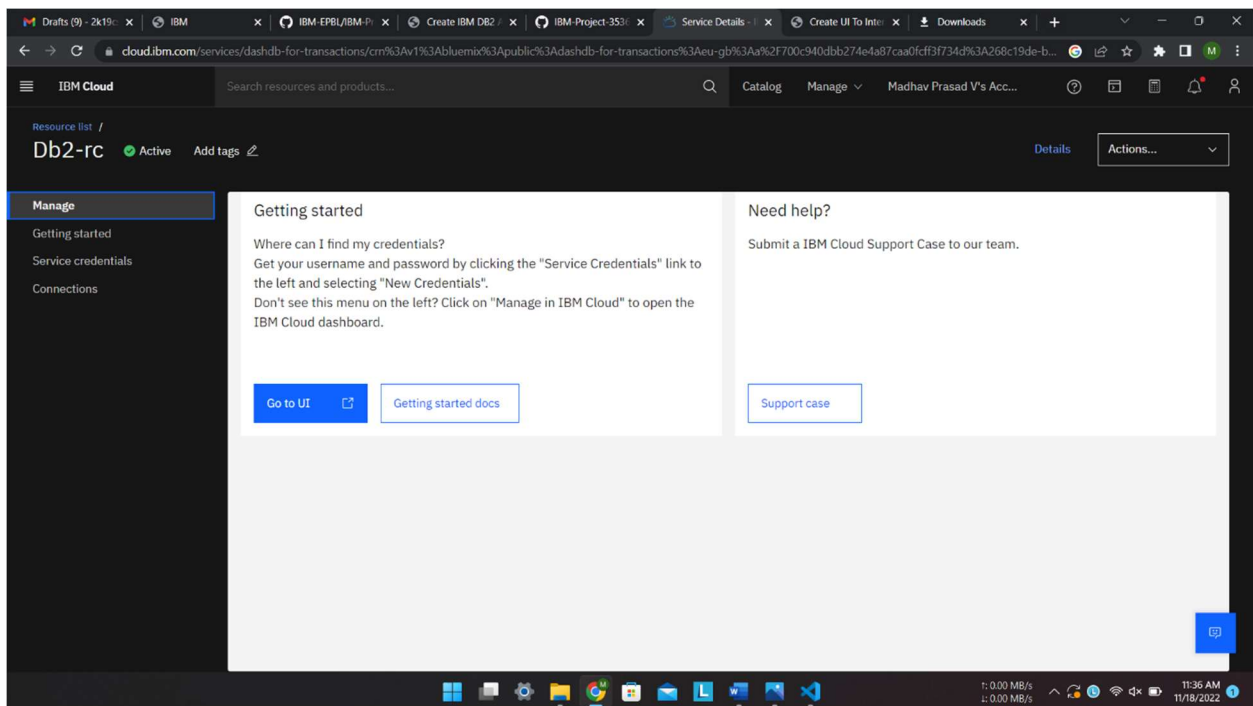


Implementing Web Application

Create IBM DB2 And Connection With Python

Date	24 OCT 2022
Team ID	PNT2022TMID30155
Project Name	Skill and Job Recommender Application

STEP 1: Created IBM db2 services :



STEP 2: Import the ibm_db Python library:

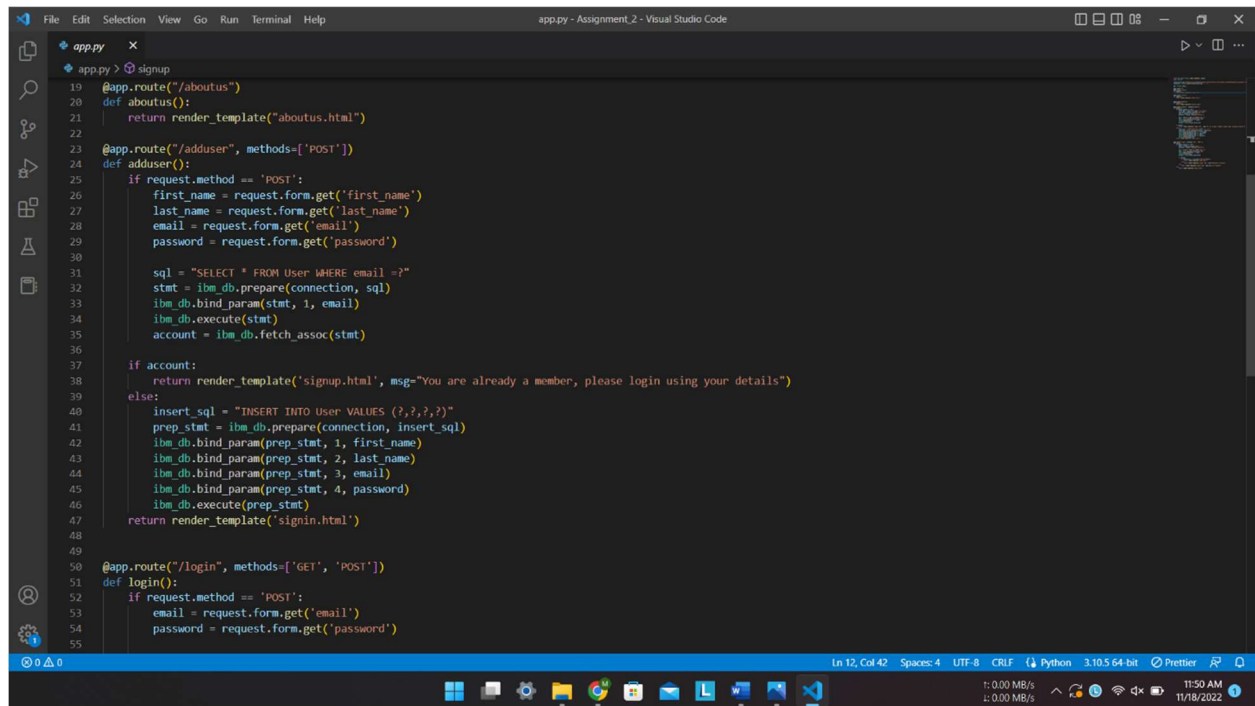
Pip install ibm_db

Import ibm_db

STEP 3: Identify the database connection credentials

```
connectionstring="DATABASE=bludb;HOSTNAME=3883e7e4-18f5-4afe-be8c-fa31c41761d2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31498;PROTOCOL=TCP;UID=kmy46098;PWD=PN0aG7meNBbB7HH1;SECURITY=SSL;"
connection = ibm_db.connect(connectionstring, '', '')
```

STEP 4: Integrate IBM DB2 with python code:



```
app.py x
app.py > signup
19 @app.route("/aboutus")
20 def aboutus():
21     return render_template("aboutus.html")
22
23 @app.route("/adduser", methods=['POST'])
24 def adduser():
25     if request.method == 'POST':
26         first_name = request.form.get('first_name')
27         last_name = request.form.get('last_name')
28         email = request.form.get('email')
29         password = request.form.get('password')
30
31         sql = "SELECT * FROM User WHERE email =?"
32         stmt = ibm_db.prepare(connection, sql)
33         ibm_db.bind_param(stmt, 1, email)
34         ibm_db.execute(stmt)
35         account = ibm_db.fetch_assoc(stmt)
36
37     if account:
38         return render_template('signup.html', msg="You are already a member, please login using your details")
39     else:
40         insert_sql = "INSERT INTO User VALUES (?, ?, ?, ?)"
41         prep_stmt = ibm_db.prepare(connection, insert_sql)
42         ibm_db.bind_param(prepare_stmt, 1, first_name)
43         ibm_db.bind_param(prepare_stmt, 2, last_name)
44         ibm_db.bind_param(prepare_stmt, 3, email)
45         ibm_db.bind_param(prepare_stmt, 4, password)
46         ibm_db.execute(prepare_stmt)
47         return render_template('signin.html')
48
49
50 @app.route("/login", methods=['GET', 'POST'])
51 def login():
52     if request.method == 'POST':
53         email = request.form.get('email')
54         password = request.form.get('password')
55
```

STEP 4: Close the Connection:

ibm_db.close(conn)