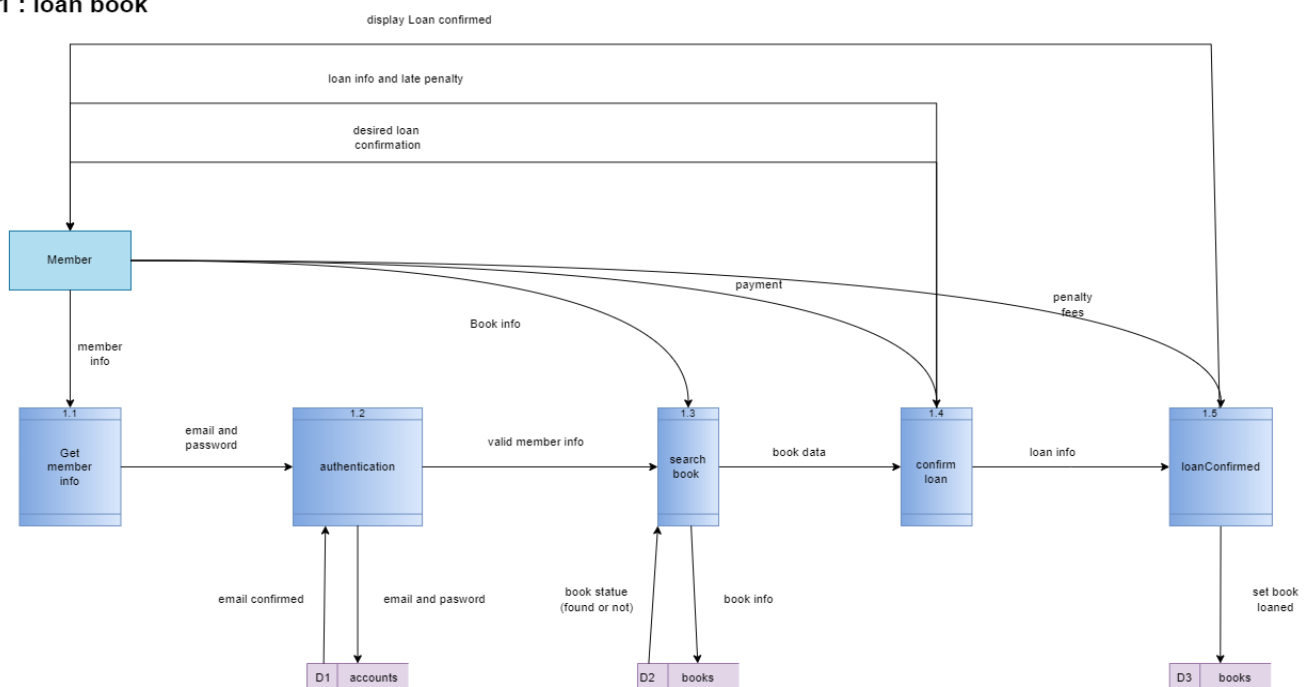
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DFD diagrams :

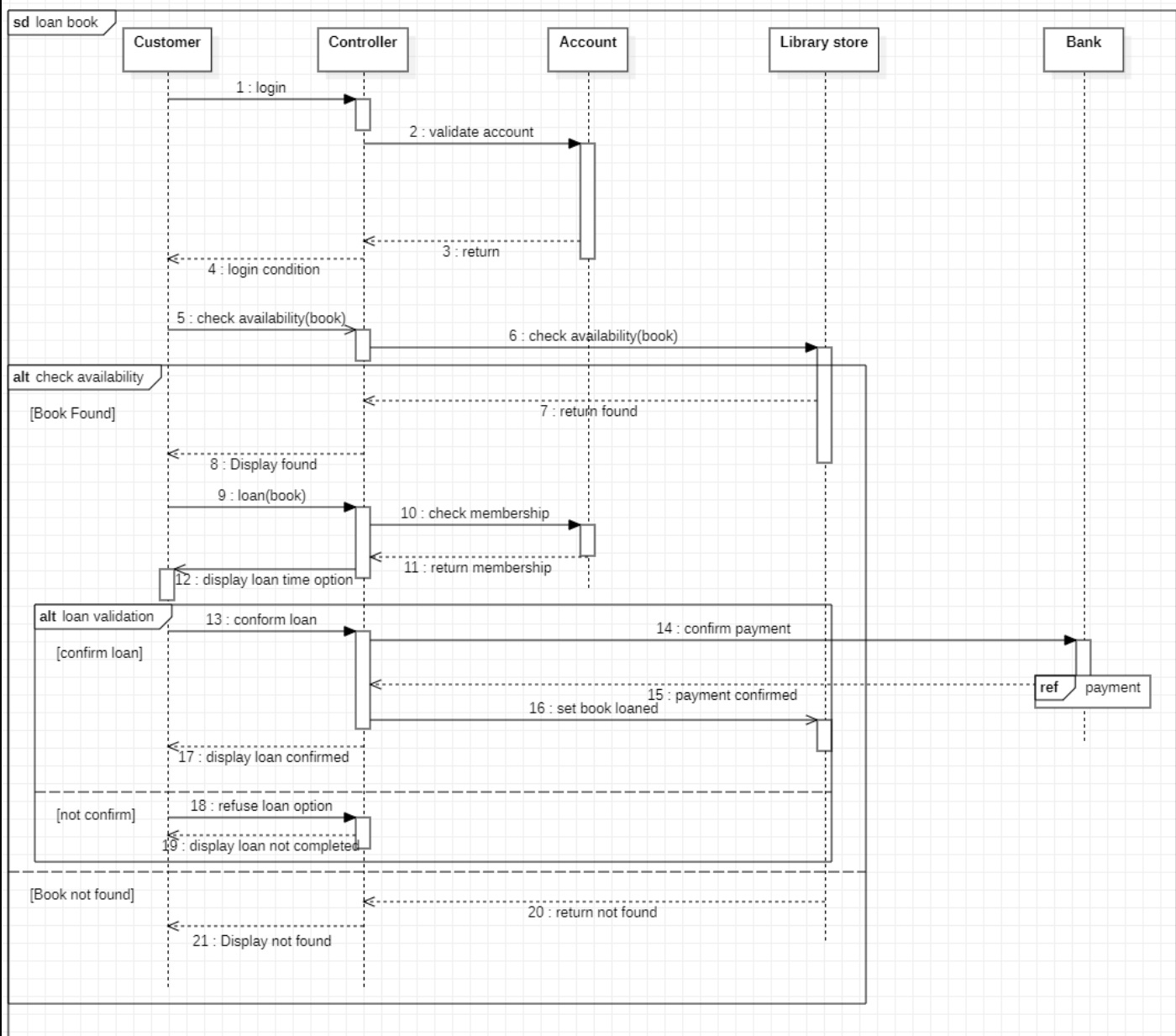
DFD level 1 : Donate book



DFD Level 1 : loan book



Sequence diagrams :



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