



COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS
UNIVERSITI TEKNOLOGI MARA (UITM), KAMPUS SUNGAI PETANI

DIPLOMA IN LIBRARY INFORMATICS (CDIM144)

PROGRAMMING FOR LIBRARIES (IML208)

ASSIGNMENT: INDIVIDUAL ASSIGNMENT

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SUBMISSION DATE: WEEK 12

ASSIGNMENT: INDIVIDUAL ASSIGNMENT

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ACKNOWLEDGMENT

First and foremost, I want to give thanks and gratitude to the Almighty God for giving me the courage to do my assignment with His favor. I would like to extend my sincere gratitude to everyone who gave me the chance to finish this assignment. With the time allotted in the work plan, I was able to do this job in the end.

In addition, I would like to thank Sir Airul Shazwan Bin Norshahimi for helping me understand the principles and for teaching how to do this project effectively. I'm very appreciative to my classmate for constantly offering me guidance while creating tasks and providing me with more information. I was able to add ideas to my assignment with their assistance. My family is also the most significant person in my life because they constantly encourage me to finish my task.

Last but not least, I would like express my gratitude to University Teknologi Mara (UiTM) campus Sungai Petani for providing me with the opportunity to write this project using the proper format.

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1.0 INTRODUCTION

My task for this assignment is to develop and create a basic computer interface that consists of CR (Create and Read). The "Purchase Special Class Ticket Interface" that I develop consists of two operations which is, create and read.

Interface

Customers who wish to purchase a ticket to join the "Special Class" can do so through this portal. Class Chess, Class Music, and Class Art are the three categories that make up this "Special Class". Students of all ages are welcome to enroll these classes. Initially, the customer must input their name, phone number, address, age, preferred class type, ticket value, and click "calculate total."

Calculation

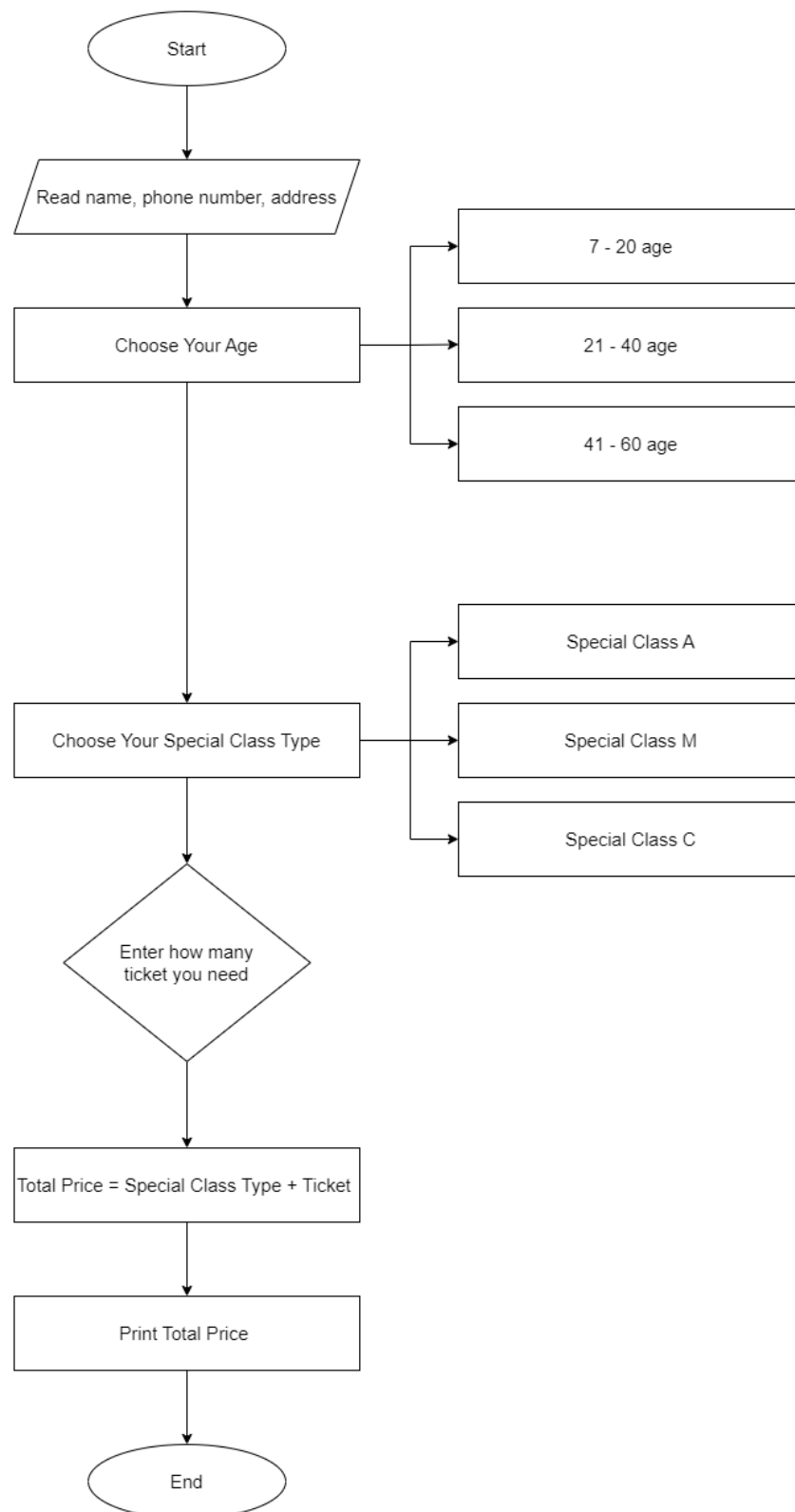
Multiplication is the computation I performed using this interface. The customer must input the number of the ticket they wish to purchase after selecting their preferred class type. I have multiplied "special class type" and "ticket" in this particular multiplication operation. After the process of multiplication, the final price will be determined. The calculating process cannot determine the total cost if the consumer does not enter the "ticket" value.

