



UNIVERSITI TEKNOLOGI MARA,  
MERBOK, KEDAH

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS  
(CDIM144)

PROGRAMMING FOR LIBRARIES  
(IML208)

INDIVIDUAL ASSIGNMENT :  
HOTEL MANAGEMENT

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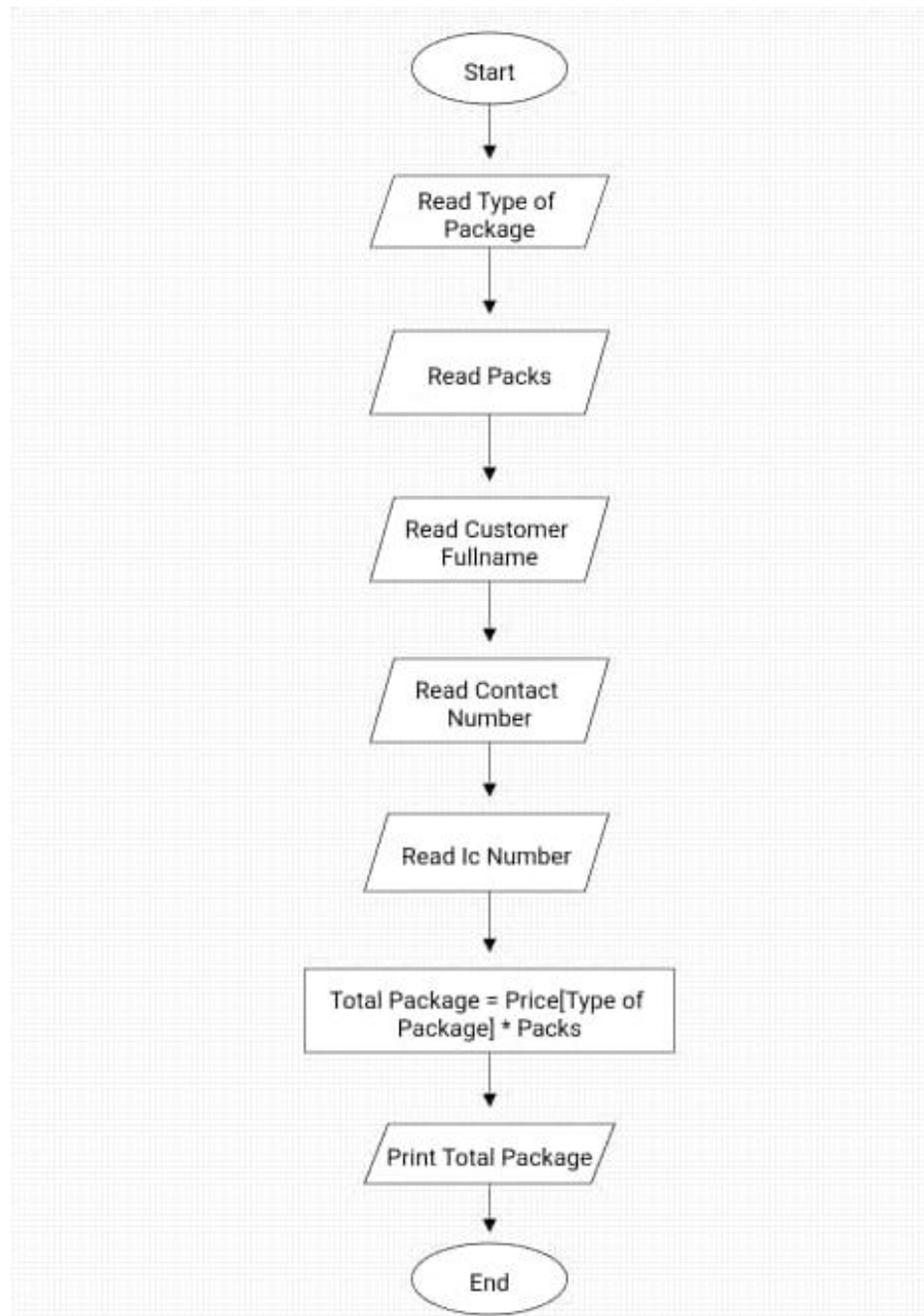
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## **1.0 INTRODUCTION**

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

```
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"
)
```

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

```
# 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()
```

```
# 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)
```

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

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

```
#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')
```

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

```
# 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')
```

```
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)
```

```
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)
```

```
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)
```

```
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)
```

```
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)
```

```
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)
```


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

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

```
# 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

 Hotel Management

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### HOTEL BOOKING

Package & Prices:

Package A: Spa and sauna  
Price: RM650

Package B: Small kitchen  
Price: RM500

Package C: Swimming pool and cuisine  
Price: RM700

#### Booking Information

Type Of Package

Family Pack

Customer Full Name

Phone Number

Ic Number

Calculate

Total Package



## 5.0 DATABASE FOR GUI HOTEL MANAGEMENT

### 5.1 Structure

The screenshot shows the phpMyAdmin interface with the 'hotel\_booking' table structure displayed. The table has six columns: Type\_Of\_Package, Packs, Customer\_Name, contact\_number, Ic\_Number, and Total\_Price. The interface includes a sidebar with a database tree, a top navigation bar, and a main content area with tabs for Table structure, Relation view, and other database operations.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	Type_Of_Package	char(9)	utf8mb4_general_ci		No	None			Change Drop More
2	Packs	int(2)			No	None			Change Drop More
3	Customer_Name	char(30)	utf8mb4_general_ci		No	None			Change Drop More
4	contact_number	varchar(11)	utf8mb4_general_ci		No	None			Change Drop More
5	Ic_Number	varchar(12)	utf8mb4_general_ci		No	None			Change Drop More
6	Total_Price	int(5)			No	None			Change Drop More

### 5.2 Browse

The screenshot shows the phpMyAdmin interface with the 'hotel\_booking' table in browse view. The table contains six rows of data. The interface includes a sidebar with a database tree, a top navigation bar, and a main content area with tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, and Triggers.

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 5 (6 total, Query took 0.0007 seconds.)

```
SELECT * FROM `hotel_booking`
```

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

Type_Of_Package	Packs	Customer_Name	contact_number	Ic_Number	Total_Price
Package B	3	Qistina Batrisya Binti Azman	01270912097	040210030872	1500
Package C	7	Rumaissa Adnin Binti Rusli	01128868179	030530011163	5250
Package A	5	Norhayati Binti Abdullah	01456789110	730906035059	3250
Package B	2	Muhammad Dani Bin Ahmad Nizam	0102347651	951029026051	1000
Package A	4	Nur Arisya Binti Talib	0122347651	990614035058	2600
Package B	3	Alif Daniel Bin Rasyid	0166327678	010125034323	1500

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

## **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.