

UNIVERSITI TEKNOLOGI MARA

KEDAH BRANCH

SCHOOL OF INFORMATION SCIENCE COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

DIPLOMA IN LIBRARY INFORMATICS (IM 144)

IML 208: PROGRAMMING FOR LIBRARIES

INDIVIDUAL PROJECT: 5K RUN REGISTRATION

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TABLE OF CONTENT

TAB	BLE OF CONTENT	2
1.0	INTRODUCTION	1
2.0	FLOWCHART	2
3.0	SNAPSHOOT OF PROGRAMM CODE	3
4.0	SNAPSHOOT OF GUI	6
5.0	SNAPSHOOT OF DATABASE	7
6.0	CONCLUSION	8

1.0 INTRODUCTION

This project is focused on running event registration called "5K Run Registration Form". The main objective of creating this program is to make it easy for someone who likes to engage in running activities. This running event will attract people from various age levels to join because of the discount that has been providing for the fee registration.

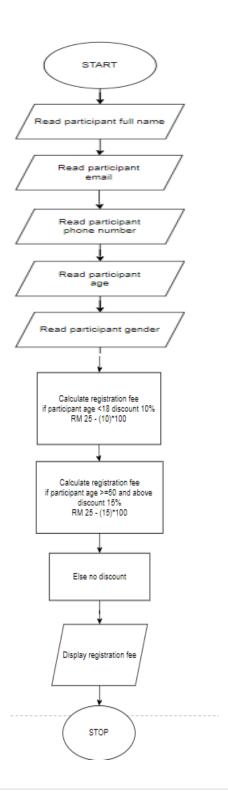
The fee registration for the 5K Run is only RM 25 but participants aged under 18 will get a 10% discount and a 15% discount for participants aged 50 and above.

To make this programme I use 6 attributes to save all the information about participants and also the required registration fee. The example of attributes that I used is participant full name, email, phone number, age, gender and registration fee.

The calculation of fee registration in this registration form was based on participant age. The fee registration for the 5K Run is only RM 25 but participants aged under 18 will get a 10% discount and a 15% discount for participants aged 50 and above. This registration form is open for participant age 12 until 70.

2.0 FLOWCHART

This flowchart shows the process of registration of the 5K Run Registration event. The calculation include in the registration process is a 10% discount on participants age under 18 and a 15% discount on participants aged 50 and above.



3.0 SNAPSHOOT OF PROGRAMME CODE

```
1 #firstly, import tkinter as tk,
2 #and then import tkinter as ttk to use the comobox for gender
3 #and lastly import mysql.connector to make sure it will connect to database
4 import tkinter as tk
5 from tkinter import ttk
6 import mysql.connector
7 # Connect to your MySQL database
8 mydb = mysql.connector.connect(
9
           host="localhost",
            user="root",
10
           password="",
database="5k_run_registration_form"
11
12
13
14
15 # Create a cursor object to execute SQL queries
16 mycursor = mydb.cursor()
```

Figure 1

```
19
20
21
22
23
        def collect_data():
              participant_full_name = participant_full_name_entry.get()
              print("Full Name: ", participant full name)
participant_email = participant_email_entry.get()
print("Email: ", participant_email)
24
25
              participant_phone_no = int (participant_phone_no_entry.get())
print ("Phone Number: ", participant_phone_no )
participant_age = int(participant_age_spinbox.get())
26
27
28
29
30
              print("Age: ", participant_age)
participant_gender = participant_gender_combobox.get()
print("Gender:", participant_gender)
registration_fee = 25 #registration fee
print ("Your registration fee is RM", registration_fee)
31
32
33
34
35
36
37
              def calculate_fee():
    registration_fee = 25  # Default registration fee
                      if participant_age < 18:
                           registration_fee = 25 - (0.1 * 25) # 10% discount for participant age under 18
39
40
41
                      elif participant age >= 50:

registration_fee = 25 - (0.15 * 25) # 15% discount for participant age 50 and above
                      return registration_fee
               fee_value = calculate_fee()
```

Figure 2

Figure 3

```
# the big title for the form page

| alabel = tk.Label(root, text='SK RUN REGISTRATION', font=("Baskerville Old Face", '14', "bold"), bg="light blue")

| alabel_grid(row=0, column=0, padx=10, pady=10)

| frame = tk.Frame(root, bg="light blue")

| frame.grid(row=1, column=0)

| Participant Information Frame
| participant_info_frame = tk.LabelFrame(frame, text="Participant Information", font=("Times New Roman", 11), bg="gray", width=300)

| participant_info_frame = tk.LabelFrame(frame, text="Participant Information", font=("Times New Roman", 11), bg="gray", width=300)

| participant_full_name = tk.Label(participant_info_frame, text="Full Name", font=("Times New Roman", 11), bg="gray")

| participant_full_name_entry = tk.Entry(participant_info_frame, width=27)

| participant_full_name_entry.grid(row=1, column=5)

| participant_email = tk.Label(participant_info_frame, text="Email", font=("Times New Roman", 11), bg="gray")

| participant_email_grid(row=2, column=6, padx=(0,5))

| participant_email_entry = tk.Entry(participant_info_frame, width=27)

| participant_email_entry = tk.Entry(participant_info_frame, width=27)

| participant_email_entry = tk.Label(participant_info_frame, text="Number Phone", font=("Times New Roman", 11), bg="gray")

| participant_email_entry_sid(row=2, column=5)

| participant_phone_no_entry_sid(row=3, column=6, padx=(0,5))

| participant_age_spinbon_entry_sid(row=3, column=6, padx=(0,5))

| participant_age_spinbox_grid(row=3, column=6, padx=(0,5))

| participant_age_spinbox_grid(row=3, column=6, padx=(0,5))

| participant_age_spinbox_grid(row=4, column=6, padx=(0,5))

| participant_age_spinbox_grid(row=4, column=6, padx=(0,5))

| participant_age_spinbox_grid(row=4, column=6, padx=(0,5))

| participant_age_spinbox_grid(row=4, column=6, padx=(0,
```

