

ASSIGNMENT-2

Flask

Assignment Date	19 September 2022
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1) Create user table with user with email, username, roll number and password

-- Creating user table in sqlite3

Create table EMP(

Email varchar(51),

Username varchar(51),

Roll number int,

Password varchar(21)

)



Statement 1

```
CREATE TABLE EMP(Email varchar(51),Username varchar(51),Rollnumber INT>Password varchar(21))
```

Table created.

2) Perform UPDATE, DELETE Queries with user table



Statement 2

```
insert into EMP(email,username,rollnumber,password) values('abc@gmail.com','ABC',1,'abc@123')
```

1 row(s) inserted.

Statement 3

```
insert into EMP(email,username,rollnumber,password) values('abcd@gmail.com','ABCD',2,'abcd@123')
```

1 row(s) inserted.

Statement 4	update EMP set email='ABC@gamil.com' where rollnumber=1
	2 row(s) updated.
Statement 5	delete from EMP where rollnumber=2
	1 row(s) deleted.

3) 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

Sign up page:

Signup page

Username

Email

Roll number

Password

[Already have an account](#)

[Login](#)

SIGNUP PAGE HTML CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title style="font-family: sans-serif">Sign up</title>
</head>
<style>
  h1{
    text-align: center;
    font-size: 10ch;
    color: white;
  }
  body{
    background-color: #659DBD;
    text-align: center;
  }
  body{
    background-image: url("im.gif");
    background-position: center;
    background-repeat: no-repeat;
    background-size: cover;
  }

  p{
    color: white;
    font-size: x-large;
    font-family: 'Times New Roman', Times, serif;
  }
  small{
    color: rgba(168, 61, 61, 0.71);
    font-size: 3ch;
  }
  input[type=submit] {
    background-color: rgba(0, 0, 0, 0);
    font-family: 'Times New Roman', Times, serif;
    border: none;
    color: white;
    padding: 15px 10px;
    text-decoration: none;
    margin: 2px 2px;
    cursor: pointer;
  }
</style>
<body>
  <h1><u>SIGNUP</u></h1>
  <form method="POST" action="">
    <p>USERNAME</p>
```

```

        <input type="text" name="username" id="username" maxlength="25"
size="25" required>
        <p>EMAIL</p>
        <input type="text" name="email" id="email" maxlength="25" size="25"
required>
        <p>ROLL NUMBER</p>
        <input type="text" name="rno" id="rno" maxlength="25" size="25"
required>
        <p>PASSWORD</p>
        <input type="password" name="password" id="password" maxlength="25"
size="25" required>
        <br><br>
        <input type="submit" value="SIGNUP">
        <br><br>
        <small><u>ALREADY HAVE AN ACCOUNT<a href="{{ url_for('login')
}}"><br></u>
        <small><u>LOGIN</u></small>
    </form>
</body>
</html>

```

SIGNUP FUCTION IN FLASK

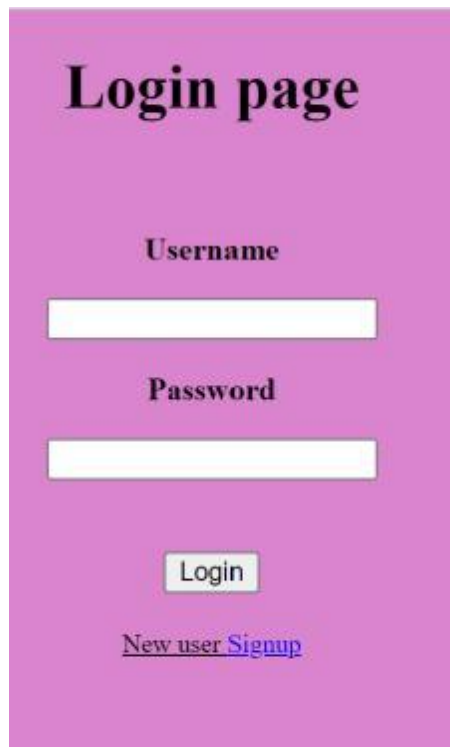
```

@app.route("/",methods=["GET","POST"])
def signup():
    if (request.method=="POST"):
        rno = request.form.get("rno",'')
        email = request.form.get("email")
        username = request.form.get("username",'')
        password = request.form.get("password",'')

        with sqlite3.connect("users.db") as con:
            cur = con.cursor()
            cur.execute("INSERT INTO user (roll_number,email,username,password)
VALUES (?,?,,?)",(rno,email,username,password) )
            con.commit()
            return redirect(url_for('login'))
        return render template("signup.html")

```

Login Page:



Login page

Username

Password

Login

New user [Signup](#)

LOGIN PAGE HTML CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Login</title>
  <link href="style.css">
</head>
<style>
  body{
    text-align:justify;
    background-color: #41B3A3;
  }
</style>
<body>

  <h1>LOGIN PAGE</h1> <br>
  <form method="POST" action="">
    <p><b>USERNAME</b></p>
    <input type="text" name="username" id = "username"> <br>
    <p><b>PASSWORD</b></p>
    <input type="password" name="password" id="password"> <br>
    <br><br>
    <input type="submit" value="LOGIN">
```

```

        <p><small><u>New User?</u><a href="{{ url_for('signup')
}}">Signup</a></small></p>
    </form>
</body>
</html>

```

LOGIN FUNCTION IN FLASK

```

@app.route("/login",methods=["GET","POST"])
def login():
    if request.method=="POST":
        username = request.form.get("username",'')
        password = request.form.get("password",'')
        with sqlite3.connect("users.db") as con:
            cur = con.cursor()
            cur.execute("select * from user where username=(?) and
password=(?)",(username,password))
            result = cur.fetchone()
            con.commit()
            if result==None:
                return render_template("login.html",msg="Invalid Username and
password")
            else:
                return render_template("home.html",username=result[1])
    return render_template("login.html")

```

Home Page:

HOME PAGE HTML CODE

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Home page</title>
</head>
<body style="background-color: #4bb574">
    <p>WELCOME TO THE HOME PAGE</p>
</body>

```

```
<style>
  p{
    text-align: center;
    font-family: serif;
    font-size:1cm;
  }
</style>
</html>
```