## Sprint - 4

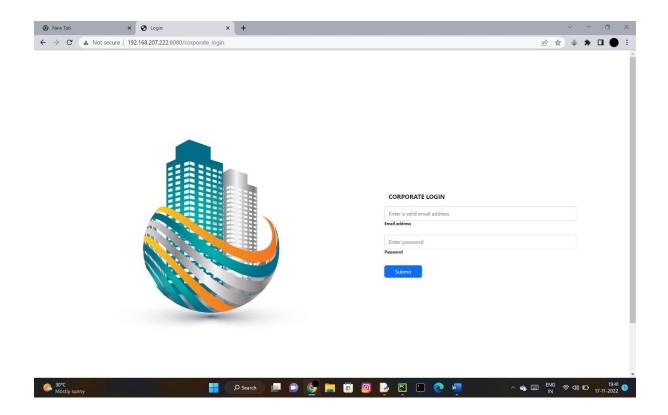
Date	17 November 2022
Team ID	PNT2022TMID46789
Project Name	Skill/Job Recommender
Maximum Marks	20 Marks

## 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')}}">
k
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>
   <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="formcontrol 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+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw
3" crossorigin="anonymous"></script>
  <script src="https://kit.fontawesome.com/e66a43891e.js"</pre>
crossorigin="anonymous"></script>
{% endblock %}
```

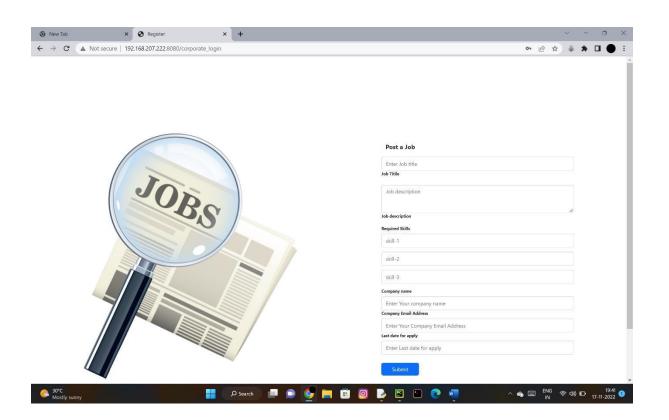


## 1.2 Post job

```
{% 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="formcontrol
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
formcontrol-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"
formcontrol-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
formcontrol-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
      ison
      from
                 ibm_watson
                                   import
                                                AssistantV2
                                                                  from
      ibm cloud sdk core.authenticators
                                            import
                                                     IAMAuthenticator
      import smtplib
      ibm watson api = 'NERNzL18grk3-kRrozsq897BF2IC-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-
      be34ed7621ce872c')
      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="N4Il1nx1AhrgMhoAtXgkvC6i4DZzWYE428HMpQSNByAh"
      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-
85803fbfa46b1c66.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,
             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')
                                            sql
= "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"
                                    render template('login.html')
return
@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
                                    sql1 = "SELECT * FROM
password==confirmpassword:
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')
        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"])
                 if request.method == "POST":
def joblist():
search key =
                  request.form.get('search-bar')
sql = "SELECT * FROM joblist"
                                         stmt =
ibm db.exec immediate(conn, sql)
    dictionary =
ibm db.fetch both(stmt)
                             it 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'])
jd 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=cnn
ame)
@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 =
                                           hslc schoolname
request.form.get('sschool-percentage')
= 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 =
                              skill1 = request.form.get('skill-
request.form.get('d-cgpa')
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')
```