



UNIVERSITI TEKNOLOGI MARA
(UiTM) KEDAH, KAMPUS SUNGAI PETANI
SCHOOL OF INFORMATION SCIENCE

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS
DIPLOMA IN INFORMATICS LIBRARY

[CDIM144] DIPLOMA IN LIBRARY INFORMATICS
[IML208] PROGRAMMING FOR LIBRARIES

INDIVIDUAL ASSIGNMENT

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PREPARED FOR:

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SUBMISSION DATE:

WEEK 10

INDIVIDUAL ASSIGNMENT

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2023457152

KCDIM1443B

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2024

ACKNOWLEDGEMENT

Alhamdulillah, I would like to express my gratitude to Allah SWT for giving me the strength to complete the assignment smoothly. And because of His grace, I was encouraged to continue the assignment until I succeeded.

I as a part of the student from CDIM144 in Library Diplomatics, want to convey my sincere gratitude to Sir Mohd Firdaus Bin Mohd Helmi, my lecturer for his entire attention and infinite helping me completing this assignment. Without his guidance, I could not even finish the assignment completely by myself.

Apart from that, I would like to thank all my beloved lecturer and classmates for helping me without any hesitation throughout this assignment. Their help in answering the questionss truly gives clarity to all our doubts and issues.

Last but not least, I would like to thank my family for their continouns support until I accomplish this assignment. With their support and motivation, I was determined to not give up halfway and finish the assignment easily. Also, all that involved directly or inderectly in this assignment.

NAME: NUR NISRINA BINTI NORAZALI

STUDENT ID: 2023457152

CLASS: KCDIM1443B

Project Name: Sinaran Bookstore Membership Registration

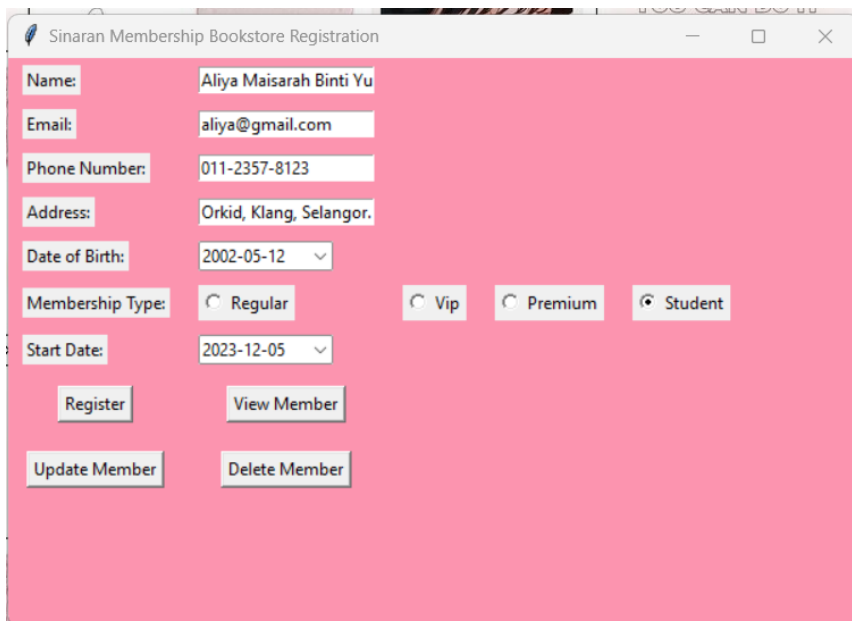
File Name: bookstore_membership.py

Prompt Data:

- i. **Personal Data Information:** Name, email, phone number, address, date of birth
- ii. **Membership Type:** Regular, VIP, Premium, Student
- iii. **Membership Start Date:** Date of the member joined
- iv. **Membership Expiration Date:** After one year of membership subscriptions

