**UNIVERSITI TEKNOLOGI MARA (UITM) CAWANGAN KEDAH**

**KAMPUS SUNGAI PETANI**

**SCHOOL OF COMPUTING, INFORMATICS AND MEDIA (CDIM144)**

**DIPLOMA IN INFORMATICS LIBRARY**

**PROGRAMMING FOR LIBRARY (IML208)**

**INDIVIDUAL ASSIGNMENTS: SIMPLE COMPUTER INTERFACE**

# TITLE: CLINIC APPOINMENT BOOKING REGISTRATION

**PREPARED BY:**

**NOR NATASHABILLA BINTI ABDULLAH**

**(2022873952)**

**PREPARED FOR:**

**SIR AIRUL SHAZWAN NORSHAHIMI**

**SUBMISSION DATE:**

**4 JANUARY 2024**

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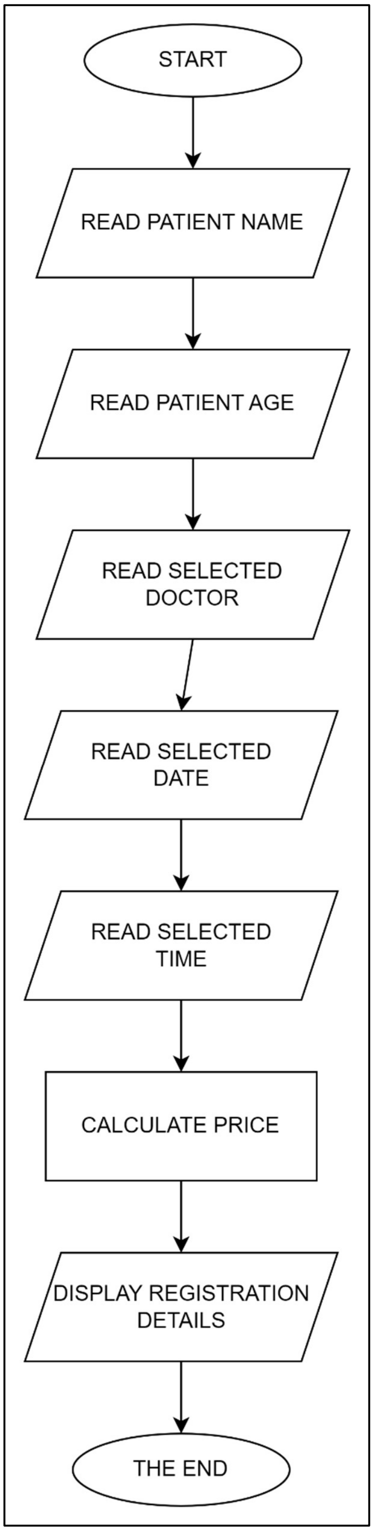
## 1.0 INTRODUCTION

Clinic appoinment booking registration interface is a one of the method to collect patient's information. it is more easier for the patient to key in their information and faster than filling up the registration forms. It is also nature friendly since it is not made or written on the paper sheets.By using python application, we could make a simple interface code for the clinic. It is easier to manage, update and delete appoinment booking that have been made.

This simple interface include a simple calculation in the appoinment booking price part. Each of booking registration will be charge for RM10 and will be added with 5% tax. After clicking the "Calculate Price" button, the price will automatically appeared in the blank box.

For the conclusion, this simple interface named Clinic Appoinment Booking Registration will helps to read and keep the appoinment booking registration information. Other than that, the owner of the database could update and delete the data.

