UNIVERSITI TEKNOLOGI MARA

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SCHOOL OF INFORMATION SCIENCE

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

DIPLOMA IN LIBRARY INFORMATICS (IM144)

IML208: PROGRAMMING FOR LIBRARIES

INDIVIDUAL ASSIGNMENT: REPORT

EXPERIENCED TEACHER REGISTRATION IN KINDERGARTEN

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1.0 INTRODUCTION

The experienced teacher registration form is a graphical user interface (GUI) that allow experience teachers to register their information for a teaching position, which will be stored in database. The form includes necessary details from the teachers such as personal information (full name, date of birth, address), teaching experience and contact information. The purpose of this registration form is to gather all the important information about the experience teachers in a systematic manner. This form can be use for various purposes like evaluating teaches qualification and maintaining a database of experienced teacher for future reference. By filling out this registration form, experienced teachers can present an overview of their experience, making it easier for kindergarten organization to access their suitability for teaching the kids. All in all, the experienced teacher registration form serves as a valuable tool, ensuring that the best possible candidates are selected for teaching positions.

2.0 FLOWCHART

3.0 SNAPSHOT OF PYTHON CODE

INDIVIDUAL ASSIGNMENT (2).py > ...

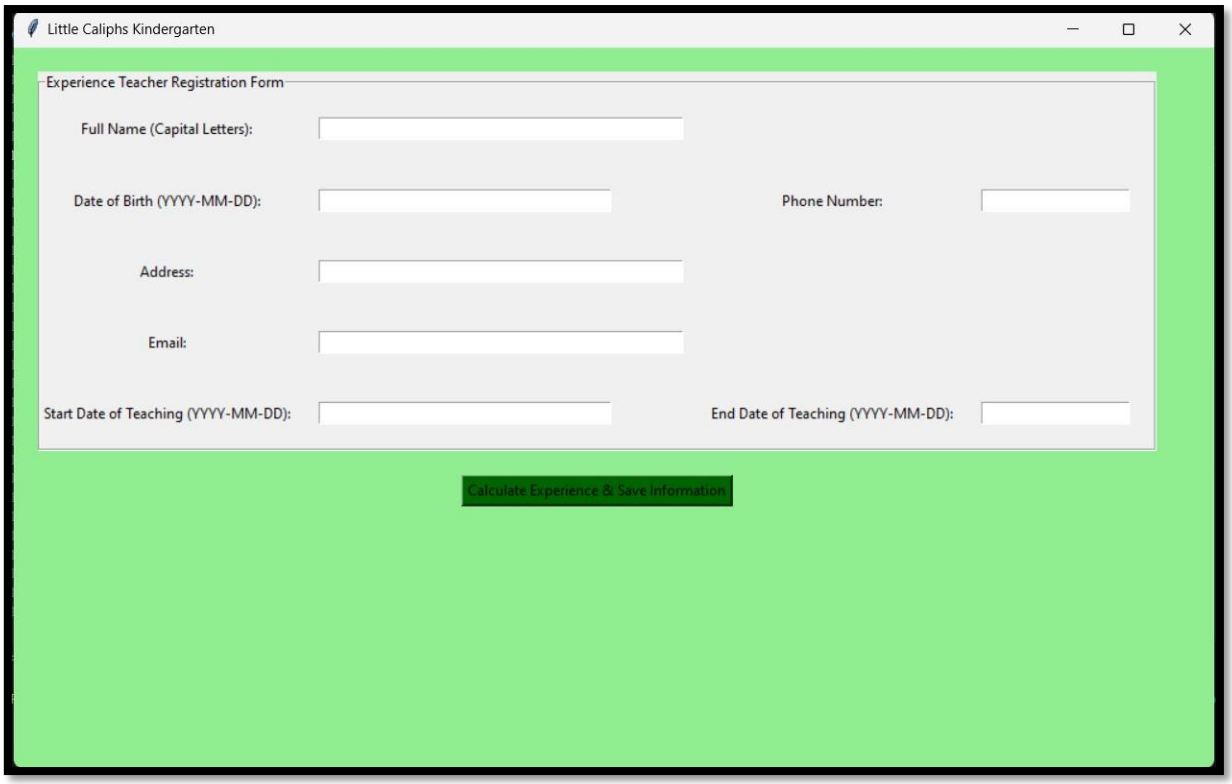
```python
import tkinter as tk
from tkinter import messagebox
from datetime import datetime
import mysql.connector

def calculate_experience(start_teaching_date, end_teaching_date):
    # Start date is in the format 'YYYY-MM-DD'
    start = datetime.strptime(start_teaching_date, "%Y-%m-%d")
    end = datetime.strptime(end_teaching_date, "%Y-%m-%d")
    experience = end - start
    experience_years = experience.days / 365
    return experience_years

def save_information():
    # Get the teacher information
    name = name_entry.get()
    date_of_birth = date_of_birth_entry.get()
    phone_number = phone_number_entry.get()
    address = address_entry.get()
    email = email_entry.get()
