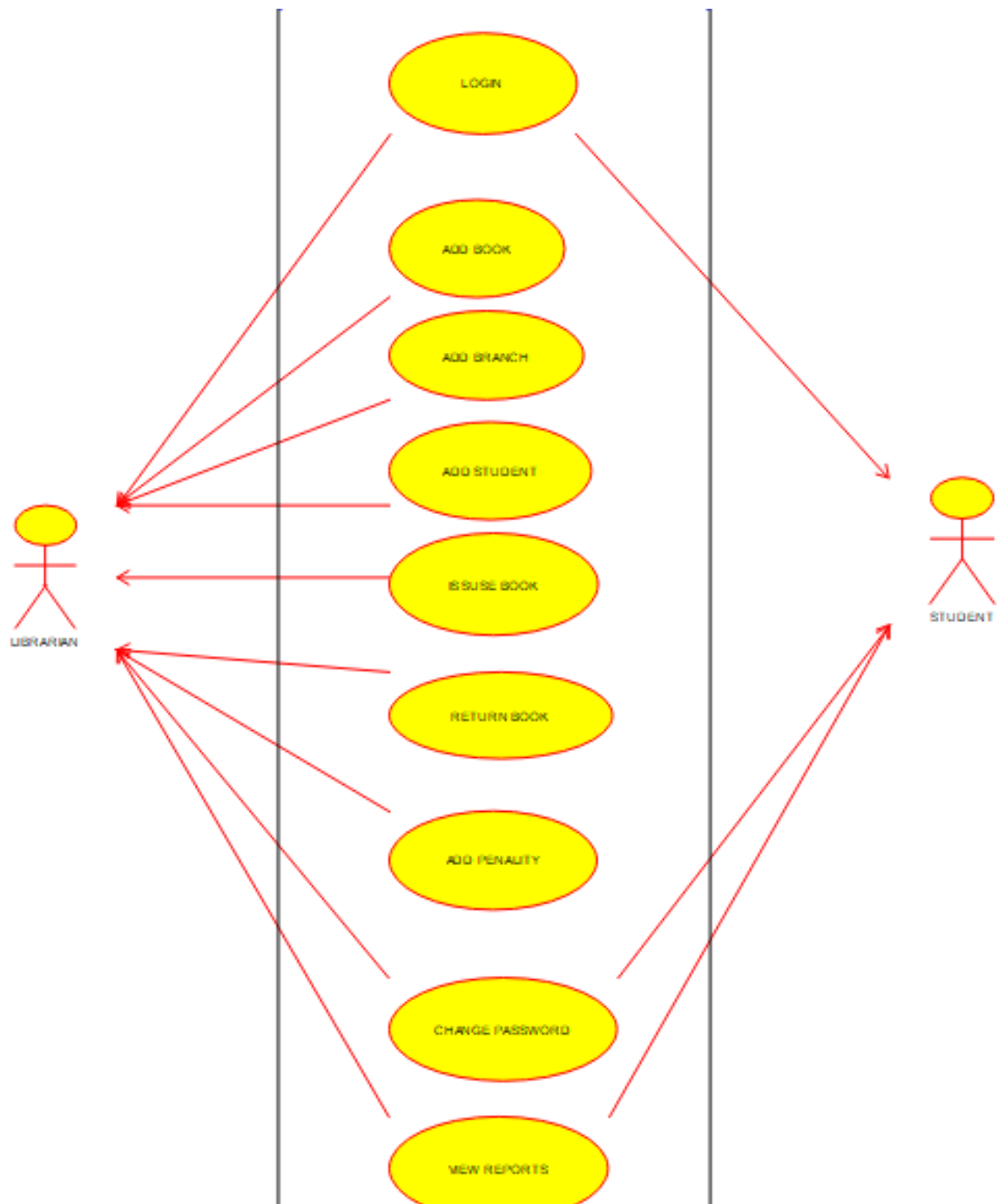# LIBRARY MANAGEMENT SYSTEM