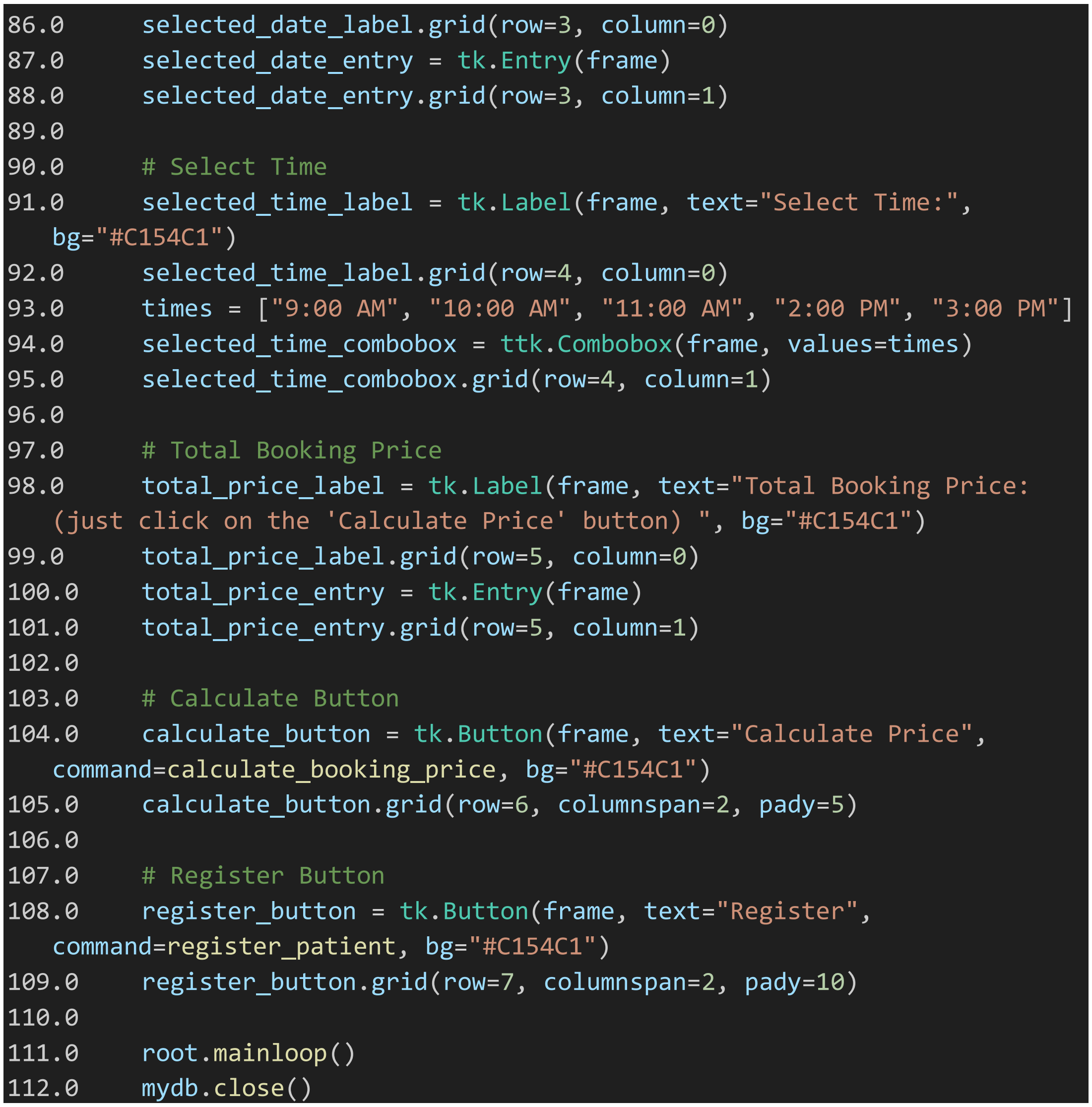
## 2.0 FLOWCHART



## 3.0 THE SIMPLE INTERFACE CODE OF CLINIC APPOINMENT BOOKING REGISTRATION

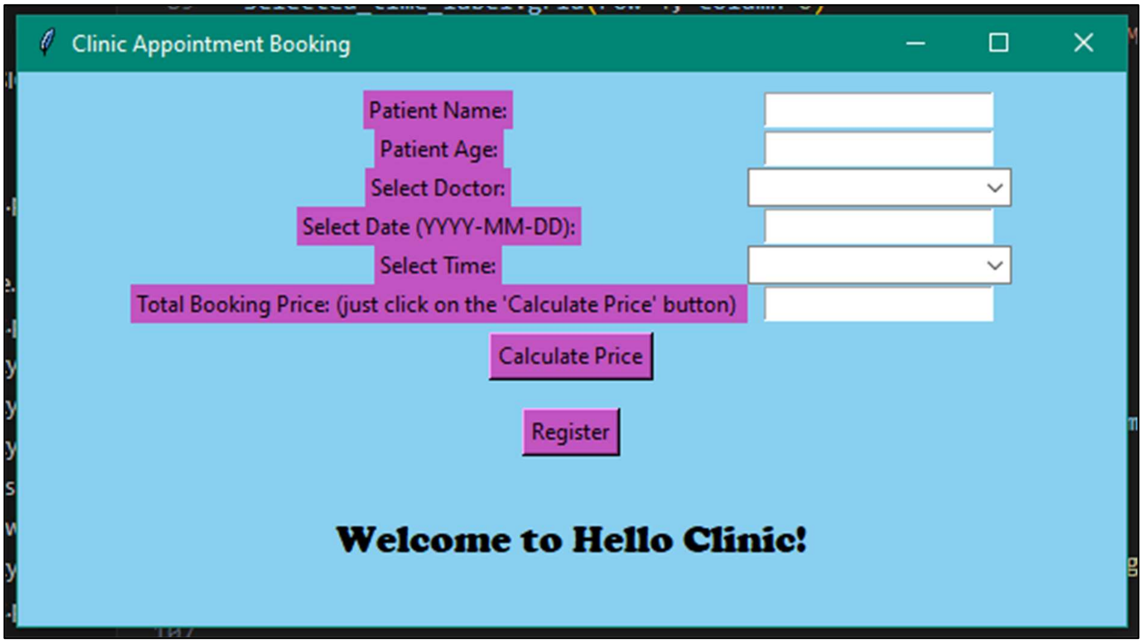
```python
import tkinter as tk
import mysql.connector
from tkinter import ttk
from tkinter import messagebox

# Connect to the MySQL database
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="clinic_appoinment_booking_registration"
)

mycursor = mydb.cursor()

def calculate_booking_price():
    # Get selected time and calculate booking price with tax
    selected_time = selected_time_combobox.get()
    booking_price = 10  # RM10 per session
    tax = 0.05  # 5% tax
    total_price = booking_price * (1 + tax)

    # Update the entry field with the calculated price
    total_price_entry.delete(0, tk.END)
    total_price_entry.insert(0, f"RM {total_price:.2f}")

def register_patient():
    # Get values from the entry fields and dropdown
    patient_name = patient_name_entry.get()
    patient_age = patient_age_entry.get()
    selected_doctor = selected_doctor_combobox.get()
    selected_date = selected_date_entry.get()
    selected_time = selected_time_combobox.get()

    # Calculate booking price with tax
    booking_price = 10  # RM10 per session
    tax = 0.05  # 5% tax
    total_price = booking_price * (1 + tax)

    # Insert data into the database
    sql = "INSERT INTO appointments (patient_name, patient_age, selected_doctor, selected_date, selected_time, total_price) VALUES (%s, %s, %s, %s, %s, %s)"
```

```
