

## Website Project

# Online Library Management System (OLMS)



## Project Summary

Our project is an online library management system that simplifies the process of managing books in a library. The system allows administrators to add new books to the library and view the available books. Additionally, administrators can delete books from the library if needed. The system makes use of a pre-existing books.csv dataset from Kaggle or manual addition of books by administrators.

## Project Description

**Objectives:** Our aim is to create a website that will help faculty members at IU to manage existing books efficiently. The problem that we are aiming to solve is the difficulty that faculty members face in managing library books. This can be due to various reasons such as having a large number of books to manage, difficulty in keeping track of book availability, and time-consuming processes to add or remove books in their websites. Thus, our website will provide an intuitive platform for faculty members to manage their books and issue new books to students. Members can easily add new books to their library, view available books, and remove books that are no longer required. The website will also provide additional features such as search functionality and deleted books.

**Usefulness:** This project is to provide a centralized platform for managing different aspects of a library's operations. While there are several similar web sites and applications available, each with their own strengths and weaknesses, our online library management system application is designed to be user-friendly, customizable, and scalable. Our website will offer a variety of features such as indexing, easy-to-use interfaces, advanced search capabilities, real-time reporting and analytics, inventory management like additions, updates and deletions.

The target audience of our website is faculty and students. It is designed to streamline library management processes and improve user experience. By offering a user-friendly interface and automated features, we aim to simplify the day-to-day tasks of faculty and students, freeing up their time to focus on other important aspects of their work.

**Dataset:** The book.csv dataset from Kaggle consists of 45641 records (rows) and 12 attributes (columns) with different data types. The data set is shown as below

Attributes (Columns)	Description
bookID*	A distinct id number for each book ( <b>Primary Key</b> )
title	The name under which the book was published.
authors	Names of the authors of the book. Multiple authors are delimited with
average_rating	The average rating of the book received in total
isbn	The International Standard Book Number. Another distinct num to identify the book
isbn13	A 13-digit ISBN, instead of the standard 11-digit ISBN, to identify the book
language_code	Primary language of the book. For example, spa for Spanish and eng for English.
num_pages	Total number of pages in book
ratings_count	Total number of ratings the book received.
text_reviews_count	Total number of written text reviews the book received.
publication_date	Date of book published
publisher	Name of the publisher of the book.

This dataset is from [Goodreads API](#) created on May 25, 2019, and available at Kaggle. The objective of this dataset was in good faith to help bibliophiles by having a good clean dataset of books.