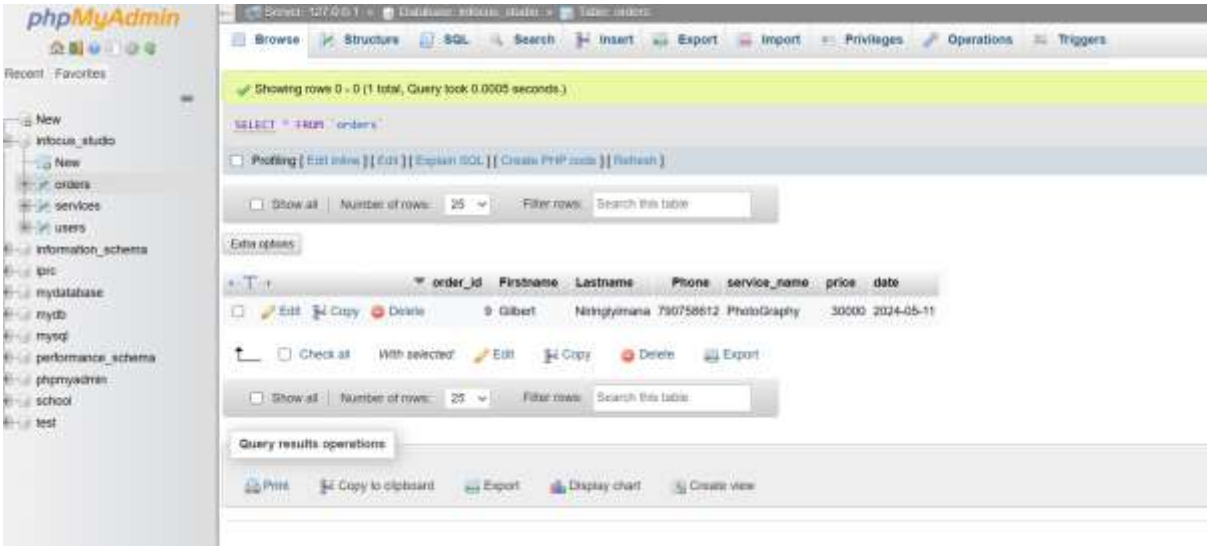
Project name: **Infocus Studio**

Infocus Studio Ltd provides easy access in photography and videography service:

Database structure:



Implementation project codes:

```
from flask import Flask, render_template, request, redirect, url_for,
session,flash
import mysql.connector

app = Flask(__name__)
app.secret_key = "your_secret_key"  # Change this to a secure random key in
production

# Function to connect to the MySQL database
def get_db_connection():
    return mysql.connector.connect(
        host='localhost',
        user='root',
        password='',
        database='infocus_studio'
    )

# Register user route
@app.route('/register', methods=['GET', 'POST'])
def register():
    if request.method == 'POST':
        firstname = request.form['firstName']
        lastname = request.form['lastName']
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        phone = request.form['phone']
        username = request.form['username']
        password = request.form['password']

        conn = get_db_connection()
        cursor = conn.cursor()
        cursor.execute('INSERT INTO users (Firstname, Lastname, phone,
Username, Password) VALUES (%s, %s, %s, %s, %s)',
                       (firstname, lastname, phone, username, password))
        conn.commit()
        cursor.close()
        conn.close()
        return redirect(url_for('login'))
    return render_template('index.html')

@app.route('/')
def index():
    return render_template('index.html')

# Login route
@app.route('/login', methods=['GET', 'POST'])
def login():
    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']

        conn = get_db_connection()
        cursor = conn.cursor(dictionary=True)
        cursor.execute('SELECT * FROM users WHERE Username = %s AND Password =
%s', (username, password))
        user = cursor.fetchone()
        cursor.close()
        conn.close()

        if user:
            session['user_id'] = user['user_id']
            return redirect(url_for('dashboard'))
        else:
            return render_template('login.html', error='Invalid username or
password')
    return render_template('login.html')

# Dashboard route
@app.route('/dashboard')
def dashboard():
    if 'user_id' in session:
        conn = get_db_connection()
        cursor = conn.cursor(dictionary=True)
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        cursor.execute('SELECT * FROM users WHERE user_id = %s',
(session['user_id'],))
        user = cursor.fetchone()
        cursor.close()
        conn.close()

        if user:
            return render_template('dashboard.html',
username=user['Username'])
    return redirect(url_for('login'))

@app.route('/order_service', methods=['GET', 'POST'])
def order_service():
    # Fetch services from the database
    services = fetch_services_from_database()

    if request.method == 'POST':
        # Retrieve form data
        firstName = request.form['firstName']
        lastName = request.form['lastName']
        phone = request.form['phone']
        service_name = request.form['service_name']
        service_price = request.form['service_price']
        date = request.form['date']

        # Fetch user data from the database based on the session
        user = fetch_user_from_session()

        if user:
            # Insert order into database
            insert_order_into_database(firstName, lastName, phone,
service_name, service_price, date)

            # Redirect or render a thank you page
            flash('Order sent successfully!', 'success')

            return redirect(url_for('order_service'))
        else:
            # Handle the case where the user session is invalid
            return redirect(url_for('login'))

    # Fetch user data from the session
    user = fetch_user_from_session()

    return render_template('order_service.html', services=services, user=user)

def fetch_user_from_session():
    # Fetch user data from the session based on the user_id
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```
    user_id = session.get('user_id')
    if user_id:
        connection = get_db_connection()
        cursor = connection.cursor(dictionary=True)
        cursor.execute("SELECT Firstname, Lastname, phone FROM users WHERE
user_id = %s", (user_id,))
        user = cursor.fetchone()
        cursor.close()
        connection.close()
        return user
    else:
        return None


def fetch_services_from_database():
    # Fetch services data from the database (replace this with your actual
database query)
    connection = get_db_connection()
    cursor = connection.cursor(dictionary=True)
    cursor.execute("SELECT service_id, service_name,price FROM services")
    services = cursor.fetchall()
    cursor.close()
    connection.close()
    return services

def get_service_price_from_database(service_id):
    # Fetch service price from the database (replace this with your actual
database query)
    connection = get_db_connection()
    cursor = connection.cursor()
    cursor.execute("SELECT price FROM services WHERE service_id = %s",
(service_id,))
    result = cursor.fetchone()
    cursor.close()
    connection.close()
    if result:
        return result[0]
    else:
        return None

def insert_order_into_database(firstName, lastName, phone, service_name,
service_price, date):
    # Insert order into the database (replace this with your actual database
insert statement)
    connection = get_db_connection()
    cursor = connection.cursor()
    cursor.execute("INSERT INTO orders (Firstname, Lastname, phone,
service_name, price, date) VALUES (%s, %s, %s, %s, %s, %s)",
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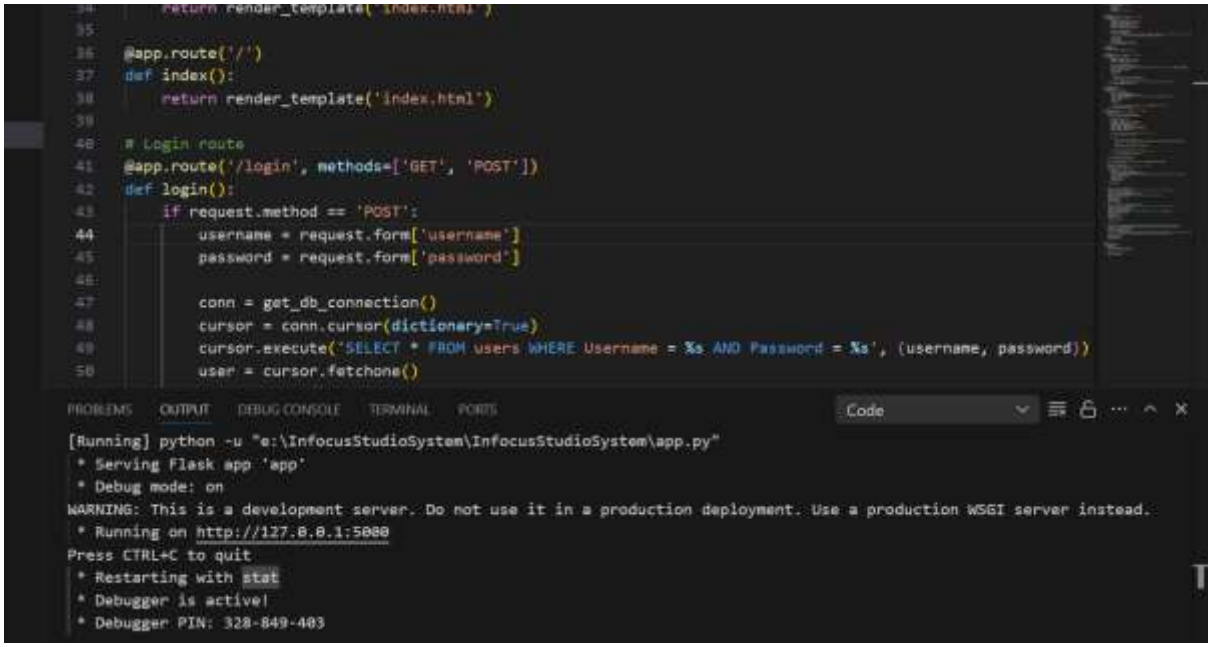
                    (firstName, lastName, phone, service_name, service_price,
date))
    connection.commit()
    cursor.close()
    connection.close()

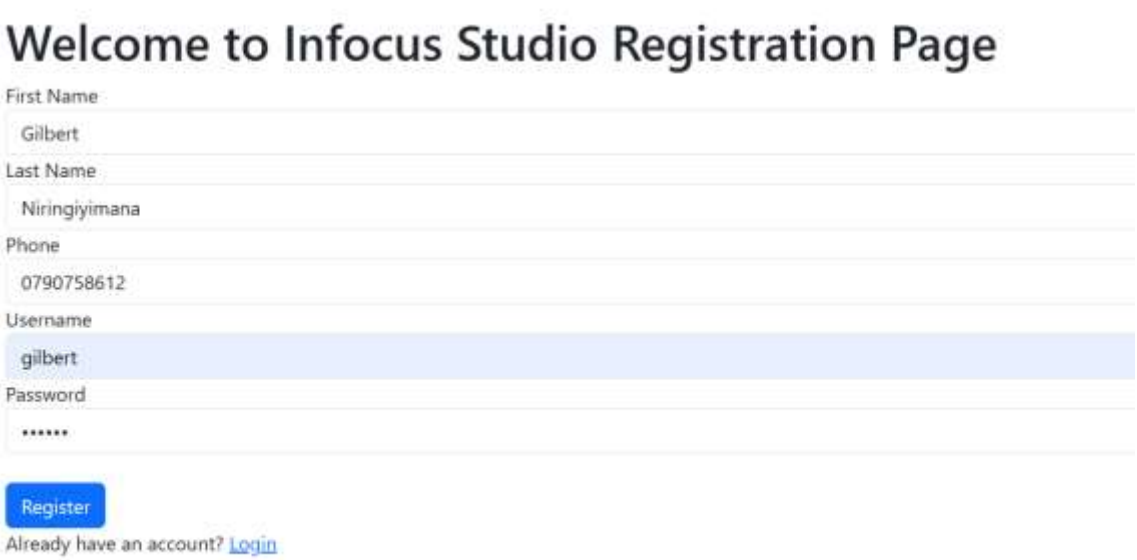

# Logout route
@app.route('/logout')
def logout():
    session.pop('user_id', None)
    return redirect(url_for('login'))

if __name__ == '__main__':
    app.run(debug=True)
```