        values = (patient_name, patient_age, selected_doctor, selected_date, selected_time, total_price)

        mycursor.execute(sql, values)
        mydb.commit()

        # Show a message box to confirm successful registration
        messagebox.showinfo("Success", "Patient registered successfully!")

    # Create GUI
    root = tk.Tk()
    root.title("Clinic Appointment Booking")
    root.configure(bg="#89CFF0")
    root.geometry("600x300")

    frame = tk.Frame(root, bg="#89CFF0")
    frame.pack(padx=20, pady=10)

    header = tk.Label(root, text="Welcome to Hello Clinic!", font=("cooper black", 16), bg="#89CFF0")
    header.pack(pady=10)

    # Patient name
    patient_name_label = tk.Label(frame, text="Patient Name:", bg="#C154C1")
    patient_name_label.grid(row=0, column=0)
    patient_name_entry = tk.Entry(frame)
    patient_name_entry.grid(row=0, column=1)

    # Patient age
    patient_age_label = tk.Label(frame, text="Patient Age:", bg="#C154C1")
    patient_age_label.grid(row=1, column=0)
    patient_age_entry = tk.Entry(frame)
    patient_age_entry.grid(row=1, column=1)

    # Select Doctor
    selected_doctor_label = tk.Label(frame, text="Select Doctor:", bg="#C154C1")
    selected_doctor_label.grid(row=2, column=0)
    doctors = ["DR. KARIM", "DR. AMINAH", "DR. QHAIRINA"]
    selected_doctor_combobox = ttk.Combobox(frame, values=doctors)
    selected_doctor_combobox.grid(row=2, column=1)

    # Select Date
    selected_date_label = tk.Label(frame, text="Select Date (YYYY-MM-DD):", bg="#C154C1")
```

