

# COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS, UNIVERSITI TEKNOLOGI MARA, MERBOK, KEDAH

DIPLOMA IN LIBRARY INFORMATICS
(CDIM144)

PROGRAMMING FOR LIBRARIES (IML208)

"INDIVIDUAL PROJECT"

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SUBMISSION DATE:

WEEK 12

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#### **ACKNOWLEDGEMENT**

I would like to take this opportunity to extend my sincere appreciation to several individuals who have played a crucial role in the successful completion of this assignment.

First and foremost, I am immensely grateful to Sir Airul Shazwan Bin Norshahimi for their unwavering support, invaluable insights, and dedication to fostering a deeper understanding of the subject matter. Their guidance and mentorship have been instrumental in shaping the quality and depth of this assignment.

Last but not least, I wish to thank my family and friends for their understanding and encouragement during this academic journey. Their unwavering support provided me with the motivation and resilience necessary to complete this assignment effectively.

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#### 1.0 INTRODUCTION

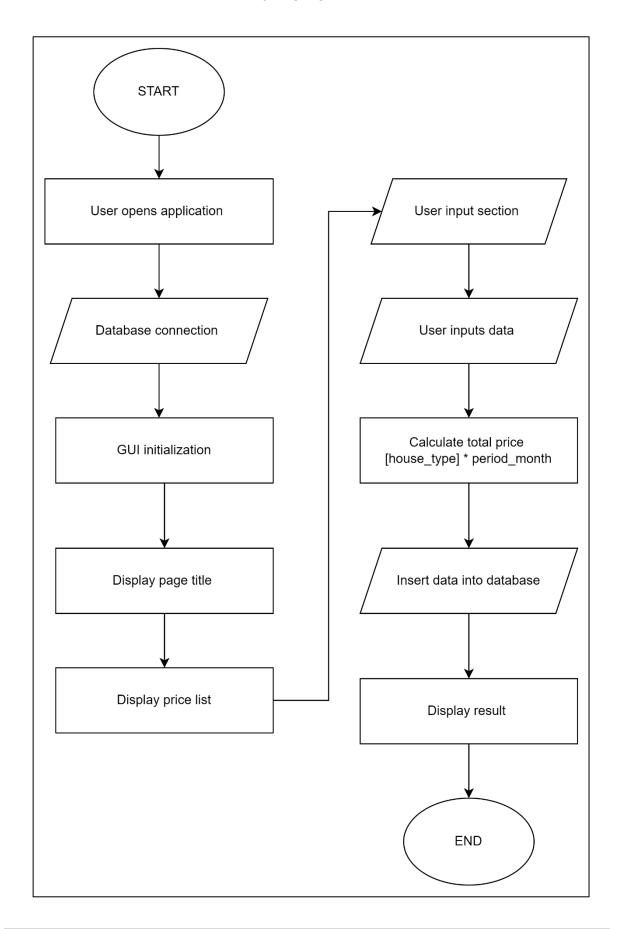
The given A straightforward GUI application written in Python that calculates house rentals and stores data in a MySQL database is called a Tkinter library application. Users of the application can choose a house type, a month-by-month rental duration, and a house location from drop-down menus. When the user clicks the "Calculate" button, the application calculates the total rental cost based on the options they have chosen and adds the necessary information to a MySQL database table called `user}. The application offers an easy-to-use interface for entering rental information and seeing the figures that are generated.

#### Functionality and Features:

Interface: The GUI application offers a user-friendly interface with dropdown menus for location and house type, a field for entering the rental period, and a "Calculate" button that starts the calculation and saves the data.

- Price List Display: To assist users in making educated decisions, a text box shows the costs for various house types.
- Data Calculation: Using a predefined dictionary of prices, the script determines the total rental price based on the chosen house type and rental period.
- Database Interaction: After establishing a connection with a MySQL database, the program inserts user input into the user table and creates a cursor object.
- Output Display: The application shows the selected options and the computed total price following the calculation and database insertion.

