

## **Stakeholders and Scenario-Based Elements**

**Team Name: The Libarbarians**

### **Stakeholders:**

#### Consumers

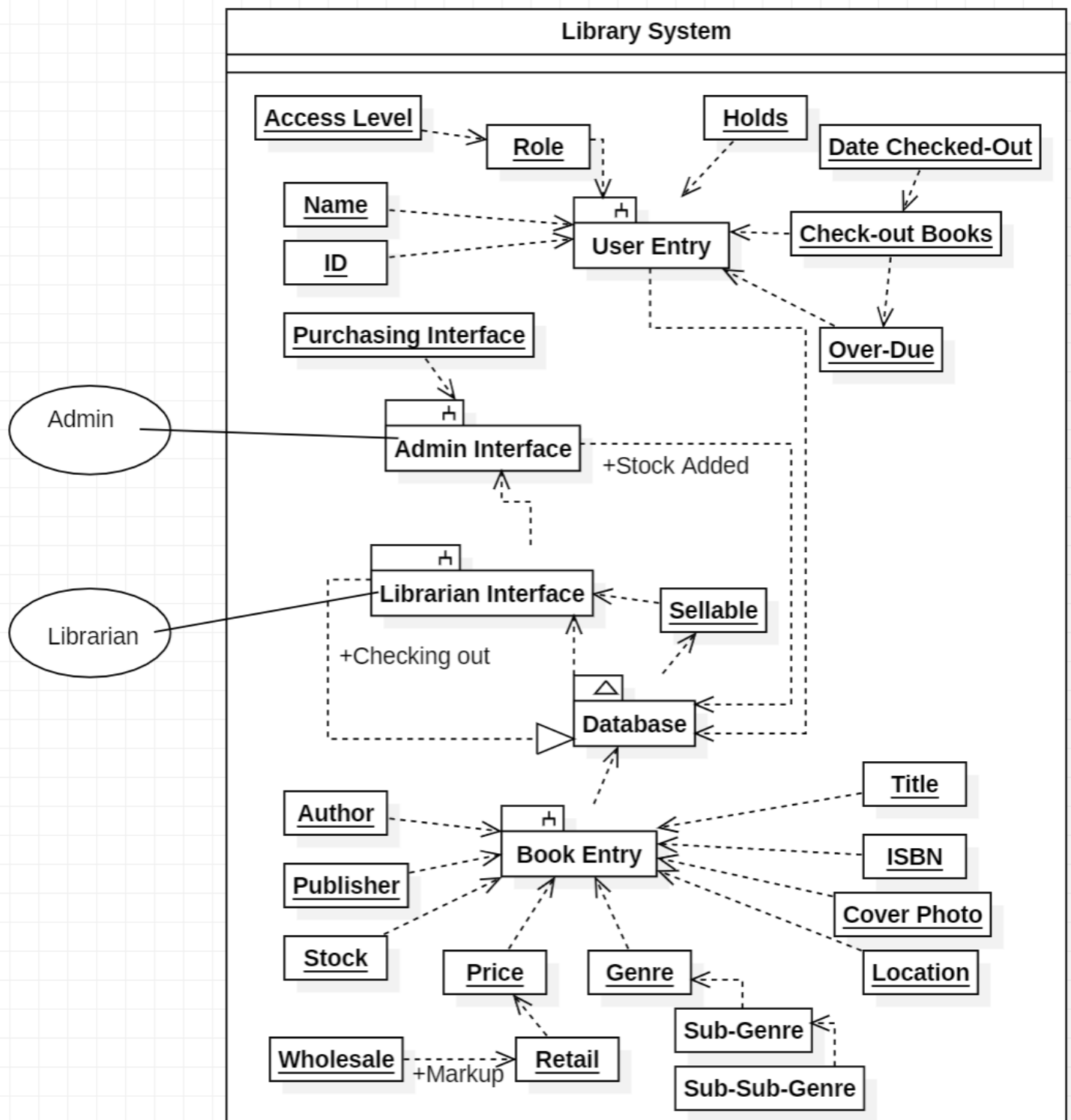
- General public
- Public library employees