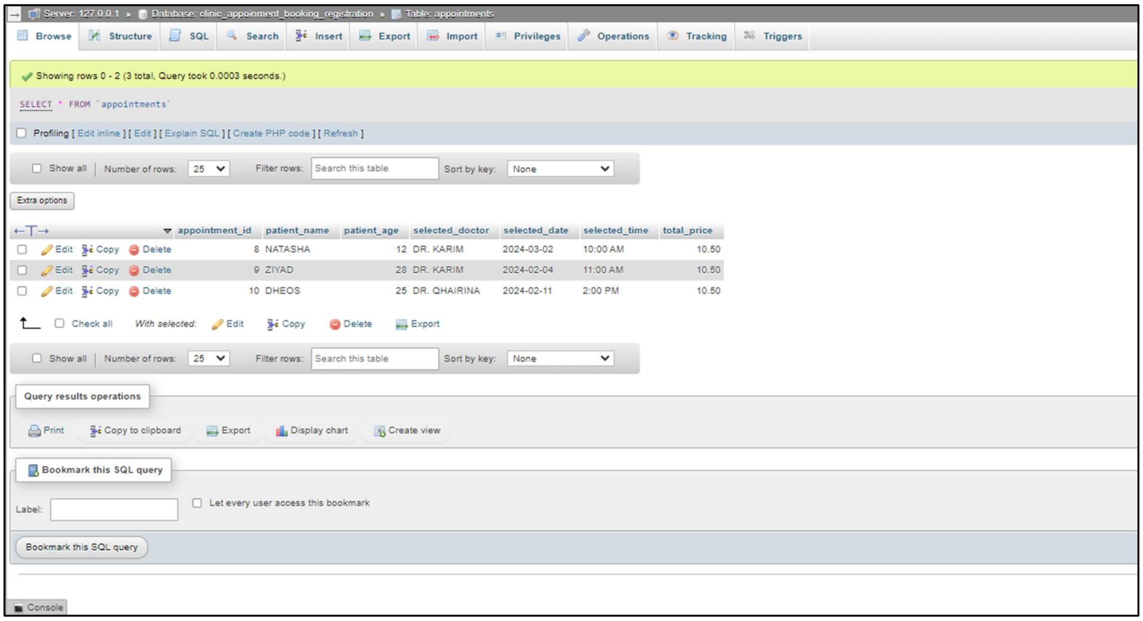


```
selected_date_label.grid(row=3, column=0)
selected_date_entry = tk.Entry(frame)
selected_date_entry.grid(row=3, column=1)

# Select Time
selected_time_label = tk.Label(frame, text="Select Time:", bg="#C154C1")
selected_time_label.grid(row=4, column=0)
times = ["9:00 AM", "10:00 AM", "11:00 AM", "2:00 PM", "3:00 PM"]
selected_time_combobox = ttk.Combobox(frame, values=times)
selected_time_combobox.grid(row=4, column=1)

# Total Booking Price
total_price_label = tk.Label(frame, text="Total Booking Price: (just click on the 'Calculate Price' button) ", bg="#C154C1")
total_price_label.grid(row=5, column=0)
total_price_entry = tk.Entry(frame)
total_price_entry.grid(row=5, column=1)

# Calculate Button
calculate_button = tk.Button(frame, text="Calculate Price", command=calculate_booking_price, bg="#C154C1")
calculate_button.grid(row=6, columnspan=2, pady=5)

# Register Button
register_button = tk.Button(frame, text="Register", command=register_patient, bg="#C154C1")
register_button.grid(row=7, columnspan=2, pady=10)

root.mainloop()
mydb.close()
```

### 4.0 THE CLINIC APPOINMENT BOOKING REGISTRATION GUI


Clinic Appointment Booking
Patient Name:
Patient Age:
Select Doctor:
Select Date (YYYY-MM-DD):
Select Time:
Total Booking Price: (just click on the 'Calculate Price' button)
Calculate Price
Register
Welcome to Hello Clinic!

