

IMPLEMENTING WEB APPLICATION

CREATE IBM DB2 AND CONNECT WITH PYTHON

Date	10 November 2022
Team ID	PNT2022TMID53745
Project Name	Nutrition Assistant Application
Maximum Marks	2 Marks

Table created in ibm_db2 :

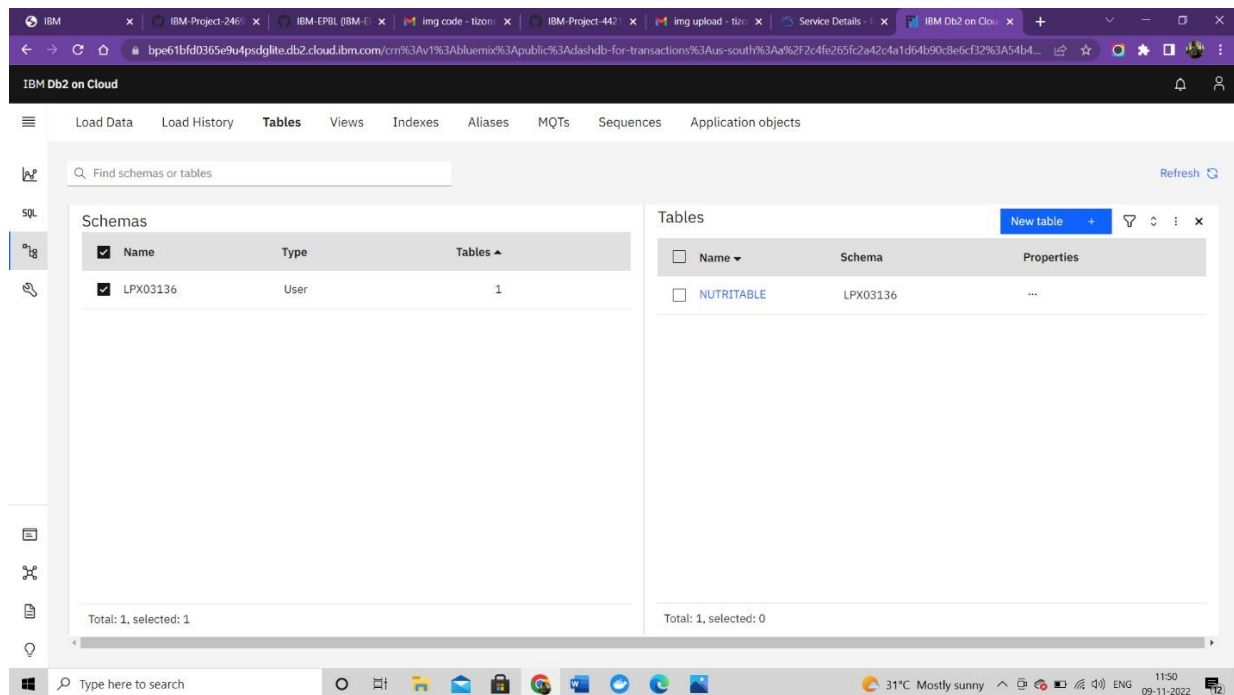


Table attributes :

The screenshot shows the IBM Db2 on Cloud web interface. The 'Tables' tab is selected, displaying a list of tables. The table 'NUTRITABLE' is highlighted, and its definition is shown on the right. The table has the following attributes:

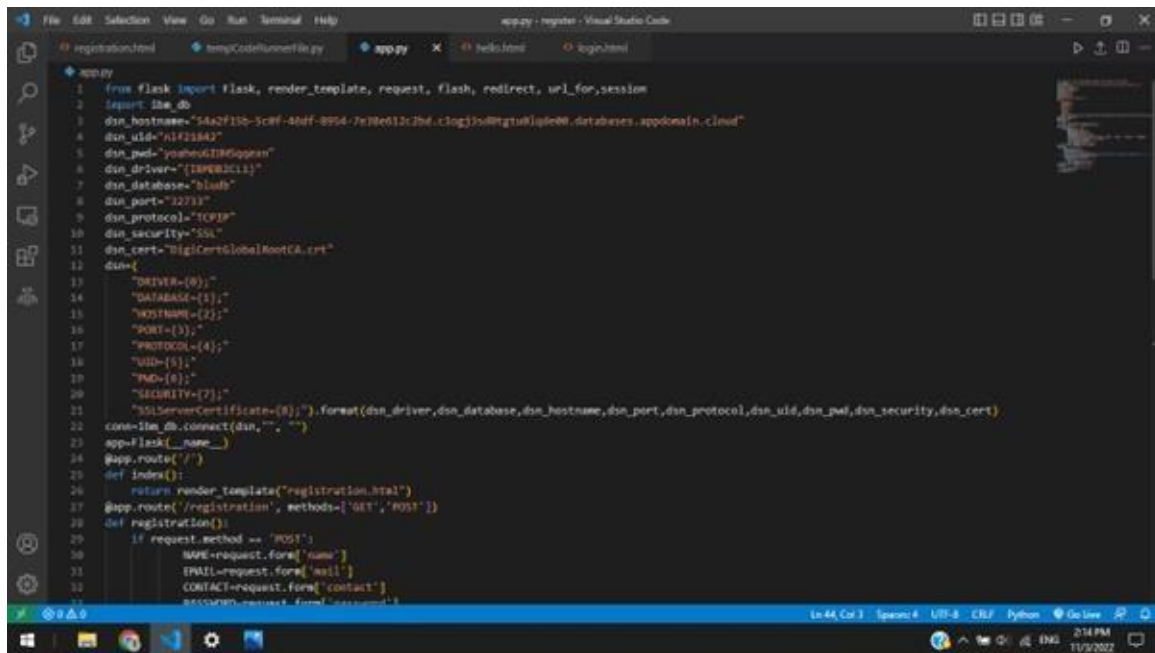
Name	Data type	Nullable	Length	Scale
ROLLNO	INTEGER	Y		0
NAME	CHAR	Y	32	0
EMAIL	CHAR	Y	64	0
PASSWORD	VARCHAR	Y	32	0

The interface also shows a search bar for schemas or tables, a 'New table' button, and a 'View data' button. The bottom status bar indicates the system is running on a Windows machine with a temperature of 31°C and a date of 09-11-2022.

