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.

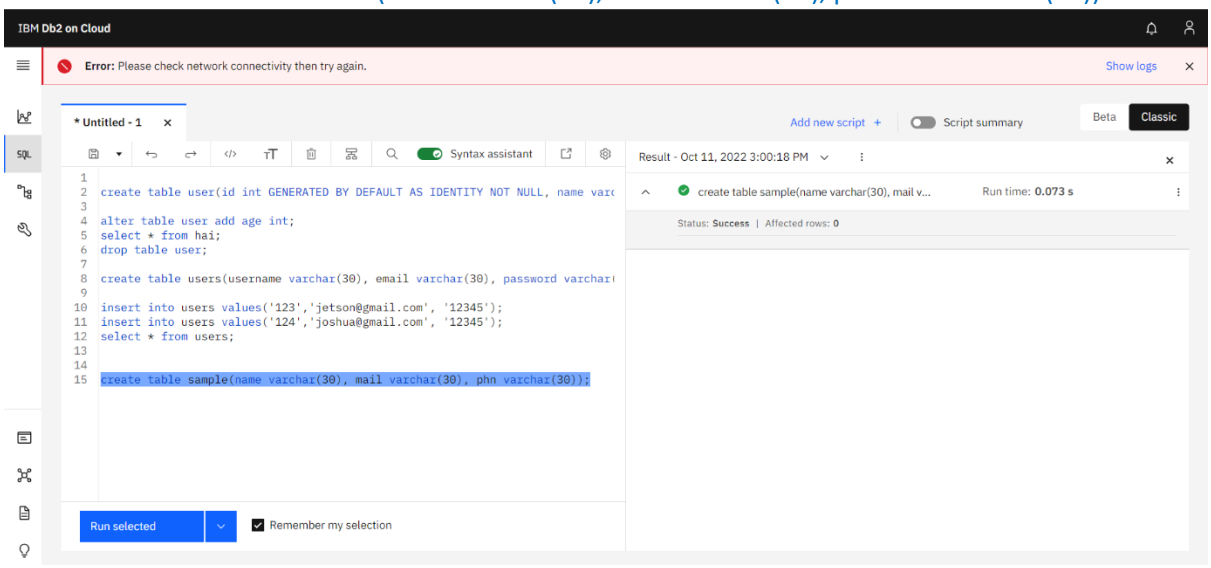
4. Create a flask app with registration page, login page and welcome page.

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:

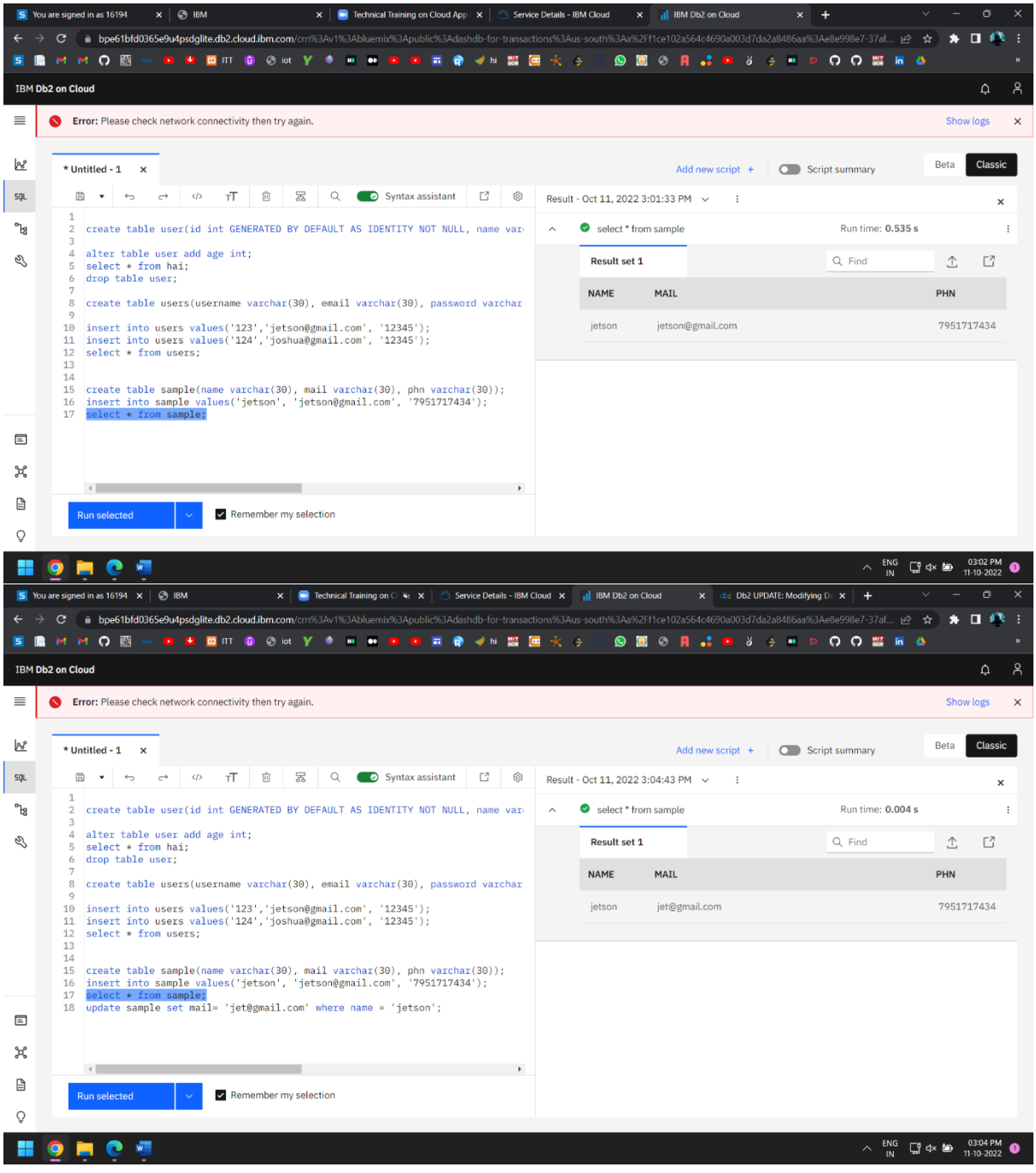
Creating user table:

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

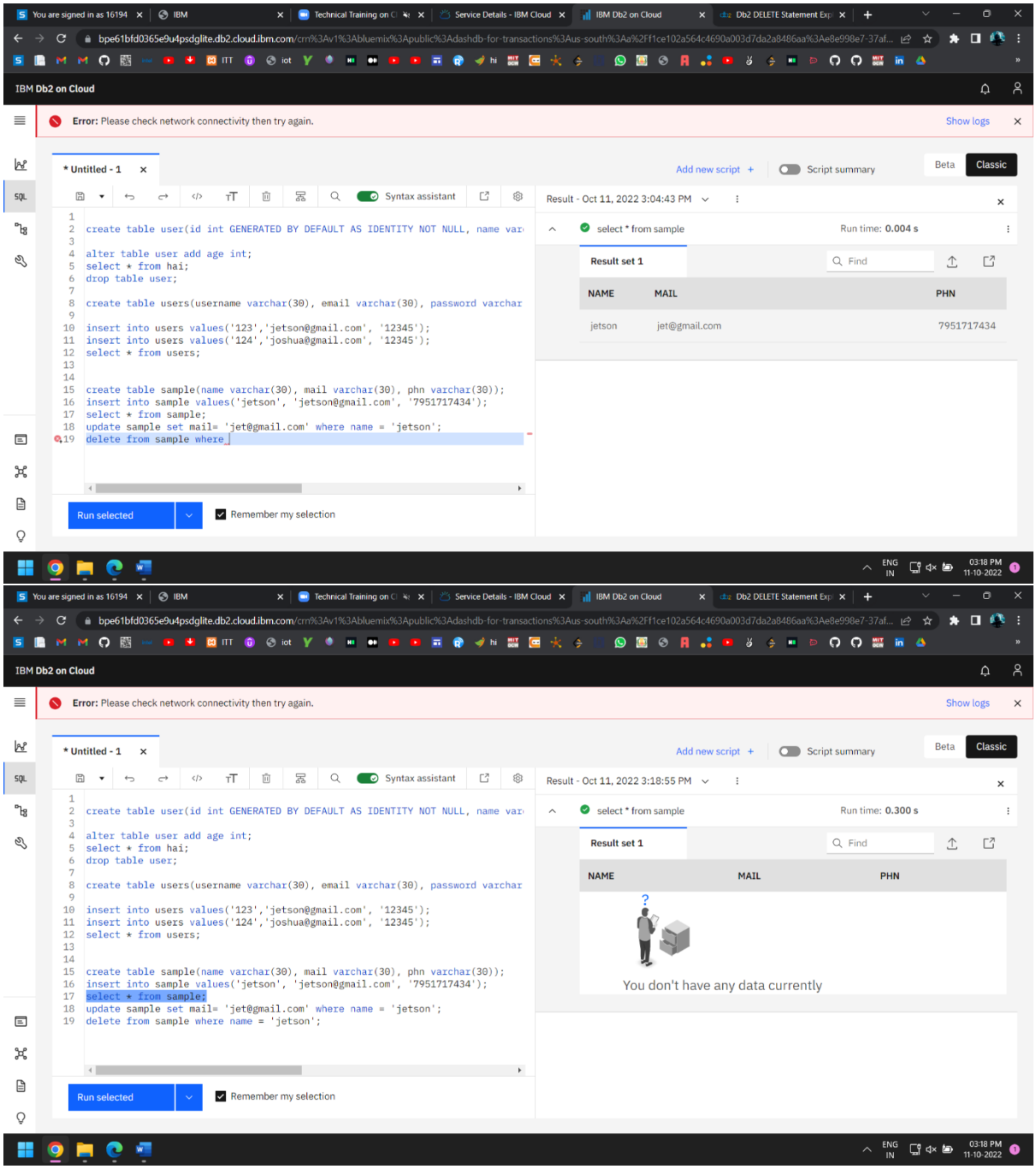


