

# IMPLEMENTING WEB APPLICATION

## Create IBM DB2 and Connect with Python

Team ID	PNT2022TMID46351
Project Name	Nutrition Assistant Application

### Code:

```
import Flask,render_template, request, redirect, url_for, session

import ibm_db
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;
PORT=32459;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=flg36832;PWD=inj6N0FQbZdukmqv",'','')
app = Flask(__name__)

@app.route("/")
def Log():
    return render_template('LoginRegister.html')

@app.route("/")
def Regs():
    return render_template('LoginRegister.html')

print('Database connected Successfully')

@app.route('/Register', methods=['POST', 'GET'])
def Register():
    if request.method == 'POST':
        name = request.form['username']
        email = request.form['Emailaddress']
        password = request.form['password']
        sql = "SELECT * FROM Register WHERE email =?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, email)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        if account:
            return render_template('LoginRegister.html', msg="You are already a member, please login using your details")
        else:
            insert_sql = "INSERT INTO Register VALUES (?,?)"
            prep_stmt = ibm_db.prepare(conn, insert_sql)
            ibm_db.bind_param(prepare_stmt, 1, name)
            ibm_db.bind_param(prepare_stmt, 2, email)
```

```

        ibm_db.bind_param(prepare_stmt, 1, name)
        ibm_db.bind_param(prepare_stmt, 2, email)
        ibm_db.bind_param(prepare_stmt, 3, password)
        ibm_db.execute(prepare_stmt)

    return render_template('LoginRegister.html', msg="Data saved successfully..Please login using your details")

@app.route('/Login', methods=['POST'])
def Login():
    email = request.form['username']
    password = request.form['password']

    sql = "SELECT * FROM Register WHERE Emailaddress =? AND password=?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt, 1, email)
    ibm_db.bind_param(stmt, 2, password)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    if account:
        return render_template('home.html')
    else:
        return render_template('LoginRegister.html', msg="Login unsuccessful. Incorrect username / password !")

print('Database connected')

```

## Outputs:

The screenshot shows the IBM Cloud console interface. At the top, there's a navigation bar with the IBM Cloud logo, a search bar, and user account information. Below the navigation bar, the main content area is titled 'Resource list / Db2-e1'. On the left, there's a sidebar with a 'Manage' section containing links for 'Getting started', 'Service credentials', and 'Connections'. The 'Getting started' link is selected. The main content area displays a 'Getting started' section with instructions on how to find credentials and a 'Need help?' section with a link to submit a support case. There are buttons for 'Go to UI' and 'Getting started docs'.

IBM Cloud

Search resources and products...

Resource list / Db2-e1

Active Add tags

Details Actions...

Manage

Getting started

Service credentials

Connections

Getting started

Where can I find my credentials?  
Get your username and password by clicking the "Service Credentials" link to the left and selecting "New Credentials".  
Don't see this menu on the left? Click on "Manage in IBM Cloud" to open the IBM Cloud dashboard.

Go to UI

Getting started docs

Need help?

Submit a IBM Cloud Support Case to our team.

Support case

The screenshot shows the IBM Cloud console interface, specifically the 'Service credentials' section for resource Db2-e1. The navigation bar and sidebar are the same as in the previous screenshot. The 'Service credentials' link is selected in the sidebar. The main content area displays a 'Service credentials' section with instructions on how to generate new credentials. Below this, there's a table with columns for 'Key name' and 'Date created'. A 'New credential' button is visible in the top right corner of the table area. The table contains one entry: 'Service credentials-1' created on '2022-11-20 10:29 AM'.

IBM Cloud

Search resources and products...

Resource list / Db2-e1

Active Add tags

Details Actions...

Manage

Getting started

Service credentials

Connections













Service credentials

You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

Search credentials...

New credential

Key name	Date created
Service credentials-1	2022-11-20 10:29 AM



Resource usage

Last 1 hour

▼

Storage (10M / 200M)

5%

current value

Storage usage (%)

100

80

60

40

20

0

09:18 AM

09:40 AM

10:00 AM

10:18 AM

Time