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Subject: IT MAJOR ELECTIVE 1

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Activity: POSTGRE

```
from flask import Flask, render template, request, redirect, url for
import psycopg2
app = Flask( name )
def connect_to_database():
    connection = psycopg2.connect(
    host ="localhost",
    database="databasepostgresql",
    user ="postgres",
    password="admin1234"
  )
  return connection
def create table():
  conn = connect_to_database()
  cursor = conn.cursor()
  cursor.execute("
      CREATE TABLE IF NOT EXISTS user_data (
      id SERIAL PRIMARY KEY,
      first name TEXT NOT NULL,
       middle_name TEXT NOT NULL,
      last name TEXT NOT NULL,
       contact TEXT,
       student_number TEXT
    )
  "")
  conn.commit()
  conn.close()
def insert_data(first_name, middle_name, last_name, contact, student_number):
  conn = connect to database()
  cursor = conn.cursor()
  cursor.execute(""
    INSERT INTO user_data (first_name, middle_name, last_name, contact, student_number)
    VALUES (%s, %s, %s, %s, %s)
  "", (first_name, middle_name, last_name, contact, student_number))
  conn.commit()
  conn.close()
def get_all_data():
  conn = connect to database()
  cursor = conn.cursor()
  cursor.execute("SELECT * FROM user_data")
  data = cursor.fetchall()
  conn.close()
  return data
@app.route("/")
def main():
  return render template('task04postgre index.html')
```

```
@app.route("/home", methods=['POST', 'GET'])
def display():
    if request.method == 'POST':
    first name = request.form['fname']
    middle name = request.form['midname']
    last_name = request.form['Iname']
    contact = request.form['tel']
    student number = request.form['usn']
    insert_data(first_name, middle_name, last_name, contact, student_number)
  data = get all data()
  return render_template('task04postgre_display.html', htmldata=data)
@app.route("/edit/<int:id>", methods=['GET', 'POST'])
def edit(id):
  conn = connect to database()
  cursor = conn.cursor()
  if request.method == 'POST':
    first name = request.form['fname']
    middle name = request.form['midname']
    last_name = request.form['Iname']
    contact = request.form['tel']
    student_number = request.form['usn']
    cursor.execute(""
       UPDATE user data
       SET first name=%s, middle name=%s, last name=%s, contact=%s, student number=%s
       WHERE id=%s
    "", (first_name, middle_name, last_name, contact, student_number, id))
    conn.commit()
    conn.close()
    return redirect(url_for('display'))
    cursor.execute("SELECT * FROM user_data WHERE id=%s", (id,))
    data = cursor.fetchone()
    conn.close()
    return render_template('task04postgre_edit.html', htmldata=data)
@app.route("/delete/<int:id>")
def delete(id):
  conn = connect to database()
  cursor = conn.cursor()
  cursor.execute("DELETE FROM user_data WHERE id=%s", (id,))
  conn.commit()
  conn.close()
  return redirect(url_for('display'))
if __name__ == '__main__':
  app.run(host='0.0.0.0', debug=True)
```

task04postgre_display.html

```
<!DOCTYPE html>
<html>
<head>
 <title>Display Page</title>
</head>
<body>
 <h1>POSTGRESQL Data</h1>
 ID
     First Name
     Middle Name
     Last Name
     Contact
     Student Number
     Action
   {% for row in htmldata %}
     {{ row[0] }}
     {{ row[1] }}
     {{ row[2] }}
     {{ row[3] }}
     {{ row[4] }}
     {{ row[5] }}
     <a href="{{ url_for('edit', id=row[0]) }}">Edit</a> |
       <a href="{{ url_for('delete', id=row[0]) }}" onclick="return confirm('Are you sure you
want to delete this record?')">Delete</a>
     {% endfor %}
 <a href="{{ url_for('main') }}">Click to form</a>
</body>
</html>
```

task04postgre_edit.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Edit User Data</title>
</head>
<body>
  <h1>Edit User Data</h1>
  <form method="POST">
    <input type="hidden" name="id" value="{{ htmldata[0] }}">
    <label for="fname">First Name:</label>
    <input type="text" name="fname" value="{{ htmldata[1] }}" required><br>
    <label for="midname">Middle Name:</label>
    <input type="text" name="midname" value="{{ htmldata[2] }}" required><br>
    <label for="Iname">Last Name:</label>
    <input type="text" name="Iname" value="{{ htmldata[3] }}" required><br>
    <label for="tel">Contact:</label>
    <input type="tel" name="tel" value="{{ htmldata[4] }}"><br>
    <label for="usn">Student Number:</label>
    <input type="text" name="usn" value="{{ htmldata[5] }}" required><br>
    <input type="submit" value="Save">
  </form>
  <a href="{{ url_for('display') }}">Back to User Data</a>
</body>
</html>
```

task04postgre_index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Input Page</title>
</head>
<body>
  <h1>POSTGRESQL Data</h1>
  <form method="POST" action="/home">
    <label for="fname">First Name:</label>
    <input type="text" id="fname" name="fname" placeholder="Firstname" required
><br><br>
    <label for="midname">Middle Name:</label>
    <input type="text" id="midname" name="midname" placeholder="Middlename" required
><br><br>
    <label for="lname">Last Name:</label>
    <input type="text" id="lname" name="lname" placeholder="Lastname"
required><br><br>
    <label for="tel">Contact Number:</label>
    <input type="text" id="tel" name="tel" placeholder="Contact" required><br>
    <label for="usn">Student Number (USN):</label>
    <input type="text" id="usn" name="usn" placeholder="Student Number"><br>
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```