Flowchart

I utilise a variety of symbols in my flowcharts, including start, stop, input, output, process, decision, and flow direction. To allow the consumer to read what the interface wants them to enter, I put the start symbol first, then the input and wrote "Read name, phone number, address".

The customer can then select their age and class to move on to the next step by using the process symbols for "Age" and "Special Class Type" that I have used. In addition, I utilise the choice symbol "Ticket" to ask customers how many tickets they would want to buy. It is possible for an individual to purchase multiple tickets, as they may choose to gift tickets to their friends. I then calculate the "Total Price" and "Print Total Price" using the process symbol once more. Finally, I use the end symbol to let the customer know how much the total cost will be.

2.0 FLOWCHART



3.0 PYTHON CODE

```
class_ticket.py > collect_data
1 import tkinter as tk
2 import mysql.connector
3
4 # Connect to your MySQL database
5 mydb = mysql.connector.connect(
6     host="localhost",
7     user="root",
8     password="",
9     database="special_class_ticket"
10 )
11
12 # Create a cursor object to execute SQL queries
13 mycursor = mydb.cursor()
14
15
16 # Function to handle the calculation and database saving
17 def collect_data():
18     user_name = user_name_entry.get()
19     user_phone_number = int(user_phone_number_entry.get())
20     user_address = user_address_entry.get()
21     user_age = user_age_label.get()
22     special_class_type = class_type_var.get()
23     ticket = int(ticket_package_entry.get())
24
25     # the price below is to defined the value from your selections
26     prices = {
27         "Special Class A": 200,
28         "Special Class M": 150,
29         "Special Class C": 100,
30     }
31
32     # Calculate the total price. This will be derived from your selection (Package, Pack)
33     total_price = prices[special_class_type] * int(ticket_package_entry.get())
34
35
36 # To insert your Data to your database.
37 sql = "INSERT INTO order_ticket (User_Name, User_Phone_Number, User_Address, User_Age, Special_Class_Type, Ticket, Total_Price) VALUES (%s, %s, %s, %s, %s, %s, %s)"
38 val = (user_name, user_phone_number, user_address, user_age, special_class_type, ticket, total_price)
39 mycursor.execute(sql, val)
40 mydb.commit()
41
42 # To print back the output.
43 output_label.config(text=f"Congratulation! Now You Can Join: {special_class_type}, Ticket: {ticket}, Total Price: RM{total_price}", bg="light blue", font=("Rockwell Condense", 12, "bold"))
44
45
46 # Main Window
47 root = tk.Tk()
48 root.title("Purchase Special Class Ticket")
49 root.geometry('500x700')
50 root.configure(bg="light blue")
51
52 # Page Title
53 label = tk.Label(root, text="HELLO ^-^ COME JOIN US", bg="light blue", font=("Showcard Gothic", 15, "bold",))
54 label.pack(ipadx=10, ipady=10)
55
56
57 # Prices List by using textbox
58 prices_text = tk.Text(root, bd=3, height=10, width=45)
59 prices_text.pack(pady=5)
60
61
62 # The defined list by using pricebox
63 prices_text.insert(tk.END, "Special Class and Prices:\n\n")
64 prices_text.insert(tk.END, "Special Class A: Art Class \nPrice: RM200\n\n")
65 prices_text.insert(tk.END, "Special Class M: Music Class \nPrice: RM150\n\n")
66 prices_text.insert(tk.END, "Special Class C: Chess Class \nPrice: RM100\n\n")
67 prices_text.configure(state='disabled')
68
69
```

```

class_ticket.py > ...
99
100 # Create name entry
101 user_name_label = tk.Label(root, text="Name:",bg="light blue", font=("Rockwell Condensed",13, "bold"))
102 user_name_entry = tk.Entry(root, bd=3)
103 user_name_label.pack(pady=5)
104 user_name_entry.pack(pady=5)
105
106 # Create phone entry
107 user_phone_number_label = tk.Label(root, text="Phone Number:", bg="light blue", font=("Rockwell Condensed",13, "bold"))
108 user_phone_number_entry = tk.Entry(root, bd=3)
109 user_phone_number_label.pack(pady=5)
110 user_phone_number_entry.pack(pady=5)
111
112 # Create address entry
113 user_address_label = tk.Label(root, text="Address:",bg="light blue", font=("Rockwell Condensed",13, "bold"))
114 user_address_entry = tk.Entry(root, bd=3)
115 user_address_label.pack(pady=5)
116 user_address_entry.pack(pady=5)
117
118 # Create age entry
119 user_age_label = tk.StringVar(root)
120 user_age_label.set("Choose Your Age") # Default value before your selection
121 trip_dropdown = tk.OptionMenu(root, user_age_label, "7-20 age", "21-40 age", "41-60 age")
122 trip_dropdown.pack(pady=5)
123
124 # Special Class Type Dropdown
125 class_type_var = tk.StringVar(root)
126 class_type_var.set("Choose Your Class") # Default value before your selection
127 trip_dropdown = tk.OptionMenu(root, class_type_var, "Special Class A", "Special Class M", "Special Class C")
128 trip_dropdown.pack(pady=5)
129
130

