UNIVERSITI TEKNOLOGI MARA

KAMPUS SUNGAI PETANI, KEDAH

COLLEGE OF COMPUTING, INFOMATICS AND MEDIA

DIPLOMA IN LIBRARY INFORMATICS (CDIM144)

PROGRAMMING FOR LIBRARIES (IML208)

ASSIGNMENT 1: INDIVIDUAL PROJECT (T-SHIRT ORDERING)

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SUBMISSION DATE:

4 JANUARY 2024

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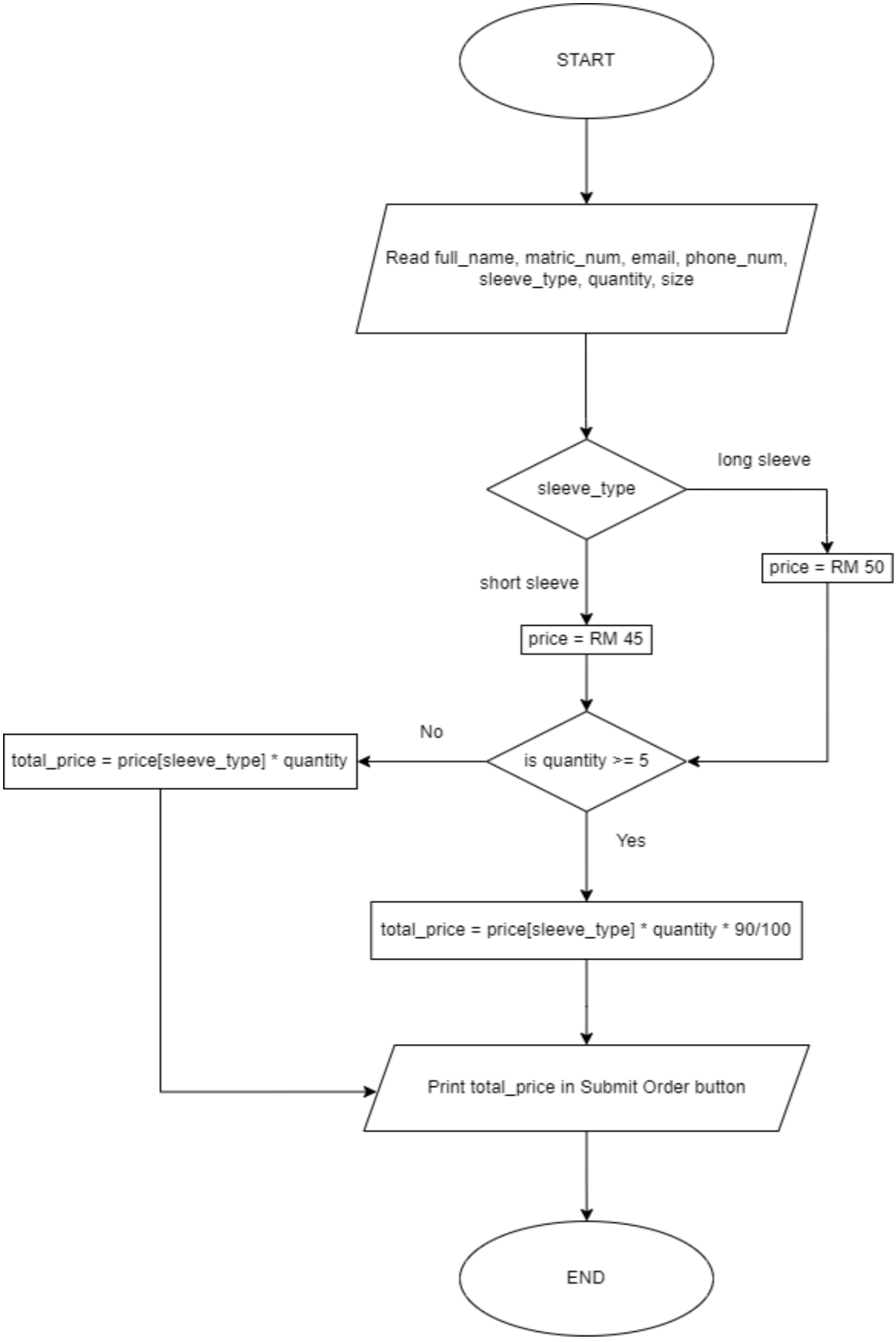
1.0 INTRODUCTION

The system that I created is T-shirt online ordering, specialize for UiTM student. In the GUI system, student needs to insert data in the ‘Customer Detail’ frame which are student full name, email, id student and phone number. Other than that, in ‘Oder Details’ frame, student has to choose the type of sleeve and size that has provided. Student also have to insert the quantity of shirt that they want to order. For the last frame which is ‘Price’, this is the place where student can get the total price of the order they make after click a ‘Submit Order’ button.

