Assignment -1
Python Programming

Assignment Date	22 September 2022
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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(31));

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 username and password. If the user is valid show the welcome page.

Sign-in page:

Code: (sign-in.html)

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>SignUp Page</title>
    <style>
        h1{
            text-align: center;
            font-size: 8ch;
            color: black;
        }
        body{
            background-color: white;
            text-align: center;
            background-position: center;
            background-repeat: no-repeat;
            background-size: cover;
        }
        p{
            color: blue;
            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: red;
            border: none;
            color: white;
            padding: 15px 10px;
            text-decoration: none;
            margin: 2px 2px;
            cursor: pointer;
```

```html
        }
    </style>
</head>
<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>
```

Code:(login.html)

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Login</title>
    <style>
        h1{
            text-align: center;
            color: blueviolet;
            font-size: 400%;
        }
        body{
            text-align: center;
        }
        body
        {
            background-color: antiquewhite;

        }
        p{
            font-size: medium;
            font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
            font-size: small;
            color: black;

        }
        input[type=submit]{
            background-color: green;
            border: none;
            color: black;
            font-size: small;
            padding: 15px 25px;
            text-decoration: solid;
            margin: 2px 2px;
            cursor: pointer;
```

```html
            font-size: small;
            padding: 15px 25px;
            text-decoration: solid;
            margin: 2px 2px;
            cursor: pointer;


        }
        a:link{
            color: red;
            background-color: transparent;
            text-decoration: dotted;
        }
    </style>
</head>
<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><br>
        <input type="submit" value="login">
        <p><small>New User? <a href="{{url for('signin')}}">Signin</a></small></p>
    </form>
</body>
</html>
```

Login page:

Flask code(app.py):

```python
from flask import Flask,render_template,flash,request,redirect,url_for
import sqlite3
app = Flask(__name__)
@app.route("/",methods=["GET","POST"])
def signin():
    if (request.methods=="POST"):
        regno = request.form.get("regno",'')
        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 (register_number_email,username,password)VALUES (?,?,?,?)",(regno,email,username,password))
            con.commit()

        return redirect(url_for('login'))
    return render_template("signin.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("usersdb") 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)
```