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UNIVERSITI
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UNIVERSITI TEKNOLOGI MARA (UiTM) CAWANGAN KEDAH

FACULTY OF INFORMATION SCIENCE STUDIES

COLLEGE OF COMPUTING, INFORMATIONS AND MEDIA STUDIES

DIPLOMA IN LIBRARY INFORMATICS

(CDIM144)

PROGRAMMING FOR LIBRARIES

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ASSIGNMENT I: INDIVIDUAL PROJECT

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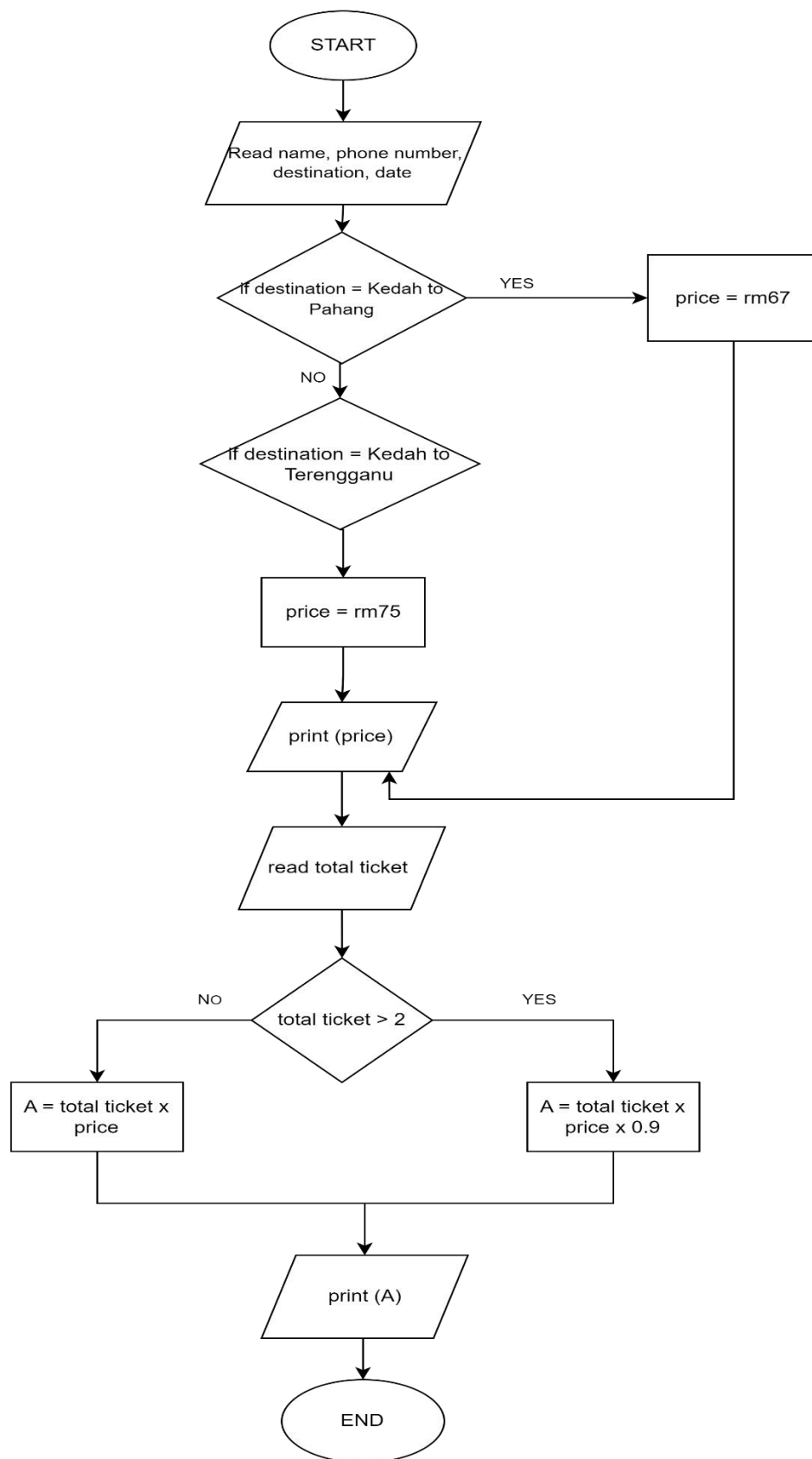
1.0 Introduction

I chose the title "online ticket bus" for my individual assignment. I created a program that provides a simple and accessible bus ticket booking platform. In order to make an online booking for a bus ticket, a customer must enter their detailed information, including their name and phone number.

Within this program, there are only two options for destinations: "Kedah to Pahang" and "Kedah to Terengganu". Since each option has a different price, customers should choose the one they like. Following that, they should select the date they want by clicking the "Pick Date" button, which enables the date picker to appear. In addition, this program uses the US date format, which begins with the month, date, and year.

