FACULTY OF INFORMATION SCIENCE STUDIES COLLEGE OF COMPUTING,INFORMATICS AND MEDIA

UNIVERSITY TEKNOLOGI MARA

DIPLOMA IN LIBRARY INFORMATICS(IM144)

PROGRAMMING FOR LIBRARIES (IML208)

ASSIGNMENT 1: ELECTRIC DEVICE REGISTRATION

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SUBMISSION DATE: 4 JANUARY 2024

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DIPLOMA IN LIBRARY INFORMATICS (IM144)

UNIVERSITY TECHNOLOGY MARA (UiTM) KEDAH BRANCH

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

4 JANUARY 2024

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b. **Plagiarism:** Using or attempts to use the work of others (ideas, design, words, art, music, etc.) without acknowledging the source; using or purchasing materials prepared by another person or agency or engaging in other behavior that a reasonable person would consider as plagiarism.
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With this pledge, I am fully aware that I am obliged to conduct myself with utmost honesty and integrity. I fully understand that a disciplinary action can be taken against me if I, in any manner, violate this pledge.

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Course Code : IML208
Programme Code :-
Faculty / Campus : UiTM Kampus Sungai Petani

1.0 INTRODUCTION

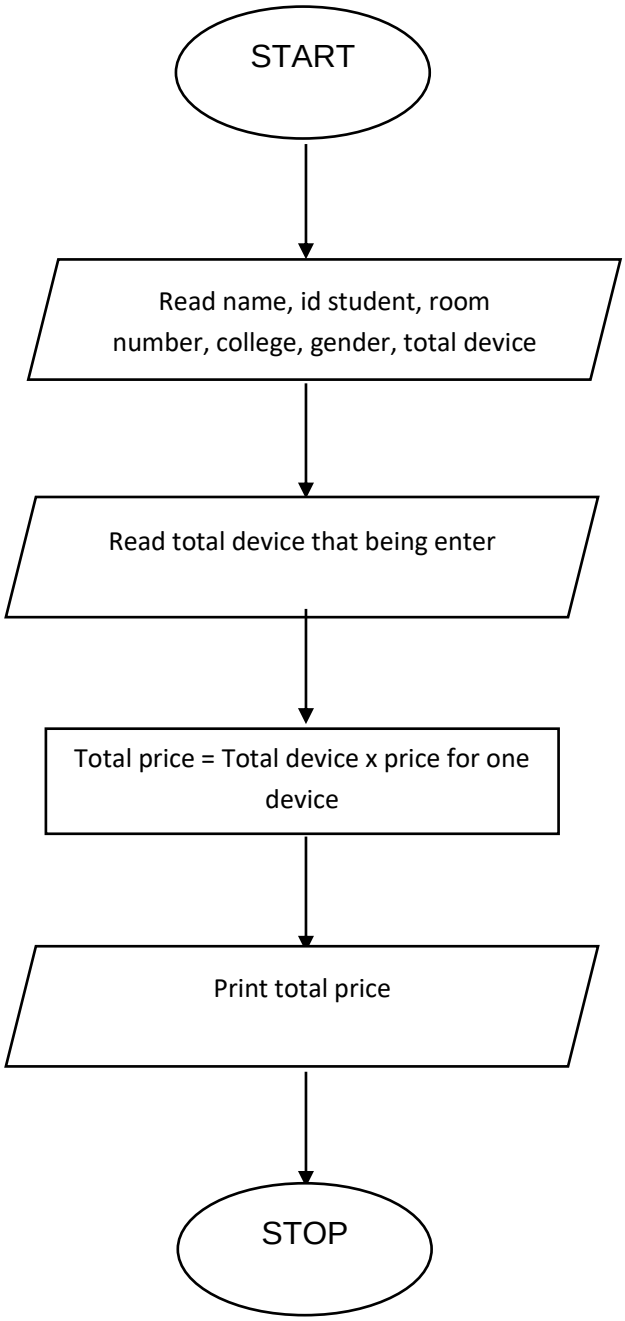
Electric device registration is a system that help a certain institution to trace the exact number of electric device that being brough by person or student. This system can help the person or users to know the exact amount of price they need to pay for their electric device. How much the electric device they bring so they can easily calculate and pay the amount of fee they need to pay for each electric device they bring.

First of all they need to enter their full name so the admin of the system can now the person or the user that want to use the system. Next the users need to enter their id numbers as a student. After that they need to enter their room number and their college so the admin can know their exact location to trace them. After that they will need to choose their gender.

In the system, the fee of one electric device already been given. So lastly, the student must enter their total electric device that they bring to the college. After that they can click submit and the total fee they need to pay will appear. So they will know how much they need to pay to the institution, This will make the student registration far more easy than others.

After they enter all the information that they enter, the information will be saved for the future used.

