



UNIVERSITI TEKNOLOGI MARA

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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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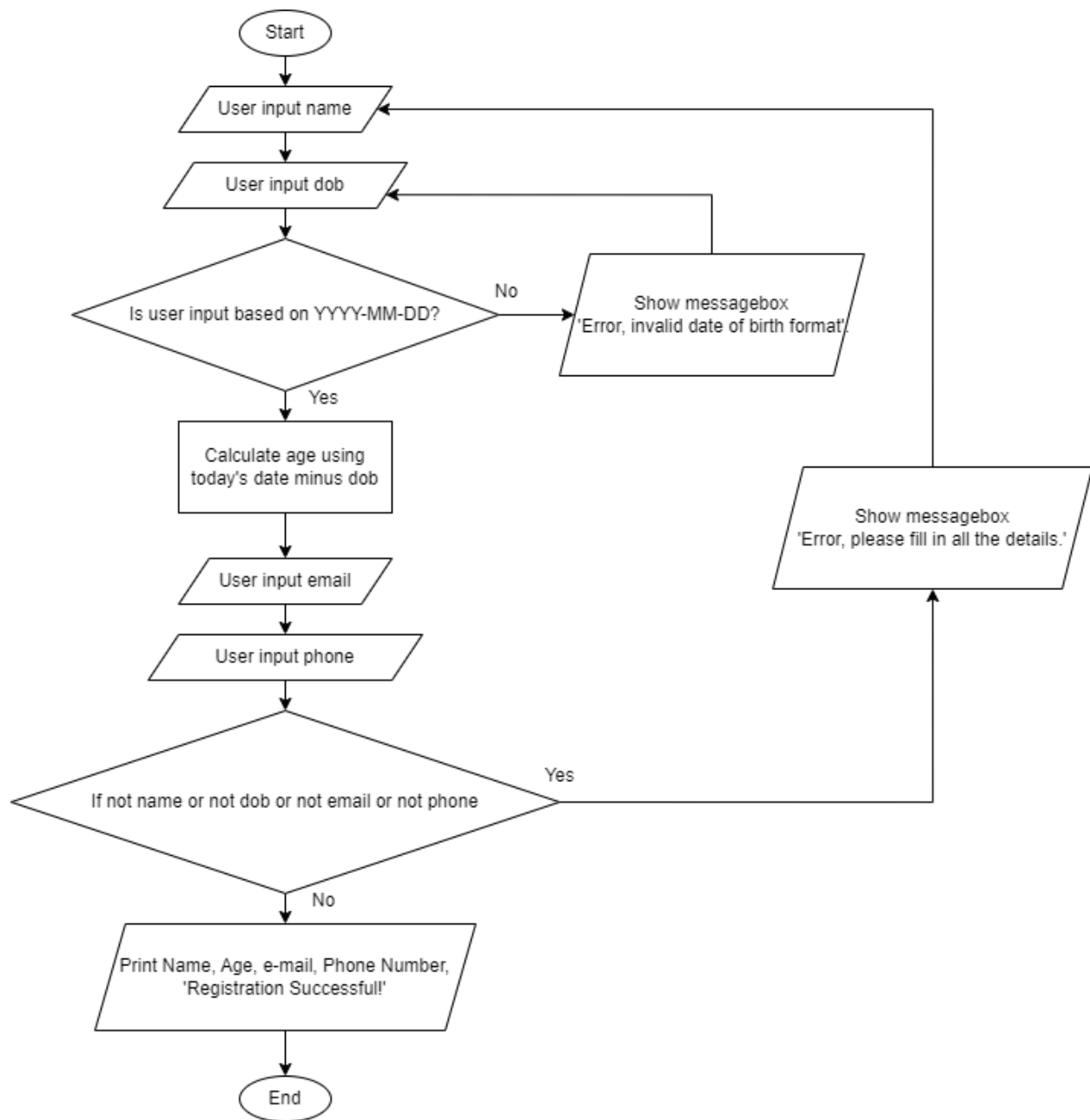
1.0 INTRODUCTION