IBM DB2 created And Connected With Python

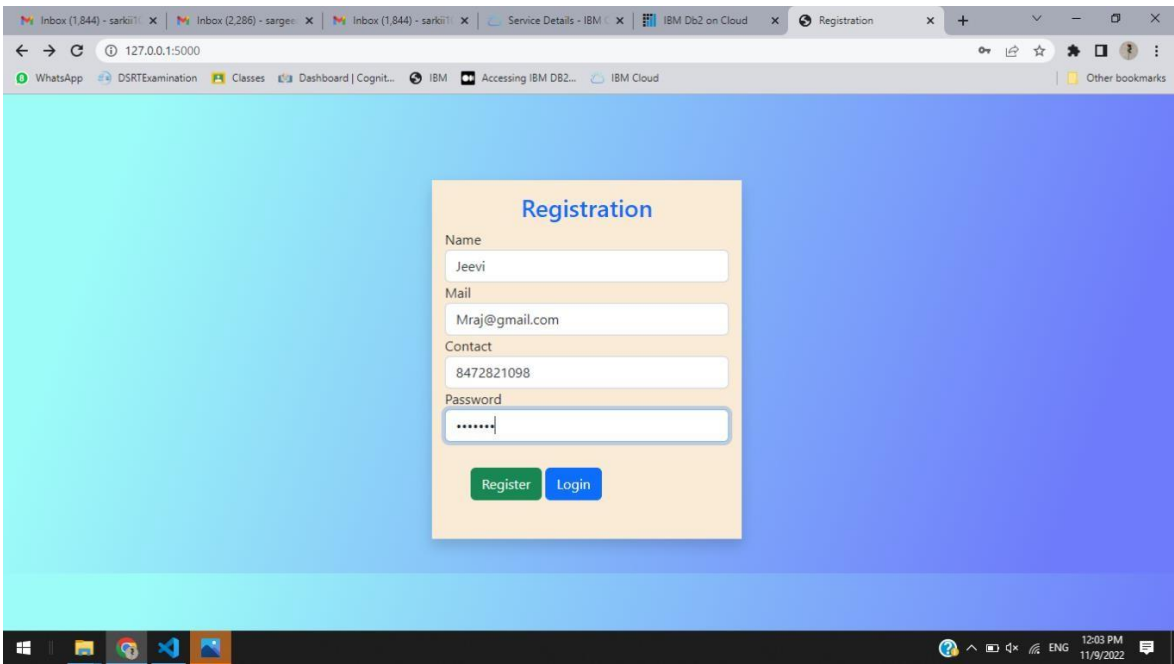
The screenshot shows a Python application running in a Visual Studio Code editor. The application is named 'app.py' and is located in the 'register' directory. The code defines a Flask application with two main routes: 'registration' and 'login'. The 'registration' route handles POST requests and inserts data into the 'NUTRITABLE' table. The 'login' route handles POST requests and checks if a user exists in the 'NUTRITABLE' table. The application is configured to run on port 5000.

```
app.py
26 return render_template("registration.html")
27 @app.route('/registration', methods=['GET', 'POST'])
28 def registration():
29     if request.method == 'POST':
30         NAME=request.form['name']
31         EMAIL=request.form['mail']
32         CONTACT=request.form['contact']
33         PASSWORD=request.form['password']
34         insertQuery="INSERT INTO NUTRITABLE VALUES('"+NAME+"','"+EMAIL+"','"+CONTACT+"','"+PASSWORD+"')"
35         insertStmt=ibm_db.prepare(conn, insertQuery)
36         ibm_db.execute(insertStmt)
37         return redirect(url_for("login"))
38     return render_template("registration.html")
39 @app.route('/login', methods=['GET', 'POST'])
40 def login():
41     if request.method == 'POST':
42         name=request.form['name']
43         password=request.form['password']
44         query="select COUNT(*) from nutritible where name='"+name+"' and password='"+password+"'"
45         stmt5=ibm_db.exec_immediate(conn, query)
46         row=ibm_db.fetch_tuple(stmt5)
47         if (row[0]==1):
48             return redirect(url_for("hello"))
49     return render_template("login.html")
50 @app.route('/hello', methods=['GET', 'POST'])
51 def hello():
52     return render_template("hello.html")
53 if __name__ == "__main__":
54     app.run(debug=True)
```



```
1 from flask import Flask, render_template, request, flash, redirect, url_for, session
2 import db
3 db_host_name="14a2f1b0-5cef-4bdf-8954-7e38e12c2b6c.logj3d8gtu8k1qle00.databases.appdomain.cloud"
4 db_uid="n1f21842"
5 db_pwd="youareGIRLgppan"
6 db_driver="IBMDB2CLI"
7 db_database="blubb"
8 db_port="12213"
9 db_protocol="TCP/IP"
10 db_security="SSL"
11 db_cert="BigiCertGlobalRootCA.crt"
12 db={
13     "DRIVER":(0),
14     "DATABASE":(1),
15     "HOSTNAME":(2),
16     "PORT":(3),
17     "PROTOCOL":(4),
18     "UID":(5),
19     "PWD":(6),
20     "SECURITY":(7),
21     "SSLServerCertificate":(8)}.format(db_driver,db_database,db_host_name,db_port,db_protocol,db_uid,db_pwd,db_security,db_cert)
22 conn=db.db.connect(db, "", "")
23 app=Flask(__name__)
24 @app.route("/")
25 def index():
26     return render_template("registration.html")
27 @app.route("/registration", methods=['GET','POST'])
28 def registration():
29     if request.method == 'POST':
30         NAME=request.form['name']
31         EMAIL=request.form['mail']
32         CONTACT=request.form['contact']
33         PASSWORD=request.form['password']
```