UML DIAGRAMS
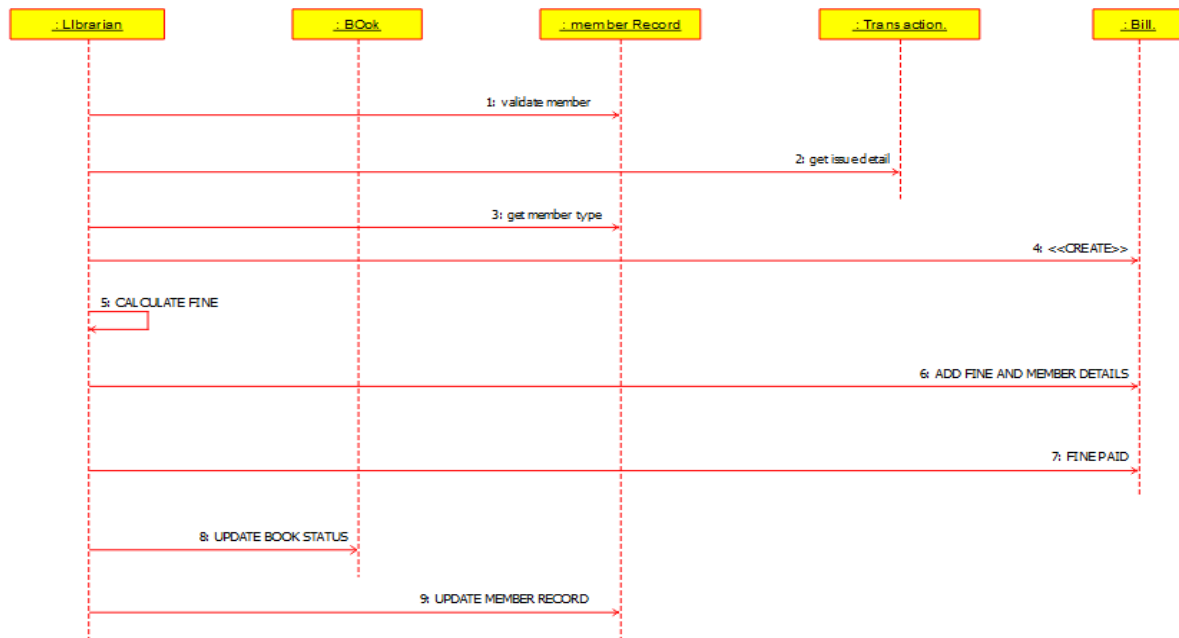
G.VISHNU VARDHAN

