

## Assignment - 2

Date	24 Septmeber 2022
Student Name	Sethuram S V
Student Roll Number	917719C088
Maximum Marks	2 Marks

### Question 1:

Create a User table with user with email, username, roll number, password. Perform UPDATE,DELETE Queries with user table. Connect python code to db2.

### Solution:

The screenshot displays the IBM Db2 on Cloud web interface. On the left, the 'Data objects' tab is active, showing a search bar and a list of objects including 'GLR36049'. The main editor area shows a SQL script for creating a table named 'USERS'. The script is as follows:

```

1 CREATE TABLE USERS(
2   id INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1 INCREMENT BY 1),
3   email VARCHAR(30) NOT NULL,
4   username VARCHAR(20) NOT NULL,
5   rollno VARCHAR(10) NOT NULL,
6   password VARCHAR(30) NOT NULL,
7   PRIMARY KEY(id)
8 );

```

Below the script editor, the 'History' tab is active, showing a table of executed scripts:

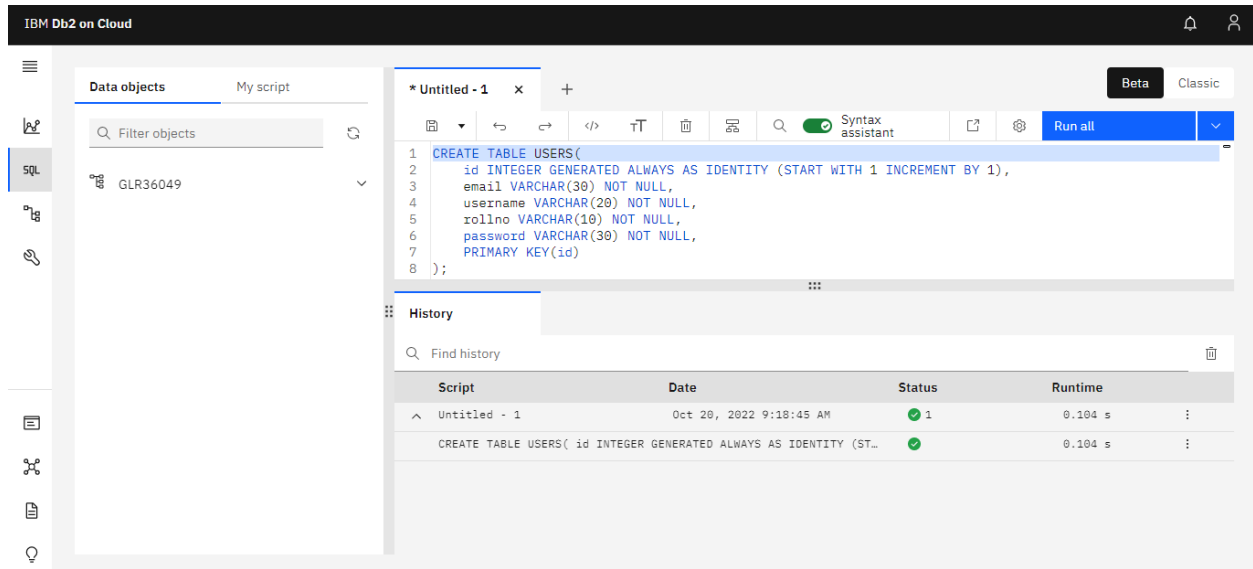
Script	Date	Status	Runtime
Untitled - 1	Oct 20, 2022 9:18:45 AM	✓ 1	0.104 s
CREATE TABLE USERS( id INTEGER GENERATED ALWAYS AS IDENTITY (ST...		✓	0.104 s

Table Name: Users

## Question 2:

Perform UPDATE,DELETE Queries with user table

Solution:



The screenshot displays the IBM Db2 on Cloud interface. On the left, the 'Data objects' tab is active, showing a search bar and a list of objects including 'GLR36049'. The main area shows a script editor with a file named '\*Untitled - 1'. The script contains the following SQL code:

```
1 CREATE TABLE USERS(  
2   id INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1 INCREMENT BY 1),  
3   email VARCHAR(30) NOT NULL,  
4   username VARCHAR(20) NOT NULL,  
5   rollno VARCHAR(10) NOT NULL,  
6   password VARCHAR(30) NOT NULL,  
7   PRIMARY KEY(id)  
8 );
```

Below the script editor, the 'History' tab is visible, showing a table of executed scripts:

Script	Date	Status	Runtime
Untitled - 1	Oct 20, 2022 9:18:45 AM	✓ 1	0.104 s
CREATE TABLE USERS( id INTEGER GENERATED ALWAYS AS IDENTITY (ST...		✓	0.104 s

