
Book Cataloguing and Borrowing System

Use Case Diagram

Submitted to:

Prof. Ma. Rowena C. Solamo
Faculty Member
Department of Computer Science
College of Engineering
University of the Philippines, Diliman

Submitted by:
Dela Cruz, Francis Zac
Jurquina, Anjelo
Pangarungan, Nicko

In partial fulfillment of Academic Requirements
for the course
CS 191 Software Engineering I
of the
1st Semester, AY <2017-2018>

Unique Reference:

The documents are stored in the <https://github.com/cs191-wfu-1718-g3/CS191-project>.

<https://github.com/CS191-project/blob/master/02-Requirements%20Engineering/Book%20Cataloguing%20and%20Borrowing%20System%20-%20Use%20Case%20Model.pdf>

Document Purpose:

This document details the different use-case scenarios for the different entities involved in the system.

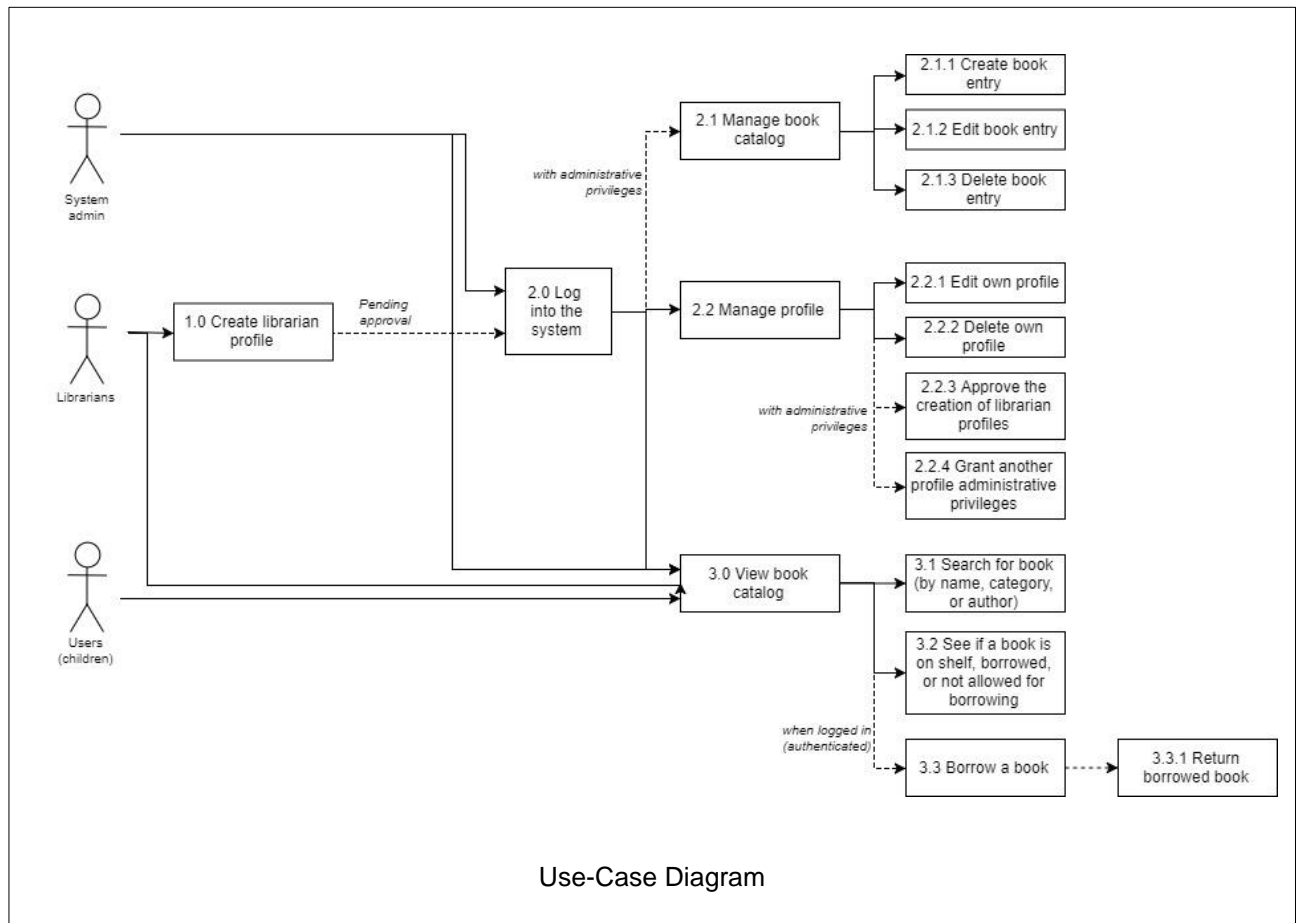
Target Audience:

Project developers, clients, system users.