#### Developers

- Catch-all phrase for the programmers

#### Managers

- Public library managers and state employees
- Catalog or inventory managers in libraries

**Case Diagram:**

**Actions:****Login**

Actors:	<ul style="list-style-type: none"><li>- Library Manager</li><li>- Library Employee</li><li>- General User</li></ul>
Goal:	<ul style="list-style-type: none"><li>- To tell the system what actions the user is allowed to take</li><li>- To link book checkouts to a user</li></ul>
Preconditions:	<ul style="list-style-type: none"><li>- User account exists within the system</li></ul>
Scenarios:	<ul style="list-style-type: none"><li>- User is attempting to access the database</li></ul>
Exceptions:	

**Logout**

Actors:	<ul style="list-style-type: none"><li>- Library Manager</li><li>- Library Employee</li><li>- General User</li></ul>
Goal:	<ul style="list-style-type: none"><li>- To lock the system from use</li><li>- To free the system for the next user without revealing account information</li></ul>
Preconditions:	<ul style="list-style-type: none"><li>- A user is already logged in</li></ul>
Scenarios:	<ul style="list-style-type: none"><li>- A user is finished using the system for now</li></ul>
Exceptions:	

**Create New User**

Actors:	<ul style="list-style-type: none"><li>- Library Manager</li><li>- Library Employee</li><li>- Any User</li></ul>
Goal:	<ul style="list-style-type: none"><li>- To add a user to the database and fill in their information fields</li></ul>
Preconditions:	<ul style="list-style-type: none"><li>- User does not already have a profile</li></ul>
Scenarios:	<ul style="list-style-type: none"><li>- A manager or employee is creating a new user profile for a person</li><li>- A person is creating their own user profile</li></ul>

Exceptions:	
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**Modify User**

Actors:	- Library Manager
Goal:	- To change the permissions of a user or delete a user
Preconditions:	- Account to be edited exists - A manager is logged into the system
Scenarios:	- A user is becoming an employee or manager - A user is being deleted - A users information is being changed - A users checked out log is being changed
Exceptions:	- Only a manager may do this

**Lookup User**

Actors:	- Library Manager - Library Employee
Goal:	- To look up a user's account and see which books they have checked out - To see other information about the user's account
Preconditions:	- A manager or employee is logged into the system
Scenarios:	- An employee or manager is looking up a users profile to see what they have checked out and the status of their borrow
Exceptions:	

**Delete Item**

Actors:	- Library Manager
Goal:	- To remove an item from the database permanently
Preconditions:	- The item exists within the database
Scenarios:	- An entire item is being removed from the database because the library will no longer carry that title

Exceptions:	
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**Add New Item**

Actors:	- Library Manager
Goal:	- To add an item to the database
Preconditions:	- The library has no other copies of this title already
Scenarios:	- An entirely new item is being added to the database
Exceptions:	

**Edit Item**

Actors:	- Library Manager
Goal:	- To change one of or several of the fields of an item
Preconditions:	- The item exists within the database
Scenarios:	<ul style="list-style-type: none"><li>- To increase the stock of an item<ul style="list-style-type: none"><li>- Example: Library is adding another copy of a book they already have to collection</li></ul></li><li>- To decrease the stock of an item<ul style="list-style-type: none"><li>- Example: an item was stolen or damaged</li></ul></li><li>- An item's fields need to be changed for various reasons<ul style="list-style-type: none"><li>- Some fields will not be changeable such as published date, title, etc.</li><li>- Some fields such as location in library and condition of book will be able to be changed</li></ul></li></ul>
Exceptions:	

**Lookup Item**

Actors:	<ul style="list-style-type: none"><li>- Library Manager</li><li>- Library Employee</li><li>- General User</li></ul>
Goal:	<ul style="list-style-type: none"><li>- To find if an item is in stock</li><li>- To find where an item is located</li></ul>
Preconditions:	- The item is in the database