**Question 3:**

**Connect python code to db2.**

**Solution:**

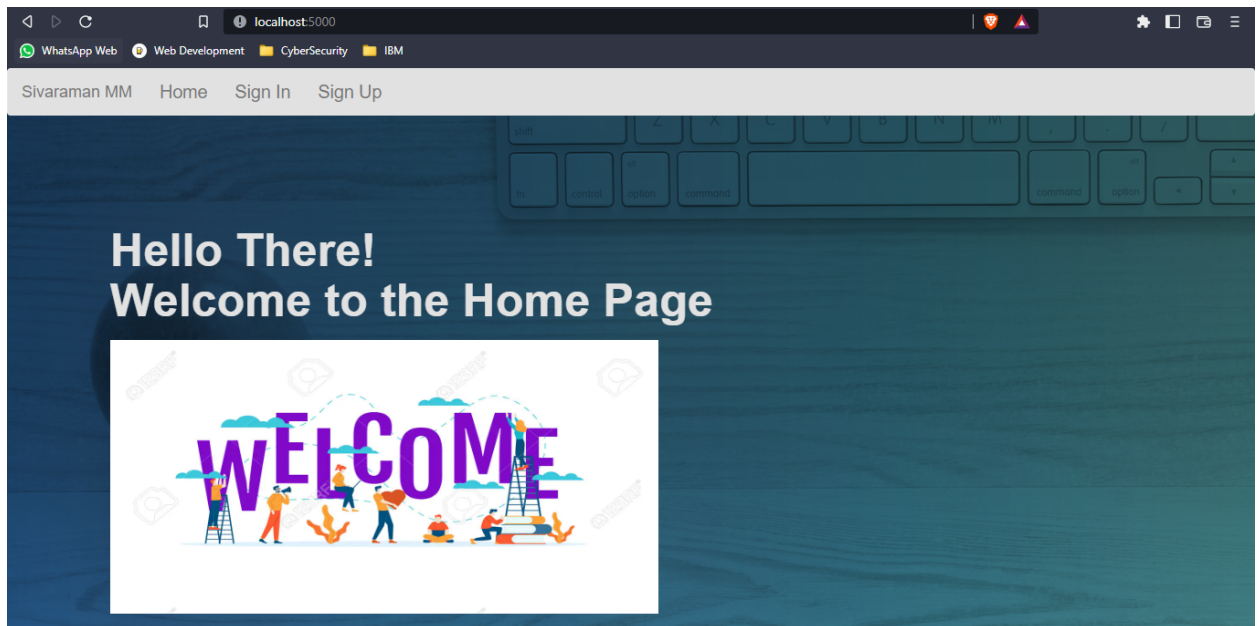
```

1 import ibm_db
2
3
4 app = Flask(__name__)
5 app.secret_key = "121212"
6
7
8 def connectDB():
9     # Enter your IBM DB2 credentials here
10    conn = ibm_db.connect("DATABASE=;HOSTNAME=;PORT=;Security=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=;PWD=;","", "")
11
12    return conn
13
14
15 @app.route("/")
16 def root():
17     return render_template("home.html", title="Home")
18
19
20 @app.route("/signin", methods=('POST', 'GET'))
21 def signin():
22     error = None
23     if request.method == 'POST':
24         email = request.form['email']
25         password = request.form['password']
26
27         userDB = connectDB()
28         sql = "SELECT username FROM users WHERE password = '{0}' AND email = '{1}'".format(
29             password, email)
30         stmt = ibm_db.exec_immediate(userDB, sql)
31         findUser = ibm_db.fetch_assoc(stmt)

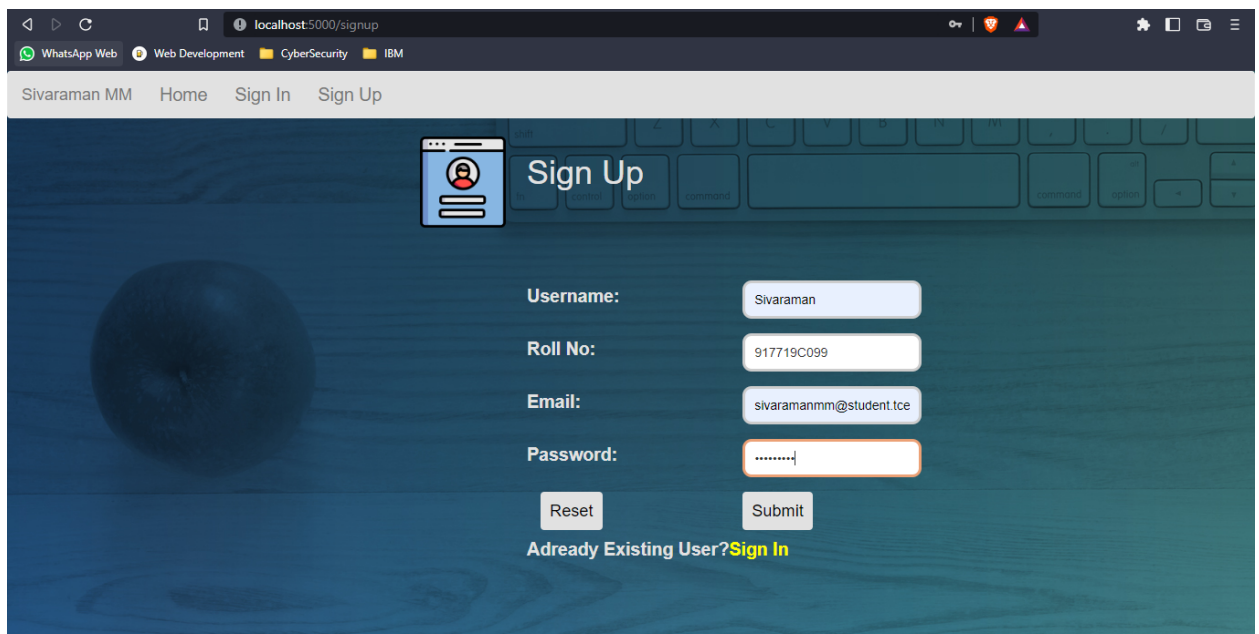
```

