Sprint - 4

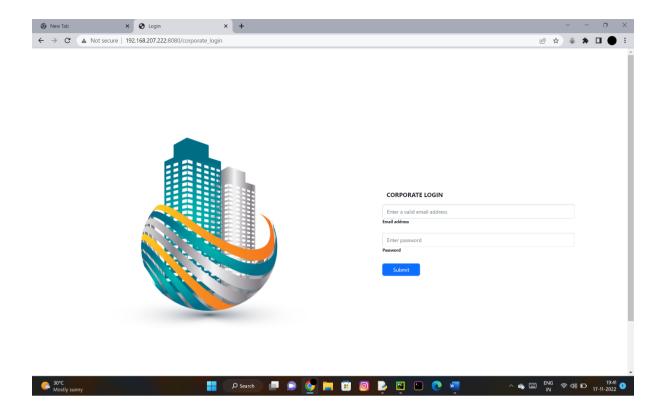
Date	17 November 2022
Team ID	PNT2022TMID05552
Project Name	Project: Skills <u>And</u> Job Recommender
Marks	20 Marks

1. Creating corporate login and post job page with python codings

1.1 Corporate login:

```
{% extends "bootstrap/base.html" %}
{% block title %}Login{% endblock %}
{% block styles %}
{{super()}}
<link rel="stylesheet" href="{{url for('static', filename='style.css')}}">
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.
css" rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi
" crossorigin="anonymous">
{% endblock %}
{% block content %}
<div class="Login-form">
 <section class="vh-100">
 <div class="container-fluid h-custom">
  <div class="row d-flex justify-content-center align-items-center h-100">
   <div class="col-md-9 col-lg-6 col-xl-5">
    <img src="{{url for('static', filename='images/corp.png')}}"
     class="img-fluid" alt="Sample image">
   <div class="col-md-8 col-lg-6 col-xl-4 offset-xl-1">
    <form class="form" method="post"
action="{{url_for('corporate_login')}}">
     <div class="divider d-flex align-items-center my-4">
      <h4 class="text-center fw-bold mx-3 mb-0">CORPORATE LOGIN</h4>
     </div>
     <div class="form-outline mb-4">
```

```
<input type="text" id="form3Example3" name="email" class="form-
control form-control-lg"
       placeholder="Enter a valid email address" />
      <label class="form-label" for="form3Example3">Email address</label>
     </div>
     <div class="form-outline mb-3">
      <input type="password" id="form3Example4" name="password"
class="form-control form-control-lg"
       placeholder="Enter password" />
      <label class="form-label" for="form3Example4">Password</label>
     </div>
     <div class="text-center text-lg-start mt-4 pt-2">
      <input type="submit" class="btn btn-primary btn-lg"
       style="padding-left: 2.5rem; padding-right: 2.5rem;">
     </div>
    </form>
   </div>
  </div>
 </div>
</div>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.
min.js" integrity="sha384-
OERcA2EqjJCMA+/3y+gxlOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw
3" crossorigin="anonymous"></script>
  <script src="https://kit.fontawesome.com/e66a43891e.js"</pre>
crossorigin="anonymous"></script>
{% endblock %}
```

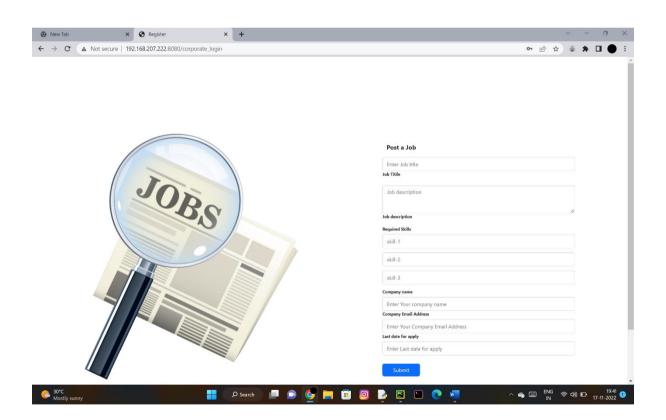


1.2 Post job

```
{% extends "bootstrap/base.html" %}
{% block title %}Register{% endblock %}
{% block styles %}
{{super()}}
<link rel="stylesheet" href="{{url for('static', filename='style.css')}}">
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.
css" rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi
" crossorigin="anonymous">
{% endblock %}
{% block content %}
<div class="Login-form">
 <section class="vh-100">
 <div class="container-fluid h-custom">
  <div class="row d-flex justify-content-center align-items-center h-100">
   <div class="col-md-9 col-lg-6 col-xl-5">
    <img src="{{url for('static', filename='images/postjob.png')}}"
     class="img-fluid" alt="Sample image">
   </div>
   <div class="col-md-8 col-lg-6 col-xl-4 offset-xl-1">
    <form class="form" method="post" action="{{url_for('postjob')}}">
```

```
<div class="divider d-flex align-items-center my-4">
      <h4 class="text-center fw-bold mx-3 mb-0">Post a Job</h4>
     </div>
     <div class="form-outline mb-4">
      <input type="text" id="form3Example3" name="jt" class="form-
control form-control-lg"
       placeholder="Enter Job title" />
      <label class="form-label" for="form3Example3">Job Titile</label>
     </div>
     <div class="form-outline mb-3">
      <textarea class="form-control form-control-lg" id="Textarea1"
placeholder="Job description" name="jd" rows="3"></textarea>
      <label class="form-label" for="form3">Job description</label>
     </div>
     <div>
      <label class="form-label" for="form3Example3">Required
Skills</label>
      <input type="text" name="skill-1" id="skill1" class="form-control
form-control-lg"
       placeholder="skill-1" />
      <input id="skill2" type="text" name="skill-2" class="form-control
form-control-lg"
       placeholder="skill-2" />
      <input type="text" id="skill3" name="skill-3" class="form-control form-
control-lg"
        placeholder="skill-3" />
     </div>
     <div>
      <label style="margin:10px 0px 10 0px;" class="form-label"</pre>
for="form3Example3">Company name</label>
     <input type="text" name="Company-name" class="form-control form-
control-lg"
        placeholder="Enter Your company name" />
     </div>
     <div>
      <label style="margin:10px 0px 10 0px ;" class="form-label"</pre>
for="form3Example3">Company Email Address</label>
     <input type="text" name="company-email" class="form-control form-
control-lg"
        placeholder="Enter Your Company Email Address" />
     </div>
     <div>
      <label style="margin:10px 0px 10 0px ;" class="form-label"</pre>
for="form3Example3">Last date for apply</label>
```

```
<input type="text" name="date" class="form-control form-control-lg"
       placeholder="Enter Last date for apply" />
     </div>
      <div class="text-center text-lg-start mt-4 pt-2">
        <input type="submit" name="img" class="btn btn-primary btn-lg"
        style="padding-left: 2.5rem; padding-right: 2.5rem;">
      </div>
    </form>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.
min.js" integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw
3" crossorigin="anonymous"></script>
  <script src="https://kit.fontawesome.com/e66a43891e.js"</pre>
crossorigin="anonymous"></script>
{% endblock %}
```



```
Python codings:
       from flask import Flask, request, render template, redirect, flash, url for
       from flask bootstrap import Bootstrap
       import sqlite3
       import ibm db
       import ibm boto3
       from ibm botocore.client import Config,ClientError
       import json
       from ibm watson import AssistantV2
       from ibm_cloud_sdk_core.authenticators import IAMAuthenticator
       import smtplib
       ibm watson api = 'NERNzL18grk3-kRrozsg897BF2IC-fmbhMO0FeC91XjR'
       authenticator = IAMAuthenticator(ibm watson api)
       assistant = AssistantV2(
         version = '2021-11-27',
         authenticator = authenticator
       )
       assistant.set service url('https://api.jp-
       tok.assistant.watson.cloud.ibm.com/instances/403b880a-1907-4cd4-be34-
       ed7621ce872c')
       assistant id = '4f9960db-4d31-43a3-a58a-f747bef82cbe'
       response = assistant.create session(
         assistant id=assistant id
       ).get result()
       session id = json.dumps(response, indent=2)
       print(session id)
       COS_ENDPOINT = 'https://s3.jp-tok.cloud-object-storage.appdomain.cloud'
       COS API KEY ID="N4Il1nx1AhrgMhoAtXgkvC6i4DZzWYE428HMpQSNBvAh"
       COS INSTANCE CRN="crn:v1:bluemix:public:iam-
       identity::a/31fa813cf7134a2b87f66465bde60656::serviceid:ServiceId-8d6fd9a6-
       0638-4c58-9270-cc40705c2385"
       app = Flask(__name__)
       Bootstrap(app)
       log = 'no'