    start_teaching_date = start_teaching_date_entry.get()
    end_teaching_date = end_teaching_date_entry.get()

    if not name or not date_of_birth or not phone_number or not address or not email or not start_teaching_date:
        # Display an error message
        messagebox.showerror("Error", "Please fill in all the required fields")
        return

    # Calculate the teaching experience
    teaching_experience = calculate_experience(start_teaching_date, end_teaching_date)

    # Connect to the MySQL database
    try:
        connection = mysql.connector.connect(
            host="localhost",
            user="root",
            password="",
            database="teacher_registration"
        )

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

        # Create the table if it doesn't exist
        create_table_query = """
        CREATE TABLE IF NOT EXISTS teacher (
            id INT AUTO_INCREMENT PRIMARY KEY,
            name VARCHAR(255),
            date_of_birth DATE,
            phone_number VARCHAR(20),
            address VARCHAR(255),
            email VARCHAR(255),
            start_date DATE,
            end_date DATE,
            experience INT
        )
        """
        cursor.execute(create_table_query)
```

```
        # Insert the teacher information into the table
        insert_data_query = """
        INSERT INTO teacher (name, date_of_birth, phone_number, address, email, start_date, end_date, experience)
        VALUES (%s, %s, %s, %s, %s, %s, %s, %s)
        """
        data = (name, date_of_birth, phone_number, address, email, start_teaching_date, end_teaching_date, teaching_experience)
        cursor.execute(insert_data_query, data)

        # Commit the changes to the database
        connection.commit()

        # Display a success message
        messagebox.showinfo("Success", "Teacher information saved successfully!")

    except mysql.connector.Error as error:
        # Display an error message
        messagebox.showerror("Error", f"Error saving teacher information: {error}")

    finally:
        # Close the database connection
        if connection.is_connected():
            cursor.close()
            connection.close()