Performing update, delete:

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



delete from sample where name = 'jetson';



Base.html:

```
<html>
<head>
   <link rel="stylesheet" href="static/css/main.css">
   {% block head %}
   {% endblock %}
</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 %}
<br><br><br><br><br>    <br><br><br><br><br>
<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 %}
<br><br><br><br><br><br><br>
<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 %}
    <br><br><br><br><br> <br><br>
    <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:

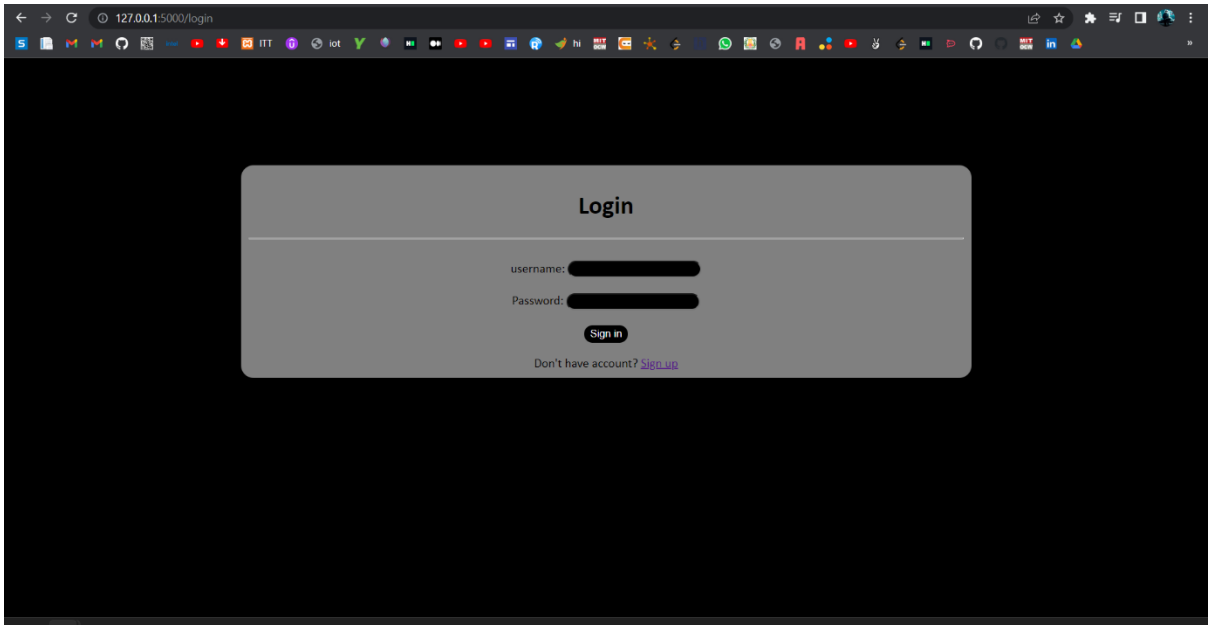
```
from flask import Flask, render_template, request, session, redirect, url_for
import ibm_db
import re