       db = sqlite3.connect("Database.db", check same thread=False)
       cursor = db.cursor()
       cos =
       ibm boto3.resource("s3",ibm api key id=COS API KEY ID,ibm service instance i
```

```
d=COS INSTANCE CRN,config=Config(signature version="oauth"),endpoint url=COS
ENDPOINT)
conn = ibm db.connect("DATABASE=bludb;HOSTNAME=ea286ace-86c7-4d5b-8580-
3fbfa46b1c66.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31505;SECU
RITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=yfp49237;PWD=KmAn
VzPQq2dDSayo;", "", "")
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))
  except Exception as e:
    print("Unable to retrieve bucket contents: {0}".format(e))
@app.route('/')
def home():
  files = get bucket contents('projectby13')
  return render template("home.html",login=log,files=files)
@app.route('/login',methods=["POST","GET"])
def login():
  if request.method == "POST":
    email = request.form.get('email')
    password = request.form.get('password')
    sal = "SELECT * FROM USERS"
    stmt = ibm db.exec immediate(conn, sql)
    dictionary = ibm_db.fetch_assoc(stmt)
    while dictionary != False:
      if dictionary['EMAIL']==email:
        if dictionary['PASSWORD']==password:
          flash('You were successfully logged in')
          log = 'Yes'
          return redirect(url for('joblist'))
      dictionary = ibm db.fetch assoc(stmt)
    return "wrong crediantials if you are new user please signup"
  return render template('login.html')
```

```
@app.route('/register',methods=["POST","GET"])
def register():
  if request.method == "POST":
    name = request.form.get("name")
    email = request.form.get("email")
    password = request.form.get("password")
    confirmpassword = request.form.get("repeatpassword")
    if password==confirmpassword:
      sql1 = "SELECT * FROM USERS WHERE NAME =?"
      stmt1 = ibm db.prepare(conn,sql1)
      ibm db.bind param(stmt1,1,name)
      ibm db.execute(stmt1)
      account = ibm db.fetch assoc(stmt1)
      if account:
        print('p')
      else:
        insert sql = "INSERT INTO USERS VALUES (?,?,?)"
        prep stmt = ibm db.prepare(conn, insert sql)
        ibm_db.bind_param(prep_stmt, 1, name)
        ibm db.bind param(prep stmt, 2, email)
        ibm_db.bind_param(prep_stmt, 3, password)
        ibm db.execute(prep stmt)
        print("inserted")
      return redirect(url for('joblist'))
  return render template("Register.html")
@app.route('/postjob',methods=["POST","GET"])
def postjob():
  if request.method == "POST":
    jobtitle = request.form.get('jt')
    jobdescription = request.form.get('jd')
    skill1 = request.form.get('skill-1')
    skill2 = request.form.get('skill-2')
    skill3 = request.form.get('skill-3')
    Date = request.form.get('date')
    Companyname = request.form.get('Company-name')
    CompanyEmail = request.form.get('company-email')
    valve = 10
    insert sql = "INSERT INTO joblist VALUES (?,?,?,?,?,?,?)"
    prep stmt = ibm db.prepare(conn, insert sql)
    ibm db.bind param(prep stmt, 1, jobtitle)
    ibm_db.bind_param(prep_stmt, 2, jobdescription)
    ibm db.bind param(prep stmt, 3, skill1)
```

```
ibm db.bind param(prep stmt, 4, skill2)
    ibm db.bind param(prep stmt, 5, skill3)
    ibm db.bind param(prep stmt, 6, Date)
    ibm db.bind param(prep stmt, 7, Companyname)
    ibm db.bind param(prep stmt, 8, CompanyEmail)
    ibm db.execute(prep stmt)
    return redirect(url for('joblist'))
  else:
    return 'wrong credentials'
@app.route('/joblist',methods=["POST","GET"])
def joblist():
  if request.method == "POST":
    search key = request.form.get('search-bar')
    sql = "SELECT * FROM joblist"
    stmt = ibm db.exec immediate(conn, sql)
    dictionary = ibm db.fetch both(stmt)
    jt list = []
    jd list = []
    companies = []
    while dictionary != False:
      if search key == dictionary['SKILL1'] or search key == dictionary['SKILL2'] or
search key == dictionary['SKILL3']:
        jt_list.append(dictionary['JOBTITLE'])
        id list.append(dictionary['JOBDES'])
        companies.append(dictionary['COMPANYNAME'])
        dictionary = ibm db.fetch both(stmt)
      else:
        dictionary = ibm db.fetch both(stmt)
    lent = len(jd list)
    no = 0
    return render_template("joblist.html", jtr=jt_list, jdr=jd_list,
len=lent,cn=companies)
  else:
    sql = "SELECT * FROM joblist"
    stmt = ibm db.exec immediate(conn, sql)