```

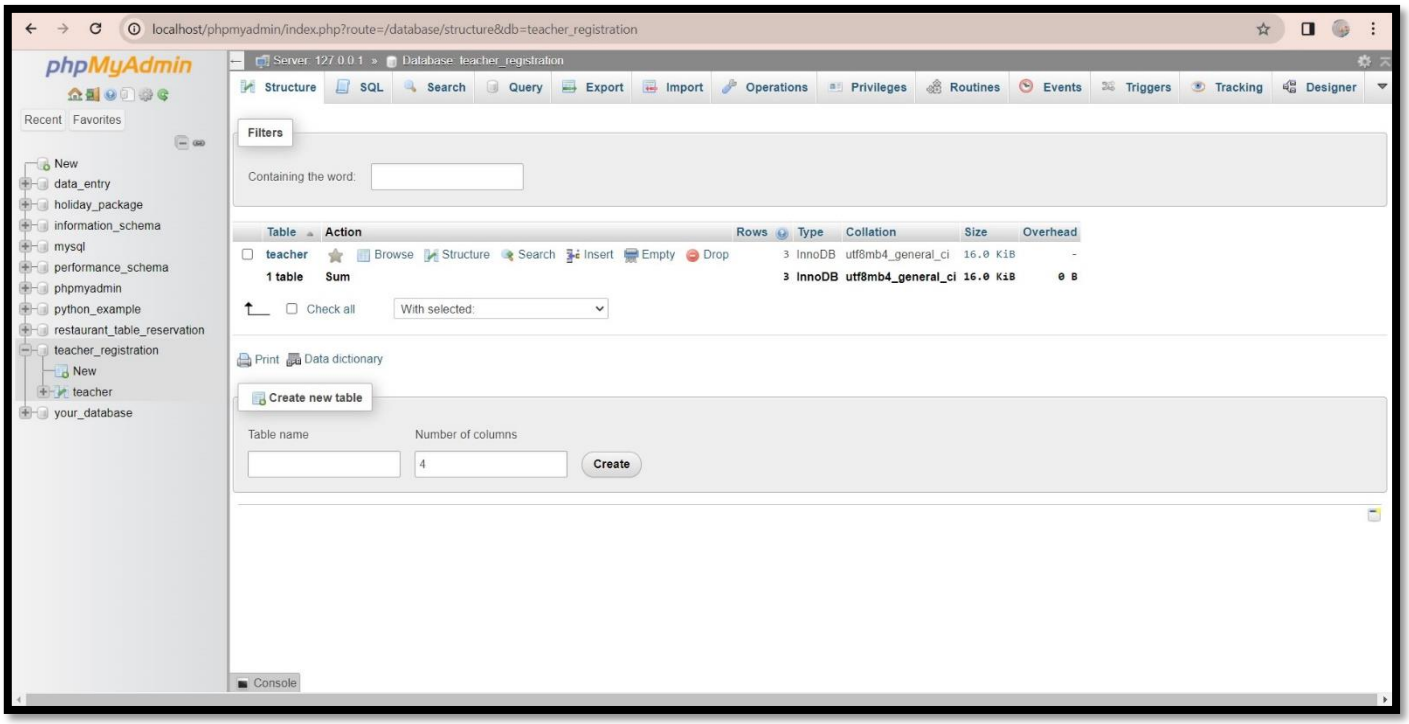
```
# Create the main root
root = tk.Tk()
root.title("Little Caliphs Kindergarten")
root.geometry("1000x600")
root.config(bg="lightgreen")

# Create teeacher registration input
teacher_info = tk.LabelFrame(root, text="Experience Teacher Registration Form")
teacher_info.grid (padx=20, pady=20,)

name_label= tk.Label(teacher_info, text="Full Name (Capital Letters):")
name_label.grid(row=0, column=0, padx=20, pady=20)
name_entry = tk.Entry(teacher_info, width=50 )
name_entry.grid(row=0, column=1, padx=20, pady=20)

date_of_birth_label= tk.Label(teacher_info, text="Date of Birth (YYYY-MM-DD):")
date_of_birth_label.grid(row=1, column=0,)
date_of_birth_entry = tk.Entry(teacher_info, width=40  )
date_of_birth_entry.grid(row=1, column=1, sticky="w", padx=20, pady=20)

phone_number_label= tk.Label(teacher_info, text="Phone Number:")
phone_number_label.grid(row=1, column=2,)
phone_number_entry = tk.Entry(teacher_info)
phone_number_entry.grid(row=1, column=3 , padx=20, pady=20)

address_label= tk.Label(teacher_info, text="Address:")
address_label.grid(row=2, column=0)
address_entry = tk.Entry(teacher_info, width=50 )
address_entry.grid(row=2, column=1, padx=20, pady=20)

