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UNIVERSITI TEKNOLOGI MARA
MERBOK, KEDAH

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

DIPLOMA IN LIBRARY INFORMATICS
CDIM144

PROGRAMMING FOR LIBRARIES
IML208

INDIVIDUAL ASSIGNMENT : HOUSE RENTAL REGISTRATION

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SUBMISSION DATE
4 JANUARY 2024

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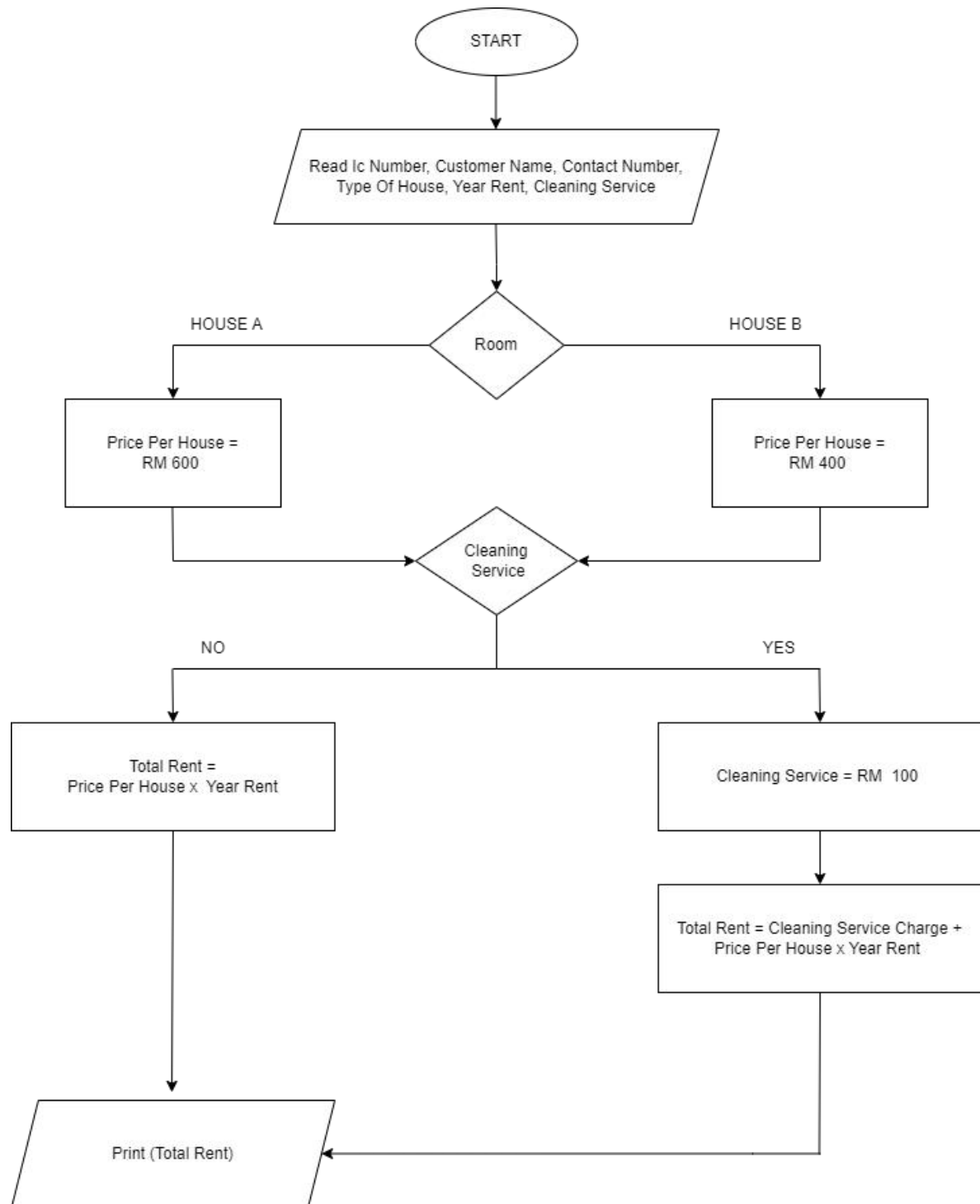
1.0 INTRODUCTION

A rental house is something that always sought and needed by anyone, whether single person or married person. There are a lot of rental house offers nowadays, so to be a brilliant renter we need to consider some things to ensure we will comfortable with the house and suitable with the budget that we have to rent a house.

I create one system that helps easier those who wants to register the rental house and make sure customer can consider with their own budget. This system called "House Rental Registration" that can manage the registration for those who wants to rent under their chosen house rental agency. This system works in a way that the customer can make a choice by comparing the houses that offered by the agency and consider an advantages given for each house. Other than that, they can also compare the price of each house and make the best decision based on their budget.

