Computer Science Department
CSC 3300 Database Management Systems
Project3 (10/26/2022; Fall 2022)
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What to submit as a solution to Project3?
    Zipped: java code, documentation in the PDF format and video recording.

Where to submit this file?
    The dropbox in iLearn named Project3. The due date for this assignment is 11/09/2022 at 11:59pm. The end date for this assignment is 11/11/2022 at 11:59pm.

Rules
    You may discuss on Teams what has to be done (clarification of the assignment's specification).

How this assignment will be graded?
    Your submission has to meet the requirements to be given max number of points. Unadressed aspects in this document are subject to your own decisions. Your program has to provide functionality described below, be of good quality and come with the documentation.

	Points No
Documentation of the code	10
Validation of user input	10
CLI	10
Documentation	10
Video recording	10
Functionality	50

Table 1: Grading

Implement a console java application that interacts with the Library database (library_schema_MySQL.sql, libraryInsertFile_MySQL.sql).

brown should be a user of the database library. He should be able to log-in with password db123.

1. brown should be able to:

    (a) Retrieve ISBN, title, genre name, publication date, name of the publisher, edition number and description of each book.

    (b) Retrieve for a book first, middle and last names of its authors.

    (c) Retrieve ISBN, title and barcode of every book copy.

    (d) Retrieve card number, first, middle and last name of every member.

(e) Retieve info (ISBN, title, barcode, date borrowed and number of renewals) of every loan that was not finalized for a chosen member.

(f) Register in the system the return of a book a chosen member borrowed.

(g) Borrow a book copy to a chosen member.

(h) Renew a loan of a book copy to a chosen member.

(i) Retrieve how much money a chosen member owns to the library.

(j) Retrieve for a member ISBN, title, barcode, date borrowed, date returned and fee for every book he owns money for to the library.

(k) Register in the system, for a member, a payment for a loan of a book copy that was overdue.

Additional requirements:

1. Document your code, that is, include comments in your code e.g. explaining what a given methor does.

2. Validate user input. Your program shouldn't ever crash.

3. Information displayed to the user (Command Line Interface) should be intuitive.

4. Documentation should include:

   (a) User manual (screenshots are welcome).
   (b) Implemented and not implemented functionality.
   (c) Assumptions made regarding issues that were not explicit.
   (d) Info about how to build and run your project.

5. Record about 5min. video in which you present your deliverables and app.