Moreover, there is a 10% discount offered for purchases of three tickets or more, so customers may choose how many tickets they like to buy. Furthermore, the warning message box will show up if the customer does not select the destination and quantity ticket since the program will not be able to calculate the price. Once the customer completes all the required information and click 'Enter Data' button, the total price will be displayed at the bottom and all the customer's detail will record in the database.

2.0 Flowchart



3.0 Code program Python

```
File Edit Selection View Go Run ... source_code
OnlineTicketBus.py X assignment.py data_entry.py Holiday_Package.py
OnlineTicketBus.py > ...
1 import tkinter
2 from tkinter import ttk
3 from tkinter import messagebox
4 from tkcalendar import Calendar
5 import mysql.connector
6
7
8 # Connect to your MySQL database
9 mydb = mysql.connector.connect(
10     host="localhost",
11     user="root",
12     password="",
13     database="online_ticket_bus"
14 )
15
16 # Create a cursor object to execute SQL queries
17 mycursor = mydb.cursor()
18
19
20 root = tkinter.Tk()
21 root.title("Online Ticket Bus")
22
23
```

```
File Edit Selection View Go Run ... source_code
OnlineTicketBus.py X assignment.py data_entry.py Holiday_Package.py
OnlineTicketBus.py > ...
24 #ticket price
25 def enter_data():
26     destination = destination_combobox.get()
27     quantity_ticket_str = quantity_ticket_combobox.get()
28
29
30 # Check if quantity_ticket_str is not empty
31 if not quantity_ticket_str:
32     # Handle the case where the quantity is not provided
33     tkinter.messagebox.showwarning(title="Error", message="Quantity Ticket is required.")
34     return
35
36 quantity_ticket = int(quantity_ticket_str)
37
38
39 #destination
40 if destination == "Kedah to Pahang":
41     price = 67
42 elif destination == "Kedah to Terengganu":
43     price = 75
44 else:
45     tkinter.messagebox.showwarning(title="Error", message="Destination is required.")
46     return
```

```
File Edit Selection View Go Run ... source_code
OnlineTicketBus.py • assignment.py data_entry.py Holiday_Package.py
OnlineTicketBus.py > enter_data
46     return
47
48
49 #quantity ticket
50 if quantity_ticket > 2:
51     grand_total = quantity_ticket * price * 0.9 # 10% discount for 3 and above tickets
52 else:
53     grand_total = quantity_ticket * price
54
55 print('RM', grand_total)
56 output_label.config(text=f"Total Price: RM {grand_total}")
57
58
59 # To insert your Data to your database
60 sql = "INSERT INTO user_detail (Name, Phone_number, Destination, Date, Quantity_ticket, Total_price) VALUES (%s, %s, %s, %s, %s, %s)"
61 val = (name_entry.get(), phone_number_entry.get(), destination_combobox.get(), date_entry.get(), quantity_ticket_combobox.get(), grand_total)
62 mycursor.execute(sql, val)
63 mydb.commit()
64
```

```
File Edit Selection View Go Run ... source_code
OnlineTicketBus.py • assignment.py data_entry.py Holiday_Package.py
OnlineTicketBus.py > enter_data
64
65
66 #picker_calendar
67 def pick_date():
68     top = tkinter.Toplevel(root)
69     cal = Calendar(top, font="Arial 8", selectmode="day", locale="en_US")
70     cal.pack(fill="both", expand=True)
71
72     def on_date_selected():
73         date_label.set(cal.get_date())
74         top.destroy()
75
76     button_ok = tkinter.Button(top, text="OK", command=on_date_selected)
77     button_ok.pack()
78
79
80 frame = tkinter.Frame(root)
81 frame.pack()
82
83
```

```
File Edit Selection View Go Run ... source_code
OnlineTicketBus.py • assignment.py data_entry.py Holiday_Package.py
OnlineTicketBus.py > enter_data
79
80 frame = tkinter.Frame(root)
81 frame.pack()
82
83
84 # user detail
85 user_info_frame = tkinter.LabelFrame(frame, text="Booking Ticket")
86 user_info_frame.grid(row=0, column=0)
87
88 name_label = tkinter.Label(user_info_frame, text=" Name")
89 name_label.grid(row=0, column=0)
90 name_entry = tkinter.Entry(user_info_frame)
91 name_entry.grid(row=1, column=0)
92
93 phone_number_label = tkinter.Label(user_info_frame, text="Phone Number")
94 phone_number_label.grid(row=0, column=1)
95 phone_number_entry = tkinter.Entry(user_info_frame)
96 phone_number_entry.grid(row=1, column=1)
97
98
```

```
File Edit Selection View Go Run ... source_code
OnlineTicketBus.py • assignment.py data_entry.py Holiday_Package.py
OnlineTicketBus.py > enter_data
98
99 date_label = tkinter.Label(user_info_frame, text=" Date")
100 date_label.grid(row=2, column=1)
101 date_label = tkinter.StringVar()
102 date_entry = tkinter.Entry(user_info_frame, textvariable=date_label)
103 date_entry.grid(row=3, column=1)
104
105
106 #button to pick date
107 button_pick_date = tkinter.Button(user_info_frame, text="Pick Date", background= "grey", command=pick_date)
108 button_pick_date.grid(row=4, column=1)
109
110
111 destination_label = tkinter.Label(user_info_frame, text="Destination")
112 destination_combobox = ttk.Combobox(user_info_frame, values=["Kedah to Pahang", "Kedah to Terengganu"])
113 destination_label.grid(row=2, column=0)
114 destination_combobox.grid(row=3, column=0)
115
116
117 discount_label = tkinter.Label(user_info_frame, text='Purchase 3 ticket and above to get 10% off!!!!', font=("Times New Romans",9, "bold"))
118 discount_label.grid(row=5, column=0)
119
```

```
File Edit Selection View Go Run ... source_code
OnlineTicketBus.py • assignment.py data_entry.py Holiday_Package.py
OnlineTicketBus.py > enter_data
119
120
121 quantity_ticket_label = tkinter.Label(user_info_frame, text="Quantity Ticket")
122 quantity_ticket_combobox = ttk.Combobox(user_info_frame, values=["1", "2", "3", "4", "5", "6"])
123 quantity_ticket_label.grid(row=6, column=0)
124 quantity_ticket_combobox.grid(row=7, column=0)
125
126
127 prices_text = tkinter.Text(root, height=7, width=40)
128 prices_text.pack(pady=20)
129
130 prices_text.insert(tkinter.END, "Destination & Prices:\n\n")
131 prices_text.insert(tkinter.END, "Kedah to Pahang: \nPrice: RM67\n\n")
132 prices_text.insert(tkinter.END, "Kedah to Terengganu: \nPrice: RM75\n\n")
133
134
135
136 # Save Button
137 save_button = tkinter.Button(root, text="Enter Data", background="gray", command=enter_data)
138 save_button.pack(pady=10)
139
```

```
File Edit Selection View Go Run ... source_code
OnlineTicketBus.py • assignment.py data_entry.py Holiday_Package.py
OnlineTicketBus.py > enter_data
129
130 prices_text.insert(tkinter.END, "Destination & Prices:\n\n")
131 prices_text.insert(tkinter.END, "Kedah to Pahang: \nPrice: RM67\n\n")
132 prices_text.insert(tkinter.END, "Kedah to Terengganu: \nPrice: RM75\n\n")
133
134
135
136 # Save Button
137 save_button = tkinter.Button(root, text="Enter Data", background="gray", command=enter_data)
138 save_button.pack(pady=10)
139
140
141 # Output Label & result
142 label = tkinter.Label(root, text='Total Price', font=("Times New Romans",12))
143 label.pack(ipadx=10, ipady=10)
144 output_label = tkinter.Label(root, text="")
145 output_label.pack()
146
147
148 root.mainloop()
```