    dictionary = ibm_db.fetch_both(stmt)
    jt list = []
    jd list = []
    companies = []
    while dictionary != False:
      jt list.append(dictionary['JOBTITLE'])
      jd_list.append(dictionary['JOBDES'])
      companies.append(dictionary['COMPANYNAME'])
```

```
dictionary = ibm db.fetch both(stmt)
    lent = len(jd list)
    no = 0
    return render template("joblist.html",jtr=jt list,jdr=jd list,len =
lent,cn=companies)
#------Bucket storage------
def multi part upload(bucket name, item name, file path):
  try:
    print("Starting file transfer for {0} to bucket: {1}\n".format(item_name,
bucket name))
    part size = 1024 * 1024 * 5
    file threshold = 1024 * 1024 * 15
    transfer config = ibm boto3.s3.transfer.TransferConfig(
      multipart threshold=file threshold,
      multipart chunksize=part size
    )
    print("out")
    with open(file_path, "rb") as file_data:
      cos.Object(bucket name, item name).upload fileobj(
        Fileobj=file data,
        Config=transfer config
      )
    print("Transfer for {0} Complete!\n".format(item name))
  except ClientError as be:
    print("CLIENT ERROR: {0}\n".format(be))
  except Exception as e:
    print("Unable to complete multi-part upload: {0}".format(e))
@app.route('/applyjob', methods = ['GET', 'POST'])
def applyjob():
 if request.method == 'POST':
   companyname = request.form.get('cnp')
   sql = "SELECT * FROM joblist"
   stmt = ibm db.exec immediate(conn, sql)
   dictionary = ibm_db.fetch_both(stmt)
   while dictionary != False:
     print(dictionary["COMPANYNAME"])
     if companyname == dictionary["COMPANYNAME"]:
       cnname=dictionary["COMPANYNAME"]
       cnmail = dictionary["COMPANYEMAIL"]
       dictionary = ibm_db.fetch_both(stmt)
     dictionary = ibm db.fetch both(stmt)
```

```
return render template('applyjob.html',cne=cnmail,cnn=cnname)
@app.route('/mail',methods=["POST","GET"])
def mail():
  if request.method == 'POST':
    my email = "kprathap1307@gmail.com"
    password = "qsustqqoqudsxrcb"
    companyname = request.form.get('cnn')
    companyemail = request.form.get('cne')
    name = request.form.get('name')
    email= request.form.get('email')
    experience= request.form.get('experience')
    message= request.form.get('message')
    sslc schoolname = request.form.get('sschool-name')
    sslc_passedout = request.form.get('sschool-year')
    sslc percentage = request.form.get('sschool-percentage')
    hslc schoolname = request.form.get('hschool-name')
    hslc passedout = request.form.get('hschool-year')
    hslc percentage = request.form.get('hschool-percentage')
    college name = request.form.get('d-name')
    college passedout = request.form.get('d-year')
    college cgpa = request.form.get('d-cgpa')
    skill1 = request.form.get('skill-1')
    skill2 = request.form.get('skill-2')
    skill3 = request.form.get('skill-3')
    mail = f'Hello {companyname}, Mail from Mr.perks, here are the candidate
informations for your current openings '\
        f'Candidate name = {name}, candidate email = {email}, candidate
experience = {experience}, candidate objectives = {message}' \
        f'candidate education details : SSLC - SSLC school name = {sslc schoolname}
, SSLC - SSLC Passed out year = {sslc_passedout},' \
        f'Percentage = {sslc percentage}, HSLC school name =
{hslc_schoolname},passed out year = {hslc_passedout}' \
        f'CGPA / Percentage= {college cgpa} and candidate skills are 1.{skill1}
2.{skill2} 3.{skill3} '
    with smtplib.SMTP("smtp.gmail.com", port=587) as connection:
      connection.starttls()
      connection.login(user=my_email, password=password)
      connection.sendmail(from addr=my email, to addrs=companyemail,
                 msg=f"Subject:Applyed for job \n\n {mail}")
    return 'Sucessfully applied for the job'
@app.route('/corporate login',methods=["POST","GET"])
def corporate login():
  if request.method == "POST":
    email = request.form.get('email')
```

```
password = request.form.get('password')
    admin_email = 'admin@123'
    admin_password = 'karur@123'
    if email == admin_email and password==admin_password:
        return render_template('postjob.html')
    else:
        return 'username and password will be given by admin'
    return render_template('corporate_login.html')

if __name__ == '__main__':
    app.secret_key = 'super secret key'
    app.config['SESSION_TYPE'] = 'filesystem'
```

app.run(host='0.0.0.0',port=8080,debug=True)