**Question 4:**

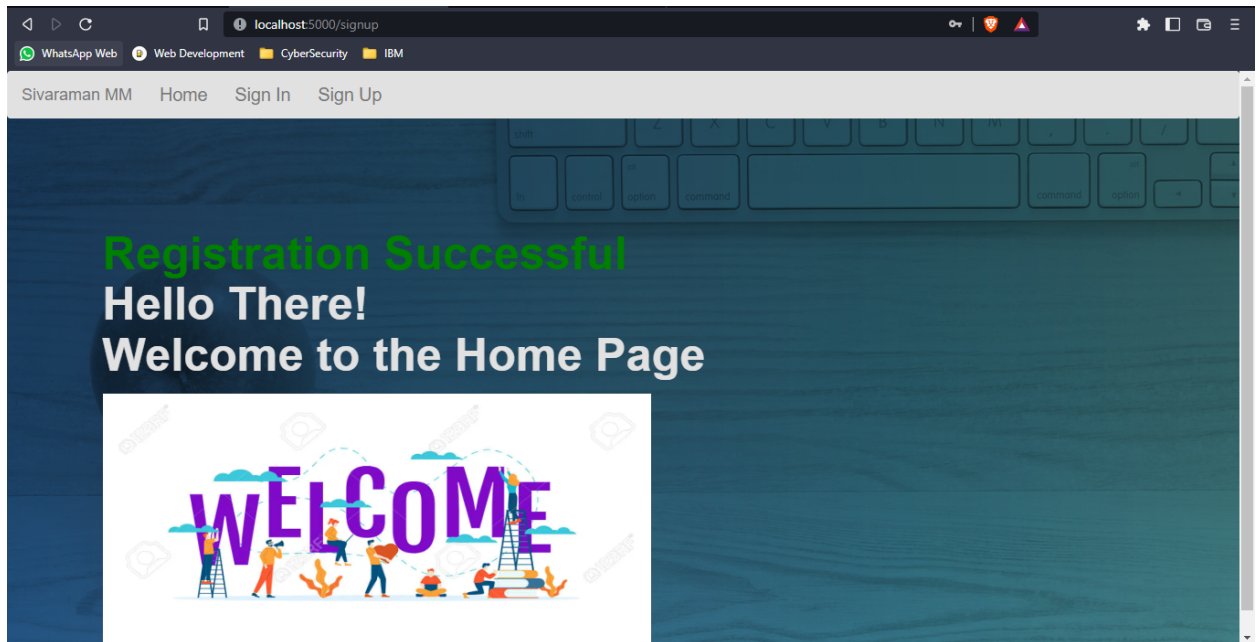
**Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page.**