```

```

131
132 # Packs Entry
133 ticket_package_label = tk.Label(root, text="How many ticket do you need:", bg="light blue", font=("Rockwell Condensed",13, "bold"))
134 ticket_package_label.pack()
135 ticket_package_entry = tk.Entry(root)
136 ticket_package_entry.pack()
137
138 # Save Button
139 save_button = tk.Button(root, text="Calculate Total", bg="light blue", font=("Rockwell Condensed",13, "bold"), command=collect_data)
140 save_button.pack(pady=5)
141
142 # Output Label & result
143 label = tk.Label(root, text="Ticket Price:", bg="light blue", font=("Rockwell Condensed",13, "bold"))
144 label.pack(ipadx=10, ipady=10)
145 output_label = tk.Label(root, text="")
146 output_label.pack()
147
148
149 root.mainloop()
150

```


4.0 GRAPHICAL USER INTERFACE (GUI)

Purchase Special Class Ticket

HELLO ^-^ COME JOIN US

Special Class and Prices:

Special Class A: Art Class
Price: RM200

Special Class M: Music Class
Price: RM150

Special Class C: Chess Class
Price: RM100

Name:

Phone Number:

Address:

Choose Your Age

Choose Your Class

How many ticket do you need:

Calculate Total

Ticket Price:

HELLO ^-^ COME JOIN US

Special Class and Prices:

Special Class A: Art Class
Price: RM200

Special Class M: Music Class
Price: RM150

Special Class C: Chess Class
Price: RM100

Name:

Phone Number:

Address:

Choose Your Age

7-20 age

21-40 age

41-60 age

How many tickets do you need:

Calculate Total

Ticket Price:

Purchase Special Class Ticket

HELLO ^-^ COME JOIN US

Special Class and Prices:

Special Class A: Art Class
Price: RM200

Special Class M: Music Class
Price: RM150

Special Class C: Chess Class
Price: RM100

Name:

Phone Number:

Address:

