UNIVERSITI TEKNOLOGI MARA

KEDAH BRANCH

SCHOOL OF INFORMATION SCIENCE

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

DIPLOMA IN INFORMATION MANAGEMENT (IM144)

IML208: PROGRAMMING FOR LIBRARIES

INDIVIDUAL ASSIGNMENT: REPORT ON HOTEL ROOM RESERVATION

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TITLE OF ASSIGNMENT:

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IM144 – DIPLOMA IN LIBRARY INFORMATION

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Assalamualaikum W.B.T

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Sincerely,

Nazhan

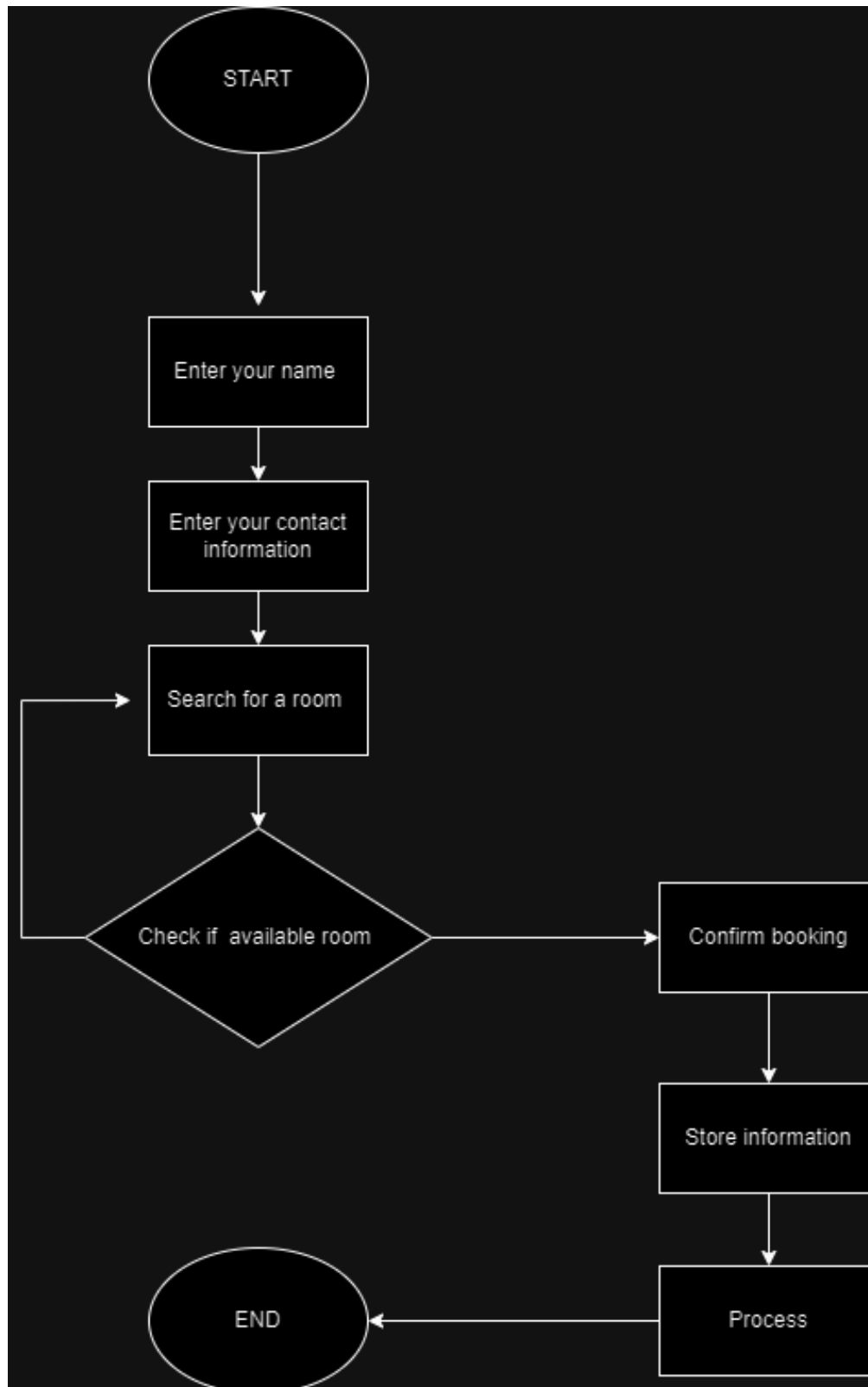MUHAMMAD NAZHAN SYAHMI BIN SAIFUL RIDZUAN

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KIM1442E

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1.0 Introduction

This Python code creates a basic hotel room booking GUI using the Tkinter framework. Inputting their name, contact details, age, email status, check-in and check-out dates, and agreeing to the terms and conditions, the user provides their information. Next, the entered data is inserted into the "hotel" MySQL database and printed to the terminal at the same time. Basic error handling for database connections and insertions is also included in the code.