To start, 'Kinokunlra 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 X
Ira_Membership.py > register_member
1  import tkinter as tk
2  from tkinter import messagebox
3  from datetime import date
4  import mysql.connector
5
6  def register_member():
7      name = entry_name.get()
8      dob = entry_dob.get()
9      email = entry_email.get()
10     phone = entry_phone.get()
11
12     # Convert dob to date and calculate age
13     try:
14         dob_date = date.fromisoformat(dob)
15         age = (date.today() - dob_date).days // 365
16     except ValueError:
17         messagebox.showerror("Error", "Invalid Date of Birth format.")
18         return
19
20     # Validate input
21     if not name or not dob or not email or not phone:
22         messagebox.showerror("Error", "Please fill in all fields.")
23         return
24     else:
25         # Display registration information
26         registration_info = f"Name: {name}\nAge: {age}\nEmail: {email}\nPhone number: {phone}"
27         messagebox.showinfo("Registration Successful", registration_info)
28         print("Registration Successful!")
29         print("Name:", name)
30         print("Age:", age)
31         print("Email:", email)
32         print("Phone:", phone)
33
34     # Establish a connection to the MySQL server
35     mydb = mysql.connector.connect(
36         host="localhost",
37         user="root",
38         password="",
39         database="ira_membership"
40     )
41
42     # Create a cursor object to interact with the database
43     cursor = mydb.cursor()
44
45     # Inserting data into a table
46     sql = "INSERT INTO `user info` (user_name, user_dob, user_email, user_phone) VALUES (%s, %s, %s, %s)"
47     val = (name, dob, email, phone)
48
49     try:
50         cursor.execute(sql, val)
51         mydb.commit()
52         print("Data inserted successfully!")
53
54     except mysql.connector.Error as err:
55         print(f"Error: {err}")
56         mydb.rollback()
57
58     cursor.close()
59     mydb.close()
60
61 def quit_application():
62     root.destroy()
```