Furthermore, after decide what types of house they want to choose they can continue with the registration which is fill in the details about the renter identity such as name, contact number and Identity card number (IC). They also can make early plan in renting house. For instance, the customer wants to rent the house for 5 years, so customer will know how much they need to pay for the rent for five years. The customer can make a planning on how to pay the rent without delaying the rental payment each year. In addition, customer registration also helps the rental agency to locate and get to know who is the person that rent their house. If something bad happen, they can directly contact the renter. It means the data of the renter will be saved for future used.

2.0 FLOWCHART FOR HOUSE RENTAL REGISTRATION



3.0 CODE FOR HOUSE RENTAL REGISTRATION

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

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

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

```
def collect_data():
    Ic_Number = Ic_number_entry.get()
    Customer_Name = Customer_name_entry.get()
    Contact_Number = Contact_number_entry.get()
    Type_Of_House = Type_of_house_combobox.get()
    Year_Rent = int(Year_rent_entry.get())
    Cleaning_Service = (Cleaning_service_combobox.get())
```

```
# DEFINE VALUES FROM SELECTIONS
Price_Per_House = {
    "HOUSE A" : 600,
    "HOUSE B" : 400,
}
```

```
# CALCULATE TOTAL RENT
    "NO": 0,
}
```

```
if Cleaning_Service == "YES":
    Total_Rent = Cleaning_Service_Charge[Cleaning_Service] +
Price_Per_House[Type_Of_House] * int(Year_Rent)
    print(Total_Rent)
```

```

else :
    Total_Rent = Price_Per_House[Type_Of_House] * int(Year_Rent)
    print(Total_Rent)

```

```

# TO INSERT DATA TO DATABASE
sql = "INSERT INTO house_rental_registration (Ic_Number,
Customer_Name, Contact_Number, Type_Of_House,
Year_Rent,Cleaning_Service, Total_Rent) VALUES
(%, %, %,%,%,%,%)"
val = (Ic_Number, Customer_Name, Contact_Number, Type_Of_House,
Year_Rent, Cleaning_Service, Total_Rent)
mycursor.execute(sql, val)
mydb.commit()

```

```

# FUNCTION COLLECT DATA
output_label.configure(text=f"Ic Number: {Ic_Number},Contact Number:
{Contact_Number},Type Of House: {Type_Of_House},Year
Rent:{Year_Rent},Cleaning Service Payment: {Cleaning_Service},Total
Rent:RM{Total_Rent}")

```

```

# INTERFACE
root = tk.Tk()
root.title("house_rental")
root.geometry('600x800')
root.configure(bg="GoldenRod4")

```

```

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

```

```

# PAGE TITLE
label = tk.Label(root, text="HOUSE RENTAL REGISTRATION",
font=("Franklin Gothic Medium", 16,
"bold"),bg="LightGoldenrod3",fg="floralwhite",bd=5,relief="ridge")
label.pack(ipadx=12, ipady=10)

```

```

# HOUSE SPECIFICATION LIST BY USING TEXTBOX
house_specification = tk.Text(root, height=10, width=60, bg="Khaki2",
bd=7)
house_specification.pack(pady=15)

```

```
# DEFINE LIST BY USING HOUSE SPECIFICATION BOX
house_specification.insert(tk.END, "House Specification and Price\n\n")
house_specification.insert(tk.END, "House A: Corner lot house, three
bedroom \nAdd cleaning service: Rm100 \nPrice: RM 600\n\n")
house_specification.insert(tk.END, "House B: Middle house, two bedroom
\nAdd Cleaning service: RM100 \nPrice: RM 400\n\n")
house_specification.configure(state='disable')
```

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

```
# SAVING CUSTOMER REGISTRATION USING
Customer_Registration_frame=tk.LabelFrame(frame, text="Customer
Registration",font=("aldhabi",10,"bold"),bg="Goldenrod",fg="FloralWhite
")
Customer_Registration_frame.grid(row=7, column=0)
```

```
Ic_number_label=tk.Label(Customer_Registration_frame, text="Ic
Number",bg="Khaki1",bd=3,relief="sunken")
Ic_number_label.grid(row=7,column=0)
Ic_number_entry=tk.Entry(Customer_Registration_frame,bd=3,relief="ridge
")
Ic_number_entry.grid(row=8, column=0)
```

```
Customer_name_label=tk.Label(Customer_Registration_frame,
text="Customer Name",bg="Khaki1",bd=3,relief="sunken")
Customer_name_label.grid(row=7, column=3)
Customer_name_entry=tk.Entry(Customer_Registration_frame,bd=3,relief="r
idge")
Customer_name_entry.grid(row=8, column=3)
```

```
Contact_number_label=tk.Label(Customer_Registration_frame,
text="Contact Number",bg="Khaki1",bd=3,relief="sunken")
Contact_number_label.grid(row=7, column=6)
Contact_number_entry=tk.Entry(Customer_Registration_frame,bd=3,relief="
ridge")
Contact_number_entry.grid(row=8, column=6)
```

```
Type_of_house_label=tk.Label(Customer_Registration_frame, text="Type Of
House",bg="Khaki1",bd=3,relief="sunken")
Type_of_house_combobox=ttk.Combobox(Customer_Registration_frame,
values=["HOUSE A", "HOUSE B"])
Type_of_house_label.grid(row=12, column=0)
```

```
Type_of_house_combobox.grid(row=13, column=0)
```

```
Year_rent_label=tk.Label(Customer_Registration_frame, text="Year  
Rent",bg="Khaki1",bd=3,relief="sunken")  
Year_rent_label.grid(row=12, column=3)  
Year_rent_entry=tk.Entry(Customer_Registration_frame,bd=3,relief="ridge  
")  
Year_rent_entry.grid(row=13, column=3)
```

```
Cleaning_service_label=tk.Label(Customer_Registration_frame,  
text="Cleaning Service",bg="Khaki1",bd=3,relief="sunken")  
Cleaning_service_combobox=ttk.Combobox(Customer_Registration_frame,  
values=["YES","NO"])  
Cleaning_service_label.grid(row=12, column=6)  
Cleaning_service_combobox.grid(row=13, column=6)
```

