

# Library Management

You have to design a library management system. The system should have follow resources -

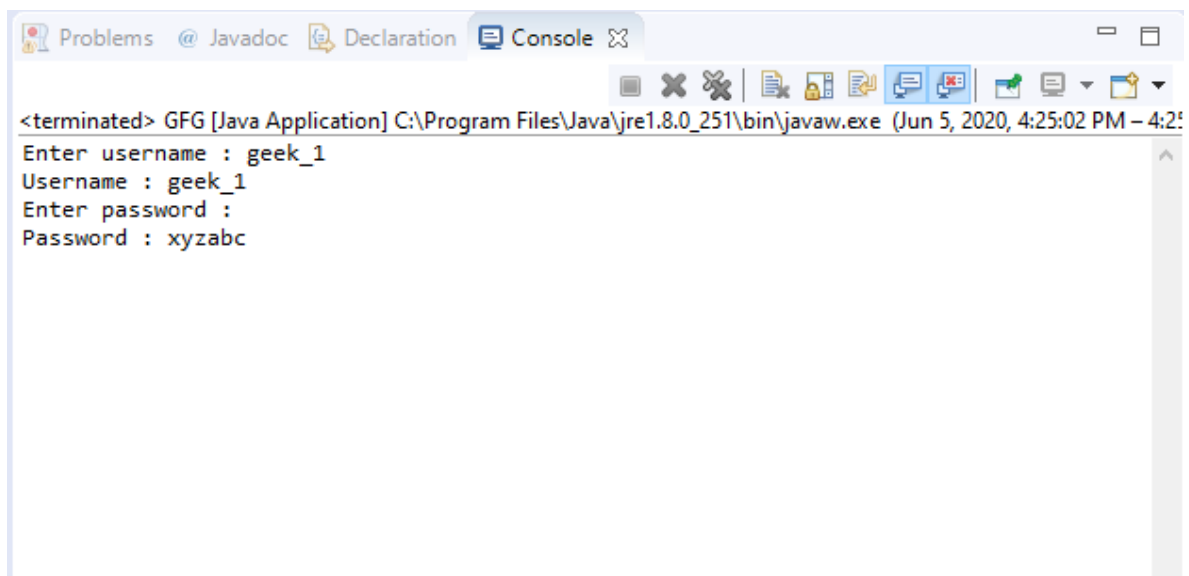
1. Admins (User name / password )
2. Members (Member unique id / User name / password / Age / Gender / joining date )
3. Books (Book Unique Id , Title, , Description , Author details , Publication date, edition , price , count)

You can use any language to design the system

1. Server code (Java/ C / C++, etc) - Object design / Store the data
2. Client code (JS , etc) - To show the data / allow users action

In case you know only 1 language , you can choose the one language to solve the following questions .

If you are using Server code alone, you can use command line argument to take the inputs.

A screenshot of a Java console window. The title bar shows 'Problems', '@ Javadoc', 'Declaration', and 'Console'. The console text reads: '<terminated> GFG [Java Application] C:\Program Files\Java\jre1.8.0\_251\bin\javaw.exe (Jun 5, 2020, 4:25:02 PM - 4:25:02 PM)'. Below this, the program prompts for a username and password. The user has entered 'geek\_1' for the username and 'xyzabc' for the password.

```
<terminated> GFG [Java Application] C:\Program Files\Java\jre1.8.0_251\bin\javaw.exe (Jun 5, 2020, 4:25:02 PM - 4:25:02 PM)
Enter username : geek_1
Username : geek_1
Enter password :
Password : xyzabc
```

### **Questions 1:**

As an admin of the library management system, you should be able to login with credentials (user name : admin , password : admin). Once you logged in into the system following options should be supported

1. Add a new book
2. Remove an existing book
3. View list of books
4. Add a new user
5. Remove an existing user
6. View list of users

Admin can choose any one of the options and perform the action.

Note : Unique Id for book and Members has to be generated by system.

### **Question 2 :**

The system should show 2 options at first

- Login as admin
- Login as member.

As a member of library management, I should be able to login into the system .

Once logged in, I should be able to

1. Search for a book
2. Issue a book by providing the book unique Id
3. Return a book

### **Question 3 :**

Before member tries to issue the book add follow validations and show proper error message to the library members

1. The book is NOT available in the library
2. User can issue max 5 book at a time
3. User has not currently issued any book longer than 1 month