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SCHOOL OF INFORMATION SCIENCE COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

DIPLOMA IN LIBRARY INFORMATICS (CDIM144)

IML208: PROGRAMMING FOR LIBRARIES

INDIVIDUAL ASSIGNMENT:

"BOOKSHOP MEMBERSHIP REGISTRATION SYSTEM"

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TABLE OF CONTENTS

1.0 INTRODUCTION	
2.0 FLOWCHART	2
3.0 SCREENSHOTS	3
3.1 CODING	3
3.2 GRAPHICAL USER INTERFACE (GUI)	6
3.3 DATABASE	7
3.3.1 Table structure	7
3.3.2 The data browsing page	7
4.0 CONCLUSION	8

1.0 INTRODUCTION

To start, 'KinokunIra Membership Registration' is a bookstore membership registration system that is user-friendly and is created using tkinter with graphical user interface (GUI). In terms of functionality, the system covers key aspects of membership management, such as user registration and data storage. Leveraging the capabilities of Python, particularly with the tkinter library for GUI development, the application offers an intuitive platform for users to interact with. In addition, the backbone of the system lies in its integration with the database 'phpMyAdmin', that handles the storage and retrieval of membership information.

This database will have the user input their name, date of birth, email, and phone number. However, the output will have the name of the user, age, email address, and phone number. The calculation involved in the code is the calculation of the user's age.

To add, this database will only involve the functions of Create and Read.

In consideration of the user, the system also provides a help button in which the user will get a message box on the instructions on how to enter their information.

Lastly, after the user enters their information, they can click on the 'Register' button. If they are done or maybe want to cancel their registration, they can just click on the 'Quit application' button to quit the application.

2.0 FLOWCHART

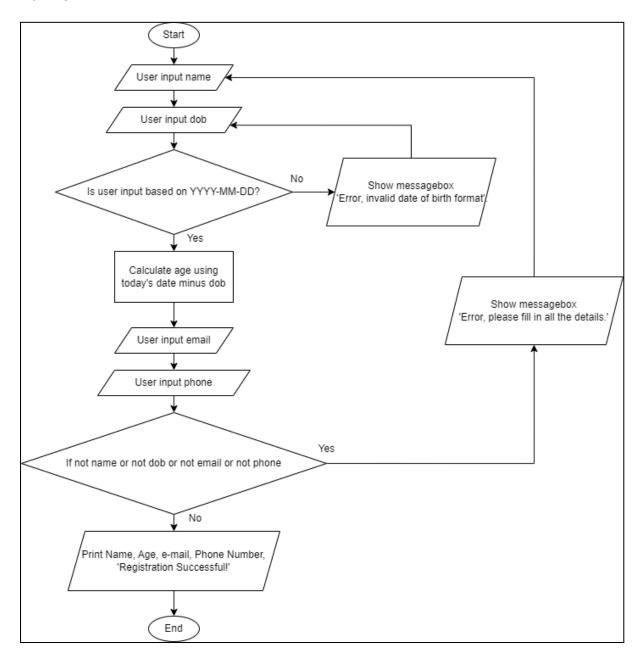


Figure 1.0 Flowchart of "KinokunIra" bookshop membership registration system

3.0 SCREENSHOTS

3.1 CODING

```
🗣 Ira_Membership.py > 🖯 show_help
      from tkinter import messagebox from datetime import date
      def show_help():
           help_text =
            Welcome to KinokunIra Membership Registration!
            After filling in the details, click the 'Register' button to complete the registration.
            If you encounter any issues, reach out to our support team on either of these contacts below.
            Phone number: +601133228274
e-mail: kinokunira@gmail.com
            messagebox.showinfo("Help", help_text)
      def register_member():
           name = entry_name.get()
           dob = entry_dob.get()
            email = entry_email.get()
           phone = entry_phone.get()
            # Convert dob to date and calculate age
               dob_date = date.fromisoformat(dob)
                age = (date.today() - dob_date).days // 365
              messagebox.showerror("Error", "Invalid Date of Birth format.")
return
           if not name or not dob or not email or not phone:
              messagebox.showerror("Error", "Please fill in all fields.")
return
           elif not phone.startswith("60") or not phone[2:].isdigit():

messagebox.showerror("Invalid", "Phone number must start with '60' and contain only numeric values.")
               registration_info = f"Name: {name}\nAge: {age}\nEmail: {email}\nPhone number: {phone}"
messagebox.showinfo("Registration Successful", registration_info)
print("Registration Successful!")
                print("Name:", name)
                print("Name: , name)
print("Age: ", age)
print("Email: ", email)
print("Phone: ", phone)
```