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

```
# CALCULATE AND SAVE BUTTON  
calculate_button = tk.Button(root, text="CALCULATE",  
command=collect_data,bg="DarkGoldenrod",bd=5,relief="raised")  
calculate_button.pack(pady=15)
```

```
label = tk.Label(root, text='TOTAL RENT :', font=("Segoe  
Print",15,"underline","bold"))  
label.pack(ipadx=10, ipady=10)  
output_label = tk.Label(root, text="")  
output_label.pack()
```

```
root.mainloop()
```


4.0 GUI FOR HOUSE RENTAL

house_rental

HOUSE RENTAL REGISTRATION

House Specification and Price

House A: Corner lot house, three bedroom
Add cleaning service: Rm100
Price: RM 600

House B: Middle house, two bedroom
Add Cleaning service: RM100
Price: RM 400

Customer Registration

Ic Number	Customer Name	Contact Number
<input type="text"/>	<input type="text"/>	<input type="text"/>
Type Of House	Year Rent	Cleaning Service
<input type="text"/>	<input type="text"/>	<input type="text"/>

CALCULATE

TOTAL RENT :

5.0 DATABASE FOR GUI HOUSE RENTAL

5.1 STRUCTURE

The screenshot shows the phpMyAdmin interface with the 'house_rental_registration' table selected. The table structure is displayed in the 'Table structure' tab. The table has 7 columns: Ic_Number, Customer_Name, Contact_Number, Type_Of_House, Year_Rent, Cleaning_Service, and Total_Rent. Each column has a 'Change', 'Drop', and 'More' action link.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	Ic_Number	varchar(12)	utf8mb4_general_ci		No	None			Change Drop More
2	Customer_Name	char(30)	utf8mb4_general_ci		No	None			Change Drop More
3	Contact_Number	varchar(11)	utf8mb4_general_ci		No	None			Change Drop More
4	Type_Of_House	char(7)	utf8mb4_general_ci		No	None			Change Drop More
5	Year_Rent	int(10)			No	None			Change Drop More
6	Cleaning_Service	char(3)	utf8mb4_general_ci		No	None			Change Drop More
7	Total_Rent	int(10)			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 links to 'Add to central columns' and 'Remove from central columns'.

5.2 BROWSE

The screenshot shows the phpMyAdmin interface with the 'house_rental_registration' table selected. The 'Browse' tab is active, displaying a message: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' Below this, it shows 'Showing rows 0 - 6 (7 total, Query took 0.0007 seconds)'. The SQL query is 'SELECT * FROM `house_rental_registration`'. There are options for 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'. A 'Show all' button and a 'Number of rows' dropdown (set to 25) are also present. A 'Filter rows' search box is available. Below these options, the table data is displayed:

Ic_Number	Customer_Name	Contact_Number	Type_Of_House	Year_Rent	Cleaning_Service	Total_Rent
010203149761	Nurul Hafizah	01197623109	HOUSE A	3	YES	1900
751205082097	Nor Affidah	01170298162	HOUSE A	10	NO	6000
790910117620	Zulkhairi Bahrain	01297010612	HOUSE B	9	YES	3700
991107014501	Nur Saffiah	01230910381	HOUSE A	6	NO	3600
950607084601	Faridah	01894710312	HOUSE A	2	NO	1200
930810090348	Mohd Rashid	01198072301	HOUSE B	5	NO	2000
950415111023	Mustaffa	01197043918	HOUSE B	7	YES	2900

At the bottom, there are 'Show all', 'Number of rows' (25), and 'Filter rows' (Search this table) options.

6.0 CONCLUSION

In conclusion, the system that I create are tested and functioning well. It will be more easier for a person or family want to rent a house using this system because this system can helps the renter to be the brilliant renter and thinking about the future too. This system also helps the renter agency itself to get to know the identity of their house renter and get ready in future if something bad happen to the customer.