**Library Management System User Guide**

**Overview**

Welcome to the Library Management System! This guide will help you navigate and utilize the functionalities available in our application. The system is designed to efficiently manage library resources and borrower information.

**Dashboard Features**

**Book Search**

* **Description:** Search for books using ISBN, title, or author.
* **Link:** /book-search
* **Functionality:** Provides a search interface to find books based on various criteria.

**Checkout by ISBN**

* **Description:** Checkout a book by directly entering its ISBN.
* **Link:** /checkout-by-isbn
* **Functionality:** Offers the ability to quickly check out a book by specifying its ISBN.

**Check In**

* **Description:** Check in a borrowed book.
* **Link:** /checkin
* **Functionality:** Allows the librarian to check in books that have been returned.

**Add Borrower**

* **Description:** Add new borrowers to the database.
* **Link:** /add-borrower
* **Functionality:** Enables the librarian to create new borrower accounts.

**Fines**

* **Description:** Manage fines related to late book returns.
* **Link:** /fines
* **Functionality:** Provides features to view and handle fines associated with borrowed books.

**Navigation**

**Search Books**

* Use the search bar at the top to find books by ISBN, title, or author.
* Enter a keyword or part of a title/author name to start searching.
* The search is case-insensitive and supports substring matching.
  + Search results will display book details:
  + ISBN
  + Book Title
  + Book Author
  + Book Availability (checked out or available)

**Checkout Books**

* + To check out a book:
  + Select book(s) from the search results by clicking them.
  + Click the "Checkout" button.
  + Enter your Borrower (Card\_ID) when prompted.
    - The system will create a new entry in the BOOK\_LOANS table:
    - Unique primary key for each checkout.
    - Default date\_out: today's date.
    - due\_date: 14 days after date\_out.
  + Note: A borrower can have a maximum of 3 active book loans.

**Check-in Books**

* + To check in a book:
  + Use the search bar to locate BOOK\_LOANS tuples.
  + Search by ISBN, Borrower Card\_no, or Borrower name substring.
  + Select the appropriate entry.
  + Click the "Check-in" button.
  + The date\_in will be set to today's date in the corresponding BOOK\_LOANS tuple.

**Borrower Management**

* + To create a new borrower account:
  + Navigate to Borrower Management.
  + Fill in all required fields: Name, SSN, Address.
  + A unique card\_ID will be generated automatically.
  + Note: Each borrower can possess only one library card.

**Fines Management**

* Fines are assessed at a rate of $0.25/day.
* Click on the update button to update fines.
* The system will automatically update and calculate fines for late books.
  + Librarians can:
  + View fines grouped by card\_ID.
  + Filter out paid fines which is default in our system.
  + Enter payment of fines for returned books (where paid == 0).