Assignment -2

Flask

Assignment Date	21 September 2022
Student Name	Keerthivasan A
Student Roll Number	111519205023
Maximum Marks	2 Marks

1) Create user table with user with email, username, roll number

and password

-- Creating a user table in sqlite3

Create table user (Email varchar (51), Username varchar (51), Roll number int,Password varchar(21));

1. 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.

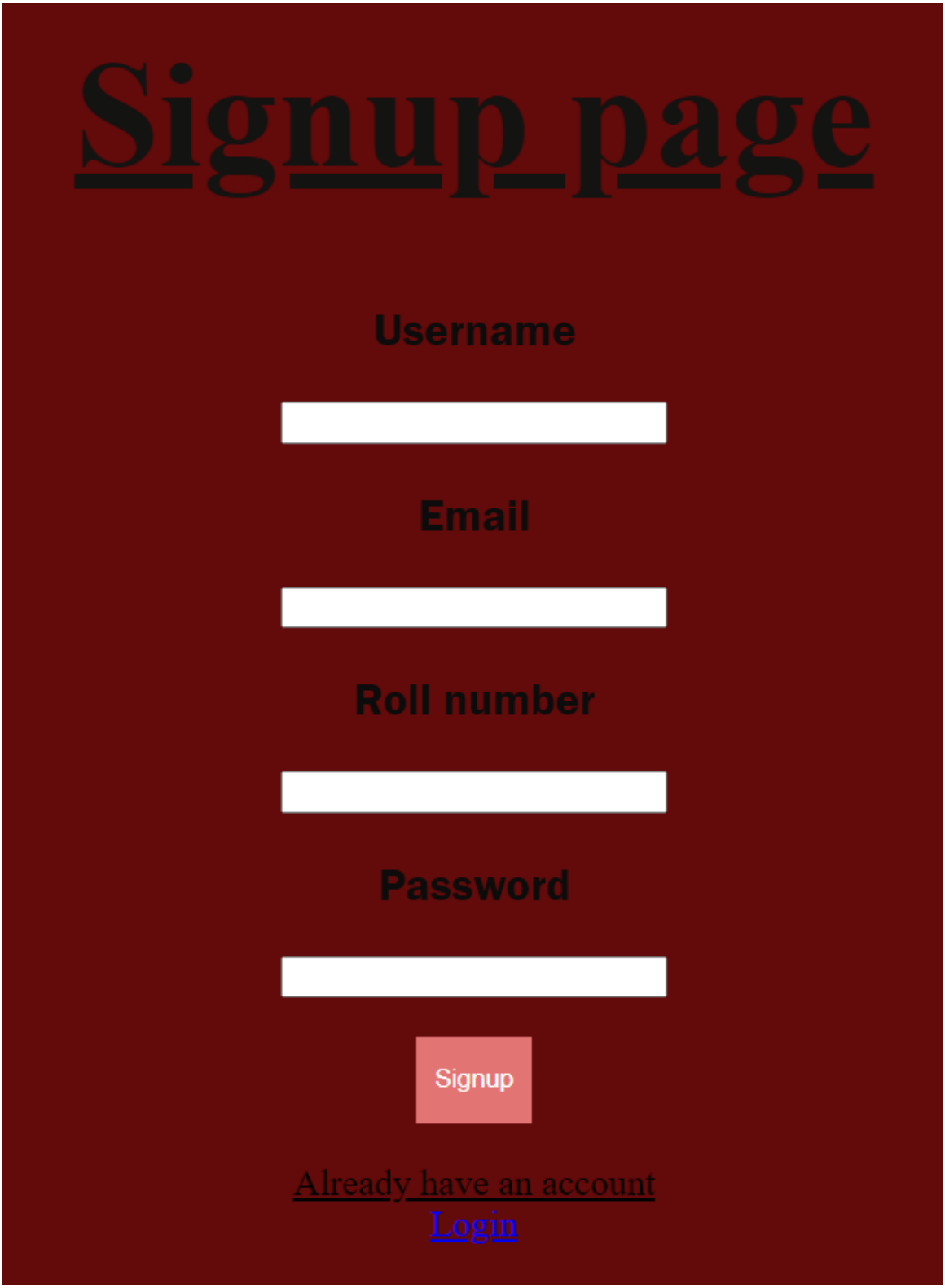
Login.html:-

Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Login</title>
    <link href="style.css">
</head>
<style>
    body{
        text-align: center;
        background-color: rgb(90, 90, 223);
    }
</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>
```

Signup.html :-


Signup page
Username
Email
Roll number
Password
Signup
Already have an account
Login

Code :-

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sign up</title>
</head>
<style>
    h1{
        text-align: center;
        font-size: 10ch;
        color: rgb(19, 19, 18);
    }
    body{
        background-color: rgb(99, 10, 10);
        text-align: center;
    }
    body{
        background-image: url("im.gif");
        background-position: center;
        background-repeat: no-repeat;
        background-size: cover;
}

    p{
        color: rgb(12, 12, 12);
        font-size: x-large;
        font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;

    }
    small{
        color:black;
        font-size: larger;
    }
    input[type=submit] {
        background-color: #e27474;
        border: none;
        color: rgb(255, 255, 255);
        padding: 15px 10px;
        text-decoration: none;
        margin: 2px 2px;
        cursor: pointer;
      }
</style>
```

```
<body>
    <h1><u>Signup page</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>Login</a></small>
    </form>
</body>
</html>
```

Flask code :-

```python
from flask import Flask,render_template,flash,request,redirect,url_for
import sqlite3
app = Flask(__name__)
@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")
@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")


if __name__=="__main__":
    app.run(debug=True)
```

Db.py :-

```python
import sqlite3
conn = sqlite3.connect('users.db')
conn.execute('''create table user( email varchar(100),username varchar(100),roll_number int PRIMARY KEY,password varchar(100));''')
conn.close()
```

OUTPUT :-