2.0 Flowchart

START

Enter your name

Enter your contact information

Search for a room

Check if available room

Confirm booking

Store information

Process

END

3.0 Snapshot of code

```python
1  import tkinter
2  from tkinter import ttk
3  from tkinter import messagebox
4  import mysql.connector
5
6  #Connect ke database
7  mydb= mysql.connector.connect(
8      host="localhost",
9      user="root",
10     password="",
11     database="hotel"
12 )
13 mycursor= mydb.cursor()
14
15 # TERMINAL INFO #
16
17 def enter_data():
18     #  put the info in terminal #
19     first_name_label=first_name_entry.get()
20     print("first name:", first_name_label)
21
22     last_name_label=last_name_entry.get()
23     print("last name:", last_name_label)
24
25     contact_label=contact_entry.get()
26     print("contact:",contact_label)
27
28     room=room_spinbox.get()
```

```python
28     room=room_spinbox.get()
29     print("room:", room)
30
31     email=reg_status_var.get()
32     print("email status:", email)
33
34     checkin_label=checkin_spinbox.get()
35     print("check in date:", checkin_label)
36
37     checkout_label=checkout_spinbox.get()
38     print("check out date:", checkout_label)
39
40     terms_check=accept_var.get()
41     print("terms and condition:", terms_check)
42
43     accepted = accept_var.get()
44
45     if accepted=="Accepted":
46         # User info #
47         firstname = first_name_entry.get()
48         lastname = last_name_entry.get()
49
50         if firstname and lastname:
51             contact = contact_entry.get()
52             room = room_spinbox.get()
53
54
```

```python
55                 # Registration info #
56                 email = reg_status_var.get()
57                 checkin = checkin_spinbox.get()
58                 checkout = checkout_spinbox.get()
59
60                 print("First name: ", firstname, "Last name: ", lastname)
61                 print("Contact: ", contact, "Room: ", room)
62                 print("# Check in date: ", checkin , "# Check out date: ", checkout)
63                 print("Email status", email)
64                 print("--------------------------------------")
65             else:
66                 tkinter.messagebox.showwarning(contact="Error", message="First name and last name are required.")
67         else:
68             tkinter.messagebox.showwarning(contact= "Error", message="You have not accepted the terms")
69
70         #Inserting data into a table
71         sql = "INSERT INTO hotel (first_name_label, last_name_label, contact_label, room, email, checkin_label, checkout_label, terms_check) VALUES (%s, %s, %s, %s, %s, %s, %s, %
72         val = (first_name_label, last_name_label, contact_label, room, email, checkin_label, checkout_label, terms_check)
73         mycursor.execute(sql,val)
74         mydb.commit()
75
76  root = tkinter.Tk()
77  root.title("Hotel Room Reservation")
78
79  frame = tkinter.Frame(root)
80  frame.pack()
81
82  # Saving User Info
83  user_info_frame =tkinter.LabelFrame(frame, text="WELCOME TO Skye Service")
84  user_info_frame.grid(row= 0, column=0, padx=20, pady=10)
85
86  first_name_label = tkinter.Label(user_info_frame, text="First Name")
87  first_name_label.grid(row=0, column=0)
88  last_name_label = tkinter.Label(user_info_frame, text="Last Name")
89  last_name_label.grid(row=0, column=1)
90
91  first_name_entry = tkinter.Entry(user_info_frame)
92  last_name_entry = tkinter.Entry(user_info_frame)
93  first_name_entry.grid(row=1, column=0)
94  last_name_entry.grid(row=1, column=1)
```

```python
96   contact_label = tkinter.Label(user_info_frame, text="Contact")
97   contact_entry = tkinter.Entry(user_info_frame,)
98   contact_label.grid(row=0, column=2)
99   contact_entry.grid(row=1, column=2)
100
101  room = tkinter.Label(user_info_frame, text="Room")
102  room_spinbox = tkinter.Spinbox(user_info_frame, from_=0, to=110)
103  room.grid(row=2, column=0)
104  room_spinbox.grid(row=3, column=0)
105
106
107  for widget in user_info_frame.winfo_children():
108      widget.grid_configure(padx=10, pady=5)
109
110  # Saving date info
111  courses_frame = tkinter.LabelFrame(frame)
112  courses_frame.grid(row=1, column=0, sticky="news", padx=20, pady=10)
113
114  email = tkinter.Label(courses_frame, text="Email")
115
116  reg_status_var = tkinter.StringVar(value="Not Registered")
117  registered_check = tkinter.Checkbutton(courses_frame, text="Currently Registered",
118                                  variable=reg_status_var, onvalue="Registered", offvalue="Not registered")
119
120  email.grid(row=0, column=0)
121  registered_check.grid(row=1, column=0)
122
```

```python
123  checkin_label = tkinter.Label(courses_frame, text= "# Check in date")
124  checkin_spinbox = tkinter.Spinbox(courses_frame, from_=0, to='infinity')
125  checkin_label.grid(row=0, column=1)
126  checkin_spinbox.grid(row=1, column=1)
127
128  checkout_label = tkinter.Label(courses_frame, text="# Check out date")
129  checkout_spinbox = tkinter.Spinbox(courses_frame, from_=0, to="infinity")
130  checkout_label.grid(row=0, column=2)
131  checkout_spinbox.grid(row=1, column=2)
132
133  for widget in courses_frame.winfo_children():
134      widget.grid_configure(padx=10, pady=5)
135
136  # Accept terms
137  terms_frame = tkinter.LabelFrame(frame, text="Terms & Conditions")
138  terms_frame.grid(row=2, column=0, sticky="news", padx=20, pady=10)
139
140  accept_var = tkinter.StringVar(value="Not Accepted")
141  terms_check = tkinter.Checkbutton(terms_frame, text= "I accept the terms and conditions.",
142                                    variable=accept_var, onvalue="Accepted", offvalue="Not Accepted")
143  terms_check.grid(row=0, column=0)
144
145  # Button
146  button = tkinter.Button(frame, text="Enter data", command= enter_data)
147  button.grid(row=3, column=0, sticky="news", padx=20, pady=10)
148
149  root.mainloop()
```

9

4.0 Snapshot of GUI

5.0 Snapshot of Database