

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

UNIVERSITI TEKNOLOGI MARA (UiTM)
CAWANGAN KEDAH, KAMPUS SUNGAI PETANI

DIPLOMA IN LIBRARY INFORMATIC (CDIM144)

PROGRAMMING FOR LIBRARIES (IML208)

"INDIVIDUAL ASSIGNMENT: REPORT"

PREPARED BY:

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CLASS: KCDIM144 3E

PREPARED FOR:

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SUBMISSION DATE: 4th JANUARY 2024

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ACKNOWLEDGEMENT

Assalamualaikum w.b.t

First and foremost, I want to thank Allah (SWT) for giving me the strength and patience I needed to do this assignment. I would not have made it this far without the help of the Almighty. I always put up a lot of effort to provide a quality assignment, with all of my responsibilities and devotion.

Next, my assignment would not have been finished correctly without the advice of my lecturer, Sir Airul Shazwan bin Norshahimi, thus I would like to show my gratitude to him. He is always there to help and advise me on how to do my assignment successfully. As I worked on this project, He served as a great source of inspiration for me. I also want to thank him for the lessons he gave me in this course. I also want to thank my roommates for the minor assistance they provided me with this assignment.

Lastly, I would like to express my gratitude to my supportive family especially my mother and eldest brother for their support and prayers, which have helped me to this point. I hope that my final grades will reflect that our effort was worthwhile. I've gained fresh information from this assignment that I didn't know before. I'm hoping to use this knowledge in the future.

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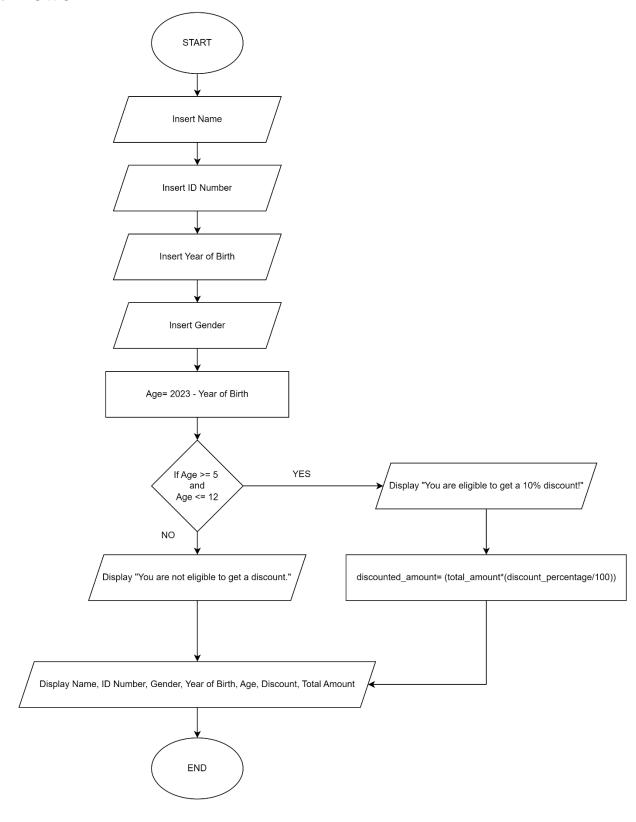
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1.0 INTRODUCTION

For this individual assignment, I create a taekwondo registration form system for the user that contains attributes like name, ID number, gender, year of birth, age, discount, and total amount. This system required the user to insert all the member information in the form to register. There is indeed a calculation after the user submits the information, whereby the year of birth generates age for the user without the need to insert it out in the form. Other than that, after the age is generated, the discount will be calculated to determine whether the age is eligible to get a discount. For the discount, only members between 5 to 12 years old can get a discount of 10%. If the age of the member is 13 or older, they are not eligible to get the discount. Please note that this registration does not accept children under the age of 5.

After all the processes are complete, all the member's information will be added and saved into the database for the owner's records. Therefore, this system will simplify and smooth the member registration process for both users and owners.