Revision Control

History Revision:

<i>Revision Date</i>	<i>Person Responsible</i>	<i>Version Number</i>	<i>Modification</i>
09/25/2017	Nicko Pangarungan	1.0	Initial Document



System Name: Library System

Description: The virtual library system allows children to view a catalog of books which are available for reading and/or borrowing. The system is managed by librarians which facilitate the lending of books. A system administrator governs the overall system.

List of Actors:

Actors	Description
Users (Children)	The intended audience of the library as users are the children. They are able to view the book catalog of the library using the system. They can also forward a request to a librarian to borrow a book.
Librarian	The librarians are the facilitators of the system. They are in charge of maintaining the books in the library. They handle borrow requests from the children and update the database accordingly using the borrow/return functions.
System Admin	A system administrator is a librarian with elevated access to the system. They are granted permission to modify the database by adding new books, editing current entries, or deleting books no longer available. They are also in charge of profile verification.

List of Use-cases:

Use-Case	Description
Use-Case 1.0 Create librarian profile	Allows librarians to create profiles. Profiles are used to log into the system (authenticate oneself as a librarian). Aside from authentication, this is used to identify the librarian who made a particular action.
Use-Case 2.0 Log into the system	This is the authentication process for librarians. This is done through a username and password input.
Use-Case 2.1 Manage book catalog	Managing the book catalog is a function of the system administrator(s). The admin is in charge of building, editing, and maintaining the database to reflect the actual books in the library.
Use-Case 2.1.1 Create book entry	A sub-function under the book catalog management. This allows the admin to create an entry of a book in the database.
Use-Case 2.1.2 Edit book entry	A sub-function under the book catalog management. This allows the admin to edit an existing entry of a book in the database.
Use-Case 2.1.3 Delete book entry	A sub-function under the book catalog management. This allows the admin to delete an existing entry of a book in the database.
Use-Case 2.2. Manage profile	Managing the profiles is a function of librarians (with system admins having more sub-functions). Librarians can edit or delete their profiles.
Use-Case 2.2.1 Edit own profile	A sub-function under profile management. This allows the librarians to edit their own profiles.
Use-Case 2.2.2 Delete own profile	A sub-function under profile management. This allows the librarians to delete their own profiles.

<i>Use-Case</i>	<i>Description</i>
Use-Case 2.2.3 Approve the creation of librarian profiles	A sub-function under profile management. This is exclusive to system admins. Upon the creation of a librarian profile, an admin is notified and he/she is in charge of verifying that the one who made the profile is indeed a librarian. Once verified, the admin gives his approval of the creation of the librarian profile.
Use-Case 2.2.4 Grant another profile administrative privileges	A sub-function under profile management. This is exclusive to system admins. He/she can elevate the status of a librarian profile into a system admin therefore granting the librarian more access to functions within the system.
Use-Case 3.0 View book catalog	Viewing the book catalog is a function available to the public (authenticated people or not). This includes the main target users of the library which are the children. With this module, a person can view the list of books in the library as reflected in the database.
Use-Case 3.1 Search for book (by name, category, or author)	A sub-function of the view book catalog. This allows a person to search for a book in the library using keywords related to the book's title, category, or author.
Use-Case 3.2 See if book is on shelf, borrowed, or not allowed for borrowing	A sub-function of the view book catalog. This allows a person to see the status of a particular book. A book is on shelf if it is in the library at that time and is permitted to be loaned, borrowed if the book is on loan at that time, and not allowed for borrowing if the book is not allowed to be loaned.
Use-Case 3.3 Borrow a book	A sub-function of the view book catalog. This is exclusive to librarians. Once a borrow request is made by a child, the librarian proceeds to borrow the book from the library following required protocols. This updates the database entry of the book into borrowed.
Use-Case 3.3.1 Return a borrowed book	A sub-function of the view book catalog. This is exclusive to librarians. When a book is returned to a librarian, this module is used to update the database entry of the book back into on shelf.