import ibm_db_dbi
app = Flask(__name__)
app.secret_key = 'a'


conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-
23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;SECURITY=S
SL;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']
```

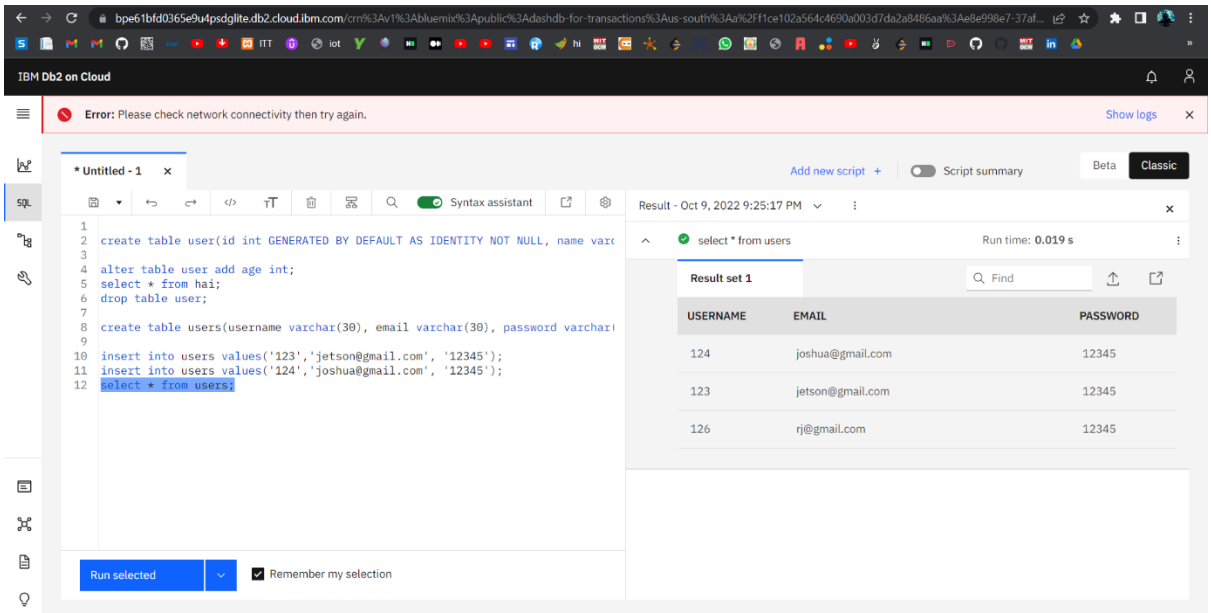
```
            msg = 'logged in successfully'
            return render_template('dashboard.html', msg=msg)