2.0 FLOW CHART FOR ELECTRIC DEVICE REGISTRATION



3.0 **C0DE FOR ELECTRIC DEVICE REGISTRATION**

individual_assignment.py > ...

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

mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="electric_device_registration"
)
```

```python

# Create a cursor object to execute SQL queries
mycursor = mydb.cursor()



# Function to handle the calculation and database saving
def SUBMIT():
    Student_name = Student_name_entry.get()
    Student_id_number = Student_id_number_entry.get()
    Student_room_number = Student_room_number_entry.get()
    Student_college = Student_college_combobox.get()
    Student_gender = Student_gender_combobox.get()
    Student_total_device = int(Student_total_device_entry.get())

```

```python

    # Calculate the total price
    total_price = Student_total_device * 10

    # To print information on terminal
    print("id_student", Student_id_number)
    print("name", Student_name)
    print("room number", Student_room_number)
    print("college" , Student_college)
    print("gender" , Student_gender)
    print("Total Price = RM" , total_price)

```

```
37
38  sql = "INSERT INTO registration_information (Student_name, Student_id_number, Student_room_number, Student_college, Student_gender,Student_total_device, total_price )
39  val = (Student_name, Student_id_number, Student_room_number, Student_college, Student_gender, Student_total_device, total_price )
40  mycursor.execute(sql, val)
41  mydb.commit()
42
43  # To Print back The output. It will happen in the function collect_data(). The f before the string indicates an f-string in Python.
44  output_Student.config(text=f"Total Price : RM{total_price}")
45
```

```
) VALUES (%s, %s, %s, %s, %s, %s, %s)"
```

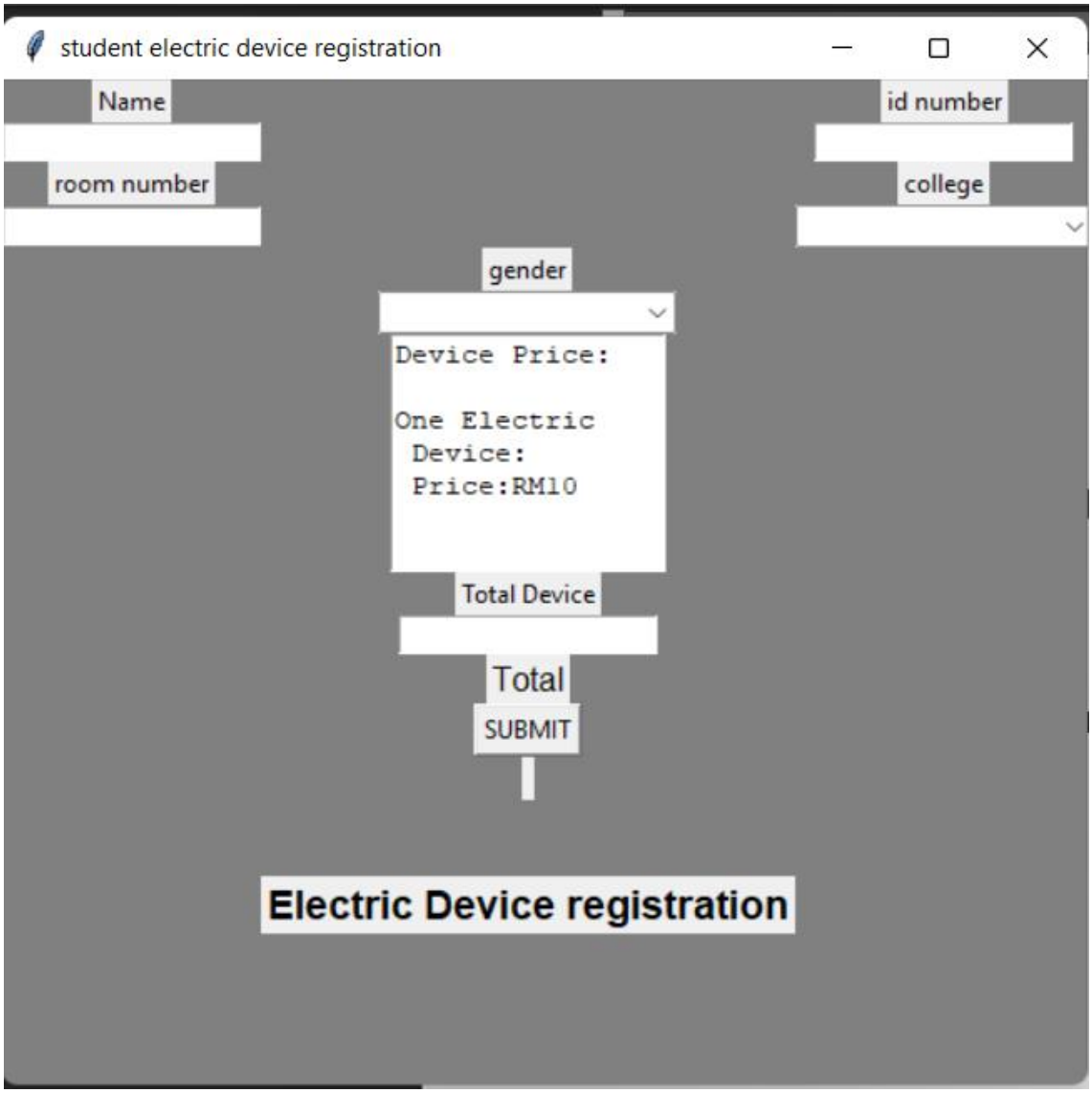
```
49  #create window
50  root = tk.Tk()
51  root.geometry("520x490")
52  root.title("student electric device registration"  )
53  root.configure (bg="#808080")
54
55  label = tk.Label(root, text='Electric Device registration', font=("Times New Romans",14, "bold"))
56  label.grid(column= 4, row=39 , pady=37)
57
```