```

64 # Create the main window
65 root = tk.Tk()
66
67 # Set window title
68 root.title("Book Shop Membership Registration")
69
70 # Set the window size and position
71 root.geometry("800x600+400+300")
72
73 # Set background color
74 root.configure(bg="#F5CEF2")
75
76 # Create and configure the labels with a different font and color
77 label_title = tk.Label(root, text="Welcome to KinokunIra!", font=("Times New Roman", 50, 'bold'))
78 label_subtitle = tk.Label(root, text="Register for a membership card now to get a discount!", font=('Times New Roman', 25))
79 label_name = tk.Label(root, text="Name:", font=("Arial", 15), bg="#f0f0f0")
80 label_email = tk.Label(root, text="Email (xxx@xxx.xxx):", font=("Arial", 15), bg="#f0f0f0")
81 label_phone = tk.Label(root, text="Phone number:", font=("Arial", 15), bg="#f0f0f0")
82 label_dob = tk.Label(root, text="Date of birth (YYYY-MM-DD):", font=("Arial", 15), bg="#f0f0f0")
83
84 # Create and configure the entry widgets with a larger font and width
85 entry_name = tk.Entry(root, font=("Arial", 12), width=30)
86 entry_email = tk.Entry(root, font=("Arial", 12), width=30)
87 entry_phone = tk.Entry(root, font=("Arial", 12), width=30)
88 entry_dob = tk.Entry(root, font=("Arial", 12), width=30)
89
90 # Create and configure the register button with a larger font and different color
91 register_button = tk.Button(root, text="Register", command=register_member, font=("Arial", 12), bg="#84e0b3", fg="black")
92
93 # Create and configure the quit button
94 quit_button = tk.Button(root, text="Quit application", command=quit_application, font=("Arial", 12), bg="#d9534f", fg="white")
95
96 # Place the labels, entry widgets, and button on the window using pack and place
97 label_title.pack(pady=10)
98 label_subtitle.pack(pady=20)
99 label_name.pack(pady=10)
100 entry_name.pack(pady=10)
101 label_email.pack(pady=10)
102 entry_email.pack(pady=10)
103 label_phone.pack(pady=10)
104 entry_phone.pack(pady=10)
105 label_dob.pack(pady=10)
106 entry_dob.pack(pady=10)
107 register_button.place(relx=0.8, rely=0.8)
108 quit_button.place(relx=0.1, rely=0.8)
109
110 # Run the Tkinter event loop
111 root.mainloop()
112

```

3.2 GRAPHICAL USER INTERFACE (GUI)

Book Shop Membership Registration

Welcome to KinokunIra!

Register for a membership card now to get a discount!

Name:

Email (xxx@xxx.xxx):

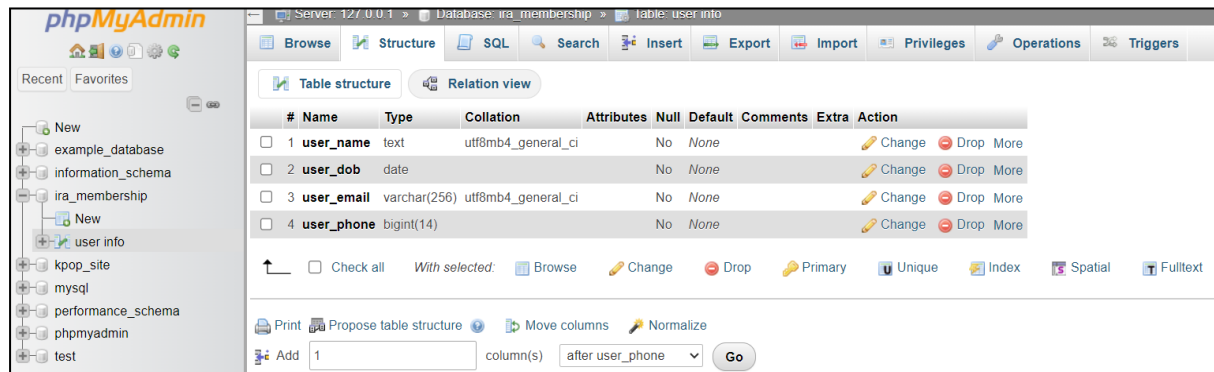
Phone number:

Date of birth (YYYY-MM-DD):

Quit application Register

3.3 DATABASE

3.3.1 Table structure

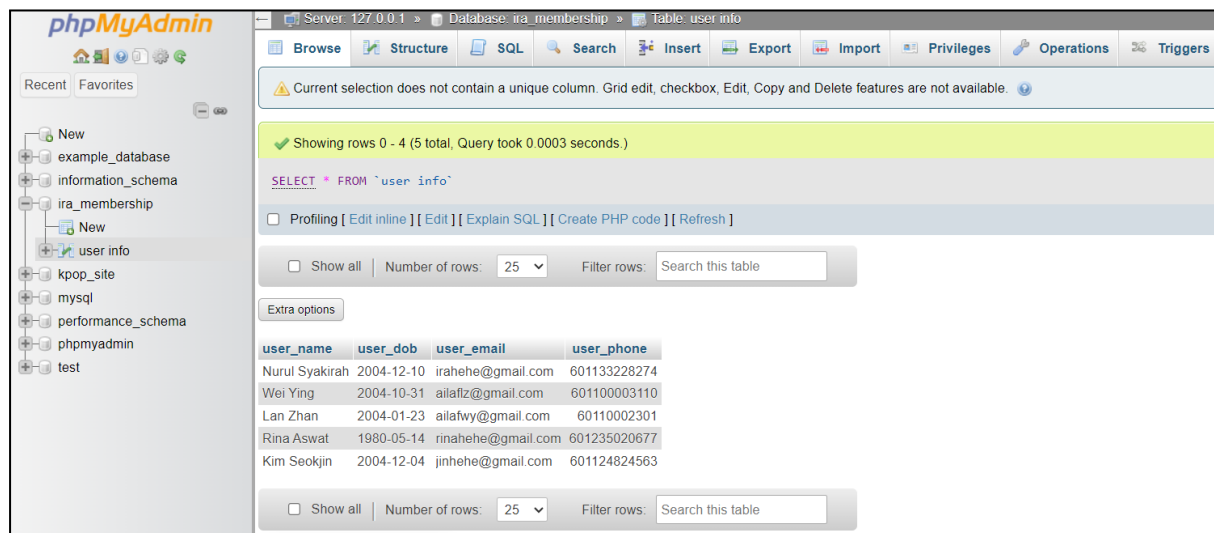


The screenshot shows the phpMyAdmin interface with the 'Table structure' view selected for the 'user info' table in the 'ira_membership' database. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	user_name	text	utf8mb4_general_ci		No	None			Change Drop More
2	user_dob	date			No	None			Change Drop More
3	user_email	varchar(256)	utf8mb4_general_ci		No	None			Change Drop More
4	user_phone	bigint(14)			No	None			Change Drop More

Below the table structure, there are options to 'Check all', 'With selected', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', 'Spatial', and 'Fulltext'. At the bottom, there is a 'Print' button, a 'Propose table structure' button, a 'Move columns' button, and a 'Normalize' button. A 'Go' button is also present.

3.3.2 The data browsing page



The screenshot shows the phpMyAdmin interface with the 'Table: user info' view selected. A warning message states: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' Below this, a green bar indicates 'Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)'. The SQL query shown is 'SELECT * FROM `user info`'. There are links for 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'. Below the query, there are options to 'Show all', 'Number of rows: 25', and 'Filter rows: Search this table'. An 'Extra options' button is also present. The table data is as follows:

user_name	user_dob	user_email	user_phone
Nurul Syakirah	2004-12-10	irahehe@gmail.com	601133228274
Wei Ying	2004-10-31	ailafz@gmail.com	601100003110
Lan Zhan	2004-01-23	ailafvy@gmail.com	60110002301
Rina Aswat	1980-05-14	rinahehe@gmail.com	601235020677
Kim Seokjin	2004-12-04	jinhehe@gmail.com	601124824563

At the bottom, there are options to 'Show all', 'Number of rows: 25', and 'Filter rows: Search this table'.