



اَوْنُوْزْ سَيِّتِيْ تِيْكَنُوْ لُوْ كِيْ مَارَا
UNIVERSITI
TEKNOLOGI
MARA

**UNIVERSITI TEKNOLOGI MARA (UiTM),
KEDAH, KAMPUS SUNGAI PETANI
SCHOOL OF INFORMATION SCIENCE
COLLEGE OF COMPUTING, INFORMATICS, AND MATHEMATICS**

[DIPLOMA IN LIBRARY INFORMATICS]

(CDIM 144)

[PROGRAMMING FOR LIBRARIES]

(IML208)

INDIVIDUAL PROJECT: LIBRARY RENEWAL SYSTEM

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PREPARED FOR:

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SUBMISSION DATE:

18th DECEMBER 2024

Project Name: Library Renewal System

This project is an idea that comes from a common problem amongst librarians albeit a long time ago, circulation services and or processes are conducted manually and it pretty much caused quite a heavy load on librarians and staffs, so I wanted to create this renewal system that could at least aid in lessening their burden.

File name : dialib.py

Prompt Data :

I have set the data prompt to be the title of the borrowed book since it is the most likely access points in the context of library, the borrower's initials (e.g. Farhan Bin Khalid = F.K.) to create a standardized naming convention for a much more organized record, contact number so the librarian can call them in case of anything, and borrowed date the date when the book is borrowed to come up with the due date.

i. Book Title



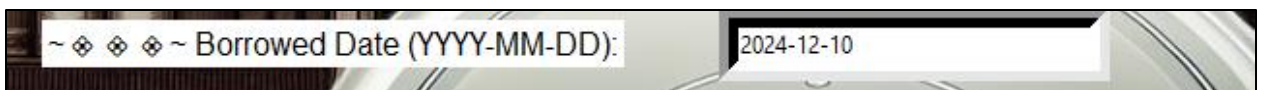
ii. Borrower's Initials



iii. Contact no



iv. Borrowed Date



Function :

i. Create data/ Add book

Library Book Renewal System

❖ Diamond Library Renewal System ❖

Diamonds in the Rough~

~ ❖ ❖ ❖ ~ Book Title: Panduan Untuk Mati Beriman

~ ❖ ❖ ❖ ~ Borrower's Initials: H. A.

~ ❖ ❖ ❖ ~ Contact No: 011 567 8897

~ ❖ ❖ ❖ ~ Borrowed Date (YYYY-MM-DD): 2024-12-10

Add Book

Update Book

Delete Book

Renew Book

ii. Read data/ Display

Library Book Renewal System

◆ Diamond Library Renewal System ◆

Diamonds in the Rough~

~◆◆◆~ Book Title: Panduan Untuk Mati Beriman

~◆◆◆~ Borrower's Initials: H. A.

~◆◆◆~ Contact No: 011 567 8897

~◆◆◆~ Borrowed Date (YYYY-MM-DD): 2024-12-10

Add Book

Update Book

Delete Book

Renew Book

ID: 504 | Title: Panduan Untuk Mati Beriman | Initials: H. A. | Contact: 011 567 8897 | Borrow Date: 2024-12-10 | Due: 2024-12-17

iii. Update data/ Update book

Library Book Renewal System

Diamond Library Renewal System

Diamonds in the Rough~

~ ♦ ♦ ♦ ~ Book Title: Panduan Untuk Mati Beriman

~ ♦ ♦ ♦ ~ Borrower's Initials: H. A.

~ ♦ ♦ ♦ ~ Contact No: 011 567 8897

~ ♦ ♦ ♦ ~ Borrowed Date (YYYY-MM-DD): 2024-12-10

Add Book

Update Book

Delete Book

Renew Book

ID: 504 | Title: Panduan Untuk Mati Beriman | Initials: H. A. | Contact: 011 567 8897 | Borrow Date: 2024-12-10 | Due: 2024-12-17

Library Book Renewal System

Diamond Library Renewal System

Diamonds in the Rough~

~ ♦ ♦ ♦ ~ Book Title: Panduan Untuk Mati Beriman

~ ♦ ♦ ♦ ~ Borrower's Initials: H. A. Y.

