UNIVERSITI TEKNOLOGI MARA

KEDAH BRANCH

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"

Prepared by:

NURUL SYAKIRAH BINTI ASRIL (2022618038)

GROUP KCDIM1443F

Prepared for:

SIR AIRUL SHAZWAN BIN NORSHAHIMI

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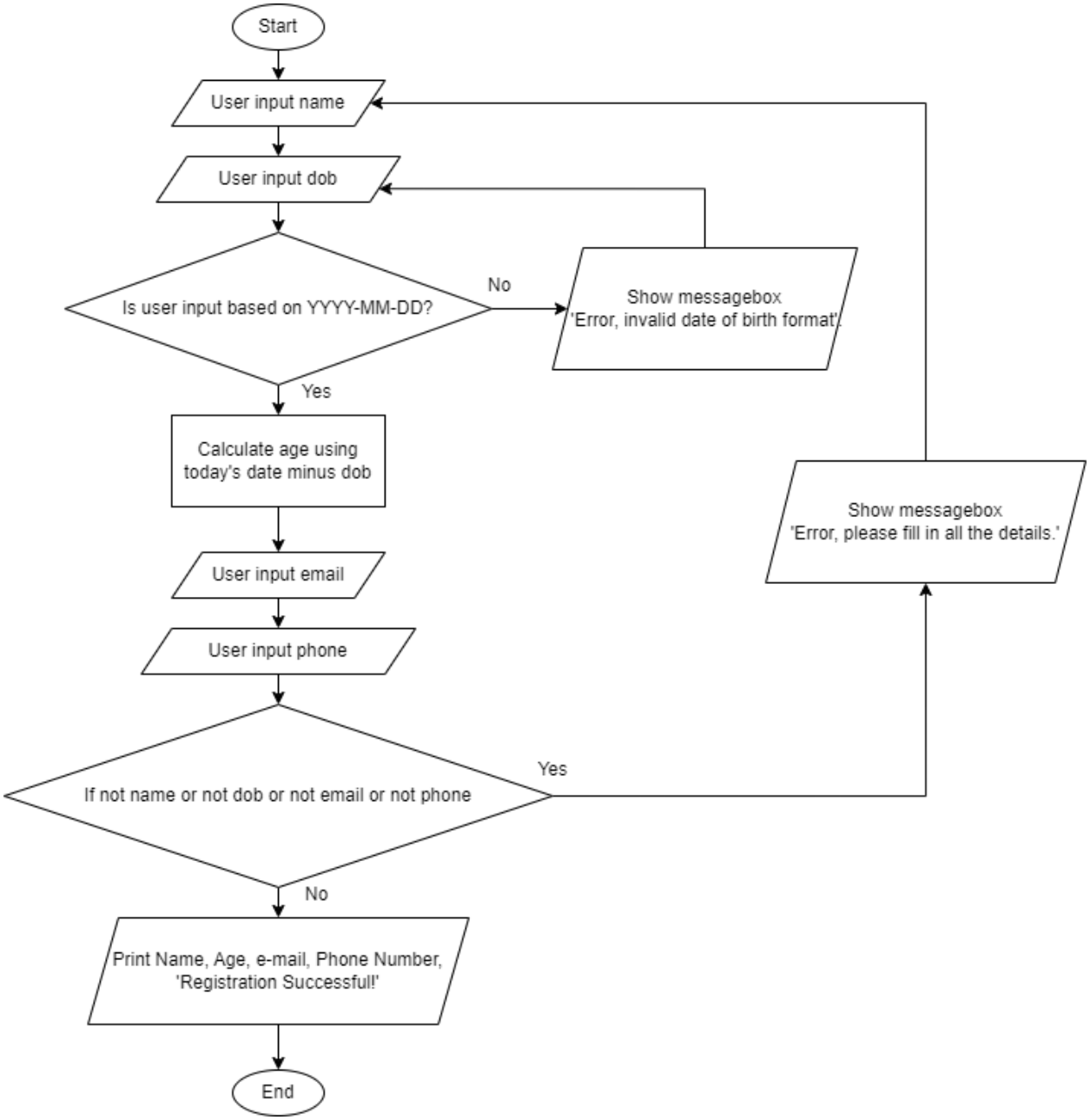
1.0 INTRODUCTION

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 make 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.

