

Project Milestone – 2

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Programming Language

Python 3.9

MySQL

HTML

CSS

Javascript

Third Party Libraries

Flask, python MySQL Connector

IDE Used

VS Code, MySQL Workbench

Overview

First, the data from the csv files was loaded into the database. Then using python and MySQL queries, the functional requirements were established.

Librarians are able to search for a book, given any combination of ISBN, title, and/ or Author(s).

Once found in a GUI search, be able to check out a book after being prompted for a BORROWER(Card_no), i.e. create a new tuple in BOOK_LOANS. The due date is 14 days after date out. Each BORROWER is permitted a maximum of 3 BOOK_LOANS.

Using GUI the librarian can create new users and the ID will be created automatically.

The librarian can even insert or delete books.

All the edge cases have been taken into consideration.

User Guide

Using search bar, search for the book either by ISBN, Book Title or Author Name and using the check boxes select any 3 books that you want to give to user. If user already has taken books, then make sure that a total of 3 books can be taken, appropriate messages will be shown. In the next page enter the ID Card number of the student you want to give the book to. The book will be assigned to them and be made unavailable in the database.

If you want to check in a book, search by book id, card id or student name and then select the record returned and check again if the student has paid the fine if any.

Librarians can even insert new books and borrowers into the database.

Search Page

127.0.0.1:5000/search

127.0.0.1:5000/checkin

127.0.0.1:5000/insertborrower

127.0.0.1:5000/insertbooks

New Tab

127.0.0.1:5000/search

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Library

Search by Book ID, Card ID or Student Name

Search

Available	ISBN	Book Name	Author	
YES	9780060956868	Joy In The Morning (Perennial Classics)	Betty Smith	<input type="checkbox"/>
YES	9780140029611	Good Morning"," Midnight	Jean Rhys	<input type="checkbox"/>
YES	9780152006730	A Ride Into Morning: The Story Of Tempe Wick	Ann Rinaldi	<input type="checkbox"/>
YES	9780312049997	The Sun In The Morning: My Early Years In India And England	M. M. Kaye	<input type="checkbox"/>
YES	9780316754316	The Morning After: Sex", Fear," And Feminism On Campus	Katie Roiphe	<input type="checkbox"/>
YES	9780373076741	Morning Side Of Dawn (Silhouette Intimate Moments)	Justine Davis	<input type="checkbox"/>
YES	9780373243143	Good Morning Stranger (Special Edition"," 1314)	Campbell	<input type="checkbox"/>

Borrow

15°C
Clear

Search

99+

ENG
IN

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Check In Page

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New Tab

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Return Books

Search by Book ID, Card ID or Student Name

Search

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Search

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Manage Borrower Page

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Manage Borrower

Borrower Deleted

SSN:

Name:

Address:

Phone:

ADD

DELETE

CARD ID	SSN	Name	Address	Phone
ID000991	659-27-5045	Bonnie Ross	81741 Hallows Plaza Dallas TX	(214) 930-4665
ID000992	923-61-2260	Dennis Wheeler	8321 Mendota Crossing Dallas TX	(214) 932-7040
ID000993	646-30-1413	Jason Gutierrez	7 Pearson Way Dallas TX	(972) 990-8290
ID000994	959-11-7538	Diana Green	457 Marstonville Allen Pkwy Dallas TX	(972) 959-8653

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Search

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ENG IN

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Manage Books Page

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Manage Books

Book Deleted

Book ID:

ISBN13:

Title:

Available:

ADD

DELETE

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Search

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Borrow Page

127.0.0.1:5000/borrow?isbn=9780060956868

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Borrow

Card ID

Borrow

Loan ID	ISBN	Title	Card ID	Date Borrowed	Due Date
59	9780060081188	Mr. Lincoln's Wars: A Novel In Thirteen Stories	ID000001	2022-11-28	2022-12-12
66	9780060956868	Joy In The Morning (Perennial Classics)	ID000001	2022-11-28	2022-12-12

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Search

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Return Books Page

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Return Books

Search by Book ID, Card ID or Student Name

Search

Loan ID	Book ID	Card ID	Card Holder Name	
59	9780060081188	ID000001	Mark Morgan	<input checked="" type="checkbox"/>
66	9780060956868	ID000001	Mark Morgan	<input type="checkbox"/>

Check IN

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Search

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Fines Page

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FinesRefresh

Fine Dues

Loan ID	Date Out	Due Date	Date IN	Fine	Amount Received
59	2022-11-28	2022-12-12	None	0	<input checked="" type="checkbox"/>

Update

Recent Fines Paid

Loan ID	Fine Amount	Paid
57	\$ 0.0	1
58	\$ 0.0	1
60	\$ 0.0	1
61	\$ 0.0	1
63	\$ 0.0	1

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FinesRefresh

57	\$ 0.0	1
58	\$ 0.0	1
60	\$ 0.0	1
61	\$ 0.0	1
63	\$ 0.0	1

Total Fines By Card_ID

Card_ID	Total Fine Amount
ID000001	\$ 0.0
ID000002	\$ 0.0
ID000003	\$ 0.0

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