

1. Describe the stakeholders of your project.

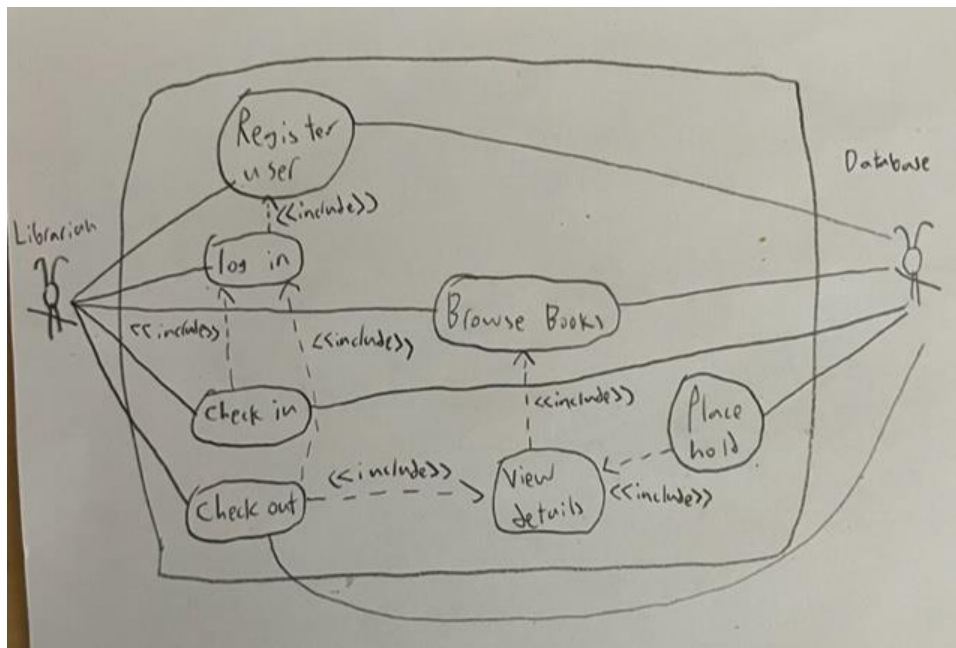
The Librarians

These are the only users of this software. They have the most stake because they are depending on this website to be able to manage all their records in the library efficiently.

Developers

Catch-all phrase for the programmers.

2. Draw the use case diagram, indicating relationships between use cases, and relationships between actors (if you have multiple actors).



3. Formally describe each use case following the use-case template.

List of use cases:

Name	Register
Actor	User
Precondition	User has opened website.
Goal	Let user create an account
Scenario	1. User sets username 2. User sets password 3. User hits create account.
Exceptions	Username and Password do not fit requirements. Server cannot be contacted. (Webpage open but internet is down)

Name	Login
Actor	User
Precondition	User has created account.

Goal	Let user log in to account.
Scenario	<ol style="list-style-type: none"> 1. User Enter username 2. User Enter password 3. User hits enter.
Exceptions	Username and Password are incorrect Server cannot be contacted. (Webpage open but internet is down)

Name	Check In
Actor	User Database
Precondition	User has registered on website.
Goal	Let user return a book
Scenario	<ol style="list-style-type: none"> 1. User logs in 2. User scans or enters the barcode of the book to return it 3. Database marks books as returned
Exceptions	Scan failed. Barcode entered incorrectly.

Name	Check out
Actor	User Database
Precondition	User has viewed details for a book
Goal	Allow the user to successfully check a book out under their name for a certain period of time.
Scenario	<ol style="list-style-type: none"> 1. User has logged in and is browsing the books 2. User finds an interesting book and clicks on it. 3. Details are displayed and on the right side of the screen is a checkout button 4. User checks out and inputs information 5. User has checked out a book 6. Database marks book(s) as checked out
Exceptions	<ol style="list-style-type: none"> 1. Network error while checking out 2. All copies of this book are checked out already 3. User has a hold on account and cannot check out a new book

Name	Browse books
Actor	User Database

Precondition	User has logged into the website.
Goal	Let the user search for books using title, author, ISBN, topic, Dewey decimal system, etc., and have the database return appropriate queries.
Scenario	<ol style="list-style-type: none"> 1. User searches for the author. 2. User searches for the book title. 3. User searches for a book's ISBN number. 4. User searches for books with keywords that relate to some topic. 5. User searches for book ID/Dewey decimal number. 6. Database returns corresponding entries
Exceptions	No books found with that name/author/ISBN/etc.

Name	View Details
Actor	User Database
Precondition	User has logged into the website. User has selected a book
Goal	Let the user see the details of the selected book
Scenario	<ol style="list-style-type: none"> 1. User browses the books available. 2. User selects a book they would like to know more about. 3. User can view the details of the selected book.
Exceptions	Network connection is interrupted and the details are not able to be displayed

Name	Placing a Hold
Actor	User Database
Precondition	The book exists in the library database
Goal	Let the user place a hold on the book until they pick it up from the library
Scenario	<ol style="list-style-type: none"> 1. User searches for a book 2. User selects the book 3. User clicks hold button 4. Book is marked as under hold by the user
exceptions	The book is already checked out