```
59  #student_info
60
61  Student_name = tk.Label(root,text=("Name"))
62  Student_name.grid(row=3, column=3 )
63  Student_name_entry=tk.Entry(root)
64  Student_name_entry.grid(row=4, column=3)
65
66  Student_id_number = tk.Label(root,text=("id number"))
67  Student_id_number.grid(row=3, column=5)
68  Student_id_number_entry=tk.Entry(root)
69  Student_id_number_entry.grid(row=4, column=5)
70
71  Student_room_number = tk.Label(root,text=("room number"))
72  Student_room_number.grid(row=5, column=3)
73  Student_room_number_entry=tk.Entry(root)
74  Student_room_number_entry.grid(row=6, column=3)
```

```
Student_college = tk.Label(root,text=("college"))
Student_college.grid(row=5, column=5)
Student_college_combobox=ttk.Combobox(root , values= ["Melati" , "Malinja" , "Mawar"])
Student_college_combobox.grid(row=6, column=5)

Student_gender = tk.Label(root,text=("gender"))
Student_gender.grid(row=11, column=4)
Student_gender_combobox=ttk.Combobox (root, values= ["Men" , "Women"])
Student_gender_combobox.grid(row=12, column=4)

price_text=tk.Text(root, height=7 , width=16)
price_text.grid(row=20, column=4)

price_text.insert(tk.END, "Device Price:\n\n")
price_text.insert(tk.END, "One Electric\n Device:\n Price:RM10\n\n")

```

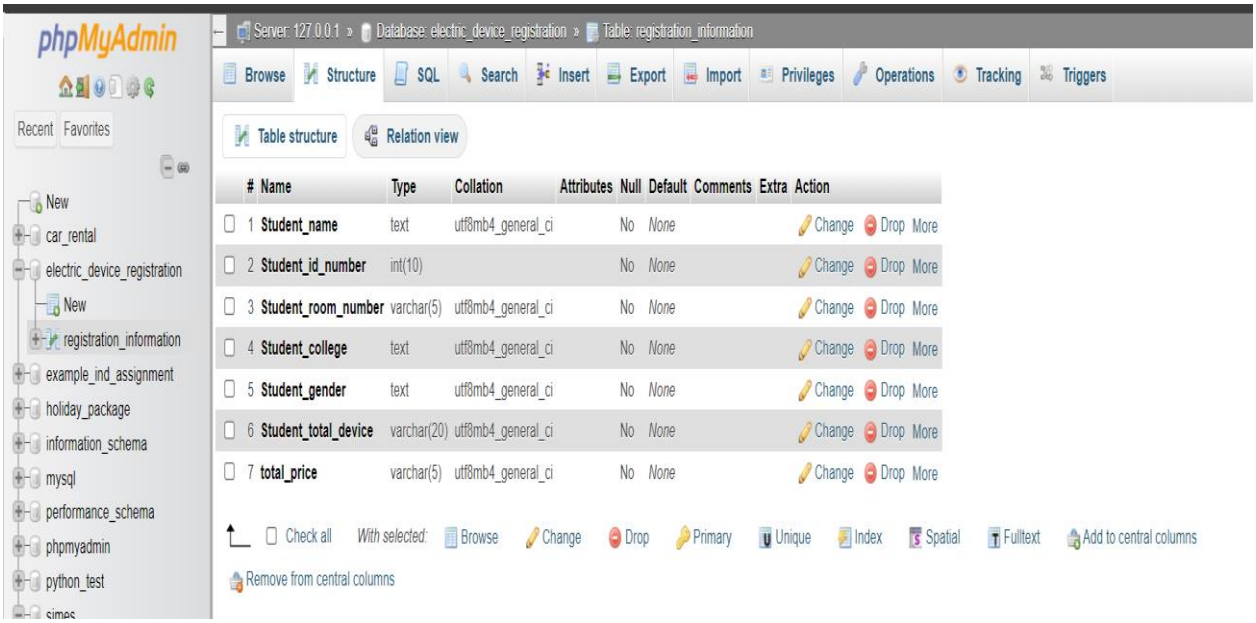
```

