Book Bank Management System

Registration
- Name : char
- Age : int
- Address : string
- College : string
- Year of Study : date
- Contact No : int
- Member Id : int
- Username : string
- Password : passwordstring
+ Register()

Authentication
- Username : string
- Password : passwordstring
+ login()

Book Search
- Title : char
- Author : char
- Publications : string
- ISBN : string
+ Search()

Get Books
- Book ID : int
- Member ID : int
- Duration : time
+ Get()
+ Check Status()

Membership Status
- Status : string
- Last Renewed : date
- Books Holding : string
- Next Renewal : date
+ Return Status()

Admin

Does Updation

Student

Applies for registration
and submission

Book Bank Information

Provides Book
Information

Does Updation
and grants
membership

Admin

Provides book
information,
payment record and
book delivery

Student

Book Bank Employee

Applies for registration
and submission

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▼
┌─────────────────┐        Valid        ┌─────────────────┐                   ┌────────────────────────┐
│  Enter Details  │────────────────────▶│  Get Member ID  │──────────────────▶│ Successfull Registration│
└─────────────────┘                     └─────────────────┘                   └────────────────────────┘
        │
        │ If not valid
        ▼
┌─────────────────┐
│ Re-Enter Details│
└─────────────────┘
```

Registration

Database

Extend

Extend

Search books

Student

Get books

Administrator

Include

Include

Include

Book Title

Book ID

Genre

Membership status