Assignment -2

Assignment Date	27 September 2022
Student Name	Mr. Jetson Cyrus J
Student Roll Number	9517201904060
Maximum Marks	2 Marks

Question-1:

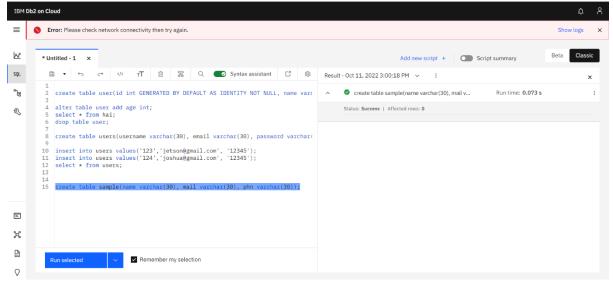
- 1.Create User table with user with email, username, roll number, password.
- 2. Perform UPDATE, DELETE Queries with user table
- 3. Connect python code to db2.
- 4. Create a flask app with registration page, login page and welcome page.

By default, load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page.

Solution:

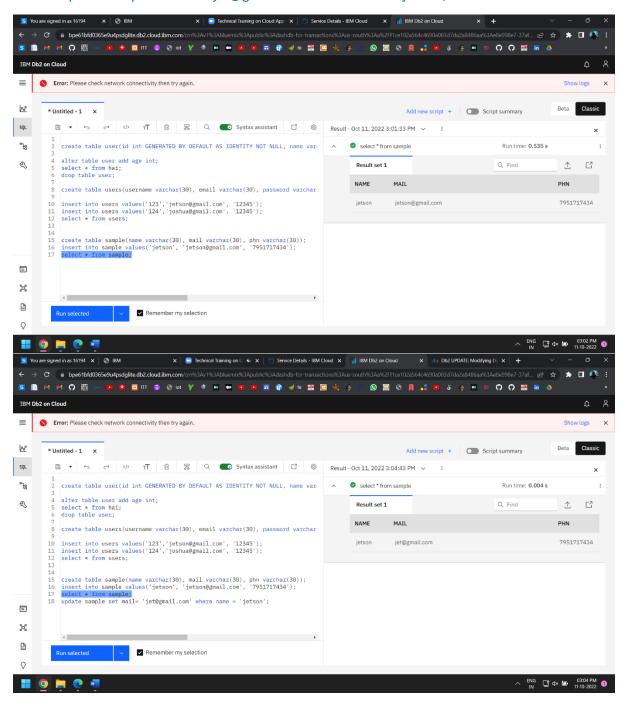
Creating user table:

CREATE TABLE SAMPLE(name varchar(30), email varchar(30), password varchar(30))

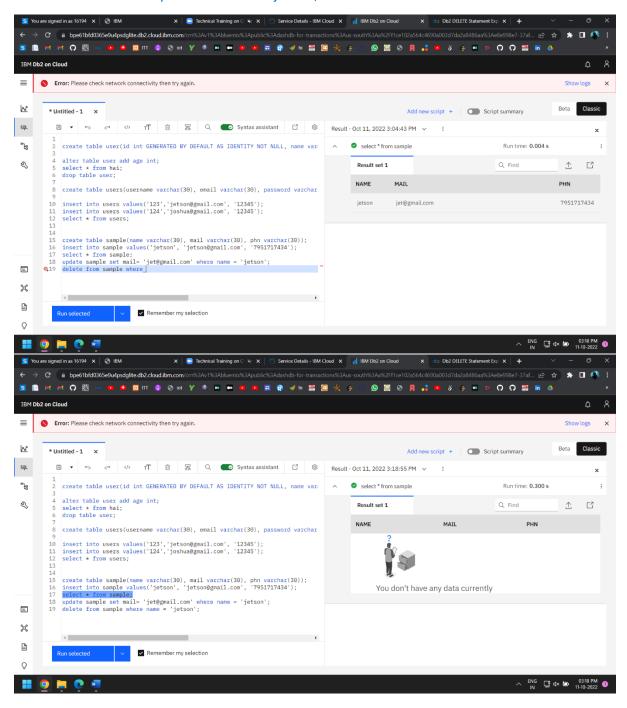


Performing update, delete:

update sample set mail= 'jet@gmail.com' where name = 'jetson';



delete from sample where name = 'jetson';



