SPRINT-4

Date	17 November 2022
Team Id	PNT2022TMID33615
Project Name	Skills and Job Recommender
Marks	20 Marks

CREATING PYTHON FLASK AND INTEGRATING ALL THE SERVICES SPECIFIED IN SPRINT-1:

```python
from flask import Flask,render_template,redirect,request,url_for

import ibm_db

import ibm_boto3
from ibm_botocore.client import Config, ClientError

COS_ENDPOINT="https://s3.jp-tok.cloud-object-storage.appdomain.cloud"
COS_API_KEY_ID="8ir_OK_kdjY8SXvQXnvcYD34CrCrX7TIELEbWpzBQCFH"
COS_INSTANCE_CRN="crn:v1:bluemix:public:cloud-object-
storage:global:a/cac77355b8e64285ab5824053ea1e90d:66b5a2a3-b654-458e-b4af-
b3c551fc5b0f::"


cos = ibm_boto3.resource("s3",
    ibm_api_key_id=COS_API_KEY_ID,
    ibm_service_instance_id=COS_INSTANCE_CRN,
    config=Config(signature_version="oauth"),
    endpoint_url=COS_ENDPOINT
)


app=Flask(__name__)

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

@app.route("/login")
def login():
    return render_template("login.html")

@app.route("/checkuserExistence",methods=['post'])
```

```python
def checkuserExistence():
    conn = ibm_db.connect("DATABASE=bludb ; HOSTNAME=6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=mzz66103;PWD=EIjmVVQ9CytfCyN
c;", '', '')
    print("Cloud Connected Successfully!!")

    mail=request.form['mail']

    sql = "select *from green_starts WHERE mail=?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt, 1,mail )
    ibm_db.execute(stmt)
    user_checkIn = ibm_db.fetch_assoc(stmt)


    image="/static/images/image2.gif"
    msg1="Ooops!"
    msg2="This E-Mail is Already Exist!!"

    if user_checkIn:
        return
render_template("notification.html",image=image,msg1=msg1,msg2=msg2)
    else:
        return render_template("signup.html",usermail=mail)


@app.route("/getdetails",methods=['post','get'])
def getdetails():
    conn = ibm_db.connect("DATABASE=bludb ; HOSTNAME=6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=mzz66103;PWD=EIjmVVQ9CytfCyN
c;", '', '')
    print("Cloud Connected Successfully!!")


    name=request.form['name']
    fname=request.form['fname']
    mail=request.form['email']
    mobile=request.form['mbno']
    password=request.form['pass']
    dob=request.form['dob']
    country=request.form['country']
    gender=request.form['gender']
```

```python
    sql="INSERT INTO green_starts values(?,?,?,?,?,?,?,?)"
    stmt=ibm_db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,name)
    ibm_db.bind_param(stmt,2,fname)
    ibm_db.bind_param(stmt,3,mail)
    ibm_db.bind_param(stmt,4,mobile)
    ibm_db.bind_param(stmt,5,password)
    ibm_db.bind_param(stmt,6,dob)
    ibm_db.bind_param(stmt,7,country)
    ibm_db.bind_param(stmt,8,gender)
    ibm_db.execute(stmt)

    print("Account is Created !!")
    print(name+" "+fname+" "+mail+" "+mobile+" "+password+" "+dob+" "+country+"
"+gender)

    image="/static/images/tick1.gif"
    msg1="Congratulation!"
    msg2="Your Account has been Successfully Created!!"
    return render_template("notification.html",image=image,msg1=msg1,msg2=msg2)

@app.route("/checkuser",methods=['post'])
def checkuser():
    conn = ibm_db.connect("DATABASE=bludb ; HOSTNAME=6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=mzz66103;PWD=EIjmVVQ9CytfCyN
c;", '', '')
    print("Cloud Connected Successfully!!")

    mail=request.form['email']
    password=request.form['pass']

    if mail=="Admin@gmail.com" and password=="Admin":
        print("Admin Login")
        return render_template("admin.html")

    print(mail+" "+password)

    sql = "select *from green_starts WHERE mail=?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt, 1,mail )
    ibm_db.execute(stmt)
    lis = ibm_db.fetch_assoc(stmt)
```

```python
        image="/static/images/image2.gif"
        msg1="Ooops!"
        msg2="This E-Mail Doesn't Exist!!"

        if lis:
            sql="SELECT password from green_starts WHERE mail=?"
            stmt=ibm_db.prepare(conn,sql)
            ibm_db.bind_param(stmt,1,mail)
            ibm_db.execute(stmt)

            lis=ibm_db.fetch_assoc(stmt)


            e=lis.get('PASSWORD')


            if e==password:
                print("Logged in successfully!!")
                return  redirect(url_for('.user1',mail=mail))

            else:
                print("****Error****")
                return
render_template("notification.html",image=image,msg1=msg1,msg2="You Have Entered
Wrong Password!!")

        else:
            return
render_template("notification.html",image=image,msg1=msg1,msg2=msg2)



#                       **********    Object Storage      **********

def get_bucket_contents(bucket_name):
    print("Retrieving bucket contents from: {0}".format(bucket_name))
    try:
        files = cos.Bucket(bucket_name).objects.all()
        files_names = []
        for file in files:
            files_names.append(file.key)
            print("Item: {0} ({1} bytes).".format(file.key, file.size))
        return files_names
    except ClientError as be:
        print("CLIENT ERROR: {0}\n".format(be))
```

```python
    except Exception as e:
        print("Unable to retrieve bucket contents: {0}".format(e))

@app.route('/user1',methods=['post','get'])
def user1():
    mail=request.args['mail']

    conn = ibm_db.connect("DATABASE=bludb ; HOSTNAME=6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=mzz66103;PWD=EIjmVVQ9CytfCyN
c;", '', '')
    print("Cloud Connected Successfully!!")

    sql="SELECT * from green_starts WHERE mail=?"
    stmt=ibm_db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,mail)
    ibm_db.execute(stmt)

    lis=ibm_db.fetch_assoc(stmt)

    a=lis.get('UNAME')
    b=lis.get('FNAME')
    c=lis.get('MAIL')
    d=lis.get('MOBILE')
    e=lis.get('PASSWORD')
    f=lis.get('DOB')
    g=lis.get('COUNTRY')
    h=lis.get('GENDER')

    files = get_bucket_contents('green-starts')
    return render_template('user1.html', files =
files,mail=mail,username=a,fname=b,usermail=c,mobile=d,country=g,gender=h)


if __name__=="__main__":
    app.run(host="0.0.0.0",port="8020",debug=True)
```