```

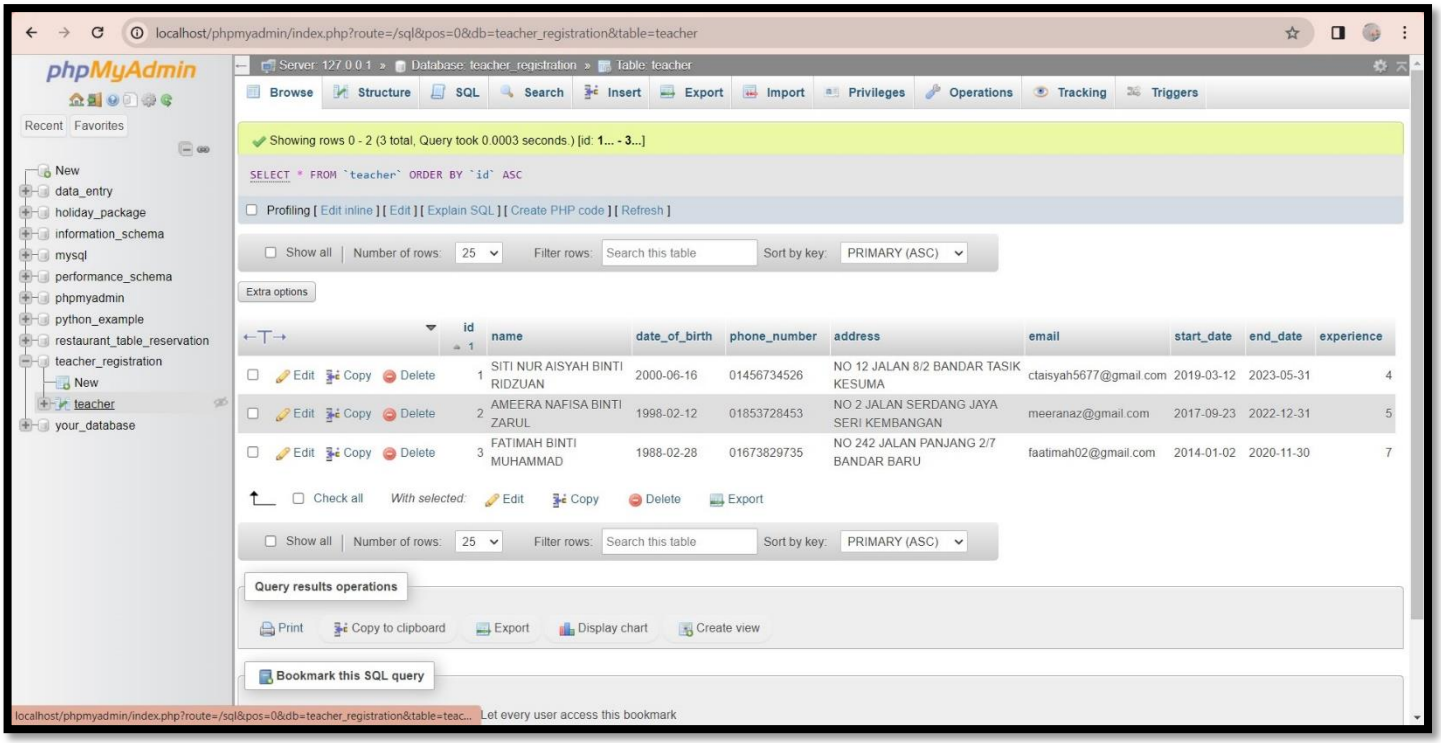
```
114
115 email_label=tk.Label(teacher_info, text="Email:")
116 email_label.grid(row=3, column=0)
117 email_entry = tk.Entry(teacher_info, width=50 )
118 email_entry.grid(row=3, column=1, padx=20, pady=20)
119
120 start_teaching_date_label = tk.Label(teacher_info, text="Start Date of Teaching (YYYY-MM-DD):")
121 start_teaching_date_label.grid(row=4, column=0)
122 start_teaching_date_entry = tk.Entry(teacher_info, width=40)
123 start_teaching_date_entry.grid(row=4, column=1, sticky="w", padx=20, pady=20)
124
125 end_teaching_date_label = tk.Label(teacher_info, text="End Date of Teaching (YYYY-MM-DD):")
126 end_teaching_date_label.grid(row=4, column=2)
127 end_teaching_date_entry = tk.Entry(teacher_info,)
128 end_teaching_date_entry.grid(row=4, column=3, padx=20, pady=20)
129
130
131 # Create save button
132 save_button = tk.Button(root, text="Calculate Experience & Save Information", command=save_information, bg="darkgreen")
133 save_button.grid()
134
135 # Start the main loop
136 root.mainloop()
```