The calculation is the total price of the order, which involve sleeve type and quantity of t-shirt. The calculation in total price is the price of t-shirt based on sleeve type multiple by quantity (total price = price [sleeve type] * quantity). I also add the discount 10% for the student who order more than 5 quantities of t-shirt.

Additionally, the name of database is ‘tshirt_order’ and the table name in the database is ‘user_order_details’. The attributes in the table includes full name, phone number, sleeve type, size, quantity and total price. The data of student order are saved in the database.

2.0 FLOWCHART



3.0 CODING

```
#NAME: NURUL IZZATY BINTI MAT NAZER
#ID STUDENT: 2022839016
#CLASS: KIM1443B
#PROGRAM TITTLE: T-SHIRT ORDERING

import tkinter as tk
import mysql.connector


#Connect to MySQL database
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="tshirt_order"
)

#Create a cursor object to exercute SQL queries
mycursor = mydb.cursor()


#To enter the data
def collect_data():
    #Funtion to calculate and database saving
    full_name = full_name_entry.get()
    phone_num = phone_num_entry.get()

    sleeve_type = sleeve_type_var.get()
    quantity = int(quantity_entry.get())
    size = size_var.get()


    #  The price below is to defined the value from your selections
    price = {
        "Short Sleeve": 45,
        "Long Sleeve": 50,

    }

    # Calculate the total price with discount provided. If user buy tshirt
more than 5, user get discount 10%.
    if quantity >= 5:
        total_price = (price[sleeve_type] * quantity * 90/100)

    else:
        total_price = (price[sleeve_type] * quantity)
```

```
    # To insert your Data to your database, as for this example, you have 3
attributes. (2 Attributes from your selection (Package, Pack) and other
attributes that derived from your attributes (price))
    sql = "INSERT INTO user_order_details(Full_Name, Phone_Num, Sleeve_Type,
Size, Quantity, Total_Price) VALUES (%s, %s,%s,%s,%s,%s)"
    val = (full_name, phone_num, sleeve_type, size, quantity, total_price)
    mycursor.execute(sql, val)
    mydb.commit()

    # 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"Sleeve: {sleeve_type}, Quantity: {quantity},
Total Price: RM{total_price}")


root = tk.Tk()
root.title("Tshirt Order")

frame = tk.Frame(root)
frame.configure(bg='#ffd1dc')
frame.pack()


#Create a heading
orderheading = tk.Label(frame, text="T-SHIRT ORDER", font=('Algerian', 20),
bg='#ffd1dc', fg='black')
orderheading.grid(row=0, column=0)

# User Detail Frame
customer_detail_frame =tk.LabelFrame(frame, text="Customer Details",
font=('Britannic Bold',11), bg='#ffd1dc', fg='black')
customer_detail_frame.grid(row=1, column=0, padx=20, pady=10)

full_name_label = tk.Label(customer_detail_frame, text="Full Name",
font=('Arial Nova', 10, 'bold'), bg='#ffd1dc', fg='black')
full_name_label.grid(row=0, column=0)
full_name_entry = tk.Entry(customer_detail_frame)
full_name_entry.grid(row=1, column=0)


matric_num_label = tk.Label(customer_detail_frame, text= "ID Student",
font=('Arial Nova', 10, 'bold'), bg='#ffd1dc', fg='black')
matric_num_label.grid(row=2, column=0)
matric_num_entry = tk.Entry(customer_detail_frame)
matric_num_entry.grid(row=3, column=0)
```

```
email_label = tk.Label(customer_detail_frame, text="Email", font=('Arial
Nova', 10, 'bold'), bg='#ffd1dc', fg='black')
email_label.grid(row=0, column=1)
email_entry = tk.Entry(customer_detail_frame)
email_entry.grid(row=1, column=1)


phone_num_label = tk.Label(customer_detail_frame, text="Phone Number",
font=('Arial Nova', 10, 'bold'), bg='#ffd1dc', fg='black')
phone_num_label.grid(row=2, column=1)
phone_num_entry = tk.Entry(customer_detail_frame)
phone_num_entry.grid(row=3, column=1)


for widget in customer_detail_frame.winfo_children():
    widget.grid_configure(padx=15, pady=5)


#Saving Order Detail
order_frame = tk.LabelFrame(frame, text="Order Details", font=('Britannic
Bold',11), bg='#ffd1dc', fg='black')
order_frame.grid(row=2, column=0, sticky="news", padx=20, pady=10)


#Sleeve Type Dropdown (Label)
sleeve_type= tk.Label(order_frame, text="Choose Type of Sleeve", font=('Arial
Nova', 9, 'bold'), bg='#ffd1dc', fg='black')
sleeve_type.grid(row=1, column=0)

#Sleeve Type Dropdown
sleeve_type_var = tk.StringVar()
sleeve_type_var.set("Sleeve Type")
sleeve_dropdown = tk.OptionMenu(order_frame, sleeve_type_var, "Short Sleeve",
"Long Sleeve")
sleeve_dropdown.grid(row=1, column=1)

#Quantity
quantity_label = tk.Label(order_frame, text="Quantity", font=('Arial Nova', 9,
'bold'), bg='#ffd1dc', fg='black')
quantity_label.grid(row=2, column=0)
quantity_entry= tk.Entry(order_frame)
quantity_entry.grid(row=3, column=0)

#Size Dropdown (Label)
size_label = tk.Label(order_frame, text="Size", font=('Arial Nova', 9,
'bold'), bg='#ffd1dc', fg='black')
size_label.grid(row=2, column=1)
```

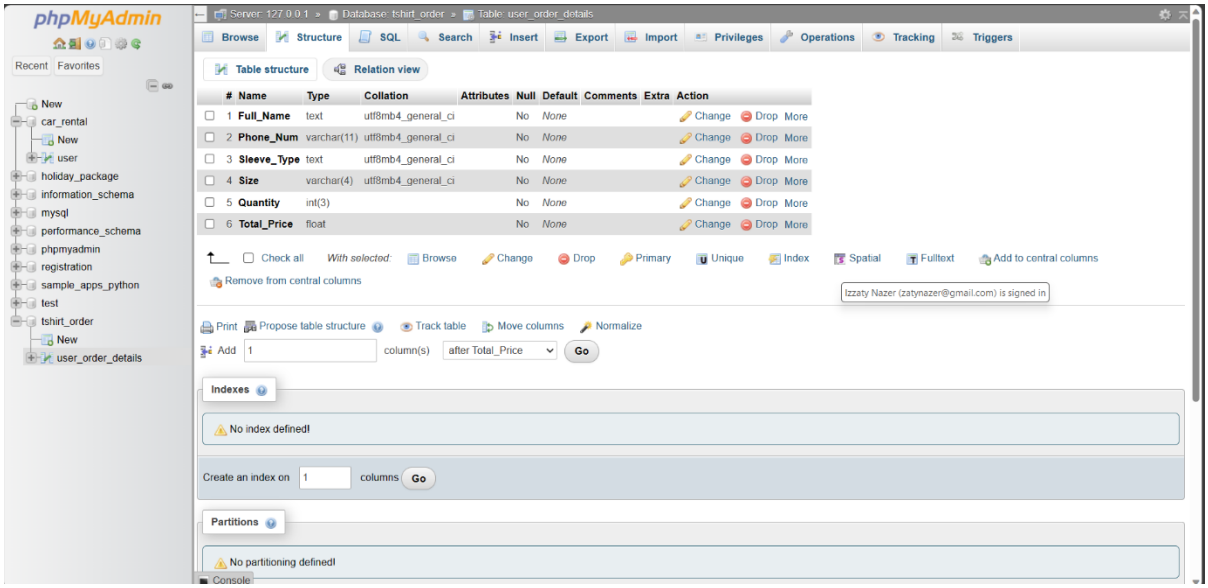
```
#Size Dropdown
size_var = tk.StringVar()
size_var.set("Size")
size_dropdown = tk.OptionMenu(order_frame, size_var, "XS", "S", "M", "L",
"XL", "2XL", "3XL", "4XL", "5XL")
size_dropdown.grid(row=3, column=1)


for widget in order_frame.winfo_children():
    widget.grid_configure(padx=15, pady=5)

#Price
price_frame = tk.LabelFrame(frame, text="Price", font=('Britannic Bold',11),
bg='#ffd1dc', fg='black')
price_frame.grid(row=3, column=0, sticky="news", padx=20, pady=10)

#Output Label & Result
label = tk.Label(price_frame, text="Total Price", font=('Arial Nova', 9,
'bold'), bg='#ffd1dc', fg='black')
label.grid(row=2, column=0)
output_label = tk.Label(price_frame, text="" , bg='#ffd1dc', fg='black')
output_label.grid()

for widget in price_frame.winfo_children():
    widget.grid_configure(padx=15, pady=5)

#Button
submit_button = tk.Button(frame, text="Submit Order", font=('Britannic
Bold',11), bg='#ffb7c3', fg='black', command=collect_data)
submit_button.grid(row=4, column=0, sticky="news", padx=20, pady=10)

root.mainloop ()
```

4.0 GUI


Tshirt Order
T-SHIRT ORDER
Customer Details
Full Name
Email
ID Student
Phone Number
Order Details
Choose Type of Sleeve
Sleeve Type
Quantity
Size
Size
Price
Total Price
Submit Order

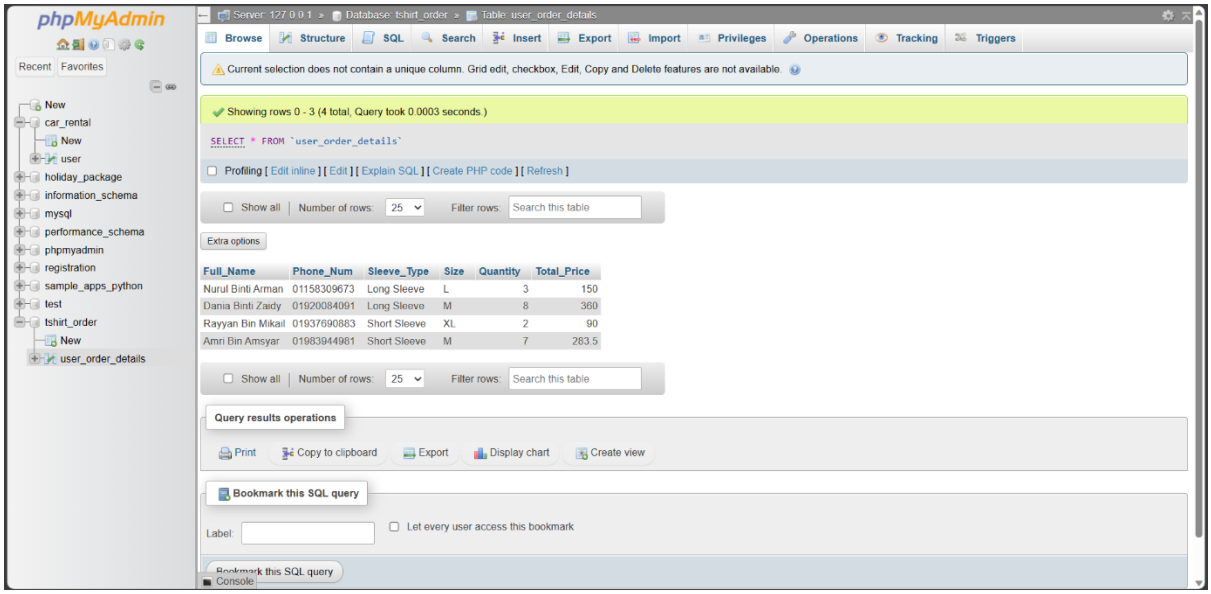
5.0 DATABASE

5.1 Attributes that are included in the database.



	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	**Full_Name**	text	utf8mb4_general_ci		No	*None*			Change Drop More
☐	2	**Phone_Num**	varchar(11)	utf8mb4_general_ci		No	*None*			Change Drop More
☐	3	**Sleeve_Type**	text	utf8mb4_general_ci		No	*None*			Change Drop More
☐	4	**Size**	varchar(4)	utf8mb4_general_ci		No	*None*			Change Drop More
☐	5	**Quantity**	int(3)			No	*None*			Change Drop More
☐	6	**Total_Price**	float			No	*None*			Change Drop More

5.2 Data student order that has been saved in the database.



Full_Name	Phone_Num	Sleeve_Type	Size	Quantity	Total_Price
Nurul Binti Arman	01158309673	Long Sleeve	L	3	150
Dania Binti Zaidy	01920084091	Long Sleeve	M	8	360
Rayyan Bin Mikail	01937690883	Short Sleeve	XL	2	90
Amri Bin Amsyar	01983944981	Short Sleeve	M	7	283.5

6.0 CONCLUSION

In conclusion, the system goes well and functioning. Student can make an order using this system easily. On top of that, student also can get the total price after click the submit order button. Additionally, while doing this project I get to learn and explore new things. I get to create my own system and solve every problem until the system is functioning smoothly.