Student_total_device = tk.Label(root,text=("Total Device"))
Student_total_device.grid(row=23, column=4)
Student_total_device_entry=tk.Entry(root)
Student_total_device_entry.grid(row=24, column=4)

# Output Result
Student = tk.Label(root, text='Total', font=("Times New Romans",12))
Student.grid(row=25, column=4)
output_Student = tk.Label(root, text="")
output_Student.grid(row = 31, column = 4)

# Submit Button
create_table_button=tk.Button(root,text=("SUBMIT"), command=SUBMIT)
create_table_button.grid(row=27, column= 4)
root.mainloop()
```

4.0 **GUI FOR ELECTRIC DEVICE REGISTRATION**

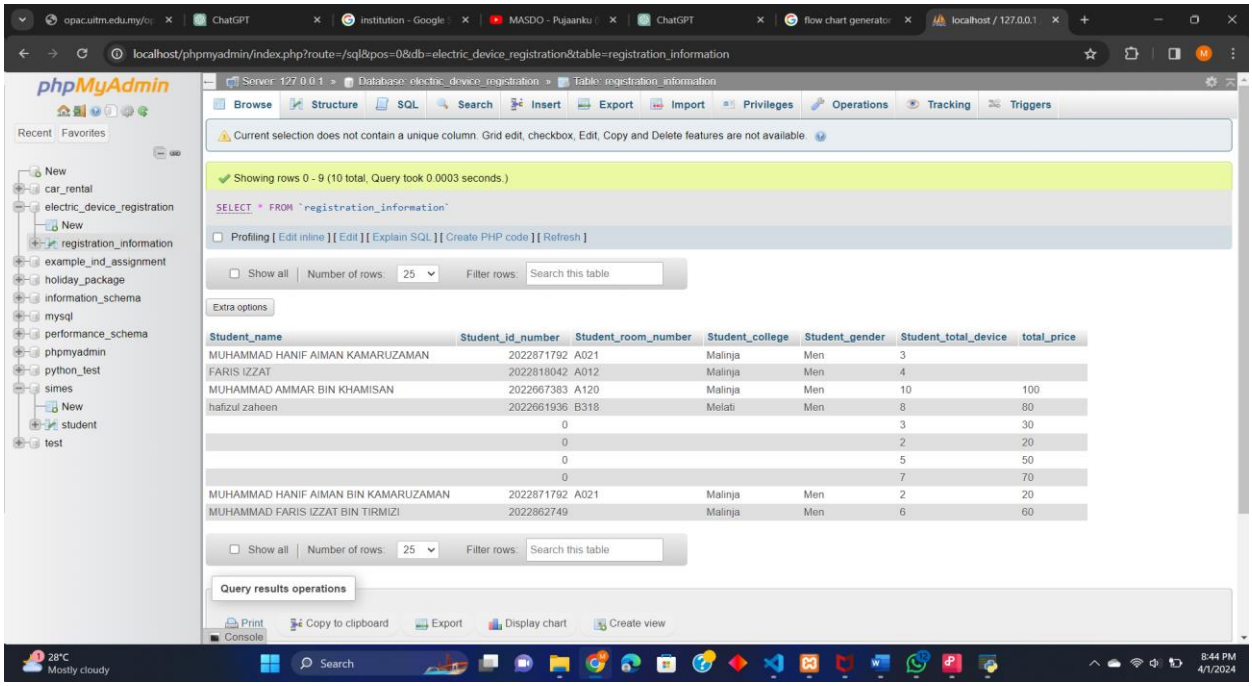


5.0 **DATABASE FOR ELECTRIC DEVICE REGISTRATION**

THE STRUCTURE



THE BROWSE



6.0 CONCLUSION

In conclusion, the system that I finaly able to create are already being test and being confirm about it functionality. Even thouh this system is simple, I still take a lot of time to do it, as I am not really well in the coding. This system can help the users to know about the fe they need to pay with a lot more easier

The system allows users to input information such as student name, ID number, room number, college, gender, and the total number of devices. Upon clicking the "SUBMIT" button, the program calculates the total price based on the number of devices and prints the student's information along with the calculated total price to the terminal.

The GUI interface is user-friendly, featuring entry fields, labels, and combo boxes for selecting options. The program also provides a text display for information about device prices and includes an output label to display the calculated total price after submission.

Overall, this script serves as a basic framework for a student electric device registration system, and further enhancements and integrations can be made to expand its functionality and improve the user experience.