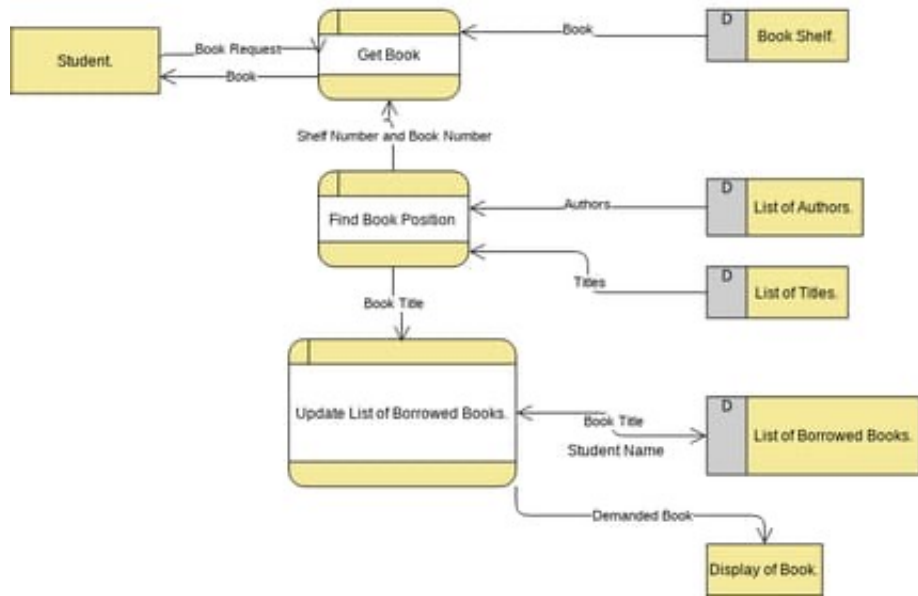# Data Flow Diagram at Level 1 for Library Management System.

E-R Diagram for Library Management System

Title, Book_id, Author, Price, Available — Books

Pub_ID, Address, Name — Publisher

Books — Published by — Publisher

Due date, Return date, Issue — Brrowe by

Expiry_date, Name, Address, Memb_type, Memb_date, Memb_id — Member

Brrowe by — Member

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Book

+bookId
+author
+name
+price
+rackNo
+status
+edition
+dateOfPurchase

+displayBookDetails()
+updateStatus()

Librarian

+name
+password

+searchBook()
+verifyMember()
+issueBook()
+calculateFine()
+createBill()
+returnBook()

Transaction

+transId
+memberId
+bookId
+dateOfIssue
+dueDate

+createTransaction()
+deleteTransaction()
+retrieveTransaction()

issues

creates

Journals

StudyBooks

Magzines

requests

creates

refers

MemberRecord

+memberId
+type
+dateOfMembership
+noBookIssued
+maxBookLimit
+name
+address
+phoneNo

+retriveMember()
+increaseBookIssued()
+decreaseBookIssued()
+payBill()

pays

Bill

+billNo
+date
+memberId
+amount

+billCreate()
+billUpdate()

Student

Faculty