Base.html:

```
<html>
<head>
kead>
kead>
kead>
kead>
</i>
</ri>
</ri>

{% block head %}
</head>
```

```
<body>
          {% block body %}
          {% endblock %}
        </body>
        </html>
Main.css:
       .login {
          width: 60%;
          border-radius: 1rem;
          background: gray;
          padding: 10px;
          margin: auto;
          text-align: center;
          font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
       }
       .back{
          background-color: black;
       }
       .sub{
          background-color: black;
          color: white;
          border-radius: 1rem;
       }
       .box{
          border-radius: 1rem;
          background-color: black;
          color: white;
       }
Dashboard.html:
       {% extends 'base.html' %}
       {% block head %}
```

```
<title>Login</title>
      {% endblock %}
      {% block body %}
      <div class="login">
        <h1>
          Welcome to dashboard.. {{ msg }}
        </h1>
        <hr>
      </div>
      {% endblock %}
Login.html:
      {% extends 'base.html' %}
      {% block head %}
      <title>Login</title>
      {% endblock %}
      {% block body %}
      <div class="login">
        <h1>
          Login
        </h1>
        <hr>
        <form action="/login" method="POST">
          <br>
          username: <input type="text" class="box" name="username" id="username"><br><br>
          Password: <input type="password" class="box" name="passwd" id="passwd"><br><br>
          <input type="submit" class="sub" value="Sign in">
        </form>
        Don't have account? <a href="/signup">Sign up</a>
      </div>
```

```
{% endblock %}
Signup.html:
       {% extends 'base.html' %}
       {% block head %}
       <title>Login</title>
       {% endblock %}
       {% block body %}
       <div class="login">
         <h1>
           Sign Up
         </h1>
         <hr>
         <form action="/signup" method="POST">
           <br>
           username: <input type="text" class="box" name="username" id="username"><br><br>
           email: <input type="text" class="box" name="email" id="eamil"><br><br>
           Password: <input type="password" class="box" name="passwd" id="passwd"><br><br>
           <input type="submit" class="sub" value="Sign up"><br>
         </form>
         Already have an account? <a href="/login">Login</a>
       </div>
       {% endblock %}
App.py:
       from flask import Flask, render_template, request, session, redirect, url_for
       import ibm_db
```

import re

import ibm_db_dbi

app.secret_key = 'a'

app = Flask(__name__)

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=xyn12614;PWD=oXjOuam0AOYeLVKq", ", ")

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

def login():
    global userid
```

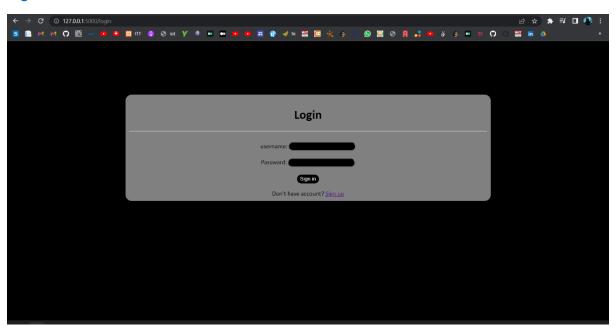
```
msg = "
if request.method == 'POST':
  username = request.form['username']
  password = request.form['passwd']
  sql = "select * from users where username = ? and password = ?"
  stmt = ibm_db.prepare(conn, sql)
  ibm db.bind param(stmt, 1, username)
  ibm db.bind param(stmt, 2, password)
  ibm_db.execute(stmt)
  account = ibm_db.fetch_assoc(stmt)
  print(account)
  if account:
    session['Loggedin'] = True
    session['id'] = account['USERNAME']
    userid = account['USERNAME']
    session['username'] = account['USERNAME']
    msg = 'logged in successfully'
    return render_template('dashboard.html', msg=msg)
  else:
    msg = 'Incorrect user credentials'
    return render_template('dashboard.html', msg=msg)
else:
  return render_template('login.html')
```

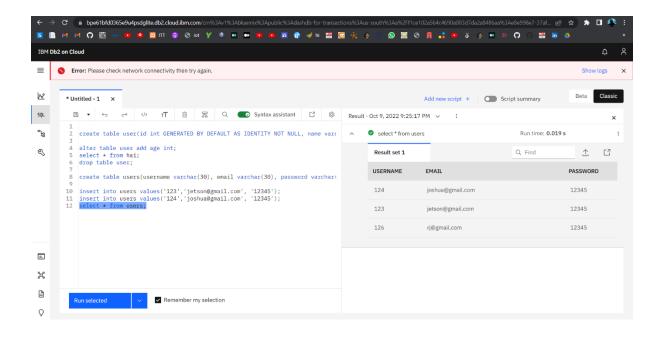
```
@app.route('/signup', methods=["POST", "GET"])
def signup():
  if request.method == "POST":
    username = request.form['username']
    email = request.form['email']
    password = request.form['passwd']
    sql = "select * from users where username = ?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt, 1, username)
    ibm db.execute(stmt)
    account = ibm db.fetch assoc(stmt)
    print(account)
    if account:
      msg = 'Acccount already exists'
    elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
      msg = 'invalid email'
    elif not re.match(r'[A-Za-z0-9]+', username):
      msg = 'name must contain charectors and numbers'
    else:
      insert_sql = "insert into users values(?,?,?)"
      prep_stmt = ibm_db.prepare(conn, insert_sql)
      ibm_db.bind_param(prep_stmt, 1, username)
      ibm_db.bind_param(prep_stmt, 2, email)
      ibm_db.bind_param(prep_stmt, 3, password)
      ibm_db.execute(prep_stmt)
      print("successs")
      msg = "succesfully signed up"
    return render_template('dashboard.html', msg=msg)
  else:
    return render_template('signup.html')
```

