## **Create IBM DB2 and Connect with Python**

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Project Name	News Tracker Application

## **Create IBM DB2 and Connect with Python:**

```
from flask import Flask, render template, request
import ibm db
import bcrypt
from dotenv import load dotenv
import os
load dotenv()
db = os.getenv("DATABASE")
host = os.getenv("HOSTNAME")
port = os.getenv("PORT")
sslcert = os.getenv("SSLServerCertificate")
userId = os.getenv("UID")
password = os.getenv("PWD")
print(db,port)
conn =
ibm db.connect(f'DATABASE={db};HOSTNAME={host};PORT={p
ort};SECURITY=SSL;SSLServerCertificate={sslcert};UID={userId};P
WD={password}',",")
```

```
app = Flask(__name__)
@app.route('/')
def index():
  return render template('index.html', title='Home')
@app.route('/about')
def about():
  return render template('about.html', title='About')
@app.route('/signin', methods=['GET', 'POST'])
def signin():
  if request.method == 'POST':
    email = request.form['email']
    pwd = request.form['password']
    sql = "SELECT password FROM users WHERE email =?"
    stmt = ibm db.prepare(conn, sql)
    ibm db.bind param(stmt, 1, email)
    ibm db.execute(stmt)
    auth_token = ibm_db.fetch_assoc(stmt)
    print("auth",auth token)
    if auth token:
      # encoding user password
      userBytes = pwd.encode('utf-8')
```

```
byte pwd = bytes(auth token['PASSWORD'], 'utf-8')
      # checking password
      result = bcrypt.checkpw(userBytes, byte pwd)
      if result:
        print("succ")
        return render template('index.html', succ="Logged in
Successfully")
      else:
        return render template('signin.html', fail="Invalid
Credentials")
    else:
      return render template('signup.html', fail="User doesn't
exist, Please Register using your details!")
  else:
    return render template('signin.html', title='Sign In')
@app.route('/signup', methods=['POST', 'GET'])
def signup():
  if request.method == 'POST':
    username = request.form['username']
    password = request.form['password']
    email = request.form['email']
    name = request.form['name']
    sql = "SELECT * FROM users 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)
    # converting password to array of bytes
    bytes = password.encode('utf-8')
    # generating the salt
    salt = bcrypt.gensalt()
    # Hashing the password
    hashed password = bcrypt.hashpw(bytes, salt)
    password = hashed password
    if account:
      return render template('signin.html', msg="You are
already a member, please login using your details")
    else:
      insert sql = "INSERT INTO users (username, password,
name, email) VALUES (?,?,?,?)"
      prep stmt = ibm db.prepare(conn, insert sql)
      ibm db.bind param(prep stmt, 1, username)
      ibm db.bind param(prep stmt, 2, password)
      ibm db.bind param(prep stmt, 3, name)
      ibm db.bind param(prep stmt, 4, email)
      ibm db.execute(prep stmt)
      return render template('index.html', title="Home",
succ="Registration Successfull!")
```

## return render\_template('signup.html', title='Sign Up')

```
if__name__== "__main__":
    app.run(debug=True)
```

## **Outputs:**