Registering :



Registration

Name
Jeevi

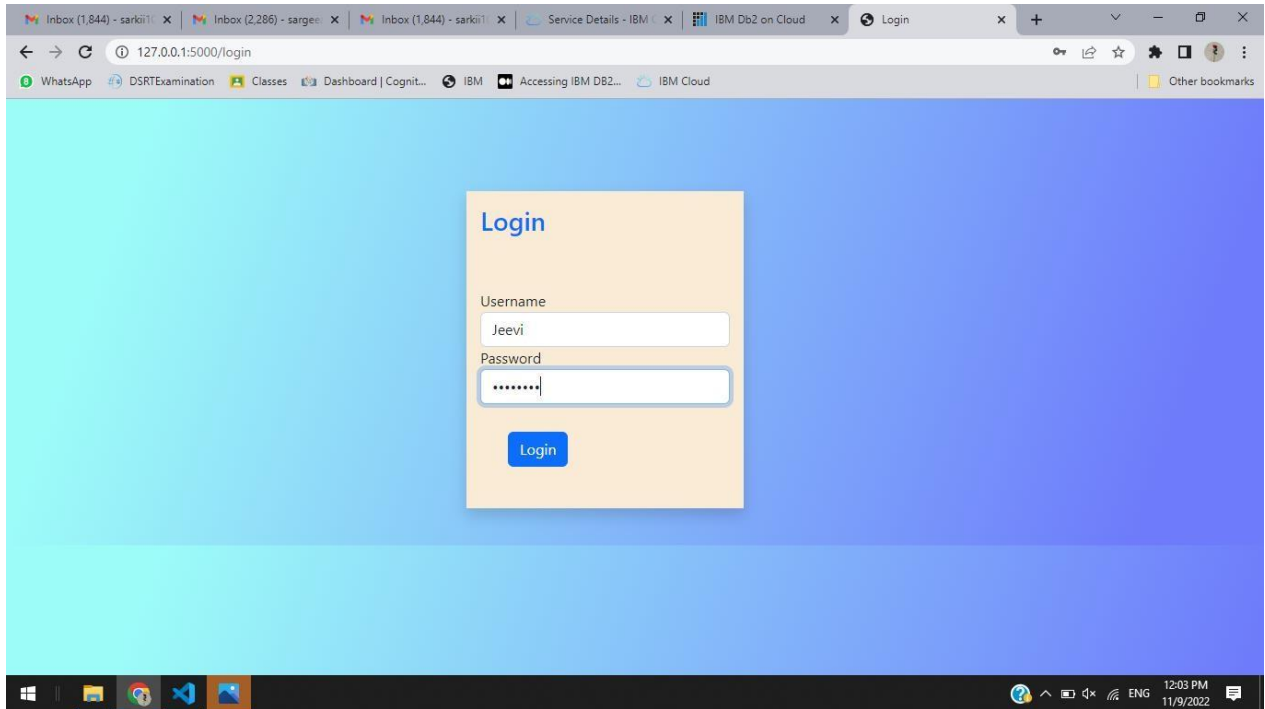
Mail
Mr@j@gmail.com

Contact
8472821098

Password

Register Login

Log in :



Database :

ROLLNO	NAME	EMAIL	PASSWORD
1	Pradeepa	Tizon@gmail.com	Lucky@7
2	Suji	Bujji@gmail.com	Lucky@8
3	Sargee	Bocthuu@gmail.com	Lucky@77
4	Jeevi	Mranj@gmail.com	Lucky@27