**Solution:**

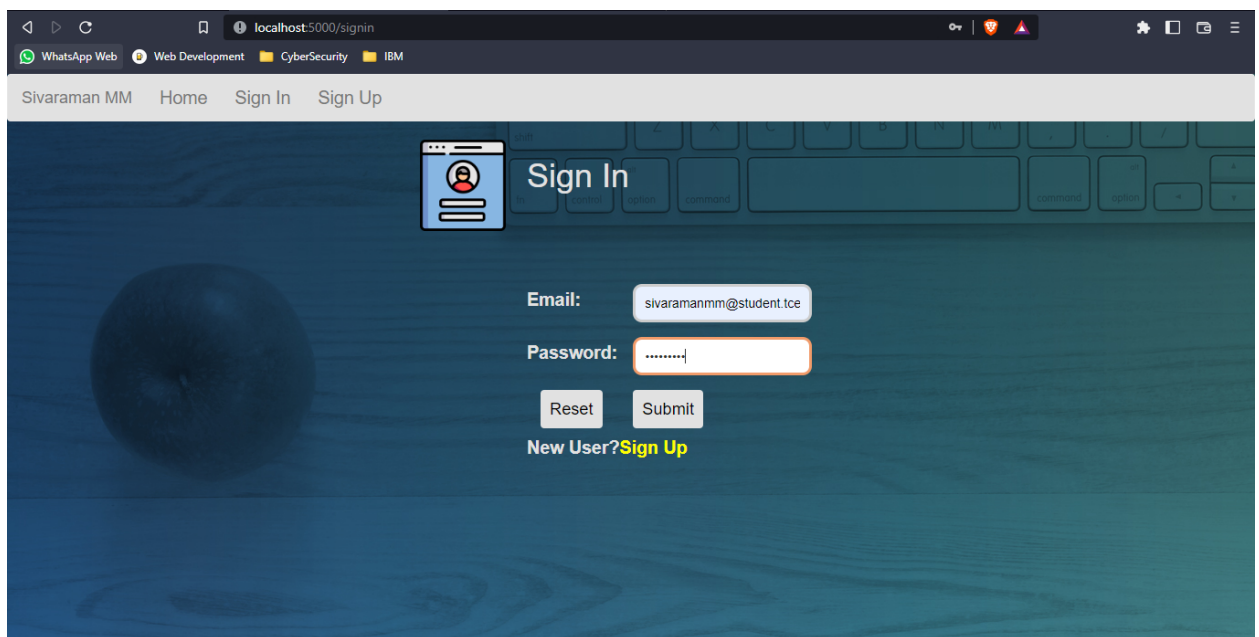
Home Page



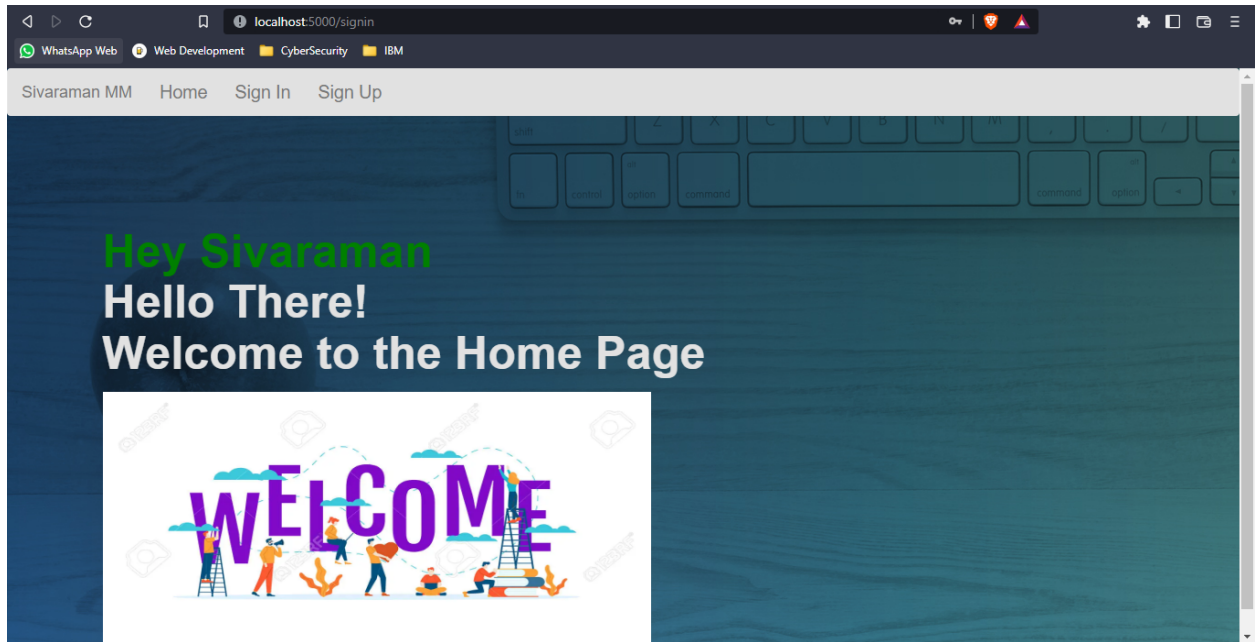
Sign Up Page



Registration Success Page



Login Page



Login Success Page

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