

Introduction

A large collection of books in a house requires an effective library management system.

You have been asked to develop a library management system for individuals who have a significant number of books that they would like to manage. The system must keep track of the following information for each book:

- Title
- Author
- Genre
- ISBN
- List Price
- Bookcase
- Shelf
- Heap (used for all books that are not currently assigned to a shelf. There is only one heap).

The website must allow users to create their own accounts and specify bookcases with names such as 'bedside bookcase' or 'hallway bookcase'. The website must also show the number of shelves present in each bookcase, and the number of books that can be stored on each shelf. A user should be able to add books by entering all the appropriate information. There is no need to worry about physical dimensions or form factors of books

– we assume that this is something handled by the user directly.

When selecting a specific bookcase and a shelf, the library management system should provide validation making sure that the bookcase chosen is available for use, and the shelf chosen contains room for the book.

Users should be able to add and remove bookcases at any time. When removing a bookcase, all books that were previously marked as being found in that bookcase should now be set to being 'in a heap'. When the user logs in to their application, they should see their books displayed underneath headings for each bookcase. All books not allocated to a bookcase should be listed underneath as being 'in the heap'.

All books should come with a combo box (also known as a drop-down box) beside them that allows the user to allocate them to a bookcase and a shelf.

Your library management system should:

Task 1

Include a setup page which creates the correct tables needed for the functionality outlined.

Task 2

Include a registration system, using an HTML page and a PHP backend.

Task 3

Include a login process, with an HTML login page that handles changing the displayed books and shelves based on the user.

Task 4

Allow users to create new bookcases with a name and the number of shelves they possess.

Task 5

Allow users to list the contents of bookcases and the 'heap'.

Task 6

Allow users to add books to a collection.

Task 7

Allow users to allocate books to a bookcase and shelf.

Task 8

Allow users to delete bookcases.

Task 9

Correct use of cookies and/or sessions as appropriate.