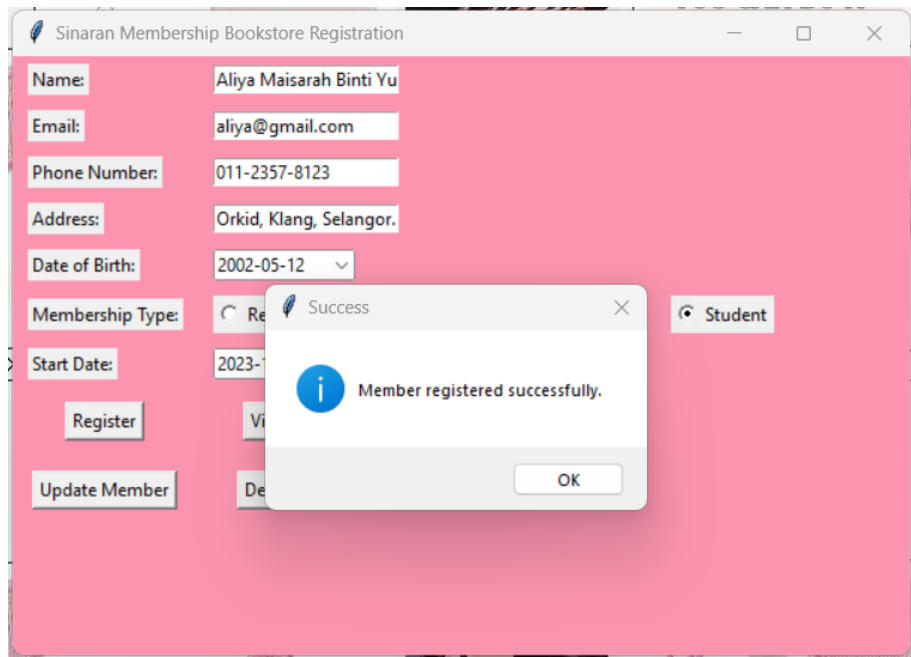
Function: (CRUD)

- i. Create data (Register a new member)

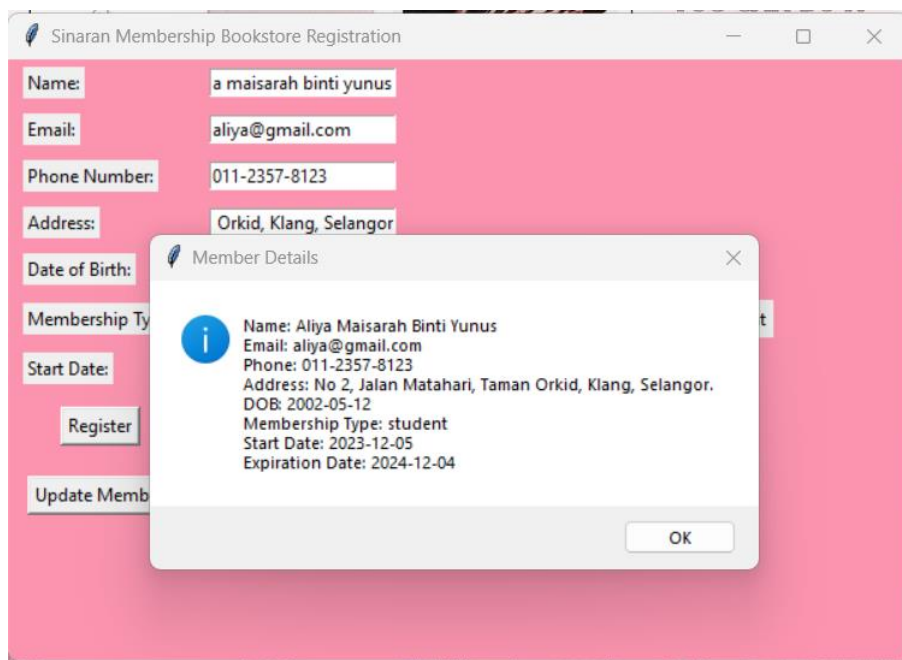


The screenshot shows a web browser window titled "Sinaran Membership Bookstore Registration". The form is set against a pink background and contains the following fields and controls:

- Name:** Text input field containing "Aliya Maisarah Binti Yu".
- Email:** Text input field containing "aliya@gmail.com".
- Phone Number:** Text input field containing "011-2357-8123".
- Address:** Text input field containing "Orkid, Klang, Selangor."
- Date of Birth:** Dropdown menu showing "2002-05-12".
- Membership Type:** Four radio button options: "Regular", "Vip", "Premium", and "Student". The "Student" option is selected.
- Start Date:** Dropdown menu showing "2023-12-05".
- Buttons:** Four buttons are located at the bottom: "Register", "View Member", "Update Member", and "Delete Member".



ii. Read data (View Member Details)



iii. Update data (Edit Member Details)