2.0 FLOWCHART



3.0 SNAPSHOT OF PYTHON CODE

Connection to "sql" that does not fit in the snapshot.

```
44 1 your selection (Name, ID Number, Gender, Year of born) and 7 attributes that derived from your attributes (age, discount & total amount)
45 ) Member_Information (Name, ID_Number, Gender, Year_of_Born, Age, Discount, Total_Amount) VALUES (%s, %s, %s, %s, %s, %s, %s, %s, %s, %s)"
46 jender, YOB, Age, discount_percentage, discounted_amount)
47 ;ql, val)
```

```
# To Print back The output. It will happen in the function collect_data(). The f before the string indicates an f-string in Python.

output_label.config(text=f"(eligibility_message)\n\n"
f"Name: {Name}, ID Number: {ID}, Gender: {Gender}\n"
f"Year of Born: {YoB}, Age: {Age}, Discount: {discount_percentage}%, Total Amount: RM {discounted_amount}\n\n"
f"THANK YOU")

# Your Main window, You need to have the title, geometry (MUST)
root = tk.Tk()
root.title("Registration Form")
frame = tk.Frame(root)
frame.grid(row=0, column=0)

# Page Title
Label1.grid(row=0, column=0, sticky= "n", padx= 55)

#Member_info
Member_info = tk.LabelFrame(root, text="Member Information", font=("Impact", 10))
Member_Name_label.grid(row=1, column=0)

Member_Name_label.grid(row=1, column=0)
Member_Name_entry = tk.Entry(Member_Info)
Member_Name_entry = tk.Entry(Member_Info)
Member_Name_entry = tk.Entry(Member_Info)
Member_Name_entry = tk.Entry(Member_Info)
Member_Name_entry.grid(row=1, column=1)
```

```
Member_ID_label = tk.Label(Member_Info, text="ID Number")

Member_ID_label.grid(row= 2, column= 0)

Member_ID_entry = tk.Entry(Member_Info)

Member_ID_entry.grid(row= 2, column= 1)]

## Gender_Label = tk.Label(Member_Info, text="Gender")

Gender_Label.grid(row= 2, column= 2)

## Trip Type Dropdown

Member_Gender_var = tk.StringVar(Member_Info)

Member_Gender_var.set("Choose your Gender") # Default value before your selection

## Member_Gender_dropdown = tk.OptionNenu(Member_Info, Member_Gender_var, "Male", "Female")

Member_Gender_dropdown.grid(row= 3, column= 2, pady=10)

Member_YOB_label = tk.Label(Member_Info, text="Year of Birth")

Member_YOB_label.grid(row= 3, column= 0)

Member_YOB_entry = tk.Entry(Member_Info)

Member_YOB_entry = tk.Entry = tk.Entry = tk.Entry = tk.Ent
```

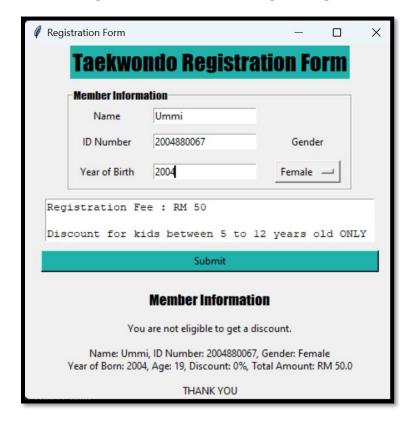
```
98 # Only to inform those who fill out this form
99 information_text = tk.Text(root, height=3, width=49)
100 information_text.grid(row= 4, column= 0)
101 information_text.insert(tk.END, "Registration Fee : RM 50 \n\n")
102 information_text.insert(tk.END, "Discount for kids between 5 to 12 years old ONLY")
103
104 # Button
105 button = tk.Button(root, text="Submit", command= collect_data, bg= "lightseagreen")
106 button.grid(row= 5, column= 0, sticky="news", padx= 20, pady= 10)
107
108 # Output Label & result
109 label.grid(ipadx=10, ipady=10)
110 output_label = tk.Label(root, text="Member Information', font=("Impact",13))
110 label.grid(ipadx=10, ipady=10)
111 output_label.grid()
112 root.mainloop()
```

4.0 SNAPSHOT OF GRAPHICAL USER INTERFACE (GUI)

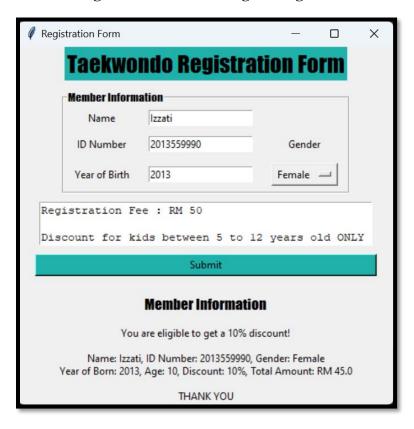
4.1 GUI before the form is inserted with the member's information



4.2 GUI after inserting a member who is not eligible to get a discount

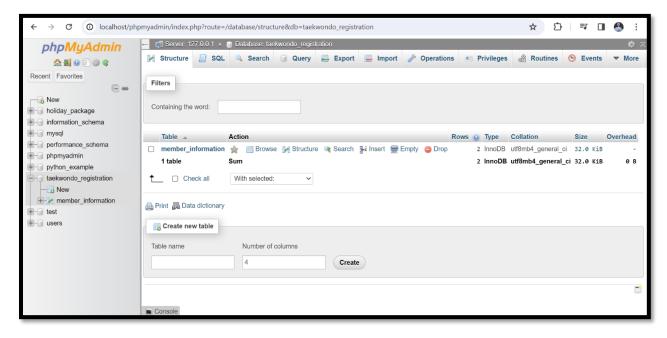


4.3 GUI after inserting a member who is eligible to get a 10% discount



5.0 SNAPSHOT OF DATABASE

Database of taekwondo_registration



Attributes in the member_information table