~ ♦ ♦ ♦ ~ Contact No: 011 567 9899

~ ♦ ♦ ♦ ~ Borrowed Date (YYYY-MM-DD): 2024-12-10

Add Book

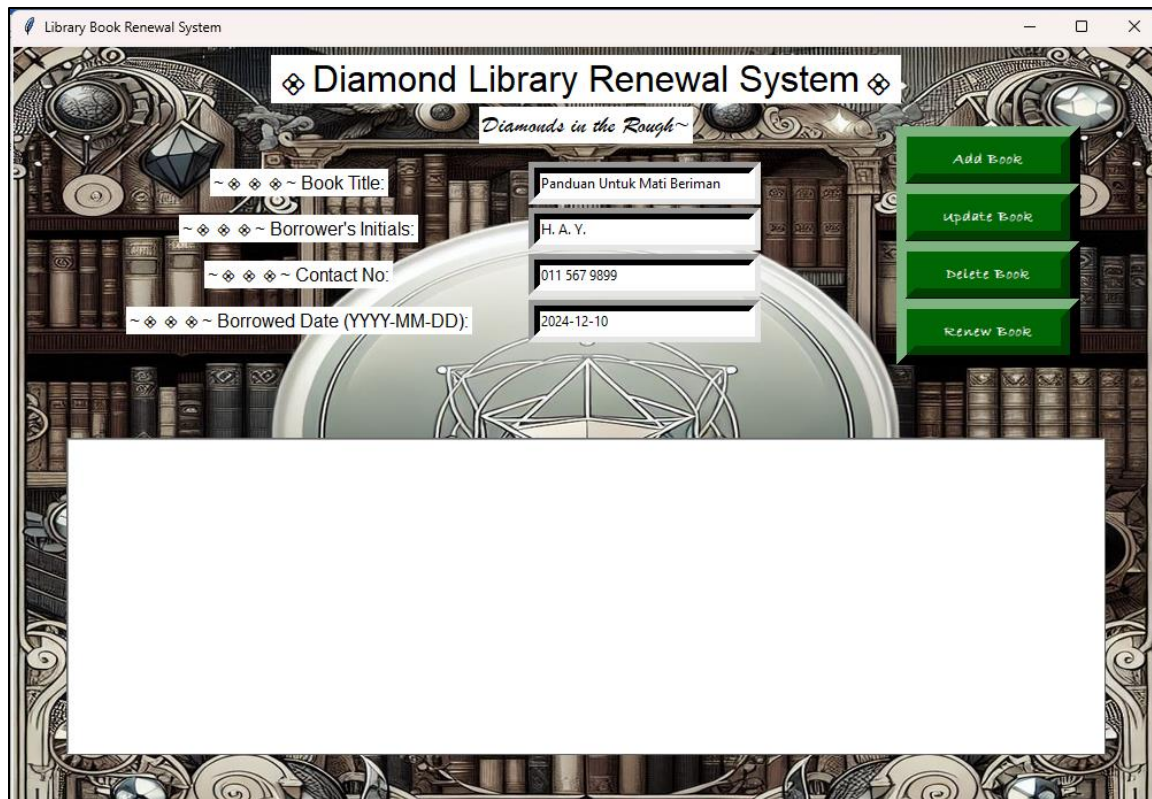
Update Book

Delete Book

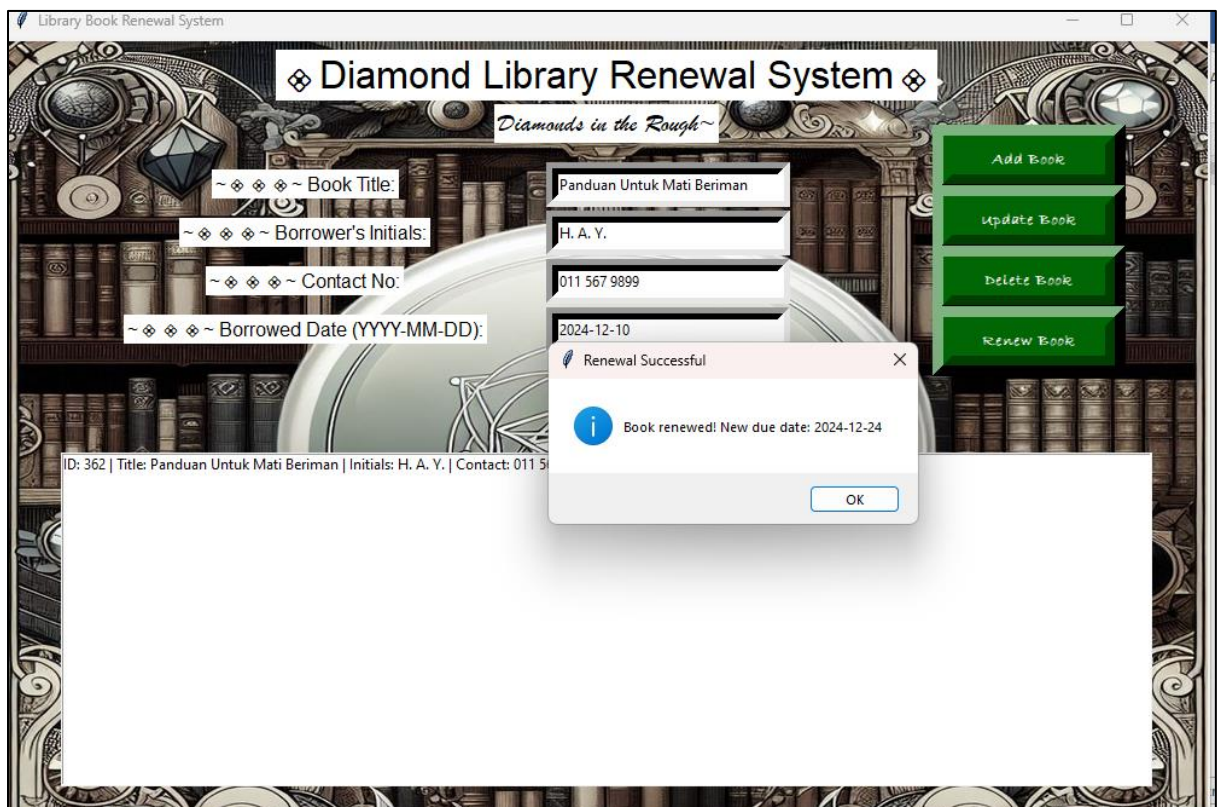
Renew Book

ID: 504 | Title: Panduan Untuk Mati Beriman | Initials: H. A. Y. | Contact: 011 567 9899 | Borrow Date: 2024-12-10 | Due: 2024-12-17

- iv. Delete existing data/ Delete existing borrowing record



v. Book Renewal



Conditional Statement : Yes

If, & else

```
if book_title and borrower_initials and contact_no and borrowal_date:
    book = {
        "id": book_id,
        "title": book_title,
        "initials": borrower_initials,
        "contact": contact_no,
        "borrowal_date": borrowal_date,
        "due_date": due_date,
        "renewed_date": renewed_date
    }
    self.books.append(book)
    self.update_book_listbox()
    self.clear_entries()
else:
    messagebox.showwarning("Input Error", "Please fill in all required fields.")
```

GUI : Yes(add screenshot)

Library Book Renewal System

❖ Diamond Library Renewal System ❖

Diamonds in the Rough~

~ ❖ ❖ ❖ ~ Book Title: Panduan Untuk Mati Beriman

~ ❖ ❖ ❖ ~ Borrower's Initials: H. A. Y.