```
if __name__ == '__main__':
    app.run(debug=False)
```

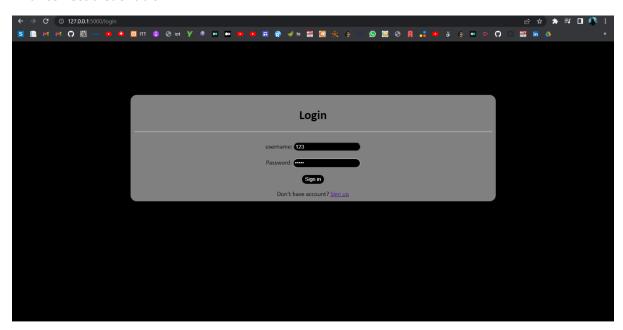
Output:

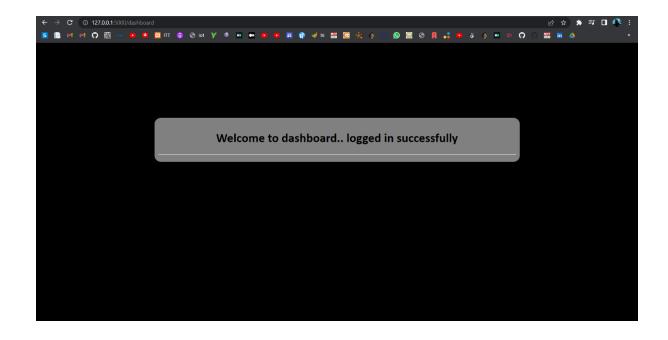
Login:



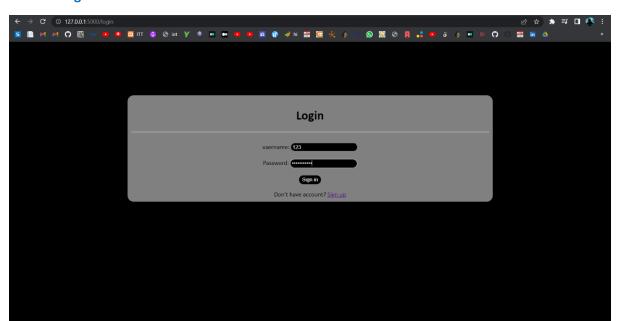


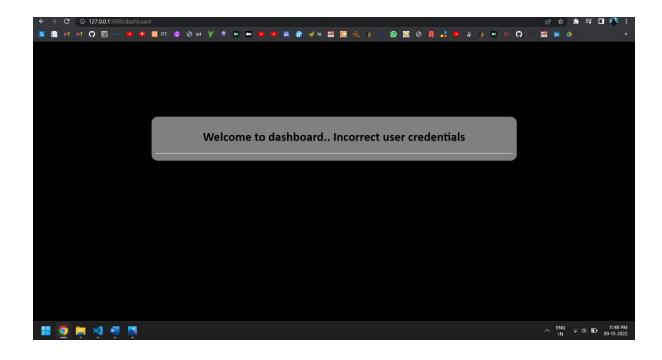
With correct credentials:





With wrong credentials:





Sign up:

