UNIVERSITI TEKNOLOGI MARA,

MERBOK, KEDAH

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

(CDIM144)

PROGRAMMING FOR LIBRARIES

(IML208)

INDIVIDUAL ASSIGNMENT :

HOTEL MANAGEMENT

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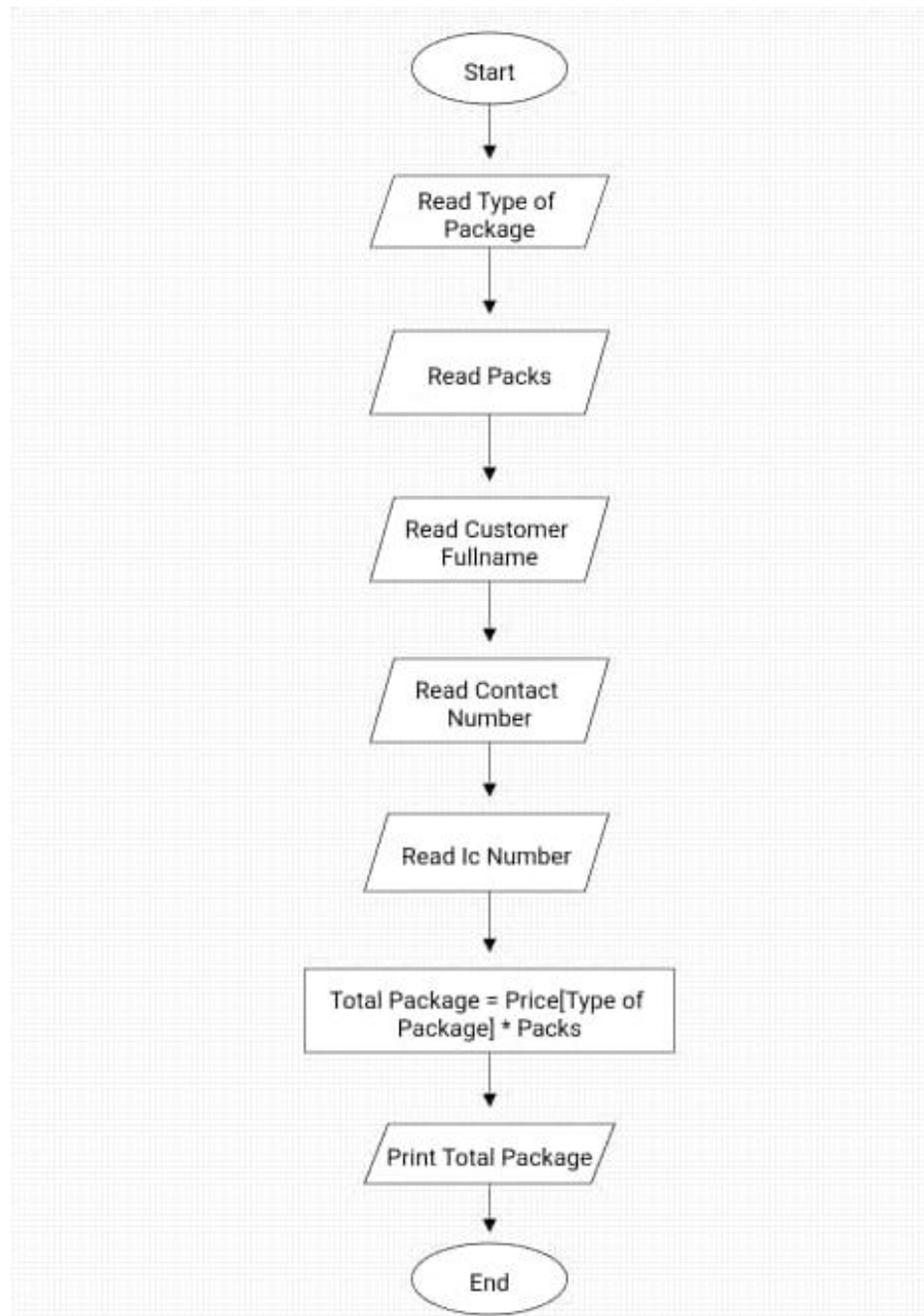UNIVERSITI TEKNOLOGI MARA

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1.0 INTRODUCTION

Hotel management refer to the administration, operation, and coordination of activities within a hotel or hospitality establishment. The primary goal of hotel management is to ensure the smooth functioning of all aspects of the hotel to provide a positive experience, create a welcoming and comfortable environment for guests and maximize profitability.

For this project, I have create a hotel management booking system. There are three different package that customer can choose from. To booking, customer need to fill the customer booking information that contains full name, contact number, Id number, the package that the customer choose, and packs. After they fill their information on the system, the price will be show. The price they will get when the package they choose will be multiplied by the number of packs they enter. These package are the special package for the family or newly married couple who want to enjoy their holiday especially on school holidays and others.

2.0 FLOWCHART OF THE HOTEL MANAGEMENT

3.0 CODE FOR HOTEL MANAGEMENT

```python
import tkinter as tk
from tkinter import ttk
import mysql.connector

# CONNECT MYSQL DATABASE
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="hotel_management"
)
```

```python
# CURSOR OBJECT TO EXECUTE SQL QUERIES
mycursor = mydb.cursor()
```

```python
# Function to handle the calculation and database saving
def collect_data():
    Type_Of_Package = (Type_of_Package_combobox.get())
    Packs = int(Packs_entry.get())
    Customer_Name = Customer_Name_entry.get()
    contact_number = Contact_Number_entry.get()
    Ic_number = Ic_Number_entry.get()
```

```python
    #  the price below is to defined the value from your selections
    Package_prices = {
        "Package A": 650,
        "Package B": 500,
        "Package C": 750,

    }

    # Calculate the total price. This will be derived from your
selection (Package, Pack).
    Total_Price = (Package_prices[Type_Of_Package] * Packs)
    print(Total_Price)
```

```python
    # INSERT DATA TO DATABASE
    sql = "INSERT INTO hotel_booking (Type_Of_Package, Packs,
Customer_Name, Contact_number, Ic_number, Total_Price) VALUES
(%s, %s, %s,%s,%s,%s)"
    val = (Type_Of_Package, Packs, Customer_Name, contact_number,
Ic_number, Total_Price)
```

```python
    mycursor.execute(sql, val)
    mydb.commit()
```

```python
    #Function to collect data
    output_label.configure(text=f"Type Of Package: {Type_Of_Package},
Family Packs: {Packs}, Customer Full Name {Customer_Name}, Contact
Number: {contact_number}, Ic Number: {Ic_number}, Total Package:
{Total_Price}")



 # Your Main window, You need to have the title, geometry (MUST)
root = tk.Tk()
root.title("Hotel Management")
root.geometry('600x800')
```

```python
frame = tk.Frame(root)
frame.pack()
```

```python
 # Page Title
label = tk.Label(root, text='HOTEL BOOKING', font=("ARIAL",14, "bold"))
label.pack(ipadx=10, ipady=10)

# Prices List by using textbox
prices_text = tk.Text(root, height=10, width=45)
prices_text.pack(pady=20)

 # The defined list by using pricebox
prices_text.insert(tk.END, "Package & Prices:\n\n")
prices_text.insert(tk.END, "Package A: Spa and sauna \nPrice:
RM650\n\n")
prices_text.insert(tk.END, "Package B: Small kitchen \nPrice:
RM500\n\n")
prices_text.insert(tk.END, "Package C: Swimming pool and cuisine
\nPrice: RM700\n\n")
prices_text.configure(state='disabled')
```

```python
frame = tk.Frame(root)
frame.pack()

# Trip Type Dropdown (Label)
Hotel_Booking_frame=tk.LabelFrame(frame, text="Booking
Information",font=("arial",10,"bold"))
Hotel_Booking_frame.grid(row=7, column=0)
```

```python
Type_of_Package=tk.Label(Hotel_Booking_frame, text="Type Of Package")
Type_of_Package_combobox=ttk.Combobox(Hotel_Booking_frame,
values=["Package A", "Package B", "Package C"])
Type_of_Package.grid(row=9, column=0)
Type_of_Package_combobox.grid(row=9, column=1)
```

```python
Packs_label=tk.Label(Hotel_Booking_frame, text="Family Pack")
Packs_label.grid(row=11, column=0)
Packs_entry=tk.Entry(Hotel_Booking_frame)
Packs_entry.grid(row=11, column=1)
```

```python
Customer_Name_label=tk.Label(Hotel_Booking_frame, text="Customer Full
Name")
Customer_Name_label.grid(row=13, column=0)
Customer_Name_entry=tk.Entry(Hotel_Booking_frame)
Customer_Name_entry.grid(row=13, column=1)
```

```python
Contact_Number_label=tk.Label(Hotel_Booking_frame, text="Phone Number")
Contact_Number_label.grid(row=15, column=0)
Contact_Number_entry=tk.Entry(Hotel_Booking_frame)
Contact_Number_entry.grid(row=15, column=1)
```

```python
Ic_Number_label=tk.Label(Hotel_Booking_frame, text="Ic Number")
Ic_Number_label.grid(row=17, column=0)
Ic_Number_entry=tk.Entry(Hotel_Booking_frame)
Ic_Number_entry.grid(row=17, column=1)
```

```python
for widget in Hotel_Booking_frame.winfo_children():
    widget.grid_configure(padx=15, pady=10)
```

```python
# Save Button and calculate
save_button = tk.Button(root, text="Calculate", command=collect_data)
save_button.pack(pady=10)
```

```python
# Output label
label = tk.Label(root, text='Total Package', font=("Arial",12))
label.pack(ipadx=10, ipady=10)
output_label = tk.Label(root, text="")
output_label.pack()

root.mainloop()
```

4.0 GUI FOR HOTEL

5.0 DATABASE FOR GUI HOTEL MANAGEMENT

5.1 Structure

5.2 Browse

6.0 CONCLUSION

In conclusion, the hotel management booking system that I created are simple and easy to use. This system also functioning well and systematic. It is useful for the customer to book a special packages that are available in the hotel. Although the system I designed is not as sophisticated as other systems, I hope one day I will create a better and more advanced system in the future.