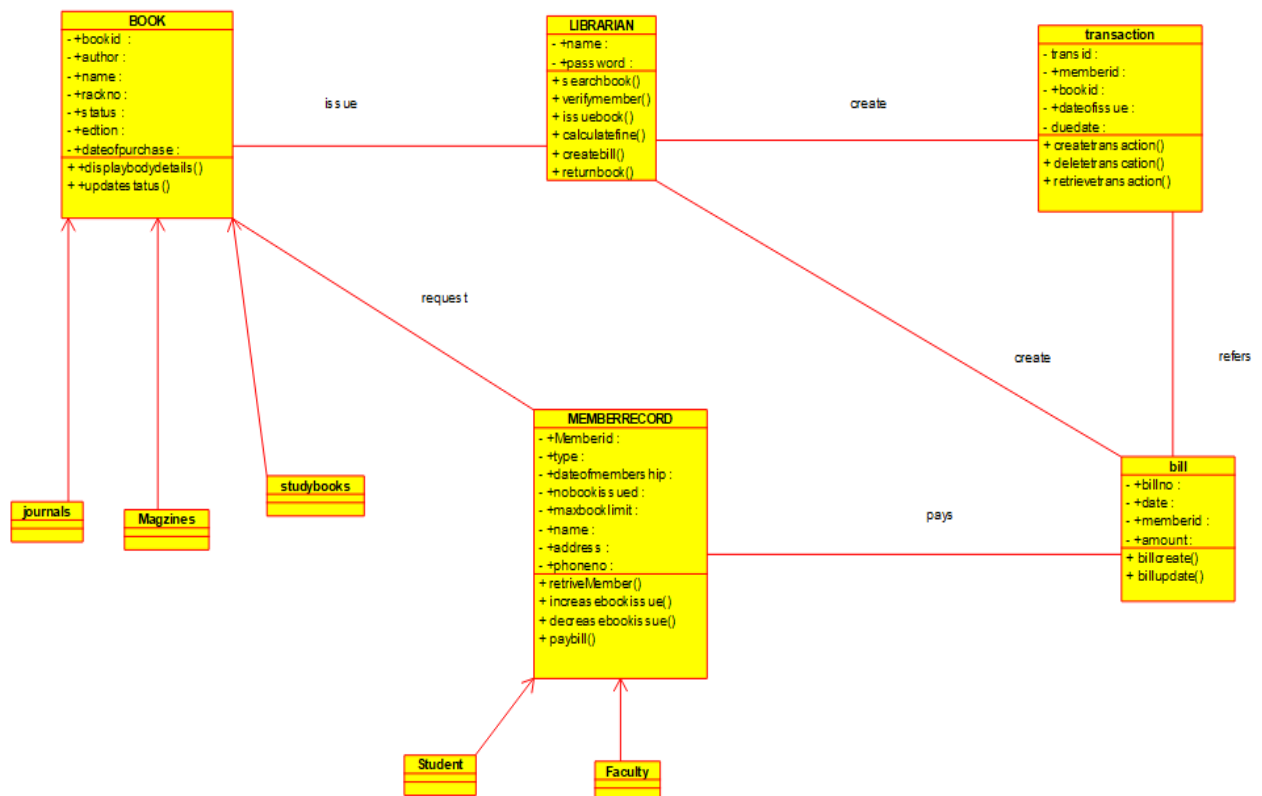**(192011079)**

1.USE CASE DIAGRAM
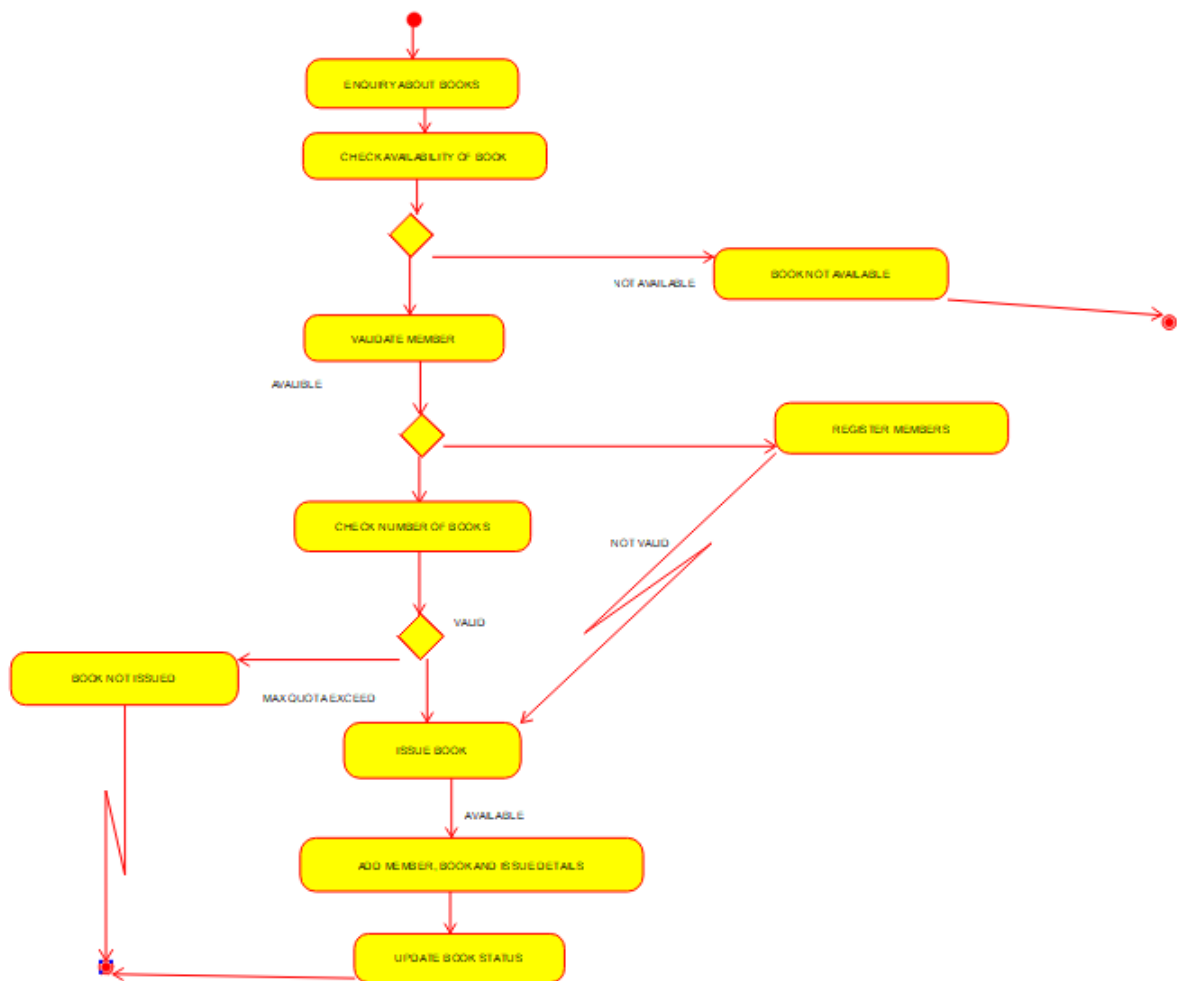
2.SEQUENCE DIAGRAM

: LIbrarian	: BOok	: member Record	: Trans action.	: Bill.

1: validate member

2: get issue detail

3: get member type

4: <<CREATE>>

5: CALCULATE FINE

6: ADD FINE AND MEMBER DETAILS

7: FINE PAID

8: UPDATE BOOK STATUS

9: UPDATE MEMBER RECORD

3.CLASS DIAGRAM

BOOK
- +bookid :
- +author :
- +name :
- +rackno :
- +status :
- +edtion :
- +dateofpurchase :
+ +displaybodydetails()
+ +updates tatus()

issue

LIBRARIAN
- +name :
- +pass word :
+ s earchbook()
+ verifymember()
+ iss uebook()
+ calculatefine()
+ createbill()
+ returnbook()

create

transaction
- trans id :
- +memberid :
- +bookid :
- +dateofiss ue :
- duedate :
+ createtrans action()
+ deletetrans cation()
+ retrievetrans action()

request

MEMBERRECORD
- +Memberid :
- +type :
- +dateofmembers hip :
- +nobookis s ued :
- +maxbook limit :
- +name :
- +address :
- +phoneno :
+ retriveMember()
+ increas ebookis s ue()
+ decreas ebookis sue()
+ paybill()

create

refers

bill
- +billno :
- +date :
- +memberid :
- +amount :
+ billcreate()
+ billupdate()

pays

journals

Magzines

studybooks

Student

Faculty

4.ACTIVITY DIAGRAM

5.STATE DIAGRAM

START

STUDENT/FACULTY LOGIN

SER ID AND PASSWORD

SEARCH BOOK

FOUND BOOK

REQUEST BOOK

REQUEST LIBRARIAN FOR BOOK

RECEIVE BOOK

RETURN BACK BOOK

RETURN BOOK

PAY THE FINE

PROFILE UPDATE AND SIGNOUT

STOP