2.0 FLOWCHART



3.0 SCREENSHOTS

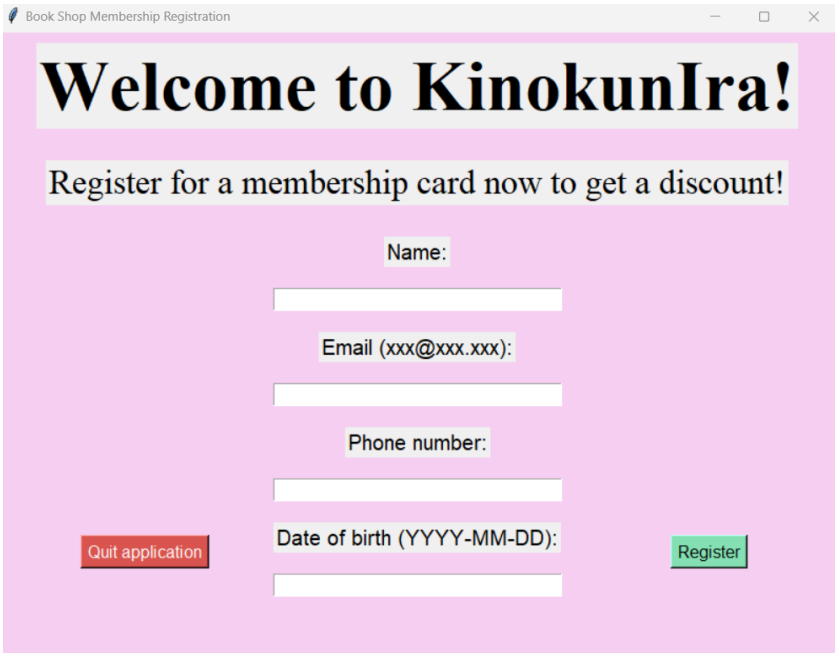
3.1 CODING

Ira_Membership.py

```python
import tkinter as tk
from tkinter import messagebox
from datetime import date
import mysql.connector

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
    try:
        dob_date = date.fromisoformat(dob)
        age = (date.today() - dob_date).days // 365
    except ValueError:
        messagebox.showerror("Error", "Invalid Date of Birth format.")
        return

    # Validate input
    if not name or not dob or not email or not phone:
        messagebox.showerror("Error", "Please fill in all fields.")
        return
    else:
        # Display registration information
        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("Age:", age)
        print("Email:", email)
        print("Phone:", phone)

    # Establish a connection to the MySQL server
    mydb = mysql.connector.connect(
        host="localhost",
        user="root",
        password="",
        database="ira_membership"
    )

    # Create a cursor object to interact with the database
    cursor = mydb.cursor()

    # Inserting data into a table
    sql = "INSERT INTO `user info` (user_name, user_dob, user_email, user_phone) VALUES (%s, %s, %s, %s)"
    val = (name, dob, email, phone)

    try:
        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()
```

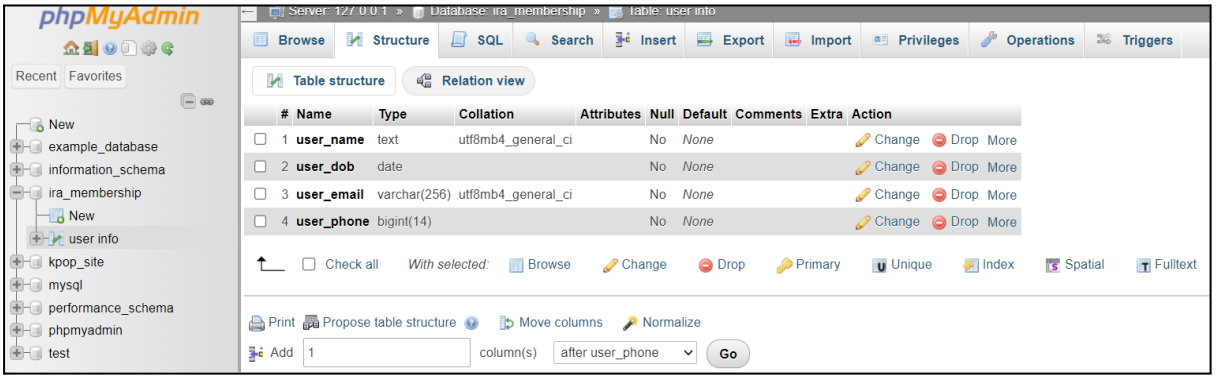
```python
# Create the main window
root = tk.Tk()

# Set window title
root.title("Book Shop Membership Registration")

# Set the window size and position
root.geometry("800x600+400+300")

# Set background color
root.configure(bg="#F5CEF2")

# Create and configure the labels with a different font and color
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:", font=("Arial", 15), bg="#f0f0f0")
label_dob = tk.Label(root, text="Date of birth (YYYY-MM-DD):", font=("Arial", 15), bg="#f0f0f0")

# Create and configure the entry widgets with a larger font and width
entry_name = tk.Entry(root, font=("Arial", 12), width=30)
entry_email = 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 with a larger font and different color
register_button = tk.Button(root, text="Register", command=register_member, font=("Arial", 12), bg="#84e0b3", fg="black")

# Create and configure the quit button
quit_button = tk.Button(root, text="Quit application", command=quit_application, font=("Arial", 12), bg="#d9534f", fg="white")

# Place the labels, entry widgets, and button on the window using pack and place
label_title.pack(pady=10)
label_subtitle.pack(pady=20)
label_name.pack(pady=10)
entry_name.pack(pady=10)
label_email.pack(pady=10)
entry_email.pack(pady=10)
label_phone.pack(pady=10)
entry_phone.pack(pady=10)
label_dob.pack(pady=10)
entry_dob.pack(pady=10)
register_button.place(relx=0.8, rely=0.8)
quit_button.place(relx=0.1, rely=0.8)

# Run the Tkinter event loop
root.mainloop()

```

3.2 GRAPHICAL USER INTERFACE (GUI)



3.3 DATABASE

3.3.1 Table structure



3.3.2 The data browsing page