

User Manual: The Library

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Introduction:

The goal of this project is to create a library database system using Java, JDBC and SQL*Plus. It allows different types of user (clerk, borrower or librarian) to perform transactions with a graphical user interface. The system automatically updates all the information that is added or modified to the database.

How to Run:

This project requires some setup before running on a personal computer.

1. Using the sql file "cs304.sql" in our project to create the library database. (By putting this file to the SQL*Plus server, and typing "START cs304.sql" in the SQL command line)
2. Open our project in Eclipse, and load the JDBC and Oracle libraries (classes12.zip) provided by the instructor for this project.
3. Compile and run our project as "Java application" on Eclipse to start the library database system. (The database access is granted to your Oracle account : "ora_yourUnix id", and password : a "StudentNumber")
4. Finally, you are able to perform any transactions on our designed library database system.

For clerk:

- Add a new borrower to the library
- Check-out items borrowed by a borrower
- Process a return
- Check overdue items

For borrower:

- Search for books
- Check his/her account.
- Place a hold request for a book that is out.

- Pay a fine

For librarian:

- Add a new book or new copy of an existing book to the library
- Generate a report with all the books that have been checked out
- Generate a report with the most popular items in a given year

If you are having difficulties viewing our library database system, please contact
wngkai.91@gmail.com