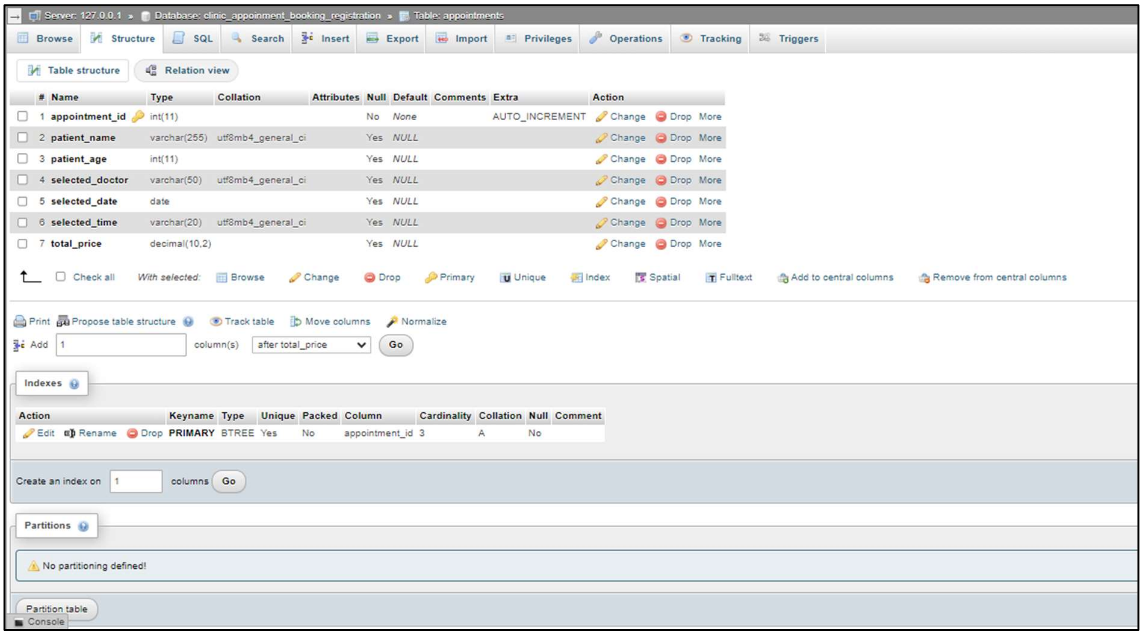
# 5.0 THE CLINIC APPOINMENT BOOKING REGISTRATION DATABASE



Showing rows 0 - 2 (3 total, Query took 0.0003 seconds.)

```
SELECT * FROM `appointments`
```

| | appointment_id | patient_name | patient_age | selected_doctor | selected_date | selected_time | total_price |
|---|---|---|---|---|---|---|---|
| ☐ Edit Copy Delete | 8 | NATASHA | 12 | DR. KARIM | 2024-03-02 | 10:00 AM | 10.50 |
| ☐ Edit Copy Delete | 9 | ZIYAD | 28 | DR. KARIM | 2024-02-04 | 11:00 AM | 10.50 |
| ☐ Edit Copy Delete | 10 | DHEOS | 25 | DR. QHAIRINA | 2024-02-11 | 2:00 PM | 10.50 |


Server: 127.0.0.1 » Database: clinic_appoinment_booking_registration » Table: appointments
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Tracking
Triggers
Table structure
Relation view
Check all
With selected: Browse Change Drop Primary Unique Index Spatial Fulltext Add to central columns Remove from central columns
Print
Propose table structure
Track table
Move columns
Normalize
Add 1 column(s) after total_price Go
Create an index on 1 columns Go
Partition table
Console

| # | Name | Type | Collation | Attributes | Null | Default | Comments | Extra | Action |
|---|---|---|---|---|---|---|---|---|---|
| 1 | appointment_id | int(11) | | | No | None | | AUTO_INCREMENT | Change Drop More |
| 2 | patient_name | varchar(255) | utf8mb4_general_ci | | Yes | NULL | | | Change Drop More |
| 3 | patient_age | int(11) | | | Yes | NULL | | | Change Drop More |
| 4 | selected_doctor | varchar(50) | utf8mb4_general_ci | | Yes | NULL | | | Change Drop More |
| 5 | selected_date | date | | | Yes | NULL | | | Change Drop More |
| 6 | selected_time | varchar(20) | utf8mb4_general_ci | | Yes | NULL | | | Change Drop More |
| 7 | total_price | decimal(10,2) | | | Yes | NULL | | | Change Drop More |

Indexes

| Action | Keyname | Type | Unique | Packed | Column | Cardinality | Collation | Null | Comment |
|---|---|---|---|---|---|---|---|---|---|
| Edit Rename Drop | PRIMARY | BTREE | Yes | No | appointment_id | 3 | A | No | |

Partitions

No partitioning defined!