        else:
            msg = 'Incorrect user credentials'
            return render_template('dashboard.html', msg=msg)
    else:
        return render_template('login.html')

@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)
```

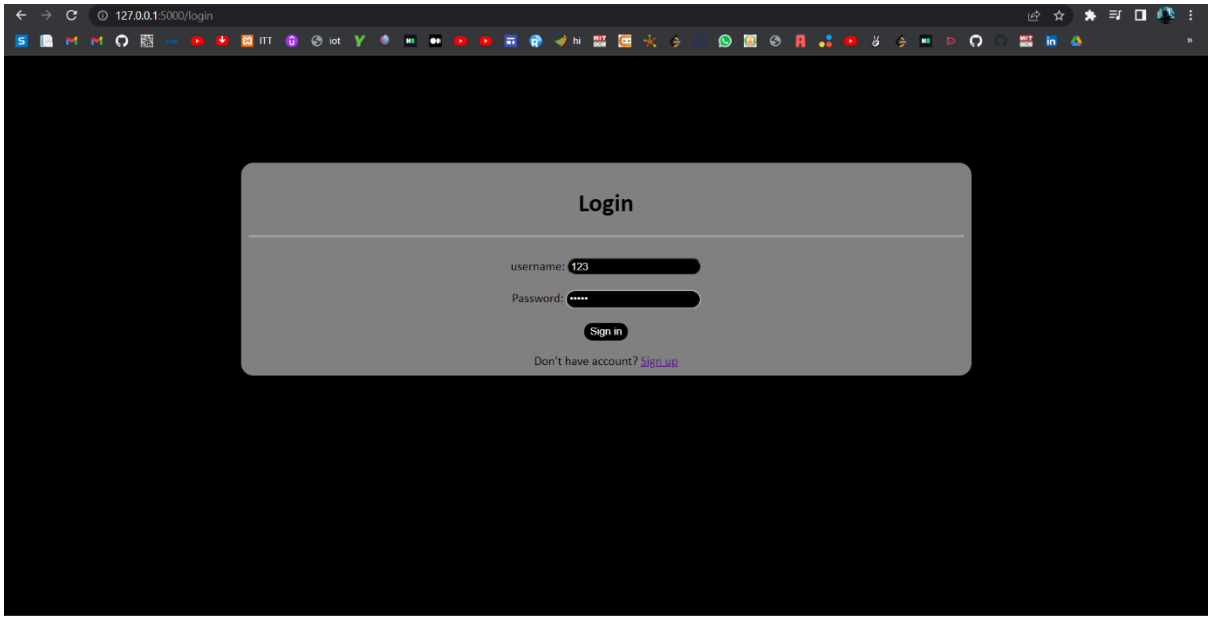
Output:

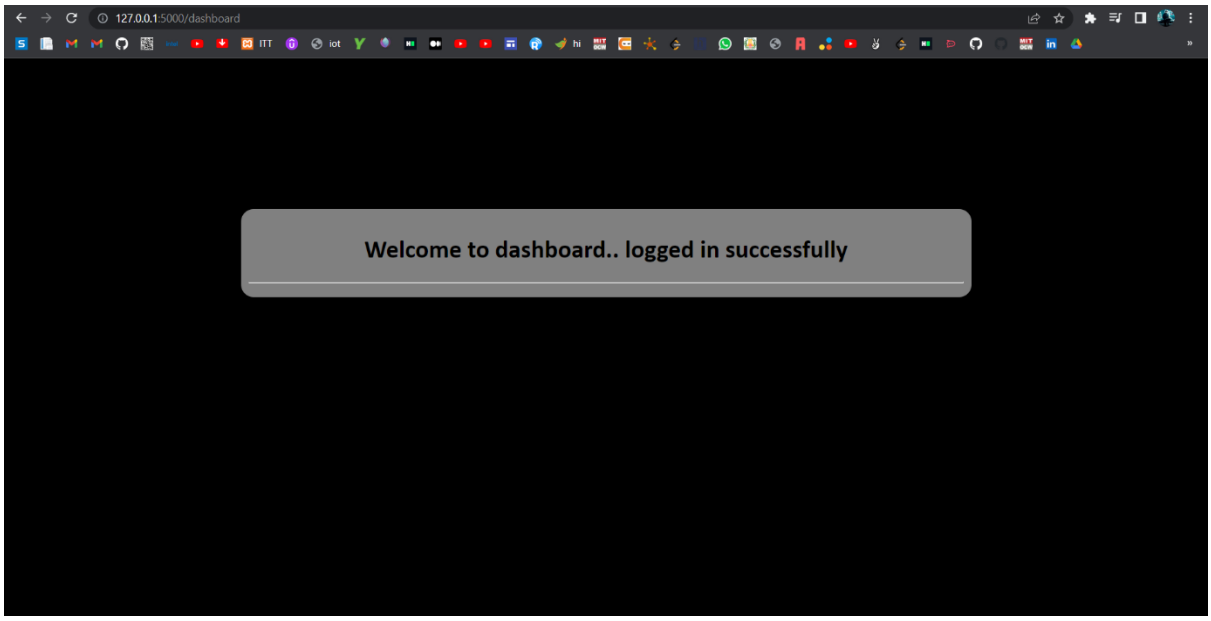
Login:



