import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;

class Book {

private String title;

private String author;

private String isbn;

public Book(String title, String author, String isbn) {

this.title = title;

this.author = author;

this.isbn = isbn;

}

public String getTitle() {

return title;

}

public String getAuthor() {

return author;

}

public String getIsbn() {

return isbn;

}

}

class DigitalLibrary {

private List<Book> books;

public DigitalLibrary() {

books = new ArrayList<>();

}

public void addBook(Book book) {

books.add(book);

System.out.println("Book added to the library.");

}

public void searchByTitle(String title) {

List<Book> results = new ArrayList<>();

for (Book book : books) {

if (book.getTitle().equalsIgnoreCase(title)) {

results.add(book);

}

}

if (results.isEmpty()) {

System.out.println("No books found with the given title.");

} else {

System.out.println("Search Results:");

for (Book book : results) {

displayBookDetails(book);

}

}

}

public void searchByAuthor(String author) {

List<Book> results = new ArrayList<>();

for (Book book : books) {

if (book.getAuthor().equalsIgnoreCase(author)) {

results.add(book);

}

}

if (results.isEmpty()) {

System.out.println("No books found with the given author.");

} else {

System.out.println("Search Results:");

for (Book book : results) {

displayBookDetails(book);

}

}

}

private void displayBookDetails(Book book) {

System.out.println("Title: " + book.getTitle());

System.out.println("Author: " + book.getAuthor());

System.out.println("ISBN: " + book.getIsbn());

System.out.println();

}

}

public class Main {

public static void main(String[] args) {

DigitalLibrary library = new DigitalLibrary();

Book book1 = new Book("Java Programming", "John Smith", "1234567890");

Book book2 = new Book("Data Structures", "Jane Doe", "0987654321");

library.addBook(book1);

library.addBook(book2);

Scanner scanner = new Scanner(System.in);

System.out.println("Welcome to the Digital Library System!");

int choice;

do {

System.out.println("Menu:");

System.out.println("1. Search by Title");

System.out.println("2. Search by Author");

System.out.println("3. Exit");

System.out.print("Enter your choice: ");

choice = scanner.nextInt();

scanner.nextLine(); // Consume newline character

switch (choice) {

case 1:

System.out.print("Enter the title: ");

String title = scanner.nextLine();

library.searchByTitle(title);

break;

case 2:

System.out.print("Enter the author: ");

String author = scanner.nextLine();

library.searchByAuthor(author);

break;

case 3:

System.out.println("Thank you for using the Digital Library System!");

break;

default:

System.out.println("Invalid choice. Please try again.");

break;

}

} while (choice != 3);

scanner.close();

}

}