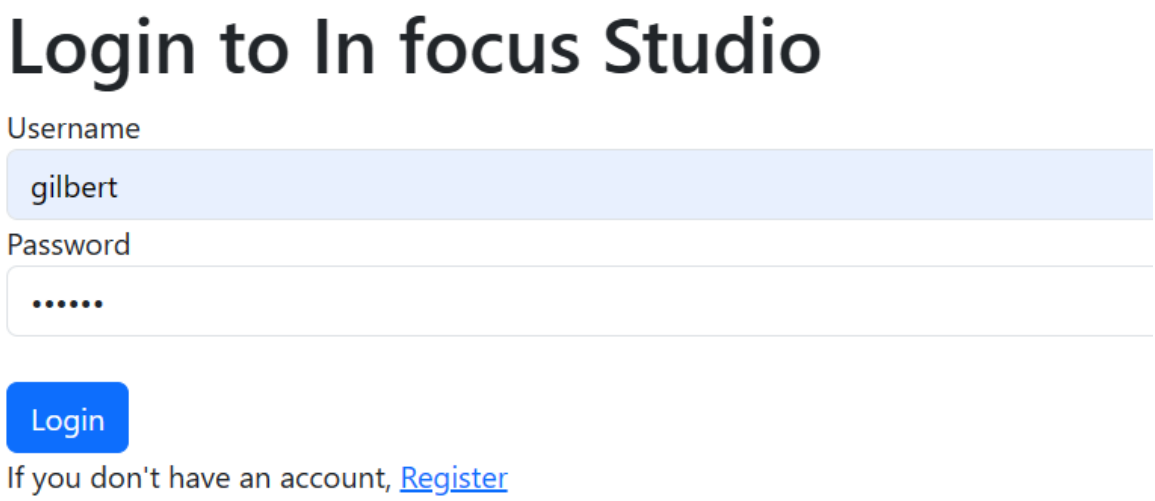
if we run our code:



1. Register the clients

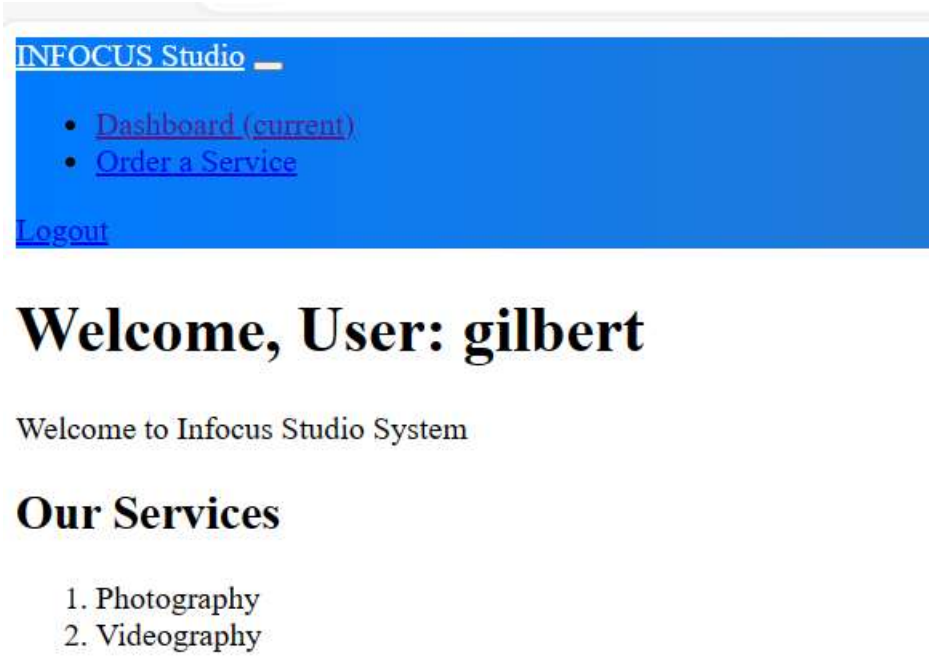


After register please login:

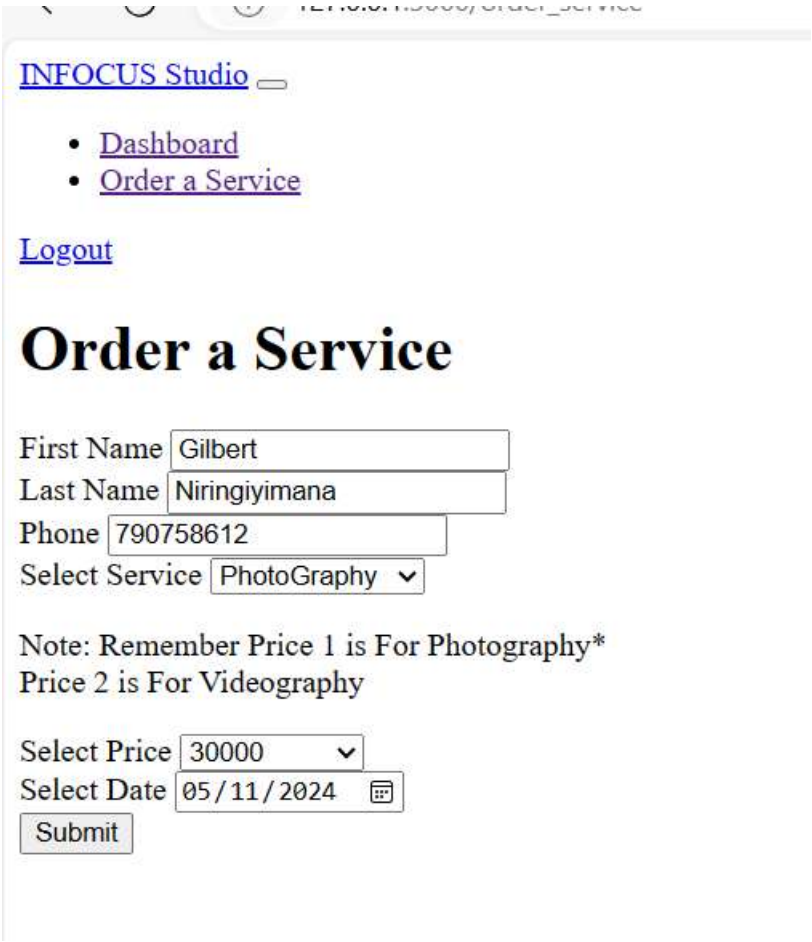


After login you will go to the dashboard please select one of 2 services

2. Request and order the photography day
3. Request and order the videography day



4. Pay for the services



5. Receive the confirmation message

6. Accessing their pictures easily
   Logout in the system