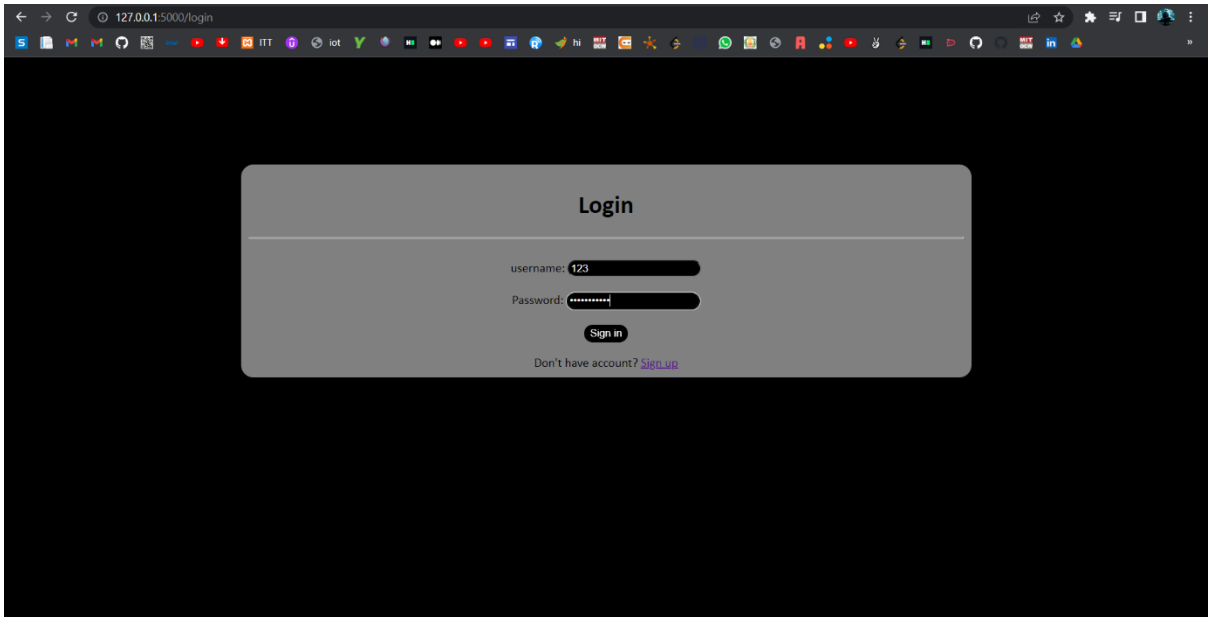


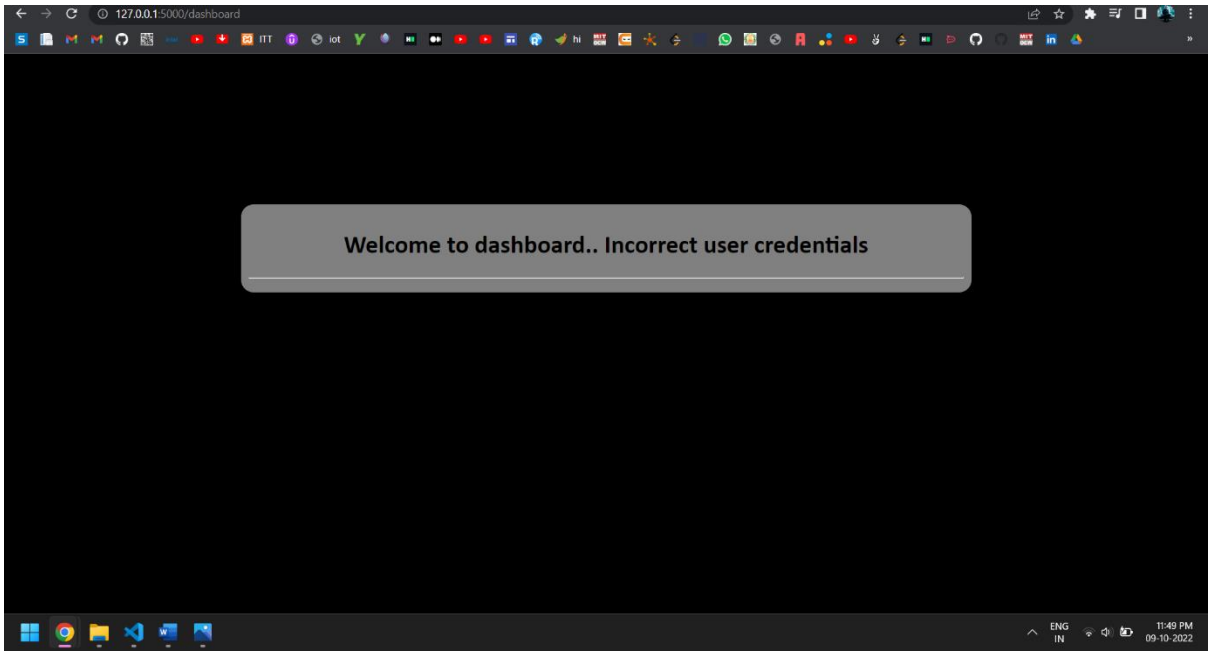
With correct credentials:



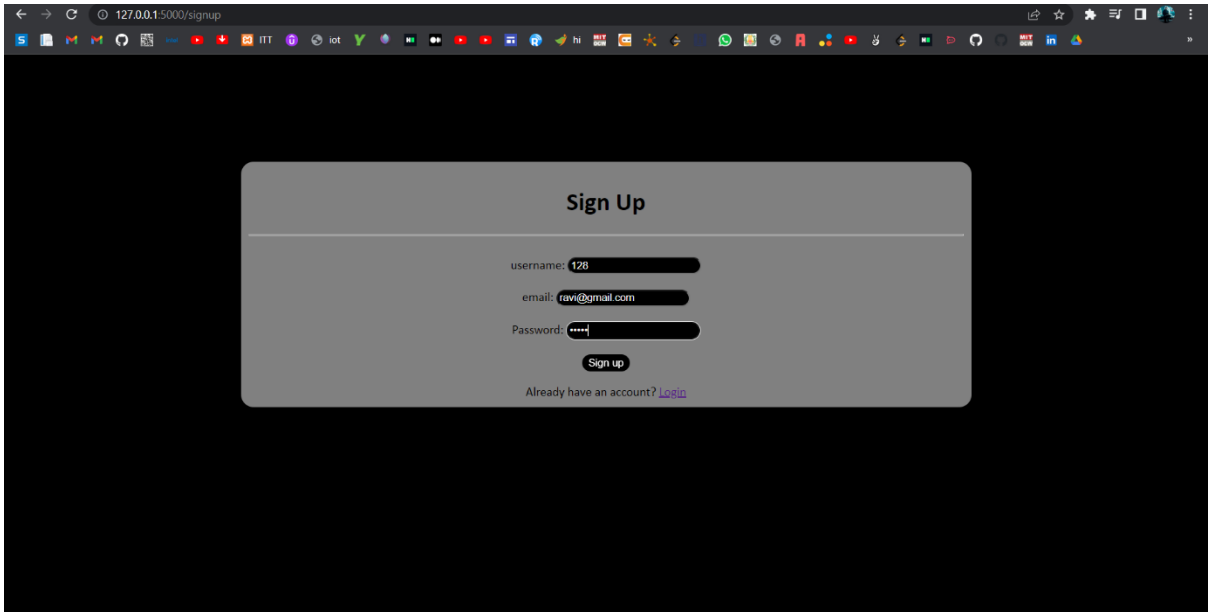


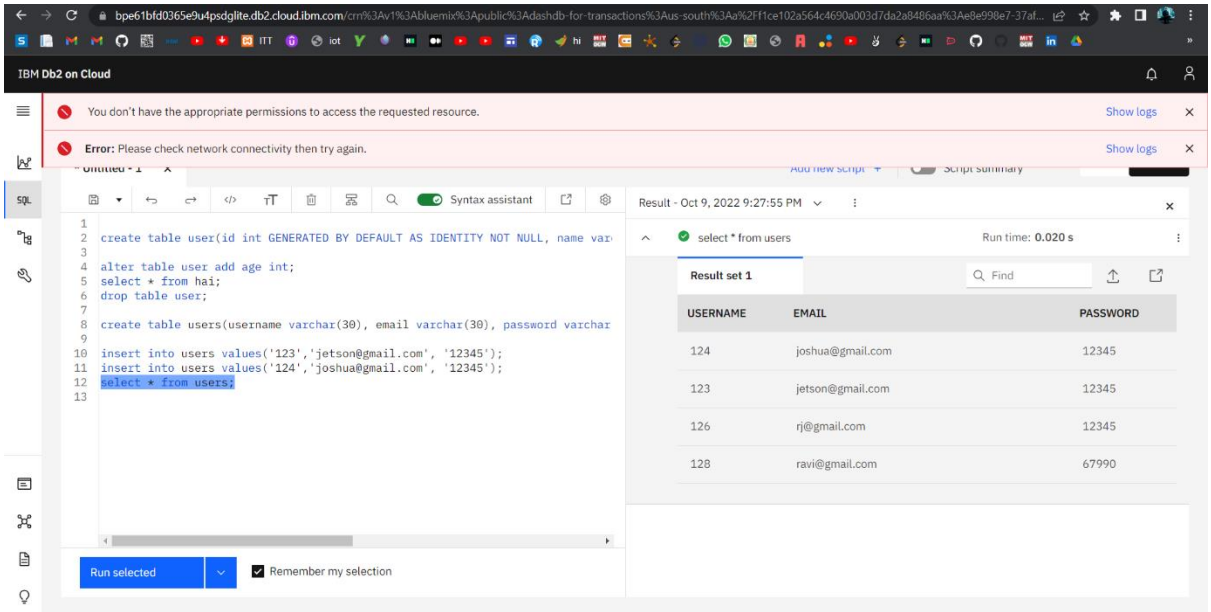
With wrong credentials:





Sign up:


127.0.0.1:5000/signup
Sign Up
username: 128
email: ravi@gmail.com
Password:
Sign up
Already have an account? Login


IBM Db2 on Cloud
You don't have the appropriate permissions to access the requested resource.
Show logs
Error: Please check network connectivity then try again.
Show logs
Syntax assistant
create table user(id int GENERATED BY DEFAULT AS IDENTITY NOT NULL, name var
alter table user add age int;
select * from hai;
drop table user;
create table users(username varchar(30), email varchar(30), password varchar
insert into users values('123','jetson@gmail.com', '12345');
insert into users values('124','joshua@gmail.com', '12345');
select * from users;
Run selected
Remember my selection
Result - Oct 9, 2022 9:27:55 PM
select * from users
Run time: 0.020 s
Result set 1
Find
USERNAME
EMAIL
PASSWORD
124
joshua@gmail.com
12345
123
jetson@gmail.com
12345
126
rj@gmail.com
12345
128
ravi@gmail.com
67990