# 2.0 FLOWCHART



#### 3.0 SNAPSHOT OF THE CODE

```
INDV ASSIGNMENT IML 208 > ♦ contohhhh_hr.py > ♦ collect_data
SOURCE.CODE
 V INDV ASSIGNMENT I...
                                                # Calculating the total price. Derived from the
total_price = prices[house_type] * period_month
  contohhhh_hr.py
                                 31
32
33
34
35
36
37
38
  house rental.sal
                                              # Inserting data into the database, 4 attributes.

sql = "INSERT INTO `user` (house_type, period, total_price, house_location) VALUES (%s, %s, %s, %s)"

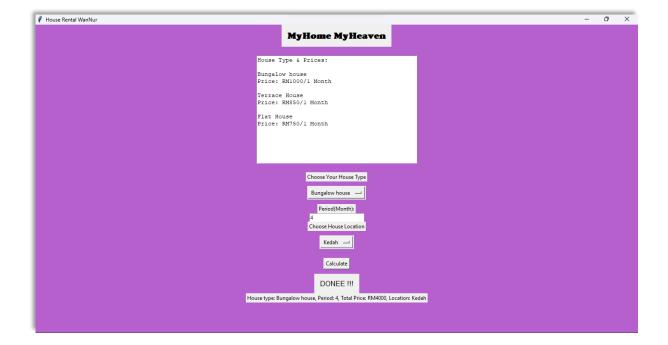
val = [house_type, period_month, total_price, house_location]
 house_rental2.py
contoh_indv.py
contoh_keje.py
                                               mycursor.execute(sql, val)
mydb.commit()
holiday_package.sql
house_rental.py
                                               # To print back the output. It will happen in the function collect_data().
output_label.config(text=f"House type: {house_type}, Period: {period_month}, Total Price: RM{total_price}, Location: {h
house_rental1.py
                                  39
                                 40
41
42
43
44
45
week3_activity1.py
                                          # Your Main window, You need to have the title, geometry (MUST)
week3_activity2.py
                                         root = tk.Tk()
root.title("House Rental WanNur")
root.geometry('990x800')
week3_activity3.py
week3_activity4.py
week3 activity5.py
                                          # Page Title
label = tk.Label(root, text='MyHome MyHeaven', font=("Cooper Black", 16, "bold"))
week3_activity6.py
week3_activity7.py
                                           label.pack(ipadx=10, ipady=10)
week4_activity1.py
week4_activity2.py
                                         # Prices List by using textbox
prices_text = tk.Text(root, height=15, width=45)
week5_activity1.py
                                          prices_text.pack(pady=20)
week6_activity1.py
week7_activity.py
                                         # The defined list by using pricebox
prices_text.insert(tk.END, "House Type & Prices:\n\n")
prices_text.insert(tk.END, "Bungalow house\nPrice: RM1000/1 Month\n\n")
prices_text.insert(tk.END, "Terrace House \nPrice: RW850/1 Month\n\n")
                                 55
56
57
58
week8_activity1.py
   week8_activity2.py
week8_activity3.py
                                           prices_text.insert(tk.END, "Flat House \nPrice: RM750/1 Month\n\n")
prices text.configure(state='disabled')
```

```
V INDV ASSIGNMENT I...
                                      71
72
73
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75
76
77
78
79
80
  contohhhh_hr.py
                                               # Packs Entry. Label and user can insert data thru entry
period_label = tk.Label(root, text="Period(Month):")
   house_rental.sql
  house_rental2.py
                                               period_label.pack()
period_entry = tk.Entry(root)
period_entry.pack()
contoh_indv.py
contoh_keje.py
holiday_package.sql
                                               # House Location Dropdown (Label)
location_label = tk.Label(root, text="Choose House Location")
location_label.pack()
house_rental.py
81
82
                                               # House Location Dropdown
location_var = tk.StringVar(root)
location_var.set("Kedah") # Default value before your selection
location_dropdown = tk.OptionMenu(root, location_var, "Kedah", "Pahang", "Penang")
location_dropdown.pack(pady=10)

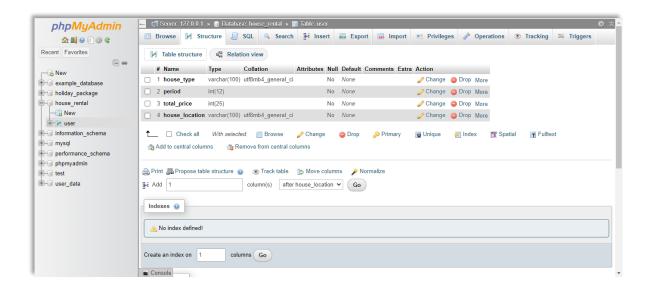
    week3_activity1.py
    week3_activity2.py

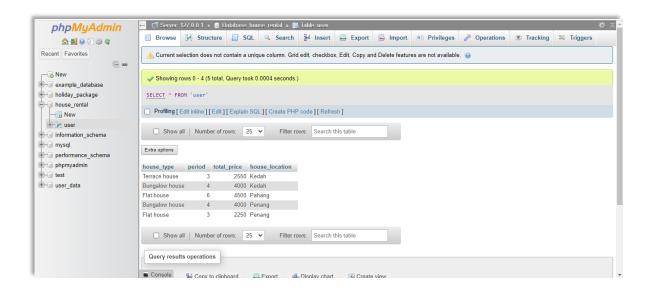
                                      83
84
85
86
87
week3_activity3.py
week3_activity4.py
week3_activity5.py
week3_activity6.py
                                              # Save Button
save_button = tk.Button(root, text="Calculate", command=collect_data)
save_button.pack(pady=10)
                                      88
89
90
91
week3_activity7.py
week4_activity1.py
week4_activity2.py
                                              # Output Label % result result label = tk.Label root, text='DONEE !!!', font=("Times New Romans", 12)) result_label.pack(ipadx=10, ipady=10) output_label = tk.Label(root, text="") output_label.pack()
                                      92
93
94
95
96
97
98
week5_activity1.py
week6_activity1.py
 week7_activity.py
 week8_activity1.py
    week8_activity2.py
                                               # Set the background color
root.configure(bg='#B660CD')
week8_activity3.py
                                      99
100
```

# 4.0 SNAPSHOT OF GUI



#### 5.0 SNAPSHOT OF DATABASE





#### 6.0 CONCLUSION

In conclusion, this Python script builds a simple house rental application by utilizing the MySQL connector for database interaction and the Tkinter library for creating a graphical user interface. It's simple for users to enter their preferences, get the total cost of the rental, and see the outcomes. For a more comprehensive home rental management system, this script can be extended to include more features, validations, and enhancements to the database interactions and user interface.