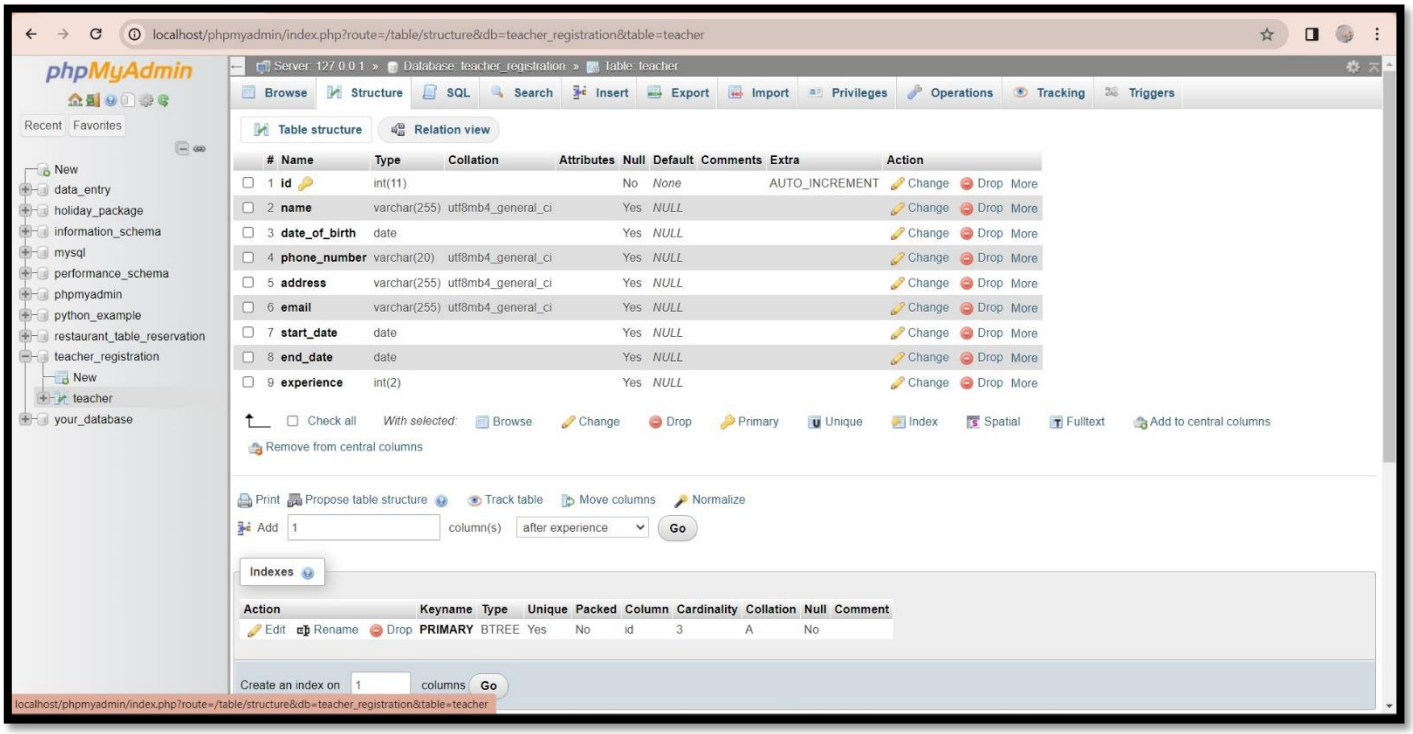
4.0 SNAPSHOT OF GRAPHIC USER INTERFACE



5.0 SNAPSHOT OF DATABASE






localhost/phpmyadmin/index.php?route=/table/structure&db=teacher_registration&table=teacher
phpMyAdmin
Recent Favorites
New
data_entry
holiday_package
information_schema
mysql
performance_schema
phpmyadmin
python_example
restaurant_table_reservation
teacher_registration
New
teacher
your_database
Server: 127.0.0.1 » Database: teacher_registration » Table: teacher
Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers
Table structure Relation view
Name Type Collation Attributes Null Default Comments Extra Action
1 id int(11) No None AUTO_INCREMENT Change Drop More
2 name varchar(255) utf8mb4_general_ci Yes NULL Change Drop More
3 date_of_birth date Yes NULL Change Drop More
4 phone_number varchar(20) utf8mb4_general_ci Yes NULL Change Drop More
5 address varchar(255) utf8mb4_general_ci Yes NULL Change Drop More
6 email varchar(255) utf8mb4_general_ci Yes NULL Change Drop More
7 start_date date Yes NULL Change Drop More
8 end_date date Yes NULL Change Drop More
9 experience int(2) Yes NULL Change Drop More
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 experience Go
Indexes
Action Keyname Type Unique Packed Column Cardinality Collation Null Comment
Edit Rename Drop PRIMARY BTREE Yes No id 3 A No
Create an index on 1 columns Go
localhost/phpmyadmin/index.php?route=/table/structure&db=teacher_registration&table=teacher