Figure 2.0 Line 1 to line 59 of "Kinokunlra" bookshop membership registration system's coding in Visual Studio Code

```
| Ira_Membership.py > 😭 show_help
              # Establish a connection to the MySQL server
mydb = mysql.connector.connect(
                    host="localhost",
                    password="",
                     database="ira_membership"
             cursor = mydb.cursor()
             # Inserting data into a table
sql = "INSERT INTO 'user info' (user_name, user_dob, user_age, user_email, user_phone) VALUES (%s, %s, %s, %s, %s)"
              val = (name, dob, age, email, phone)
                    cursor.execute(sql, val)
                     mydb.commit()
                    print("Data inserted successfully!")
             except mysql.connector.Error as err:
    print(f"Error: {err}")
                    mydb.rollback()
              cursor.close()
              mydb.close()
       def quit_application():
             root.destroy()
       root.title("Book Shop Membership Registration")
      # Set the window size and position
root.geometry("800x600+400+300")
      root.configure(bg="#F5CEF2")
      # Create and configure the labels
| label_title = tk.Label(root, text="Welcome to KinokunIra!", font=("Times New Roman", 50, 'bold'))
| label_subtitle = tk.Label(root, text="Register for a membership card now to get a discount!", font=('Times New Roman', 25))
| label_name = tk.Label(root, text="Name:", font=("Arial", 15), bg="#f0f0f0")
| label_email = tk.Label(root, text="Email (xxx@xxx.xxx):", font=("Arial", 15), bg="#f0f0f0")
| label_phone = tk.Label(root, text="Phone number (+60 only):", font=("Arial", 15), bg="#f0f0f0")
| label_dob = tk.Label(root, text="Date of birth (YYYY-MM-DD):", font=("Arial", 15), bg="#f0f0f0")
      entry_name = tk.Entry(root, font=("Arial", 12), width=30)
entry_namil = tk.Entry(root, font=("Arial", 12), width=30)
entry_phone = tk.Entry(root, font=("Arial", 12), width=30)
entry_dob = tk.Entry(root, font=("Arial", 12), width=30)
      # Create and configure the register button
register_button = tk.Button(root, text="Register", command=register_member, font=("Arial", 12), bg="#84e0b3", fg="black")
       # Create and configure the guit button
       quit_button = tk.Button(root, text="Quit application", command=quit_application, font=("Arial", 12), bg="#d9534f", fg="white")
       help_button = tk.Button(root, text="Help", command=show_help, font=("Arial", 12), bg="#5bc0de", fg="black")
```

Figure 2.1 Line 61 to line 124 of "Kinokunlra" bookshop membership registration system's coding in Visual Studio Code

Figure 2.2 Line 125 to line 144 of "Kinokunlra" bookshop membership registration system's coding in Visual Studio Code

3.2 GRAPHICAL USER INTERFACE (GUI)

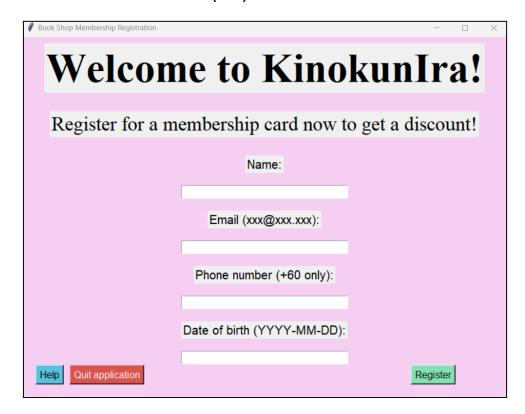


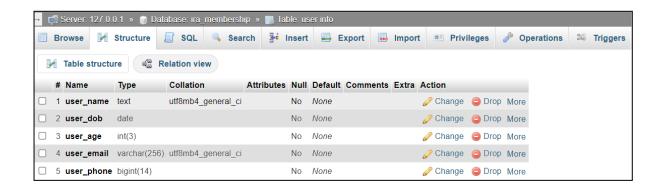
Figure 3.0 GUI of "KinokunIra" bookshop membership registration system



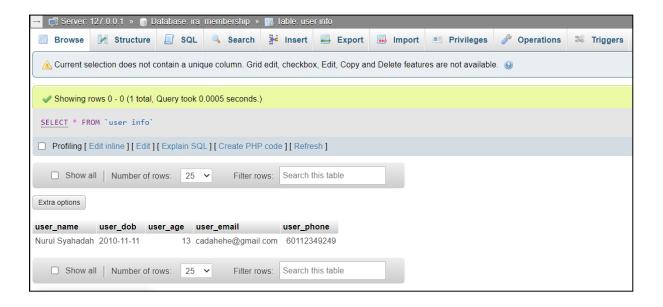
Figure 3.1 GUI of "KinokunIra" bookshop membership registration system's 'Help' button

3.3 DATABASE

3.3.1 Table structure



3.3.2 The data browsing page



4.0 CONCLUSION

In summary, the creation of the 'KinokunIra Membership Registration' system using Python's tkinter library for GUI and integration with phpMyAdmin has been a valuable learning experience. The system efficiently handles user registration, focusing on essential information like name, date of birth, email, and phone number. The phpMyAdmin database ensures secure data storage, with limited functionalities to Create and Read operations.

The system's dynamic feature calculates the user's age based on the entered date of birth, enhancing the overall user experience. The inclusion of a help button provides clear instructions for users, emphasizing the user-centric design.

Reflecting on the project, I have gained insights into GUI design, database integration, and Python programming. Overcoming coding challenges and ensuring data security were key aspects. This experience deepened my understanding of software development, setting a solid foundation for future projects. In conclusion, the 'Kinokunlra Membership Registration' system successfully combines functionality and user-friendliness, demonstrating the potential of Python and tkinter in creating effective applications with seamless database integration.