Figure 4

```
participant_gender = tk.Label(participant_info_frame, text="Gender", font=("Times New Roman", 11), bg="gray")
      participant_gender.grid(row=5, column=0, padx=(0,5))
      participant_gender_combobox = ttk.Combobox(participant_info_frame, width=25, values=["Male", "Female"])
participant_gender_combobox.grid(row=5, column=5)
108
       for widget in participant_info_frame.winfo_children():
    widget.grid_configure(padx=10, pady=6)
109
110
111
112
113 # Registration Fee and Discount Frame
      registration_fee_and_discount_frame = tk.LabelFrame(frame, text="Registration Fee and Discount", font=("Times New Roman", 11), bg="gray")
registration_fee_and_discount_frame.grid(row=5, column=0, padx=20, pady=10, rowspan=3, sticky="nsew")
114
115
      registration_fee = tk.StringVar()
118
      registration_fee_info = (
            "The registration fee is only RM25\n"
119
            "Participant age under 18 will get 10% discount\n"
"Participant age 50 and above will get 15% discount\n"
120
121
122
123
       label = tk.Label(registration_fee_and_discount_frame, textvariable=registration_fee, justify=tk.LEFT, font=("Times New Roman", 11), bg="white")
      label.grid(row=0, column=0, padx=10, pady=5)
registration_fee.set(registration_fee_info)
124
```

Figure 5

```
# Label to display the calculated registration fee
registration_fee_label = tk.Label(registration_fee_and_discount_frame, text="", font=("Times New Roman", 11), bg="gray")
registration_fee_label.grid(row=1, column=0, padx=10, pady=5)

# Register button for user to complete their registration process
register_button = tk.Button( text="Register", font=("Times New Roman", 11), bg="gray", command=collect_data)
register_button.grid(row=6, pady=20)
register_button.config

# Configure grid weights to make the frames expandable
frame.columnconfigure(0, weight=1)
frame.rowconfigure(0, weight=1)
root.mainloop()
```

Figure 6

4.0 SNAPSHOOT OF GUI

This GUI shows the form of 5K Run Registration. The participant information will save information about the user who wants to register. In participant information, the user needs to insert their full name, email, phone number, age, and gender.

After that, the participants can see the description of the registration fee and discount. This this part, it showed if the participant or user aged under 18 will get a 10% discount for the registration fee. Meanwhile, participants aged 50 and above will get a 15% discount for the registration fee. The use of this description is to let participant know the value of fee registration for the 5K Run and what kind of discount they will get.

When user click the "Register" button, it will automatically show the registration fee that the participant needs to pay and the registration process will be complete.



Figure 7: GUI of 5K Run Registration Form

5.0 SNAPSHOOT OF DATABASE

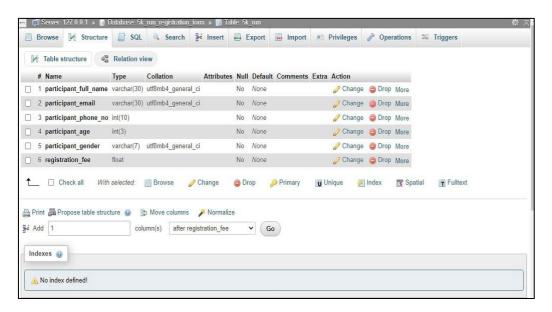


Figure 8: Structure of attributes in the table

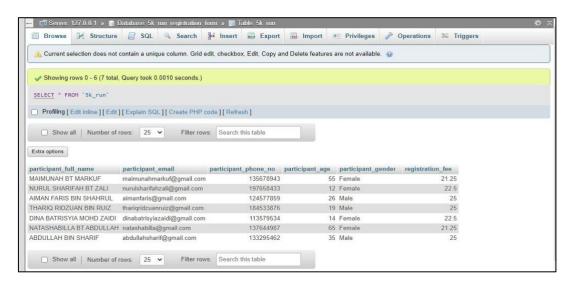


Figure 9: Participant Information

6.0 CONCLUSION

In the conclusion, this 5K Run Registration form will make someone who likes to engage in running event more active to join this kind of activity. This is because, this registration form will make their work easy to join because it's only need a few information and within single click they already successful to join the event.

Moreover, with various level of age that open within 12 years old until 100 years old citizen are open for this event. With this it will make the event very lively. The discount of fee registration is also will bring a good feedback by citizen who want to join.