Scenarios:	<ul style="list-style-type: none"><li>- Any user is looking to find the status and location of a title by its field information</li><li>- Any user is looking to find the general information of a title<ul style="list-style-type: none"><li>- ISBN</li><li>- Published date</li><li>- Page count</li><li>- etc.</li></ul></li></ul>
Exceptions:	<ul style="list-style-type: none"><li>- All information will be displayed regardless of user</li></ul>

**Scan Item**

Actors:	<ul style="list-style-type: none"><li>- Library Manager</li><li>- Library Employee</li><li>- General User</li></ul>
Goal:	<ul style="list-style-type: none"><li>- To find if an item is in stock</li><li>- To find where an item is located</li></ul>
Preconditions:	<ul style="list-style-type: none"><li>- The ISBN is known</li></ul>
Scenarios:	<ul style="list-style-type: none"><li>- Any user is looking up the location and information of an item and has the exact ISBN code or has the physical book to scan the ISBN into the system</li></ul>
Exceptions:	<ul style="list-style-type: none"><li>- If the ISBN is not in the system, the problem will tell the user</li></ul>

**Author Lookup**

Actors:	<ul style="list-style-type: none"><li>- Library Manager</li><li>- Library Employee</li><li>- General User</li></ul>
Goal:	<ul style="list-style-type: none"><li>- To display all of the items by a certain author that the library carries</li></ul>
Preconditions:	
Scenarios:	<ul style="list-style-type: none"><li>- Any user is looking to find books written by a certain author</li></ul>
Exceptions:	<ul style="list-style-type: none"><li>- If the author has no books in the system or is not found, the program will tell the user</li></ul>

**Publisher Lookup**

Actors:	<ul style="list-style-type: none"><li>- Library Manager</li><li>- Library Employee</li></ul>
Goal:	<ul style="list-style-type: none"><li>- To find a publisher and display the books they carry</li><li>- To find a publisher's contact information</li></ul>
Preconditions:	
Scenarios:	<ul style="list-style-type: none"><li>- A library employee is looking to find contact information for the publisher of a book</li><li>- A library employee is looking to find all books published by a certain publisher</li></ul>
Exceptions:	<ul style="list-style-type: none"><li>- If the publisher has no books in the system or is not found, the program will tell the user</li></ul>

**Check-Out Book**

Actors:	<ul style="list-style-type: none"><li>- Library Manager</li><li>- Library Employee</li><li>- General User</li></ul>
Goal:	<ul style="list-style-type: none"><li>- Temporarily remove 1 stock count from an item</li><li>- To update a users profile with their checked out item</li></ul>
Preconditions:	<ul style="list-style-type: none"><li>- The item exists within the system</li><li>- The stock quantity of the book is current <math>\geq 1</math></li><li>- The user attempting to check out the item has less than 5 items checked out</li><li>- The user attempting to check out the item has no overdue items</li></ul>
Scenarios:	<ul style="list-style-type: none"><li>- Any user is checking out a title</li></ul>
Exceptions:	<ul style="list-style-type: none"><li>- General users have a 5 item limit and a 2 week time limit</li><li>- Employees and managers have no limits</li></ul>

**Check-In Book**

Actors:	<ul style="list-style-type: none"><li>- Library Manager</li><li>- Library Employee</li><li>- General User</li></ul>
Goal:	<ul style="list-style-type: none"><li>- To back a stock count to an item</li></ul>

	<ul style="list-style-type: none"><li>- To remove the checked out item from a users profile</li><li>- To add the checked out item to a users history</li></ul>
Preconditions:	<ul style="list-style-type: none"><li>- The item exists within the database</li></ul>
Scenarios:	<ul style="list-style-type: none"><li>- Any user is returning an item and the database is updating to reflect this</li></ul>
Exceptions:	<ul style="list-style-type: none"><li>- If the item that is attempting to be returned already has a FULL stock count, the item cannot be checked back in because it does not belong to the library</li></ul>

**Others?**

Actors:	
Goal:	
Preconditions:	
Scenarios:	
Exceptions:	