Choose Your Age

Choose Your Class

How

Special Class A

Special Class M

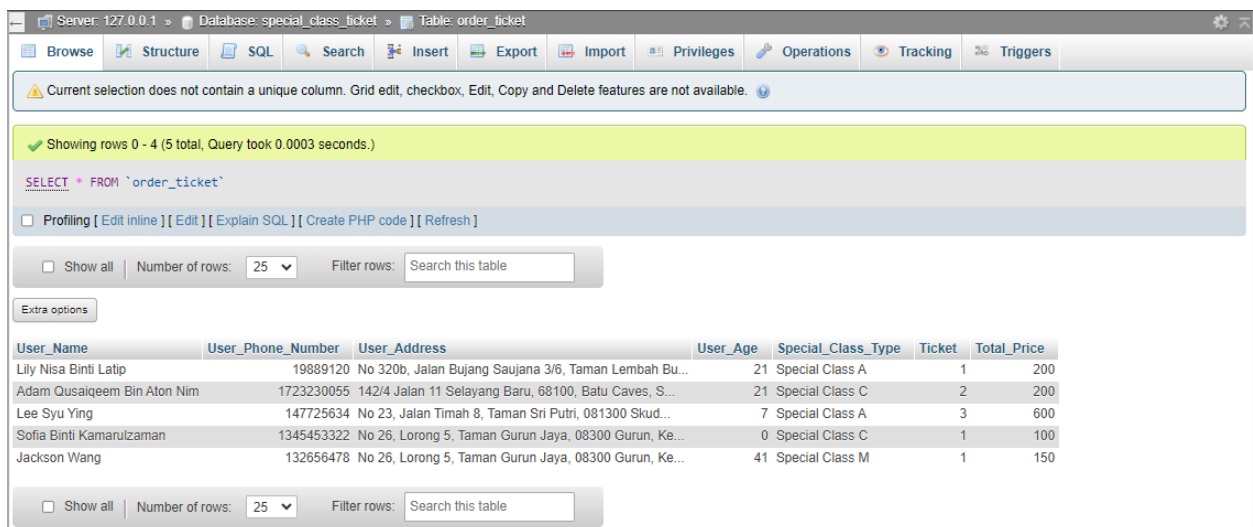
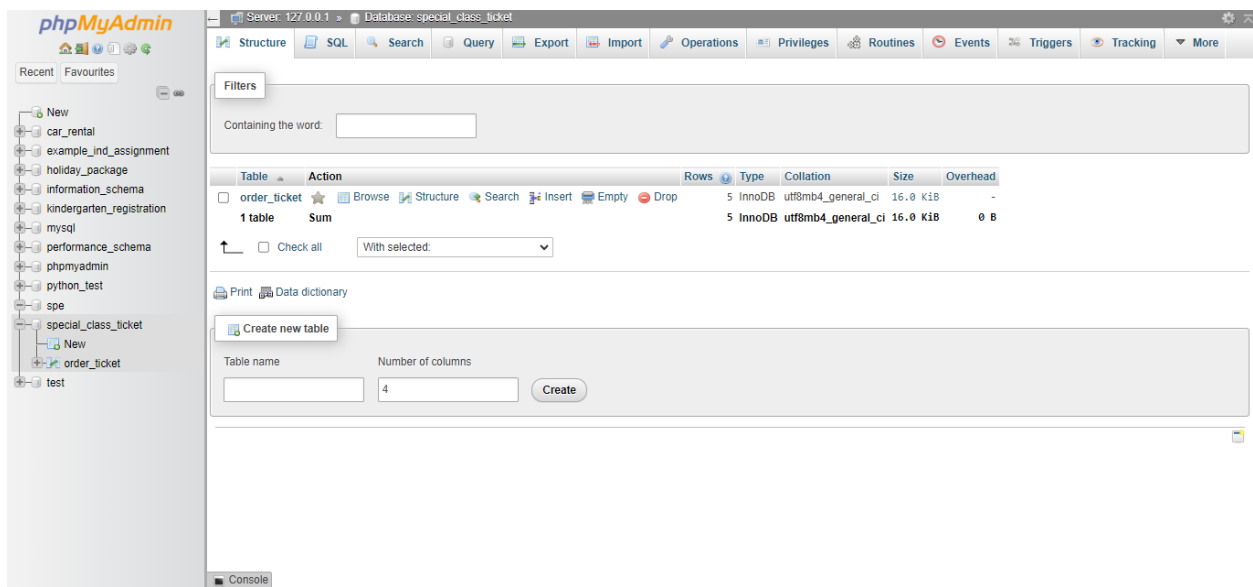
Special Class C

u need:

Calculate Total

Ticket Price:

6.0 DATABASE



Server: 127.0.0.1 » Database: special_class_ticket » Table: order_ticket

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 User_Name	text	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	2 User_Phone_Number	int(10)			No	None			Change Drop More
<input type="checkbox"/>	3 User_Address	text	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	4 User_Age	int(3)			No	None			Change Drop More
<input type="checkbox"/>	5 Special_Class_Type	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	6 Ticket	int(100)			No	None			Change Drop More
<input type="checkbox"/>	7 Total_Price	int(5)			No	None			Change Drop More

☐ Check all
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Spatial](#)
[Fulltext](#)
[Add to central columns](#)

[Remove from central columns](#)

6.0 CONCLUSION

My understanding of and proficiency with Python GUI creation has really enhanced as a result of this project. The lecture materials that were handed out in class and the sample Python code that the lecturer demonstrated are really beneficial. I won't be able to finish this particular project without it.

Finally, I would want to express my sincere gratitude to my instructor and other students. My classmate assisted in the development of this interface and the resolution of the terminal issue. I'm hoping to get better at writing Python code so I can make a beautiful graphical user interface.