QUICK START USER GUIDE TO LIBRARY MANAGEMENT SYSTEM

- Start mysql server.
    o Open command prompt in administrator mode.
    o Type command > mysqld –console
    o Once service gets started, open another command prompt terminal.
    o Type command > mysql -u root -p
    o Enter password
    o Connect to library database by giving command > use library;
- Open the browser and go to the following link:
  http://localhost:8080/LibraryManagementSystem/index.jsp
- This is the home page for Library Management System.
- There are four tabs each providing a functionality.
- Each tab has a hyperlink to the functionality implemented in that tab. Example in
  Book Search and Availability there is a hyperlink **Visit Book Search Page.** Click on this
  to go to the Book Search page

- **BOOK SEARCH AND AVAILABILITY**

    o Provided a single text search field.
    o Search is case insensitive.
    o Given any combination of ISBN, title, and/ or Author(s), it searches for the
      books and displays all the relevant records.
    o Displayed output consists of ISBN, Book Title, Author(s) name, Book
      Availability.

- **BOOK LOANS**
    o **Check Out**
    o Provide following details – Borrower Card Id and Book Isbn number.
    o Click on check out button.
    o A new tuple is created in BOOK_LOANS table.
    o If a borrower has already borrowed 3 books, check out fails displaying
      appropriate message.
    o If the book is already checked out and currently unavailable, check out fails
      displaying appropriate message.
    o **Check In:**
    o Provide following details – Card Id, Book Isbn, Borrower Name.
    o Click on submit button. It fetches all the relevant results.
    o Click on the row specifying details of the book that needs to be checked in.
    o Click on check in button.

o   Check in date is updated in the corresponding BOOK_LOANS row.

- **BORROWER MANAGEMENT**
  o   Provide the following Details – SSN, Name, Address, Phone Number.
  o   Click Submit.
  o   A new row inserted in BORROWER table.
  o   Borrower can have only one library card. If a borrower already has a card then insertion fails with an appropriate message.

- **FINES**
  o   Fines imposed at $0.25 per day.
  o   **Fine Update**
  o   Click on Update Button. The fines table is updated.
  o   **Fine pay/display**
  o   Provide the details – Card Id and Book ISBN.
  o   Click on Get Fine Details Button.
  o   It fetches all the fine records for that borrower and that book.
  o   Click on the record for which fine has to be paid.
  o   Click on Pay button.
  o   Payment of the fine for which book is yet not returned fails with an appropriate message.
  o   **DISPLAY**
  o   Click on Display fines button.
  o   For each borrower it displays the total fine paid and total fine pending.