4.0 Graphical user interface (GUI)

Online Ticket Bus

Booking Ticket

Name

Phone Number

Destination

Date

Purchase 3 ticket and above to get 10% off!!!

Quantity Ticket

Destination & Prices:

Kedah to Pahang:
Price: RM67

Kedah to Terengganu:
Price: RM75

Total Price

Online Ticket Bus

Booking Ticket

Name	Phone Number
mark	0176534256
Destination	Date
Kedah to Pahang	2/29/24
	Pick Date

Purchase 3 ticket and above to get 10% off!!!

Quantity Ticket

3

Destination & Prices:

Kedah to Pahang:
Price: RM67

Kedah to Terengganu:
Price: RM75

Enter Data

Total Price

Total Price: RM 180.9

5.0 Database phpMyAdmin

The screenshot shows the phpMyAdmin interface with the 'Table structure' tab selected for the 'user_detail' table. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	Name	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More
2	Phone_number	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
3	Destination	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
4	Date	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
5	Quantity_ticket	int(1)			No	None			Change Drop More
6	Total_price	float			No	None			Change Drop More

Below the table structure, there are options to 'Check all', 'With selected', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', 'Spatial', and 'Fulltext'. There are also buttons for 'Add to central columns' and 'Remove from central columns'. At the bottom, there is a 'Console' section with the query: `> SELECT * FROM `user_detail``.

The screenshot shows the phpMyAdmin interface with the 'SQL' tab selected for the 'user_detail' table. The query `SELECT * FROM `user_detail`` has been executed, showing 7 rows. The data is as follows:

Name	Phone_number	Destination	Date	Quantity_ticket	Total_price
syahirah	0145292456	Kedah to Pahang	12/5/24	3	180.9
lee do hyun	0175292456	Kedah to Pahang	2/15/24	3	180.9
jennie	0115292456	Kedah to Pahang	3/7/24	2	134
kylie	0185292259	Kedah to Terengganu	3/7/24	1	75
izzati	0165347654	Kedah to Terengganu	1/1/24	1	75
syafiqah	0128976542	Kedah to Terengganu	1/10/24	1	75
mark	0176534256	Kedah to Pahang	2/29/24	3	180.9

Below the table, there are options to 'Show all', 'Number of rows: 25', and 'Filter rows: Search this table'. There is also a 'Console' section at the bottom.