~ ❖ ❖ ❖ ~ Contact No: 011 567 9899

~ ❖ ❖ ❖ ~ Borrowed Date (YYYY-MM-DD): 2024-12-10

Add Book

Update Book

Delete Book

Renew Book

ID: 362 | Title: Panduan Untuk Mati Beriman | Initials: H. A. Y. | Contact: 011 567 9899 | Borrow Date: 2024-12-10 | Due: 2024-12-24

Result : Screenshot

Library Book Renewal System

◆ Diamond Library Renewal System ◆

Diamonds in the Rough~

~◆◆◆~ Book Title:

~◆◆◆~ Borrower's Initials:

~◆◆◆~ Contact No:

~◆◆◆~ Borrowed Date (YYYY-MM-DD):

Add Book

Update Book

Delete Book

Renew Book

ID: 362 | Title: Panduan Untuk Mati Beriman | Initials: H. A. Y. | Contact: 011 567 9899 | Borrow Date: 2024-12-10 | Due: 2024-12-24

ID: 639 | Title: Tinta Mawar | Initials: N. F. A. | Contact: 013 455 3436 | Borrow Date: 2024-12-11 | Due: 2024-12-18

ID: 230 | Title: Cinta Buku | Initials: Y. Y. | Contact: 011 233 4567 | Borrow Date: 2024-12-11 | Due: 2024-12-18

ID: 729 | Title: Buka Buku | Initials: Y. Y. | Contact: 011 233 4567 | Borrow Date: 2024-12-11 | Due: 2024-12-18

ID: 612 | Title: Permata Hati | Initials: H. A. Y. | Contact: 011 567 9899 | Borrow Date: 2024-12-12 | Due: 2024-12-19

ID: 743 | Title: KucingTaMu | Initials: M. M | Contact: 017 677 5678 | Borrow Date: 2024-12-14 | Due: 2024-12-21

ID: 144 | Title: Taubat Sebelum Terlambat | Initials: U. M. S. | Contact: 012 334 5454 | Borrow Date: 2024-12-14 | Due: 2024-12-21

ID: 694 | Title: Berprasangka Baik Kepada Allah | Initials: M. F. M. Y | Contact: 017 990 1212 | Borrow Date: 2024-12-17 | Due: 2024-12-24

ID: 988 | Title: Senyum itu Sedekah | Initials: H. Y. | Contact: 012 223 2488 | Borrow Date: 2024-12-18 | Due: 2024-12-25

ID: 591 | Title: Mulakan Dengan Bismillah | Initials: H. Y. | Contact: 012 223 2488 | Borrow Date: 2024-12-18 | Due: 2024-12-25

ID: 338 | Title: Solat Tiang Agama, Bagaimana Keadaan TiangMU? | Initials: U. M. S. | Contact: 012 334 5454 | Borrow Date: 2024-12-19 | Due: 2024-12-26

ID: 260 | Title: Sejarah Ringkas Rasulullah SAW | Initials: M. M | Contact: 017 677 5678 | Borrow Date: 2024-12-20 | Due: 2024-12-27

ID: 793 | Title: Kisah 25 Rasul | Initials: M. M | Contact: 017 677 5678 | Borrow Date: 2024-12-20 | Due: 2024-12-27

ID: 203 | Title: Puasa itu BEST | Initials: H. Y. | Contact: 012 223 2488 | Borrow Date: 2024-12-21 | Due: 2024-12-28

Strength:

- Makes it easier for librarian to keep records and renew borrowed books
- Save time of users who wants to renew book
- User-friendly
- Comprehensible, making it easy for even newbies to understand the concept and how to use it.
- Suitable for libraries with small simple collections

Kaizen (Room for improvement)

- Can add more details of the book (e.g. author, ISBN, Publisher or any other bibliographic information of the materials)
- Add details of borrowers instead of just their initials
- Add other circulation service like fine due
- Have other functions included (e.g. checking out, checking in, registration)
- Add pictures of the borrowed books