The screenshot shows a web application window titled "Sinaran Membership Bookstore Registration". The form contains the following fields and values:

Field	Value
Name:	a maisarah binti yunus
Email:	aliya@gmail.com
Phone Number:	011-2357-8123
Address:	Orkid, Klang, Selangor
Date of Birth:	2002-05-12
Membership Type:	Student
Start Date:	2023-12-12

Buttons visible on the form include "Register" and "Update Member". A modal dialog box titled "Success" is overlaid on the form, displaying the message "Member details updated successfully." with an "OK" button.

iv. Delete existing data (Remove Member)

The screenshot shows the same web application window as above. The form fields and values are identical. The "Update Member" button is now disabled, and the "Delete Member" button is active. A modal dialog box titled "Success" is overlaid on the form, displaying the message "Member deleted successfully." with an "OK" button.

Conditional Statement: Yes

```
# Validate input
if not name or not email or not phone or not address:
    messagebox.showwarning("Input Error", "All fields must be filled.")
    return
```

```
# Search for the member by name
for member in members:
    if member["name"].lower() == member_name.lower():
        messagebox.showinfo("Member Details", f"Name: {member['name']}\n"
                                             f"Email: {member['email']}\n"
                                             f"Phone: {member['phone']}\n"
                                             f"Address: {member['address']}\n"
                                             f"DOB: {member['dob']}\n"
                                             f"Membership Type: {member['membership_type']}\n"
                                             f"Start Date: {member['start_date']}\n"
                                             f"Expiration Date: {member['expiration_date']}")
        return
messagebox.showwarning("Not Found", "Member not found.")
```

```
for member in members:
    if member["name"].lower() == member_name.lower():
        # Update member data
        member["email"] = entry_email.get()
        member["phone"] = entry_phone.get()
        member["address"] = entry_address.get()
        member["dob"] = entry_dob.get_date()
        member["membership_type"] = membership_type_var.get()
        member["start_date"] = start_date_entry.get_date()
        member["expiration_date"] = calculate_expiration(member["start_date"])

        messagebox.showinfo("Success", "Member details updated successfully.")
        clear_form()
        return
messagebox.showwarning("Not Found", "Member not found.")
```

GUI : Yes

Sinaran Membership Bookstore Registration

Name:

Email:

Phone Number:

Address:

Date of Birth: 2024-11-30 ▾

Membership Type: ☒ Regular ☐ Vip ☐ Premium ☐ Student

Start Date: 2024-11-30 ▾

Strength

The strength of this Sinaran Bookstore Membership Registration is, it can help simplify and speed up the membership registration process for users. For example, in the GUI system, it has provided a space for employees to enter user information including name, email, phone number, and so on. Then, the system itself will process and store all data user into one system so that it can be used as a reference source in the future, in case the user want to renew their membership. This can be done by update the member details in the GUI space provided.

On the other hand, the GUI system can be customized according to our needs and preferences. For instance, we can change the background colour, name, GUI size, and logo for our GUI. By making the GUI more attractive, we can further enliven the system and attract users to use the system more. On top of that, not only is there a place to fill in the information, but there are also buttons that are easy for users and employees to understand so thay can fill in the information without making any mistakes.

Futhermore, the strenght of this system is that it informs us of the progress we have done. Such as, every time we enter a information, the screen will display a messages saying "success, "member details updated successfully"or incase our progress does not key in properly, it will display a messages like "not found, "member not found". With notifications and messages like this, it can make use more ware of the progress we are making and help us ensure that our data is successfully enter the bookstore system.

The last strength of this system is can be accessed by users anywhere and with various devices like tablets, computers and smartphones. With this ability, users don't need to worry if they don't have one of the devices, because the most devices that people have nowadays is smartphones. Through the smartphone its ensure its accessbility and safety during the registration process.

Kaizen (Room for improvement)

- 1. Accessibility improvement:** We can make a improvements in terms of accessibility for all users. For instance, we can change the colour of the button to a contrasting colour, so it can be seen by users with visual impairments.
- 2. Improve mobile responsive.** For example, the button and field on the GUI can be enlarged. By doing this enlargement, the person who fill in the information can see all the information and can make any correction before pressing the submit button.
- 3. Added Features:** Such as the option to save the informaton they have filled in, and if the registration takes a long time, they can resume the registration process without having to re-enter previoulsy filled data.