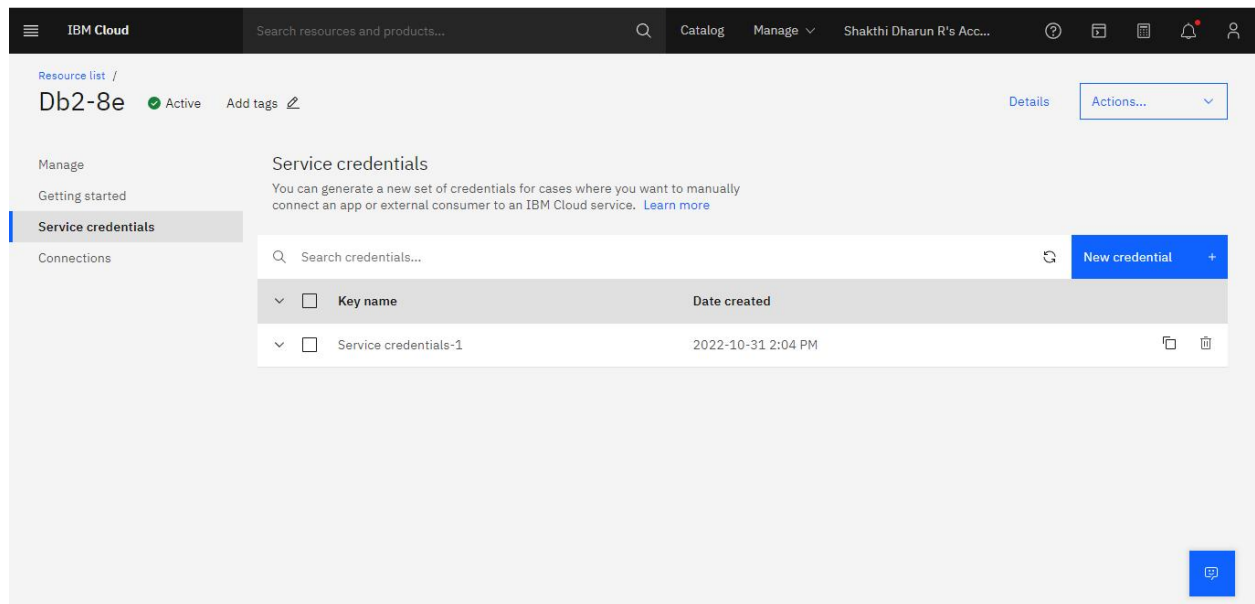


IMPLEMENTING WEB APPLICATION

Date	31 October 2022
Team ID	PNT2022TMID03042
Project Name	Personal Expense Tracker Application

Create IBM DB2 And Connect With Python

Create the IBM Db2 service in IBM cloud and connect the python code with DB.



Code:

```
from flask import Flask

from flask import request, redirect, url_for, render_template

import ibm_db

app = Flask(__name__)

app.config['DEBUG'] = True
```

```
db_connection = ibm_db.connect(
    "DATABASE=bludb;QUERYTIMEOUT=1;CONNECTTIMEOUT=10;HOSTNAME=19af6446-6171-
4641-8aba-
9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;SECURITY=SSL;SS
LServerCertificate=../DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=gyl24444;PWD=0Rnfd15Y
263ASIW7", "", "")
```

```
@app.route("/", methods=["GET", "POST"])
```

```
def register():
```

```
    if request.method == 'POST':
```

```
        data = request.form.to_dict()
```

```
        print(data)
```

```
        sql_query = f"INSERT INTO User (username, email, roll_no, password)
VALUES('{data['username']}', '{data['email']}', '{data['roll_no']}', '{data['password']}')"
```

```
        ibm_db.exec_immediate(db_connection, sql_query)
```

```
        return redirect(url_for("login"))
```

```
    if request.method == "GET":
```

```
        return render_template("signup.html")
```

```
@app.route("/login", methods=["GET", "POST"])
```

```
def login():
```

```
    if request.method == 'POST':
```

```
        data = request.form.to_dict()
```

```
        sql_query = f"SELECT password from User WHERE username = '{data['username']}'"
```

```
        result = ibm_db.exec_immediate(db_connection, sql_query)
```

```
        value = ibm_db.fetch_tuple(result)
```

```
        if value[0] == data["password"]:
```

```
        return redirect(url_for("welcome"))
    else:
        return "<p style=color:red;>Invalid Credentials</p>"
if request.method == "GET":
    return render_template("signin.html")
```